

Supplementary Table S2. Genes with significant differential expression in the boar testis during pubertal development.

cluster	array id	gene symbols	HSA accession	HSA description	location	property	SSC accession	SSC description
one	100014	PROX1	XM_005273195	PREDICTED: Homo sapiens prospero homeobox 1 (PROX1), transcript variant X2, mRNA	Nucleus	transcription regulator	XM_005656757	PREDICTED: Sus scrofa prospero homeobox 1 (PROX1), transcript variant X6, mRNA
one	100018	BAG5	NM_004873	Homo sapiens BCL2-associated athanogene 5 (BAG5), transcript variant 2, mRNA	Cytoplasm	other	AK393496	Sus scrofa mRNA, clone: KDN010063H02, expressed in kidney
one	100148	MED13	BC044258	Homo sapiens cDNA clone IMAGE:6068796, containing frame-shift errors	Nucleus	transcription regulator	XM_003483046	PREDICTED: Sus scrofa mediator of RNA polymerase II transcription subunit 13-like (LOC100739605), mRNA
one	100159	CCT3	U17104	Human cytoplasmic chaperonin hTRiC5 mRNA, partial cds	Cytoplasm	other	AK390234	Sus scrofa mRNA, clone: BFLT10041C02, expressed in brain (frontal lobe)
one	100233	NEXN	XM_005271324	PREDICTED: Homo sapiens nexilin (F actin binding protein) (NEXN), transcript variant X3, mRNA	Plasma Membrane	other	XM_005665375	PREDICTED: Sus scrofa nexilin (F actin binding protein) (NEXN), mRNA
one	100745	LAPTM4A	NM_014713	Homo sapiens lysosomal protein transmembrane 4 alpha (LAPTM4A), mRNA	Cytoplasm	other	XM_005662724	PREDICTED: Sus scrofa lysosomal protein transmembrane 4 alpha (LAPTM4A), mRNA
one	101011	MRPL51	NM_016497	Homo sapiens mitochondrial ribosomal protein L51 (MRPL51), mRNA	Cytoplasm	other	AK349816	Sus scrofa mRNA, clone:SKNB10061C12, expressed in skin
one	101323	ZMYM2	NM_001190965	Homo sapiens zinc finger, MYM-type 2 (ZMYM2), transcript variant 4, mRNA	Nucleus	other	NM_213736	Sus scrofa phosphodiesterase 3A, cGMP-inhibited (PDE3A), mRNA >gi 5579385 gb AF161582.1 AF161582 Sus scrofa cyclic nucleotide phosphodiesterase PDE3A mRNA, complete cds
one	101698	ST7L	XM_005270964	PREDICTED: Homo sapiens suppression of tumorigenicity 7 like (ST7L), transcript variant X4, mRNA	Other	other	XM_005655455	PREDICTED: Sus scrofa suppression of tumorigenicity 7 like (ST7L), transcript variant X13, mRNA
one	101864	MARCH6	NM_001270661	Homo sapiens membrane-associated ring finger (C3HC4) 6, E3 ubiquitin protein ligase (MARCH6), transcript variant 3, mRNA	Cytoplasm	enzyme	NM_001130535	Sus scrofa membrane-associated ring finger (C3HC4) 6, E3 ubiquitin protein ligase (MARCH6), mRNA >gi 190589909 gb EU754825.1 Sus scrofa membrane-associated ring finger 6 (MARCH6) mRNA, complete cds
one	102234	FRY	XM_006719749	PREDICTED: Homo sapiens furry homolog (Drosophila) (FRY), transcript variant X1, mRNA	Extracellular Space	other	XM_005656842	PREDICTED: Sus scrofa protein furry homolog (LOC102166104), mRNA

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one	102674	UGT2B10	NM_001290091	Homo sapiens UDP glucuronosyltransferase 2 family, polypeptide B10 (UGT2B10), transcript variant 3, mRNA	Cytoplasm	enzyme	XM_005656507	PREDICTED: Sus scrofa UDP-glucuronosyltransferase 2B18-like (LOC100516628), transcript variant X2, mRNA
one	102730		AC210629	Homo sapiens FOSMID clone ABC12-49199200P15 from chromosome x, complete sequence			CU929583	Pig DNA sequence from clone CH242-185D4 on chromosome X, complete sequence
one	102767	SEPHS2	NM_012248	Homo sapiens selenophosphate synthetase 2 (SEPHS2), mRNA	Other	enzyme	AK395303	Sus scrofa mRNA, clone: OVRM10182G05, expressed in ovary
one	102822	FGB	NM_001184741	Homo sapiens fibrinogen beta chain (FGB), transcript variant 2, mRNA	Extracellular Space	other	XR_135291	PREDICTED: Sus scrofa fibrinogen beta chain-like (LOC100739222), misc_RNA
one	102825	SLC38A4	XM_005268997	PREDICTED: Homo sapiens solute carrier family 38, member 4 (SLC38A4), transcript variant X2, mRNA	Plasma Membrane	transporter	XM_005664160	PREDICTED: Sus scrofa solute carrier family 38, member 4 (SLC38A4), mRNA
one	102898	SMARCA1	XM_006724782	PREDICTED: Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 1 (SMARCA1), transcript variant X5, mRNA	Nucleus	transcription regulator	XM_005673896	PREDICTED: Sus scrofa SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 1 (SMARCA1), transcript variant X10, mRNA
one	102907	EVA1A	NM_032181	Homo sapiens eva-1 homolog A (C. elegans) (EVA1A), transcript variant 2, mRNA	Plasma Membrane	other	XM_003124981	PREDICTED: Sus scrofa protein eva-1 homolog A-like (LOC100510899), transcript variant 2, mRNA
one	102992	CALD1	BX648808	Homo sapiens mRNA; cDNA DKFZp686A06190 (from clone DKFZp686A06190)	Cytoplasm	other	XM_005673150	PREDICTED: Sus scrofa caldesmon 1 (CALD1), transcript variant X9, mRNA
one	103033	PRDX4	AB590368	Synthetic construct DNA, clone: pFN21AE1458, Homo sapiens PRDX4 gene for peroxiredoxin 4, without stop codon, in Flexi system			XM_005673496	PREDICTED: Sus scrofa peroxiredoxin 4 (PRDX4), transcript variant X2, mRNA
one	103111		AC011247	Homo sapiens BAC clone RP11-541E12 from 2, complete sequence			XM_003123236	PREDICTED: Sus scrofa olfactory receptor 7D4-like (LOC100514275), mRNA
one	103114		AC008277	Homo sapiens BAC clone RP11-311B14 from 2, complete sequence			CU861902	Pig DNA sequence from clone CH242-253L24 on chromosome X, complete sequence
one	103121	SUPV3L1	XM_005270068	PREDICTED: Homo sapiens suppressor of var1, 3-like 1 (S. cerevisiae) (SUPV3L1), transcript variant X1, mRNA	Cytoplasm	enzyme	XM_001928898	PREDICTED: Sus scrofa suppressor of var1, 3-like 1 (S. cerevisiae) (SUPV3L1), mRNA
one	103128	PIK3CA	XM_006713658	PREDICTED: Homo sapiens phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit alpha (PIK3CA), transcript variant X1, mRNA	Cytoplasm	kinase	XM_005674652	PREDICTED: Sus scrofa phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit alpha (PIK3CA), mRNA

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one	103134	SLC35A3	XM_006710516	PREDICTED: Homo sapiens solute carrier family 35 (UDP-N-acetylglucosamine (UDP-GlcNAc) transporter), member A3 (SLC35A3), transcript variant X4, mRNA	Cytoplasm	transporter	XM_005663642	PREDICTED: Sus scrofa solute carrier family 35 (UDP-N-acetylglucosamine (UDP-GlcNAc) transporter), member A3 (SLC35A3), transcript variant X3, mRNA
one	103138	PKIA	NM_181839	Homo sapiens protein kinase (cAMP-dependent, catalytic) inhibitor alpha (PKIA), transcript variant 2, mRNA	Cytoplasm	other	AK389967	Sus scrofa mRNA, clone: BFLT10012C12, expressed in brain (frontal lobe)
one	103142	PSMC5	XM_006721980	PREDICTED: Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 5 (PSMC5), transcript variant X1, mRNA	Nucleus	transcription regulator	AK396074	Sus scrofa mRNA, clone: PBL010047G11, expressed in peripheral blood lymphocytes
one	103195		AF321237	Homo sapiens chromosome 11p15.4 clone RPC11-610i20 P2-containing olfactory receptor gene cluster, complete sequence			AY610056	Sus scrofa clone Clu_60509.scr.msk.p1.Contig1, mRNA sequence
one	103210	RPH3AL	NG_023031	Homo sapiens rabphilin 3A-like (without C2 domains) (RPH3AL), RefSeqGene on chromosome 17	Plasma Membrane	other	AK390772	Sus scrofa mRNA, clone: BKFL10089D10, expressed in backfat
one	103214	FGG	AF118092	Homo sapiens PRO2061 mRNA, complete cds	Extracellular Space	other	XM_003361190	PREDICTED: Sus scrofa fibrinogen gamma chain-like (LOC100627396), transcript variant X1, mRNA
one	103241	REEP5	NM_005669	Homo sapiens receptor accessory protein 5 (REEP5), mRNA	Extracellular Space	transporter	XM_003480887	PREDICTED: Sus scrofa receptor accessory protein 5 (REEP5), mRNA
one	103248		AC112717	Homo sapiens BAC clone RP11-481H16 from 4, complete sequence			FN673783	Sus scrofa BAC clone KNP_1180D11
one	103252	IL1R1	XM_005263934	PREDICTED: Homo sapiens interleukin 1 receptor, type I (IL1R1), transcript variant X7, mRNA	Plasma Membrane	transmembrane receptor	XM_005662366	PREDICTED: Sus scrofa interleukin 1 receptor, type I (IL1R1), mRNA
one	103318	APON	AC025574	Homo sapiens 12 BAC RP11-348M3 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_005655592	PREDICTED: Sus scrofa ovarian and testicular apolipoprotein N (APON), transcript variant X2, mRNA
one	103332	BRD3	HG502514	TPA: Homo sapiens NCRNA00094 gene for long non-coding RNA OTTHUMT00000470013.1, antisense	Other	other	XM_003484312	PREDICTED: Sus scrofa bromodomain containing 3 (BRD3), mRNA
one	103353		AC099541	Homo sapiens chromosome 3 clone RP11-520A21, complete sequence			AY803092	Sus scrofa chromosome 17 clone pkmCon19, mRNA sequence
one	103380	LN2	XM_006719776	PREDICTED: Homo sapiens ligand of numb-protein X 2 (LN2), transcript variant X1, mRNA	Other	other	XM_003130900	PREDICTED: Sus scrofa ligand of numb-protein X 2 (LN2), mRNA
one	103404	CD5L	NM_005894	Homo sapiens CD5 molecule-like (CD5L), mRNA	Plasma Membrane	transmembrane receptor	XM_005663237	PREDICTED: Sus scrofa CD5 molecule-like (CD5L), transcript variant X1, mRNA

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one	103406	GPT2	NM_001142466	Homo sapiens glutamic pyruvate transaminase (alanine aminotransferase) 2 (GPT2), transcript variant 2, mRNA	Cytoplasm	enzyme	XM_005664462	PREDICTED: Sus scrofa glutamic pyruvate transaminase (alanine aminotransferase) 2 (GPT2), transcript variant X2, mRNA
one	103428	MKI67	AB528916	Synthetic construct DNA, clone: pF1KE0703, Homo sapiens MKI67IP gene for MKI67 (FHA domain) interacting nucleolar phosphoprotein, without stop codon, in Flexi system			AK395871	Sus scrofa mRNA, clone: OVRT10078F10, expressed in ovary
one	103451		AC128650	Homo sapiens 3 BAC RP11-373L8 (Roswell Park Cancer Institute Human BAC Library) complete sequence			FP074887	Pig DNA sequence from clone CH242-487119 on chromosome 1, complete sequence
one	103534	PSEN1	XM_005267866	PREDICTED: Homo sapiens presenilin 1 (PSEN1), transcript variant X3, mRNA	Plasma Membrane	peptidase	AK230685	Sus scrofa mRNA, clone:AMP010025D05, expressed in alveolar macrophage
one	103537	RFX1	AB527680	Synthetic construct DNA, clone: pF1KB6212, Homo sapiens RFX2 gene for regulatory factor X, 2, without stop codon, in Flexi system			XM_005661239	PREDICTED: Sus scrofa regulatory factor X, 1 (influences HLA class II expression) (RFX1), transcript variant X2, mRNA
one	103605	PRKCB	NG_029003	Homo sapiens protein kinase C, beta (PRKCB), RefSeqGene on chromosome 16	Cytoplasm	kinase	AK389940	Sus scrofa mRNA, clone: BFLT10008D05, expressed in brain (frontal lobe)
one	103648	SLC25A1	NM_001287387	Homo sapiens solute carrier family 25 (mitochondrial carrier; citrate transporter), member 1 (SLC25A1), transcript variant 2, mRNA	Other	transporter	NM_001190189	Sus scrofa solute carrier family 25 (mitochondrial carrier; citrate transporter), member 1 (SLC25A1), mRNA
one	103654	DDR1	XM_005275031	PREDICTED: Homo sapiens discoidin domain receptor tyrosine kinase 1 (DDR1), transcript variant X5, mRNA	Plasma Membrane	kinase	CT971577	Pig DNA sequence from clone CH242-239H1 on chromosome 7, complete sequence
one	103673	HNF1B	U90287	Human hepatocyte nuclear factor 1-beta gene, exon 9 and complete cds	Nucleus	transcription regulator	AK393417	Sus scrofa mRNA, clone: KDN010052A12, expressed in kidney
one	103733	CDX2	NM_001265	Homo sapiens caudal type homeobox 2 (CDX2), mRNA	Nucleus	transcription regulator	NM_001278769	Sus scrofa caudal type homeobox 2 (CDX2), mRNA >gj 444313337 gb GU017420.2 Sus scrofa caudal type homeobox 2 (CDX2) mRNA, complete cds
one	103735	TBXAS1	AF233625	Homo sapiens thromboxane synthase (CYP5A1) gene, CYP5A1*9 allele, complete cds	Plasma Membrane	enzyme	XM_005674091	PREDICTED: Sus scrofa thromboxane-A synthase-like (LOC100738801), mRNA
one	103794	DNAJA1	AK298725	Homo sapiens cDNA FLJ52352 complete cds, highly similar to DnaJ homolog subfamily A member 1	Nucleus	other	NM_001244163	Sus scrofa DnaJ (Hsp40) homolog, subfamily A, member 1 (DNAJA1), mRNA >gj 288785072 dbj AK351953.1 Sus scrofa mRNA, clone:THY010115A04, expressed in thymus

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one	103810	CDIPT	AK300805	Homo sapiens cDNA FLJ54162 complete cds, moderately similar to CDP-diacylglycerol--inositol3-phosphatidyltransferase (EC 2.7.8.11)	Cytoplasm	enzyme	XM_005655088	PREDICTED: Sus scrofa CDP-diacylglycerol--inositol 3-phosphatidyltransferase (CDIPT), transcript variant X1, mRNA
one	103817	HOXB6	FM206294	Cloning vector pchilGHG1			XM_003358075	PREDICTED: Sus scrofa homeobox B6 (HOXB6), mRNA
one	103818	MRPS11	XM_005254978	PREDICTED: Homo sapiens mitochondrial ribosomal protein S11 (MRPS11), transcript variant X2, mRNA	Cytoplasm	other	NM_001244528	Sus scrofa mitochondrial ribosomal protein S11 (MRPS11), mRNA >gij115555015 dbj AK240214.1 Sus scrofa mRNA, clone:UTR010041D07, expressed in uterus
one	103834	SDHC	NR_103459	Homo sapiens succinate dehydrogenase complex, subunit C, integral membrane protein, 15kDa (SDHC), transcript variant 6, long non-coding RNA	Cytoplasm	enzyme	XM_003481412	PREDICTED: Sus scrofa succinate dehydrogenase complex, subunit C, integral membrane protein, 15kDa (SDHC), transcript variant X2, mRNA
one	103858	NUFIP1	NM_012345	Homo sapiens nuclear fragile X mental retardation protein interacting protein 1 (NUFIP1), mRNA	Nucleus	other	XM_001927425	PREDICTED: Sus scrofa nuclear fragile X mental retardation protein interacting protein 1 (NUFIP1), mRNA
one	103893	PHKA2	XM_006724498	PREDICTED: Homo sapiens phosphorylase kinase, alpha 2 (liver) (PHKA2), transcript variant X6, mRNA	Cytoplasm	kinase	XM_003134961	PREDICTED: Sus scrofa phosphorylase kinase, alpha 2 (liver) (PHKA2), transcript variant 3, mRNA
one	103917	GIPC1	NM_202494	Homo sapiens GIPC PDZ domain containing family, member 1 (GIPC1), transcript variant 6, mRNA	Cytoplasm	other	XM_003123366	PREDICTED: Sus scrofa GIPC PDZ domain containing family, member 1 (GIPC1), mRNA
one	103925	PPAP2C	AF056083	Homo sapiens phosphatidic acid phosphatase type 2 (PAP-2c) mRNA, complete cds	Plasma Membrane	phosphatase	XM_005661428	PREDICTED: Sus scrofa phosphatidic acid phosphatase type 2C (PPAP2C), transcript variant X2, mRNA
one	103936	RPL15	NM_001253383	Homo sapiens ribosomal protein L15 (RPL15), transcript variant 5, mRNA	Cytoplasm	other	NM_001244065	Sus scrofa ribosomal protein L15 (RPL15), mRNA >gij115545777 dbj AK234210.1 Sus scrofa mRNA, clone:OVR010027H10, expressed in ovary
one	104012	CCT8	FM206294	Cloning vector pchilGHG1			XM_003358899	PREDICTED: Sus scrofa chaperonin containing TCP1, subunit 8 (theta) (CCT8), transcript variant 1, mRNA
one	104013	PTPRE	AK290414	Homo sapiens cDNA FLJ75634 complete cds, highly similar to Homo sapiens protein tyrosine phosphatase, receptor type, E (PTPRE), transcript variant 2, mRNA	Plasma Membrane	phosphatase	XM_003359399	PREDICTED: Sus scrofa protein tyrosine phosphatase, receptor type, E (PTPRE), transcript variant X2, mRNA
one	104021	IL10	GQ405199	Homo sapiens interleukin 10 (IL10) gene, complete cds	Extracellular Space	cytokine	AK397697	Sus scrofa mRNA, clone: SPL010046C12, expressed in spleen
one	104023	SARS2	NG_031865	Homo sapiens seryl-tRNA synthetase 2, mitochondrial (SARS2), RefSeqGene on chromosome 19			AK234634	Sus scrofa mRNA, clone:OVR010101B12, expressed in ovary

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one	104031	CD14	NG_023178	Homo sapiens CD14 molecule (CD14), RefSeqGene on chromosome 5	Plasma Membrane	transmembrane receptor	EF626695	Sus scrofa CD14 gene, complete cds
one	104061	ALDH2	JF432260	Synthetic construct Homo sapiens clone IMAGE:100073430 aldehyde dehydrogenase 2 family (mitochondrial) (ALDH2) gene, encodes complete protein	Cytoplasm	enzyme	AK399061	Sus scrofa mRNA, clone: OVRM10120E12, expressed in ovary
one	104070	SLC25A32	NR_102338	Homo sapiens solute carrier family 25 (mitochondrial folate carrier), member 32 (SLC25A32), transcript variant 3, non-coding RNA	Cytoplasm	transporter	AK231198	Sus scrofa mRNA, clone:ITT010015C03, expressed in intestine
one	104083	HSPB8	AF217987	Homo sapiens clone PP1629 unknown mRNA	Cytoplasm	kinase	XM_001929585	PREDICTED: Sus scrofa heat shock 22kDa protein 8 (HSPB8), mRNA
one	104117		NG_008262	Homo sapiens triosephosphate isomerase 1 pseudogene 1 (TPI1P1) on chromosome 1			AK389190	Sus scrofa mRNA, clone: ADR010009E12, expressed in adrenal gland
one	104154	SST	NM_001048	Homo sapiens somatostatin (SST), mRNA	Extracellular Space	other	AY609447	Sus scrofa clone Clu_118377.scr.msk.p1.Contig1, mRNA sequence
one	104166	SH2B1	FM206294	Cloning vector pchiIGHG1			XM_003124516	PREDICTED: Sus scrofa SH2B adaptor protein 1 (SH2B1), transcript variant X1, mRNA
one	104194	CYP2C18	HQ447473	Synthetic construct Homo sapiens clone IMAGE:100070802; CCSD014020_01 cytochrome P450, family 2, subfamily C, polypeptide 18 (CYP2C18) gene, encodes complete protein	Cytoplasm	enzyme	XM_005671308	PREDICTED: Sus scrofa cytochrome P450 C42 (CYP2C42), transcript variant X1, mRNA
one	104205	CYP2S1	DQ896681	Synthetic construct Homo sapiens clone IMAGE:100011141; FLH196609.01L; RZPDo839F10155D cytochrome P450, family 2, subfamily S, polypeptide 1 (CYP2S1) gene, encodes complete protein	Cytoplasm	enzyme	NM_214417	Sus scrofa cytochrome P450 2A19 (CYP2A19), mRNA >gi 32364346 gb AY091516.1 Sus scrofa cytochrome p450 2A6 mRNA, complete cds
one	104206	FSTL3	AK313341	Homo sapiens cDNA, FLJ93863	Extracellular Space	other	AK237585	Sus scrofa mRNA, clone:SPL010065B09, expressed in spleen
one	104213		AB761679	Homo sapiens DNA, flanking sequence of putative initiation site for DNA replication, clone: 2D_3A02			AK389767	Sus scrofa mRNA, clone: AMP010064H11, expressed in alveolar macrophage
one	104223	CTGF	HM015591	Homo sapiens connective tissue growth factor (CTGF) gene, complete cds	Extracellular Space	growth factor	AK346093	Sus scrofa mRNA, clone:LVRM10045H08, expressed in liver

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one	104239	AP1M2	XM_005259701	PREDICTED: Homo sapiens adaptor-related protein complex 1, mu 2 subunit (AP1M2), transcript variant X1, mRNA	Cytoplasm	transporter	XM_005654864	PREDICTED: Sus scrofa AP-1 complex subunit mu-2-like (LOC102168166), mRNA
one	104250	RPSA	BC070263	Homo sapiens ribosomal protein SA, mRNA (cDNA clone MGC:88252 IMAGE:3996864), complete cds	Cytoplasm	translation regulator	AK400775	Sus scrofa mRNA, clone: PST010002G04, expressed in prostate
one	104253	ZDHHC1	NM_013304	Homo sapiens zinc finger, DHHC-type containing 1 (ZDHHC1), mRNA	Nucleus	enzyme	XM_005664428	PREDICTED: Sus scrofa zinc finger, DHHC-type containing 1 (ZDHHC1), mRNA
one	104258	RPL34	XM_005263172	PREDICTED: Homo sapiens ribosomal protein L34 (RPL34), transcript variant X1, mRNA	Cytoplasm	other	XM_005666943	PREDICTED: Sus scrofa ribosomal protein L34 (RPL34), transcript variant X2, mRNA
one	104275	CBX5	NM_012117	Homo sapiens chromobox homolog 5 (CBX5), transcript variant 3, mRNA	Nucleus	transcription regulator	AY610107	Sus scrofa clone Clu_71340.scr.msk.p1.Contig1, mRNA sequence
one	104289	RPS15	BC141832	Homo sapiens ribosomal protein S15, mRNA (cDNA clone MGC:165022 IMAGE:40148744), complete cds	Cytoplasm	other	AK391716	Sus scrofa mRNA, clone: HTMT10017F09, expressed in hypothalamus
one	104364	ETFB	BC093961	Homo sapiens electron-transfer-flavoprotein, beta polypeptide, mRNA (cDNA clone MGC:120996 IMAGE:7939806), complete cds	Cytoplasm	transporter	NM_001205279	Sus scrofa electron-transfer-flavoprotein, beta polypeptide (ETFB), mRNA >gi 35384837 gb AY374470.1 Sus scrofa electron transfer flavoprotein beta subunit precursor (ETFB) mRNA, partial cds; nuclear gene for mitochondrial product
one	104383	TARBP2	XM_005269115	PREDICTED: Homo sapiens TAR (HIV-1) RNA binding protein 2 (TARBP2), transcript variant X2, mRNA	Nucleus	other	XM_003355410	PREDICTED: Sus scrofa TAR (HIV-1) RNA binding protein 2 (TARBP2), transcript variant X2, mRNA
one	104404	TUBB2B	HQ447903	Synthetic construct Homo sapiens clone IMAGE:100071259; CCSD005347_02 tubulin, beta 2B (TUBB2B) gene, encodes complete protein	Cytoplasm	other	AK390592	Sus scrofa mRNA, clone: BFLT10097D04, expressed in brain (frontal lobe)
one	104450	NKX3-1	FM206294	Cloning vector pchiIGHG1			XM_005670433	PREDICTED: Sus scrofa NK3 homeobox 1 (NKX3-1), transcript variant X2, mRNA
one	104460	TLX1	NM_005521	Homo sapiens T-cell leukemia homeobox 1 (TLX1), transcript variant 1, mRNA	Nucleus	transcription regulator	AK397749	Sus scrofa mRNA, clone: SPL010067B02, expressed in spleen
one	104464	DDIT3	NM_001195057	Homo sapiens DNA-damage-inducible transcript 3 (DDIT3), transcript variant 6, mRNA	Nucleus	transcription regulator	AK346637	Sus scrofa mRNA, clone:MLN010026H09, expressed in mesenteric lymph nodes

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one	104501	NEDD8	NM_006156	Homo sapiens neural precursor cell expressed, developmentally down-regulated 8 (NEDD8), mRNA	Nucleus	enzyme	XM_003128544	PREDICTED: Sus scrofa neural precursor cell expressed, developmentally down-regulated 8 (NEDD8), transcript variant X1, mRNA
one	104516	TIMP2	AK294290	Homo sapiens cDNA FLJ57920 complete cds, highly similar to Metalloproteinase inhibitor 2 precursor	Extracellular Space	other	XM_005656895	PREDICTED: Sus scrofa TIMP metalloproteinase inhibitor 2 (TIMP2), transcript variant X4, mRNA
one	104575	RALB	NM_002881	Homo sapiens v-ral simian leukemia viral oncogene homolog B (RALB), mRNA	Cytoplasm	enzyme	AK396776	Sus scrofa mRNA, clone: PST010089A07, expressed in prostate
one	104581	LGALS1	AB097036	Homo sapiens mRNA for putative MAPK activating protein, complete cds, clone: PM12	Extracellular Space	other	NM_001001867	Sus scrofa lectin, galactoside-binding, soluble, 1 (LGALS1), mRNA >gi 90421308 gb DQ367936.1 Sus scrofa galectin 1 (LGAS1) mRNA, complete cds
one	104583	SEC24C	JF432326	Synthetic construct Homo sapiens clone IMAGE:100073512 SEC24 family, member C (S. cerevisiae) (SEC24C) gene, encodes complete protein	Cytoplasm	transporter	XM_003483502	PREDICTED: Sus scrofa SEC24 family, member C (S. cerevisiae) (SEC24C), transcript variant 2, mRNA
one	104678	RGS7	NM_001282775	Homo sapiens regulator of G-protein signaling 7 (RGS7), transcript variant 3, mRNA	Cytoplasm	enzyme	XM_003130526	PREDICTED: Sus scrofa regulator of G-protein signaling 7 (RGS7), mRNA
one	104718	SETD2	AL049470	Homo sapiens mRNA; cDNA DKFZp586L012 (from clone DKFZp586L012)	Cytoplasm	enzyme	XM_005669478	PREDICTED: Sus scrofa SET domain containing 2 (SETD2), mRNA
one	104765	MIF	CR456520	Homo sapiens MIF full length open reading frame (ORF) cDNA clone (cDNA clone C22ORF:pGEM.MIF)	Extracellular Space	cytokine	AK345303	Sus scrofa mRNA, clone:ITT010103A11, expressed in small intestine
one	104850	KIAA1211	AB033037	Homo sapiens mRNA for KIAA1211 protein, partial cds	Other	other	XM_005666699	PREDICTED: Sus scrofa uncharacterized LOC102164723 (LOC102164723), partial mRNA
one	104949	NR1D2	HQ692831	Homo sapiens nuclear receptor Rev-ErbA beta variant 2 (NR1D2) mRNA, complete cds	Nucleus	ligand-dependent nuclear receptor	XM_005669303	PREDICTED: Sus scrofa nuclear receptor subfamily 1, group D, member 2 (NR1D2), mRNA
one	104950	CTNNA2	XM_006711949	PREDICTED: Homo sapiens catenin (cadherin-associated protein), alpha 2 (CTNNA2), transcript variant X1, mRNA	Plasma Membrane	other	XM_005662416	PREDICTED: Sus scrofa catenin (cadherin-associated protein), alpha 2 (CTNNA2), mRNA
one	104963	TEX2	NM_001288733	Homo sapiens testis expressed 2 (TEX2), transcript variant 3, mRNA	Other	other	XM_003131281	PREDICTED: Sus scrofa testis expressed 2 (TEX2), transcript variant X1, mRNA
one	104984	ASPA	XM_006721527	PREDICTED: Homo sapiens aspartoacylase (ASPA), transcript variant X2, mRNA	Cytoplasm	enzyme	XM_005669114	PREDICTED: Sus scrofa aspartoacylase (ASPA), transcript variant X1, mRNA

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one	200580	NRG1	NG_012005	Homo sapiens neuregulin 1 (NRG1), RefSeqGene on chromosome 8			CU407324	Pig DNA sequence from clone CH242-110M8 on chromosome X, complete sequence
one	200723	GIGYF2	BX647172	Homo sapiens mRNA; cDNA DKFZp686J17223 (from clone DKFZp686J17223)	Other	other	XM_003483765	PREDICTED: Sus scrofa PERQ amino acid-rich with GYF domain-containing protein 2-like (LOC100738429), partial mRNA
one	200784		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			FP236641	Pig DNA sequence from clone CH242-427J19 on chromosome X, complete sequence
one	200833	PPP4R4	XM_006720222	PREDICTED: Homo sapiens protein phosphatase 4, regulatory subunit 4 (PPP4R4), transcript variant X3, mRNA >gi 578839937 ref XM_006725170.1 PREDICTED: Homo sapiens protein phosphatase 4, regulatory subunit 4 (PPP4R4), transcript variant X3, mRNA	Cytoplasm	other	FP015842	Pig DNA sequence from clone CH242-149K17 on chromosome X, complete sequence
one	200838	SNRPG	AC079338	Homo sapiens BAC clone CTD-2314H8 from 2, complete sequence			XM_003125052	PREDICTED: Sus scrofa small nuclear ribonucleoprotein polypeptide G (SNRPG), mRNA
one	200845	SIPA1L2	AL157409	Human DNA sequence from clone RP5-823D19 on chromosome 1q42.11-43, complete sequence	Other	other	CT737284	Pig DNA sequence from clone CH242-113C14 on chromosome 14, complete sequence
one	200849		AL592546	Human DNA sequence from clone RP11-211N11 on chromosome 10, complete sequence			XM_003360687	PREDICTED: Sus scrofa NHL repeat-containing protein 2-like (LOC100622931), mRNA
one	200857	PTPLA	AF114494	Homo sapiens putative tyrosine phosphatase (PTPLA) mRNA, complete cds	Other	phosphatase	XM_005674297	PREDICTED: Sus scrofa very-long-chain (3R)-3-hydroxyacyl-[acyl-carrier protein] dehydratase 1-like (LOC100522945), mRNA
one	200858	SLC9A1	NR_046474	Homo sapiens solute carrier family 9, subfamily A (NHE1, cation proton antiporter 1), member 1 (SLC9A1), transcript variant 2, long non-coding RNA	Plasma Membrane	ion channel	XM_005665926	PREDICTED: Sus scrofa FYVE, RhoGEF and PH domain containing 2 (FGD2), transcript variant X2, mRNA
one	200882	RABEPK	FM206294	Cloning vector pchilGHG1			XM_005654544	PREDICTED: Sus scrofa Rab9 effector protein with kelch motifs (RABEPK), transcript variant X8, mRNA
one	200915	KIAA0513	NM_014732	Homo sapiens KIAA0513 (KIAA0513), transcript variant 2, mRNA	Other	other	FQ976643	Pig DNA sequence from clone WTSI_1061-1M10 on chromosome Y, complete sequence
one	200928	CCDC66	XM_006713115	PREDICTED: Homo sapiens coiled-coil domain containing 66 (CCDC66), transcript variant X8, mRNA	Other	other	XM_005669670	PREDICTED: Sus scrofa coiled-coil domain containing 66 (CCDC66), transcript variant X9, mRNA

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one	200929		AC008854	Homo sapiens chromosome 5 clone CTD-2177J2, complete sequence			AY609649	Sus scrofa clone Clu_23515.scr.msk.p1.Contig2, mRNA sequence
one	200939	FGF1	AY601819	Homo sapiens fibroblast growth factor 1 (acidic) (FGF1) gene, complete cds	Extracellular Space	growth factor	XM_003124010	PREDICTED: Sus scrofa acidic fibroblast growth factor (AFGF), transcript variant 1, mRNA
one	200974	TRO	XM_006724605	PREDICTED: Homo sapiens trophinin (TRO), transcript variant X7, mRNA	Plasma Membrane	other	CU856438	Pig DNA sequence from clone CH242-133L21 on chromosome X, complete sequence
one	200978	GABRB2	NM_021911	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, beta 2 (GABRB2), transcript variant 1, mRNA	Plasma Membrane	ion channel	FP102640	Pig DNA sequence from clone CH242-235B10 on chromosome 6, complete sequence
one	200989	PAH	S83538	PAH=phenylalanine hydroxylase {exon 12 region} [human, phenylketonuria (PKU) patient, Genomic Mutant, 497 nt]	Cytoplasm	enzyme	FO203385	Pig DNA sequence from clone WTSI_1005-198O14 on chromosome X, complete sequence
one	201027	CCL13	AC002482	Human BAC clone CTA-208O3, complete sequence	Extracellular Space	cytokine	NM_001038000	Sus scrofa FKBP1A-like (LOC654323), mRNA >gi 61098746 gb AY820760.1 Sus scrofa FKBP1A-like mRNA, complete cds
one	201042	CAST	FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			EU137105	Sus scrofa calpastatin (CAST) gene locus containing exons 1xa through 30, complete sequence, alternatively spliced
one	201056	THAP8	XM_005258623	PREDICTED: Homo sapiens THAP domain containing 8 (THAP8), transcript variant X3, mRNA	Other	other	AJ410870	Sus scrofa COX7A1 gene, CAPNS1 gene, CKAP1 gene, POLR2I gene and CLIPR-59 gene (partial)
one	201094		FM206294	Cloning vector pchilGHG1			XR_306598	PREDICTED: Sus scrofa uncharacterized LOC100512810 (LOC100512810), transcript variant X2, misc_RNA
one	201107		FM206294	Cloning vector pchilGHG1			AF067053	Sus scrofa microsatellite Li2 sequence
one	201215	GTDC1	XM_006712756	PREDICTED: Homo sapiens glycosyltransferase-like domain containing 1 (GTDC1), transcript variant X21, mRNA	Other	other	XM_001926936	PREDICTED: Sus scrofa glycosyltransferase-like domain containing 1 (GTDC1), mRNA
one	201336	DLG2	NG_021375	Homo sapiens discs, large homolog 2 (Drosophila) (DLG2), RefSeqGene on chromosome 11			AK346251	Sus scrofa mRNA, clone:LVRM10116C07, expressed in liver
one	201381	MID2	XM_005262062	PREDICTED: Homo sapiens midline 2 (MID2), transcript variant X1, mRNA	Cytoplasm	other	AK390066	Sus scrofa mRNA, clone: BFLT10023B09, expressed in brain (frontal lobe)
one	201383	FAM154B	XM_005254319	PREDICTED: Homo sapiens family with sequence similarity 154, member B (FAM154B), transcript variant X3, mRNA	Other	other	XM_003356653	PREDICTED: Sus scrofa family with sequence similarity 154, member B (FAM154B), partial mRNA

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one	201384		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CU928882	Pig DNA sequence from clone CH242-173G21 on chromosome 6, complete sequence
one	201421	SIVA1	NM_006427	Homo sapiens SIVA1, apoptosis-inducing factor (SIVA1), transcript variant 1, mRNA	Cytoplasm	other	FP102268	Pig DNA sequence from clone CH242-95K10 on chromosome 1, complete sequence
one	201432		AC230042	Homo sapiens FOSMID clone ABC14-50079200J6 from chromosome unknown, complete sequence			CU633284	Pig DNA sequence from clone CH242-371L5 on chromosome X, complete sequence
one	201439	TMTC2	XM_005268680	PREDICTED: Homo sapiens transmembrane and tetratricopeptide repeat containing 2 (TMTC2), transcript variant X1, mRNA	Cytoplasm	other	AK351645	Sus scrofa mRNA, clone:THY010053H05, expressed in thymus
one	201440	HOTAIRM1	HG500101	TPA: Homo sapiens HOTAIRM1 gene for long non-coding RNA	Other	other	FP340357	Pig DNA sequence from clone CH242-49J20 on chromosome X, complete sequence
one	201470	GET4	BC113951	OTTHUMT00000139958.2, antisense Homo sapiens cDNA clone IMAGE:5240403			XM_005655054	PREDICTED: Sus scrofa golgi to ER traffic protein 4 homolog (<i>S. cerevisiae</i>) (GET4), mRNA
one	201478	TICAM1	NG_031998	Homo sapiens toll-like receptor adaptor molecule 1 (TICAM1), RefSeqGene (LRG_358) on chromosome 19	Nucleus	other	XM_003362039	PREDICTED: Sus scrofa TIR domain-containing adapter molecule 1-like (LOC100623776), partial mRNA
one	201536	NUP214	NG_023371	Homo sapiens nucleoporin 214kDa (NUP214), RefSeqGene on chromosome 9	Nucleus	transporter	AK351089	Sus scrofa mRNA, clone:TCH010093H11, expressed in trachea
one	201557	LRRC8B	XM_005270704	PREDICTED: Homo sapiens leucine rich repeat containing 8 family, member B (LRRC8B), transcript variant X4, mRNA	Other	other	XM_001929205	PREDICTED: Sus scrofa leucine rich repeat containing 8 family, member C (LRRC8C), transcript variant X1, mRNA
one	201558	TFB2M	AB527481	Synthetic construct DNA, clone: pF1KB7662, Homo sapiens TFB2M gene for transcription factor B2, mitochondrial, without stop codon, in Flexi system			AK344328	Sus scrofa mRNA, clone:DCI010011A04, expressed in dendritic cells (immature)
one	201567	SLC35F4	NM_001206920	Homo sapiens solute carrier family 35, member F4 (SLC35F4), mRNA	Other	other	XM_003121828	PREDICTED: Sus scrofa solute carrier family 35, member F4 (SLC35F4), partial mRNA
one	201602	MYL12B	NM_001144945	Homo sapiens myosin, light chain 12B, regulatory (MYL12B), transcript variant 3, mRNA	Cytoplasm	other	XM_003127841	PREDICTED: Sus scrofa myosin regulatory light chain (MRLC2), transcript variant 1, mRNA
one	201612	DYNC1H1	NG_008777	Homo sapiens dynein, cytoplasmic 1, heavy chain 1 (DYNC1H1), RefSeqGene on chromosome 14	Cytoplasm	peptidase	AK350834	Sus scrofa mRNA, clone:TCH010039B06, expressed in trachea

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one	201629	PFDN5	AK292623	Homo sapiens cDNA FLJ76574 complete cds, highly similar to Homo sapiens prefoldin 5 (PFDN5), transcript variant 1, mRNA	Nucleus	transcription regulator	XM_005652566	PREDICTED: Sus scrofa UPF0160 protein MYG1, mitochondrial-like (LOC100516439), transcript variant X3, mRNA
one	201635	SERPINC1	NG_012462	Homo sapiens serpin peptidase inhibitor, clade C (antithrombin), member 1 (SERPINC1), RefSeqGene on chromosome 1	Extracellular Space	enzyme	GQ231321	Sus scrofa sTF36235 noncoding RNA, complete sequence
one	201642	CCDC173	NM_001085447	Homo sapiens coiled-coil domain containing 173 (CCDC173), mRNA	Other	other	XM_003133469	PREDICTED: Sus scrofa coiled-coil domain containing 173 (CCDC173), mRNA
one	201675	KREMEN1	NM_001039570	Homo sapiens kringle containing transmembrane protein 1 (KREMEN1), transcript variant 3, mRNA	Plasma Membrane	other	XM_005657347	PREDICTED: Sus scrofa kringle containing transmembrane protein 1 (KREMEN1), transcript variant X3, mRNA
one	201680		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			FP015840	Pig DNA sequence from clone CH242-141E11 on chromosome X, complete sequence
one	201684	CCDC50	FM206294	Cloning vector pchilGHG1			XM_003483296	PREDICTED: Sus scrofa coiled-coil domain containing 50 (CCDC50), transcript variant X3, mRNA
one	201686	GJB7	NM_198568	Homo sapiens gap junction protein, beta 7, 25kDa (GJB7), mRNA	Other	other	XM_005659279	PREDICTED: Sus scrofa gap junction protein, beta 7, 25kDa (GJB7), transcript variant X2, mRNA
one	201696	LOC100130301	XM_005251126	PREDICTED: Homo sapiens uncharacterized LOC100130301 (LOC100130301), transcript variant X1, mRNA	Other	other	XM_003125597	PREDICTED: Sus scrofa uncharacterized LOC100517709 (LOC100517709), transcript variant X1, mRNA
one	201777	LINC01304	AC107070	Homo sapiens BAC clone RP11-293H4 from 2, complete sequence	Other	other	AK344485	Sus scrofa mRNA, clone:DCI010061D01, expressed in dendritic cells (immature)
one	201791	TMEM198	XM_006712284	PREDICTED: Homo sapiens transmembrane protein 198 (TMEM198), transcript variant X1, mRNA	Other	other	XM_003359651	PREDICTED: Sus scrofa transmembrane protein 198 (TMEM198), mRNA
one	201793	DENND3	XM_005250845	PREDICTED: Homo sapiens DENN/MADD domain containing 3 (DENND3), transcript variant X8, mRNA	Other	other	XM_005668202	PREDICTED: Sus scrofa enoyl-CoA hydratase domain-containing protein 3, mitochondrial-like (LOC100513945), partial mRNA
one	201797		AC132808	Homo sapiens chromosome 3 clone RP11-794P9, complete sequence			AK349068	Sus scrofa mRNA, clone:PCT010016H05, expressed in placenta
one	201800	ANGPTL1	XM_005245577	PREDICTED: Homo sapiens angiopoietin-like 1 (ANGPTL1), transcript variant X1, mRNA	Plasma Membrane	other	XM_005667787	PREDICTED: Sus scrofa angiopoietin-like 1 (ANGPTL1), transcript variant X1, mRNA

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one	201827	RPL23AP42	NG_010965	Homo sapiens ribosomal protein L23a pseudogene 42 (RPL23AP42) on chromosome 3			XM_003361281	PREDICTED: Sus scrofa 60S ribosomal protein L23a-like (LOC100623805), mRNA
one	201838	CXCL17	AY598464	Homo sapiens VEGF co-regulated chemokine 1 precursor (VCC1) mRNA, complete cds	Other	other	XM_005674553	PREDICTED: Sus scrofa ankyrin repeat domain 6 (ANKRD6), mRNA
one	201862	IFRD1	BX648799	Homo sapiens mRNA; cDNA DKFZp686A24200 (from clone DKFZp686A24200)	Nucleus	other	XM_005673238	PREDICTED: Sus scrofa interferon-related developmental regulator 1 (IFRD1), transcript variant X2, mRNA
one	201877		AC020910	Homo sapiens chromosome 19 clone CTD-2553L13, complete sequence			XM_003481826	PREDICTED: Sus scrofa major allergen I polypeptide chain 2-like (LOC100739673), transcript variant X1, mRNA
one	201887	AGK	AL355300	Human DNA sequence from clone RP11-810B23 on chromosome 10, complete sequence			NM_001143699	Sus scrofa acylglycerol kinase (AGK), mRNA >gi 217314882 gb FJ436384.1 Sus scrofa acylglycerol kinase (AGK) mRNA, complete cds
one	201896	SLCO2A1	AC106884	Homo sapiens BAC clone RP11-1366O24 from 4, complete sequence			DQ104838	Sus scrofa solute carrier organic anion transporter family member 2A1 (SLCO2A1) gene, exon 6
one	201996	OSBPL3	XM_006715684	PREDICTED: Homo sapiens oxysterol binding protein-like 3 (OSBPL3), transcript variant X5, mRNA	Cytoplasm	other	XM_003484060	PREDICTED: Sus scrofa oxysterol binding protein-like 3 (OSBPL3), transcript variant 2, mRNA
one	202090	ATP4B	NM_000705	Homo sapiens ATPase, H+/K+ exchanging, beta polypeptide (ATP4B), mRNA	Plasma Membrane	transporter	NM_001001258	Sus scrofa ATPase, H+/K+ exchanging, beta polypeptide (ATP4B), mRNA >gi 164467 gb M35497.1 PIGGASBAA Pig gastric H+/K+-ATPase beta subunit mRNA, complete cds
one	202126	GRPEL2	NM_152407	Homo sapiens GrpE-like 2, mitochondrial (E. coli) (GRPEL2), mRNA	Cytoplasm	other	AK238702	Sus scrofa mRNA, clone:THY010019A04, expressed in thymus
one	202173		AL355074	Human chromosome 14 DNA sequence BAC R-750I4 of library RPCI-11 from chromosome 14 of Homo sapiens (Human), complete sequence			CU207265	Pig DNA sequence from clone CH242-390F8 on chromosome X, complete sequence
one	202279	DCAF16	FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			XM_005674529	PREDICTED: Sus scrofa DDB1 and CUL4 associated factor 16 (DCAF16), mRNA
one	202294		AC018989	Homo sapiens chromosome 17, clone RP11-273K13, complete sequence			CT737200	Pig DNA sequence from clone CH242-13L11 on chromosome 14, complete sequence
one	202378		AC006272	Homo sapiens chromosome 19, cosmid F23276, complete sequence			CU019573	Pig DNA sequence from clone CH242-21M5 on chromosome 6, complete sequence

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one	202463	BEND7	AL590677	Human DNA sequence from clone RP11-214D15 on chromosome 10, complete sequence	Cytoplasm	other	AK350058	Sus scrofa mRNA, clone:SMG010056G07, expressed in submaxillary gland
one	202488	CAGE1	NM_001170692	Homo sapiens cancer antigen 1 (CAGE1), transcript variant 1, mRNA	Other	other	CU184692	Pig DNA sequence from clone CH242-417C1 on chromosome 4, complete sequence
one	202491		AC105417	Homo sapiens chromosome 4 clone RP11-378N18, complete sequence			XR_305032	PREDICTED: Sus scrofa UPF0462 protein C4orf33 homolog (LOC100515958), transcript variant X2, misc_RNA
one	202529	TMBIM4	NM_001282606	Homo sapiens transmembrane BAX inhibitor motif containing 4 (TMBIM4), transcript variant 1, mRNA	Nucleus	other	XM_003481653	PREDICTED: Sus scrofa transmembrane BAX inhibitor motif containing 4 (TMBIM4), mRNA
one	202666	GLB1L3	AP000859	Homo sapiens genomic DNA, chromosome 11q clone:CMB9-17I22, complete sequences			XM_003130091	PREDICTED: Sus scrofa galactosidase, beta 1-like 3 (GLB1L3), transcript variant X1, mRNA
one	202932	LRBA	XM_005263376	PREDICTED: Homo sapiens LPS-responsive vesicle trafficking, beach and anchor containing (LRBA), transcript variant X5, mRNA	Cytoplasm	other	XR_300088	PREDICTED: Sus scrofa uncharacterized LOC100622605 (LOC100622605), misc_RNA
one	203002	DPEP2	NM_022355	Homo sapiens dipeptidase 2 (DPEP2), mRNA	Plasma Membrane	peptidase	AK234581	Sus scrofa mRNA, clone:OVR010090E08, expressed in ovary
one	203027	PRR16	HG498391	TPA: Homo sapiens CTD-2334D19.1 gene for long non-coding RNA OTTHUMT00000371063.1, lincRNA			XM_005654996	PREDICTED: Sus scrofa proline rich 16 (PRR16), mRNA
one	203306	VSNL1	NM_003385	Homo sapiens visinin-like 1 (VSNL1), mRNA	Cytoplasm	other	XM_003125343	PREDICTED: Sus scrofa visinin-like 1 (VSNL1), transcript variant 1, mRNA
one	203502		NG_009062	Homo sapiens nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor) (NR3C1), RefSeqGene on chromosome 5			CU928713	Pig DNA sequence from clone CH242-105G5 on chromosome 2, complete sequence
one	203517	LGALSL	BC036082	Homo sapiens galectin-related protein, mRNA (cDNA clone MGC:33751 IMAGE:5301908), complete cds	Other	other	XM_005653364	PREDICTED: Sus scrofa cyclin-dependent kinase 11B (CDK11B), mRNA
one	203590	UBQLN1	NG_011519	Homo sapiens ubiquilin 1 (UBQLN1), RefSeqGene on chromosome 9	Cytoplasm	other	XM_005668033	PREDICTED: Sus scrofa ubiquilin 1 (UBQLN1), transcript variant X2, mRNA
one	203639	ECD	NR_024203	Homo sapiens ecdysoneless homolog (Drosophila) (ECD), transcript variant 4, long non-coding RNA	Nucleus	transcription regulator	XM_005671096	PREDICTED: Sus scrofa ecdysoneless homolog (Drosophila) (ECD), transcript variant X4, mRNA
one	203771	LOC100507006	AC074289	Homo sapiens BAC clone RP11-207O24 from 2, complete sequence	Other	other	AK348931	Sus scrofa mRNA, clone:PBL010069D02, expressed in peripheral blood mononuclear cells

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one	203783	ATP5G3	AK311999	Homo sapiens cDNA, FLJ92273, Homo sapiens ATP synthase, H+ transporting, mitochondrial F0complex, subunit c (subunit 9) isoform 3 (ATP5G3), mRNA	Cytoplasm	transporter	NM_001244862	Sus scrofa ATP synthase, H+ transporting, mitochondrial Fo complex, subunit C3 (subunit 9) (ATP5G3), mRNA
one	203868	PSEN1	XM_005267866	PREDICTED: Homo sapiens presenilin 1 (PSEN1), transcript variant X3, mRNA	Plasma Membrane	peptidase	AK230685	Sus scrofa mRNA, clone:AMP010025D05, expressed in alveolar macrophage
one	203889	NOL11	AK299483	Homo sapiens cDNA FLJ55361 complete cds, highly similar to Nucleolar protein 11	Nucleus	other	XM_003131277	PREDICTED: Sus scrofa nucleolar protein 11-like (LOC100524893), mRNA
one	203905	RELL1	NM_001085400	Homo sapiens RELT-like 1 (RELL1), transcript variant 1, mRNA	Other	other	AY803092	Sus scrofa chromosome 17 clone pkmCon19, mRNA sequence
one	203926	TEFM	AC130324	Homo sapiens chromosome 17, clone RP13-753N3, complete sequence			XM_003131737	PREDICTED: Sus scrofa transcription elongation factor, mitochondrial (TEFM), transcript variant X1, mRNA
one	203986	KLHL41	NM_006063	Homo sapiens kelch-like family member 41 (KLHL41), mRNA	Cytoplasm	other	XM_003359548	PREDICTED: Sus scrofa kelch-like family member 41 (KLHL41), mRNA
one	204102	C12orf55	XM_006726546	PREDICTED: Homo sapiens chromosome 12 open reading frame 55 (C12orf55), mRNA	Other	other	AK397464	Sus scrofa mRNA, clone: SMG010021A03, expressed in submaxillary gland
one	204107	HSD17B11	XM_006714232	PREDICTED: Homo sapiens hydroxysteroid (17-beta) dehydrogenase 11 (HSD17B11), transcript variant X1, mRNA	Cytoplasm	enzyme	AK344700	Sus scrofa mRNA, clone:DCI010112B11, expressed in dendritic cells (immature)
one	204191	C10orf71	XM_006717603	PREDICTED: Homo sapiens chromosome 10 open reading frame 71 (C10orf71), transcript variant X5, mRNA	Other	other	XM_003133106	PREDICTED: Sus scrofa chromosome 14 open reading frame, human C10orf71 (C14H10orf71), transcript variant X1, mRNA
one	204266		AC239892	Homo sapiens FOSMID clone ABC16-2747O14 from chromosome 4, complete sequence			XM_003129071	PREDICTED: Sus scrofa UDP-glucuronosyltransferase 2B18-like (LOC100516628), transcript variant X1, mRNA
one	204270		AL929472	Human DNA sequence from clone RP11-109P14 on chromosome 1, complete sequence			AK234824	Sus scrofa mRNA, clone:OVRM10019F02, expressed in ovary
one	204298	ALB	NG_009291	Homo sapiens albumin (ALB), RefSeqGene on chromosome 4	Extracellular Space	transporter	AY663543	Sus scrofa albumin gene, complete cds
one	204374	LAMP3	XM_006713586	PREDICTED: Homo sapiens lysosomal-associated membrane protein 3 (LAMP3), transcript variant X2, mRNA	Plasma Membrane	other	XM_005670019	PREDICTED: Sus scrofa lysosomal-associated membrane protein 3 (LAMP3), transcript variant X2, mRNA
one	204389	FAM149B1	XM_005269747	PREDICTED: Homo sapiens family with sequence similarity 149, member B1 (FAM149B1), transcript variant X4, mRNA	Other	other	XM_003483497	PREDICTED: Sus scrofa protein FAM149B1-like (LOC100739778), mRNA

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one	204443	KLKB1	XM_006714213	PREDICTED: Homo sapiens kallikrein B, plasma (Fletcher factor) 1 (KLKB1), transcript variant X2, mRNA	Extracellular Space	peptidase	AK232948	Sus scrofa mRNA, clone:LVRM10054D07, expressed in liver
one	204500	MTTP	XM_005263025	PREDICTED: Homo sapiens microsomal triglyceride transfer protein (MTTP), transcript variant X1, mRNA	Cytoplasm	transporter	NM_214185	Sus scrofa microsomal triglyceride transfer protein (MTTP), mRNA >gj 28974485 gb AY217034.1 Sus scrofa microsomal triglyceride transfer protein large subunit (MTP) mRNA, complete cds
one	204543	CCKAR	NG_012053	Homo sapiens cholecystokinin A receptor (CCKAR), RefSeqGene on chromosome 4	Plasma Membrane	G-protein coupled receptor	XM_003356886	PREDICTED: Sus scrofa cholecystokinin A receptor (CCKAR), mRNA
one	204600	DOCK3	NG_028012	Homo sapiens dedicator of cytokinesis 3 (DOCK3), RefSeqGene on chromosome 3			FO082712	Pig DNA sequence from clone WTSI_1061-78D9 on chromosome Y, complete sequence
one	204645	ATP13A4	XM_006713786	PREDICTED: Homo sapiens ATPase type 13A4 (ATP13A4), transcript variant X3, mRNA	Other	transporter	XM_003483299	PREDICTED: Sus scrofa ATPase type 13A4 (ATP13A4), mRNA
one	204660	PSTK	XM_005269496	PREDICTED: Homo sapiens phosphoseryl-tRNA kinase (PSTK), transcript variant X1, mRNA	Cytoplasm	kinase	XM_005671515	PREDICTED: Sus scrofa phosphoseryl-tRNA kinase (PSTK), mRNA
one	204685	ANKRD55	XM_006714691	PREDICTED: Homo sapiens ankyrin repeat domain 55 (ANKRD55), transcript variant X2, mRNA	Nucleus	transcription regulator	XM_005672462	PREDICTED: Sus scrofa ankyrin repeat domain 55 (ANKRD55), mRNA
one	204700		FM206294	Cloning vector pchilGHG1			AK350756	Sus scrofa mRNA, clone:TCH010023D07, expressed in trachea
one	204766		AL389883	Human DNA sequence from clone RP11-126L5 on chromosome 20, complete sequence			FP015931	Pig DNA sequence from clone CH242-240L23 on chromosome X, complete sequence
one	204792	SNRPA1	NG_001550	Homo sapiens small nuclear ribonucleoprotein polypeptide A' pseudogene (LOC150417) on chromosome 22			XM_001925349	PREDICTED: Sus scrofa small nuclear ribonucleoprotein polypeptide A' (SNRPA1), mRNA
one	204794	ASB3	NM_001201965	Homo sapiens ankyrin repeat and SOCS box containing 3 (ASB3), transcript variant 3, mRNA	Cytoplasm	transcription regulator	XM_005653041	PREDICTED: Sus scrofa ankyrin repeat and SOCS box containing 3 (ASB3), transcript variant X1, mRNA
one	204826	TRIM24	NG_023286	Homo sapiens tripartite motif containing 24 (TRIM24), RefSeqGene on chromosome 7			XM_003360125	PREDICTED: Sus scrofa tripartite motif containing 24 (TRIM24), partial mRNA
one	204837	MTRF1	XR_429224	PREDICTED: Homo sapiens mitochondrial translational release factor 1 (MTRF1), transcript variant X8, misc_RNA	Cytoplasm	translation regulator	NM_001243580	Sus scrofa mitochondrial translational release factor 1 (MTRF1), mRNA

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one	204946	SERAC1	NG_032889	Homo sapiens serine active site containing 1 (SERAC1), RefSeqGene on chromosome 6	Extracellular Space	other	FP339573	Pig DNA sequence from clone CH242-228K17 on chromosome X, complete sequence
one	204947	C6orf89	NM_001286635	Homo sapiens chromosome 6 open reading frame 89 (C6orf89), transcript variant 2, mRNA	Other	other	XM_005665923	PREDICTED: Sus scrofa chromosome 7 open reading frame, human C6orf89 (C7H6orf89), transcript variant X3, mRNA
one	204954	PPAP2B	NM_003713	Homo sapiens phosphatidic acid phosphatase type 2B (PPAP2B), mRNA	Plasma Membrane	phosphatase	XM_005665388	PREDICTED: Sus scrofa phosphatidic acid phosphatase type 2B (PPAP2B), transcript variant X2, mRNA
one	204963	SIX4	NG_021182	Homo sapiens SIX homeobox 4 (SIX4), RefSeqGene on chromosome 14	Nucleus	transcription regulator	NM_001244614	Sus scrofa SIX homeobox 4 (SIX4), mRNA
one	204989	TMEM183A	XR_241106	PREDICTED: Homo sapiens transmembrane protein 183A (TMEM183A), transcript variant X2, misc_RNA	Other	other	AK396401	Sus scrofa mRNA, clone: PST010023A04, expressed in prostate
one	205007	KHNYN	AB002321	Homo sapiens mRNA for KIAA0323 gene, partial cds	Other	other	XM_005666232	PREDICTED: Sus scrofa KH and NYN domain containing (KHNYN), transcript variant X2, mRNA
one	205021	BMS1	AC254634	Homo sapiens BAC clone CH17-267E14 from chromosome 16, complete sequence			XM_001928781	PREDICTED: Sus scrofa BMS1 ribosome biogenesis factor (BMS1), transcript variant X1, mRNA
one	205026	FZD5	NM_003468	Homo sapiens frizzled class receptor 5 (FZD5), mRNA	Plasma Membrane	G-protein coupled receptor	XM_005672133	PREDICTED: Sus scrofa frizzled family receptor 5 (FZD5), mRNA
one	205078		AL021578	Human DNA sequence from clone RP3-453C12 on chromosome 20q12-13.12, complete sequence			CU638862	Pig DNA sequence from clone CH242-477H4 on chromosome X, complete sequence
one	205083		AC087272	Homo sapiens chromosome 8, clone RP11-139G7, complete sequence			FP085547	Pig DNA sequence from clone CH242-56C19 on chromosome X, complete sequence
one	205155		AC012488	Homo sapiens BAC clone RP11-88L20 from 2, complete sequence			XM_005672020	PREDICTED: Sus scrofa asparagine synthetase domain-containing protein 1-like (LOC100513955), transcript variant X2, mRNA
one	205162	AR	NG_009014	Homo sapiens androgen receptor (AR), RefSeqGene on chromosome X	Nucleus	ligand-dependent nuclear receptor	XM_005673696	PREDICTED: Sus scrofa androgen receptor (AR), transcript variant X1, mRNA
one	205163		FM206294	Cloning vector pchILGHG1			AF067053	Sus scrofa microsatellite Li2 sequence
one	205234	IRK1	AC067721	Homo sapiens 3 BAC RP11-111F10 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_005674073	PREDICTED: Sus scrofa inward rectifier potassium channel (IRK1), transcript variant X1, mRNA
one	205337	FCGR2B	AC243971	Homo sapiens BAC clone CH17-437O13 from chromosome 1, complete sequence			XM_005663160	PREDICTED: Sus scrofa Fc fragment of IgG, low affinity IIb, receptor (CD32) (FCGR2B), transcript variant X4, mRNA

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one	205348	TRIM13	NM_005798	Homo sapiens tripartite motif containing 13 (TRIM13), transcript variant 1, mRNA	Cytoplasm	enzyme	AK396700	Sus scrofa mRNA, clone: PST010077C04, expressed in prostate
one	205512	CEP68	AK000856	Homo sapiens cDNA FLJ20849 fis, clone ADKA01706, highly similar to AB011154 Homo sapiens mRNA for KIAA0582 protein	Cytoplasm	other	XM_005662513	PREDICTED: Sus scrofa centrosomal protein 68kDa (CEP68), transcript variant X3, mRNA
one	205621	MBLAC1	XM_005250250	PREDICTED: Homo sapiens metallo-beta-lactamase domain containing 1 (MBLAC1), transcript variant X1, mRNA	Other	other	FP089551	Pig DNA sequence from clone CH242-338K18 on chromosome 2, complete sequence
one	205755	SH3RF1	NM_020870	Homo sapiens SH3 domain containing ring finger 1 (SH3RF1), mRNA	Cytoplasm	other	XM_005657283	PREDICTED: Sus scrofa SH3 domain containing ring finger 1 (SH3RF1), mRNA
one	205792	KB-431C1.4	HG501538	TPA: Homo sapiens KB-431C1.4 gene for long non-coding RNA OTTHUMT00000380743.1, antisense	Other	other	XM_003125386	PREDICTED: Sus scrofa Rho-associated, coiled-coil containing protein kinase 2 (ROCK2), transcript variant X1, mRNA
one	205943	PPP1CC	NG_030325	Homo sapiens protein phosphatase 1, catalytic subunit, gamma isozyme (PPP1CC), RefSeqGene on chromosome 12	Nucleus	phosphatase	AK392314	Sus scrofa mRNA, clone: HTMT10065C07, expressed in hypothalamus
one	206110	GXYLT1	AL832209	Homo sapiens mRNA; cDNA DKFZp686K192 (from clone DKFZp686K192)	Cytoplasm	other	FP565626	Pig DNA sequence from clone CH242-175F15 on chromosome X, complete sequence
one	206137	SLC26A3	NG_008046	Homo sapiens solute carrier family 26 (anion exchanger), member 3 (SLC26A3), RefSeqGene on chromosome 7	Plasma Membrane	transporter	XM_003359542	PREDICTED: Sus scrofa potassium voltage-gated channel subfamily H member 7-like (LOC100623954), mRNA
one	206158		AC004542	Homo sapiens PAC clone RP3-430N8 from 22q12.1-qter, complete sequence			XR_116282	PREDICTED: Sus scrofa uncharacterized LOC100525309 (LOC100525309), transcript variant X1, misc_RNA
one	206165	FAM76B	XR_247187	PREDICTED: Homo sapiens family with sequence similarity 76, member B (FAM76B), transcript variant X4, misc_RNA	Nucleus	other	XM_005667260	PREDICTED: Sus scrofa family with sequence similarity 76, member B (FAM76B), transcript variant X5, mRNA
one	206210	TDG	AF545435	Homo sapiens thymine-DNA glycosylase (TDG) gene, complete cds	Nucleus	enzyme	XM_003126645	PREDICTED: Sus scrofa glycosyltransferase 8 domain containing 2 (GLT8D2), mRNA
one	206218	SNX27	XM_005245512	PREDICTED: Homo sapiens sorting nexin family member 27 (SNX27), transcript variant X4, mRNA	Cytoplasm	other	CU457723	Pig DNA sequence from clone CH242-28L6 on chromosome 4, complete sequence
one	206278		AC242283	Homo sapiens FOSMID clone ABC14-50176100K4 from chromosome 3, complete sequence			XR_298093	PREDICTED: Sus scrofa uncharacterized LOC102163468 (LOC102163468), misc_RNA

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one	206293	SCN1A	NM_001202435	Homo sapiens sodium channel, voltage-gated, type I, alpha subunit (SCN1A), transcript variant 4, mRNA	Plasma Membrane	ion channel	XM_003133452	PREDICTED: Sus scrofa sodium channel, voltage-gated, type IX, alpha subunit (SCN9A), mRNA
one	206361	CDKN2AIP	XM_005263118	PREDICTED: Homo sapiens CDKN2A interacting protein (CDKN2AIP), transcript variant X1, mRNA	Nucleus	transcription regulator	XM_003133332	PREDICTED: Sus scrofa CDKN2A interacting protein (CDKN2AIP), transcript variant X1, mRNA
one	206389	CAAP1	NM_001167575	Homo sapiens caspase activity and apoptosis inhibitor 1 (CAAP1), transcript variant 2, mRNA	Other	other	XM_005654489	PREDICTED: Sus scrofa caspase activity and apoptosis inhibitor 1 (CAAP1), transcript variant X2, mRNA
one	206397	TFAMP2	NG_007345	Homo sapiens transcription factor A, mitochondrial pseudogene 2 (TFAMP2) on chromosome 11			AK391541	Sus scrofa mRNA, clone: DCI010108H11, expressed in dendritic cells (immature)
one	206415	TMEM106B	AK223263	Homo sapiens mRNA for hypothetical protein FLJ11273 variant, clone: STM07490	Cytoplasm	other	XM_005667653	PREDICTED: Sus scrofa transmembrane protein 106B (TMEM106B), transcript variant X3, mRNA
one	206597	PRKD3	XM_006711980	PREDICTED: Homo sapiens protein kinase D3 (PRKD3), transcript variant X5, mRNA	Nucleus	kinase	XM_003125235	PREDICTED: Sus scrofa protein kinase D3 (PRKD3), mRNA
one	206723	MFAP3	NM_001242336	Homo sapiens microfibrillar-associated protein 3 (MFAP3), transcript variant 3, mRNA	Extracellular Space	other	XM_003134126	PREDICTED: Sus scrofa microfibrillar-associated protein 3 (MFAP3), mRNA
one	206750	CEP83	NM_016122	Homo sapiens centrosomal protein 83kDa (CEP83), transcript variant 1, mRNA	Extracellular Space	other	XM_003355685	PREDICTED: Sus scrofa coiled-coil domain containing 41 (CCDC41), partial mRNA
one	206842	ASB7	NM_198243	Homo sapiens ankyrin repeat and SOCS box containing 7 (ASB7), transcript variant 2, mRNA	Other	other	XM_005659792	PREDICTED: Sus scrofa ankyrin repeat and SOCS box containing 7 (ASB7), transcript variant X3, mRNA
one	206855		HG495994	TPA: Homo sapiens RP11-67L2.2 gene for long non-coding RNA OTTHUMT00000471805.1, lincRNA			EF131706	Sus scrofa clone KVL5312 microsatellite sequence
one	206872	SNRPA1	XR_243213	PREDICTED: Homo sapiens small nuclear ribonucleoprotein polypeptide A' (SNRPA1), transcript variant X1, misc_RNA	Nucleus	other	XM_001925349	PREDICTED: Sus scrofa small nuclear ribonucleoprotein polypeptide A' (SNRPA1), mRNA
one	206939	CLCN5	NG_007159	Homo sapiens chloride channel, voltage-sensitive 5 (CLCN5), RefSeqGene on chromosome X			CU207271	Pig DNA sequence from clone CH242-214N22 on chromosome X, complete sequence
one	206962	LPHN3	NG_033950	Homo sapiens latrophilin 3 (LPHN3), RefSeqGene on chromosome 4			FP312632	Pig DNA sequence from clone CH242-205N3 on chromosome X, complete sequence
one	206975	TFAP2C	NM_003222	Homo sapiens transcription factor AP-2 gamma (activating enhancer binding protein 2 gamma) (TFAP2C), mRNA	Nucleus	transcription regulator	NM_001123201	Sus scrofa transcription factor AP-2 gamma (activating enhancer binding protein 2 gamma) (TFAP2C), mRNA

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one	207048	GOSR1	NM_001007025	Homo sapiens golgi SNAP receptor complex member 1 (GOSR1), transcript variant 2, mRNA	Cytoplasm	transporter	CU606904	Pig DNA sequence from clone CH242-378E11 on chromosome X, complete sequence
one	207052	CTNNA3	NG_034072	Homo sapiens catenin (cadherin-associated protein), alpha 3 (CTNNA3), RefSeqGene on chromosome 10			NM_001038000	Sus scrofa FKBP1A-like (LOC654323), mRNA >gi 61098746 gb AY820760.1 Sus scrofa FKBP1A-like mRNA, complete cds
one	207083	NUDCD2	NM_145266	Homo sapiens NudC domain containing 2 (NUDCD2), mRNA >gi 17389850 gb BC017934.1 Homo sapiens NudC domain containing 2, mRNA (cDNA clone MGC:23968 IMAGE:4698187), complete cds	Cytoplasm	other	XM_003134083	PREDICTED: Sus scrofa NudC domain containing 2 (NUDCD2), transcript variant 1, mRNA
one	207089	HEPACAM2	NM_001039372	Homo sapiens HEPACAM family member 2 (HEPACAM2), transcript variant 1, mRNA	Cytoplasm	other	XR_305530	PREDICTED: Sus scrofa HEPACAM family member 2-like (LOC100626473), transcript variant X4, misc_RNA
one	207097	MGEA5	XR_246060	PREDICTED: Homo sapiens meningioma expressed antigen 5 (hyaluronidase) (MGEA5), transcript variant X4, misc_RNA	Cytoplasm	enzyme	XM_003359345	PREDICTED: Sus scrofa meningioma expressed antigen 5 (hyaluronidase) (MGEA5), transcript variant X2, mRNA
one	207102	HDHD2	XM_006722557	PREDICTED: Homo sapiens haloacid dehalogenase-like hydrolase domain containing 2 (HDHD2), transcript variant X5, mRNA	Cytoplasm	other	XM_005652475	PREDICTED: Sus scrofa haloacid dehalogenase-like hydrolase domain containing 2 (HDHD2), transcript variant X5, mRNA
one	207144	CMSS1	NM_001167924	Homo sapiens cms1 ribosomal small subunit homolog (yeast) (CMSS1), transcript variant 2, mRNA	Other	other	XM_001924376	PREDICTED: Sus scrofa chromosome 3 open reading frame 26 (C13H3orf26), mRNA
one	207155		AC069307	Homo sapiens BAC clone RP11-738E22 from 4, complete sequence			AY820768	Sus scrofa ZDHHC2-like mRNA, 3' UTR
one	207194	LINS	AK093868	Homo sapiens cDNA FLJ36549 fis, clone TRACH2008081	Other	other	XM_003353422	PREDICTED: Sus scrofa lines homolog (Drosophila) (LINS), mRNA
one	207203		AC244150	Homo sapiens FOSMID clone ABC8-4087210007 from chromosome unknown, complete sequence			XM_005668848	PREDICTED: Sus scrofa keratin, high-sulfur matrix protein, B2D-like (LOC100738100), mRNA
one	207228		NG_023307	Homo sapiens small nuclear ribonucleoprotein polypeptide E pseudogene 4 (SNRPEP4) on chromosome 19			AK344769	Sus scrofa mRNA, clone:HTMT10039G05, expressed in hypothalamus
one	207240	PMP2	AK307118	Homo sapiens cDNA, FLJ97066	Cytoplasm	other	XM_005663002	PREDICTED: Sus scrofa peripheral myelin protein 2 (PMP2), transcript variant X1, mRNA
one	207263	KDM3A	XM_006712051	PREDICTED: Homo sapiens lysine (K)-specific demethylase 3A (KDM3A), transcript variant X1, mRNA	Nucleus	transcription regulator	XM_005662402	PREDICTED: Sus scrofa lysine (K)-specific demethylase 3A (KDM3A), transcript variant X3, mRNA

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one	207269		AL390882	Human DNA sequence from clone RP11-113D19 on chromosome 9p21.2-22.3, complete sequence			FP015904	Pig DNA sequence from clone CH242-51N1 on chromosome X, complete sequence
one	207290	PLEKHB2	NR_049792	Homo sapiens pleckstrin homology domain containing, family B (evectins) member 2 (PLEKHB2), transcript variant 14, non-coding RNA	Other	other	XM_003133821	PREDICTED: Sus scrofa pleckstrin homology domain-containing family B member 2-like (LOC100514609), partial mRNA
one	207346	NEFM	EF560737	Homo sapiens clone DKFZp686O1498 NEFM protein (NEFM) mRNA, complete cds	Plasma Membrane	other	XM_003359038	PREDICTED: Sus scrofa neurofilament, medium polypeptide (NEFM), transcript variant X1, mRNA
one	207423	MAATS1	XM_006713808	PREDICTED: Homo sapiens MYCBP-associated, testis expressed 1 (MAATS1), transcript variant X2, mRNA	Cytoplasm	other	XM_003132654	PREDICTED: Sus scrofa MYCBP-associated, testis expressed 1 (MAATS1), transcript variant X1, mRNA
one	207488	TMEM260	XM_006720178	PREDICTED: Homo sapiens transmembrane protein 260 (TMEM260), transcript variant X6, mRNA	Other	other	XM_005659991	PREDICTED: Sus scrofa chromosome 14 open reading frame 101 ortholog (C1H14orf101), transcript variant X3, mRNA
one	207531	IKBKAP	NG_008788	Homo sapiens inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase complex-associated protein (IKBKAP), RefSeqGene (LRG_251) on chromosome 9	Cytoplasm	other	XM_001924394	PREDICTED: Sus scrofa inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase complex-associated protein (IKBKAP), mRNA
one	207549	DGKH	NG_029191	Homo sapiens diacylglycerol kinase, eta (DGKH), RefSeqGene on chromosome 13			AK392480	Sus scrofa mRNA, clone: HTMT10078G06, expressed in hypothalamus
one	207922	PCGF3	AK300290	Homo sapiens cDNA FLJ54810 complete cds, highly similar to Homo sapiens polycomb group ring finger 3 (PCGF3), mRNA	Nucleus	other	AK345480	Sus scrofa mRNA, clone:LNG010035D06, expressed in lung
one	208142		AC012309	Homo sapiens chromosome 19 clone CTC-454I21, complete sequence			CT757452	Pig DNA sequence from clone CH242-130D3 on chromosome 7, complete sequence
one	208197	PPP3CC	BC004864	Homo sapiens protein phosphatase 3 (formerly 2B), catalytic subunit, gamma isoform, mRNA (cDNA clone MGC:10576 IMAGE:3677098), complete cds	Cytoplasm	phosphatase	XM_005658656	PREDICTED: Sus scrofa serine/threonine-protein phosphatase 2B catalytic subunit gamma isoform-like (LOC100623062), transcript variant X2, mRNA
one	208223	RBX1	NM_014248	Homo sapiens ring-box 1, E3 ubiquitin protein ligase (RBX1), mRNA	Cytoplasm	enzyme	AK394487	Sus scrofa mRNA, clone: MLN010060E03, expressed in mesenteric lymph node
one	208233	HINT1	NM_005340	Homo sapiens histidine triad nucleotide binding protein 1 (HINT1), transcript variant 1, mRNA	Nucleus	enzyme	XM_005661623	PREDICTED: Sus scrofa histidine triad nucleotide-binding protein 1-like (LOC100518898), mRNA

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one	208247	RPA2P1	NG_002610	Homo sapiens replication protein A2 pseudogene 1 (RPA2P1) on chromosome 14			NM_001244942	Sus scrofa replication protein A2, 32kDa (RPA2), mRNA
one	208319	CEP350	BC033619	Homo sapiens centrosomal protein 350kDa, mRNA (cDNA clone IMAGE:5108444), containing frame-shift errors	Cytoplasm	other	XM_005656746	PREDICTED: Sus scrofa centrosomal protein 350kDa (CEP350), mRNA
one	208442	LARP1B	XM_006714252	PREDICTED: Homo sapiens La ribonucleoprotein domain family, member 1B (LARP1B), transcript variant X20, mRNA	Extracellular Space	other	DQ837858	Sus scrofa clone UMNp1624 microsatellite sequence
one	208477		AC016910	Homo sapiens BAC clone RP11-460B1 from 2, complete sequence			XR_299983	PREDICTED: Sus scrofa uncharacterized LOC102159181 (LOC102159181), misc_RNA
one	208502	MSI1	XM_006719404	PREDICTED: Homo sapiens musashi RNA-binding protein 1 (MSI1), transcript variant X2, mRNA	Cytoplasm	other	FP236726	Pig DNA sequence from clone CH242-507J17 on chromosome X, complete sequence
one	208518	LRRC18	XM_006717867	PREDICTED: Homo sapiens leucine rich repeat containing 18 (LRRC18), transcript variant X5, mRNA	Cytoplasm	other	XM_005671211	PREDICTED: Sus scrofa leucine rich repeat containing 18 (LRRC18), transcript variant X3, mRNA
one	208524	ARMC2	XM_006715574	PREDICTED: Homo sapiens armadillo repeat containing 2 (ARMC2), transcript variant X6, mRNA	Extracellular Space	other	XM_005659378	PREDICTED: Sus scrofa armadillo repeat-containing protein 2-like (LOC102165487), mRNA
one	208533	NDUFAF6	XM_005250793	PREDICTED: Homo sapiens NADH dehydrogenase (ubiquinone) complex I, assembly factor 6 (NDUFAF6), transcript variant X6, mRNA	Cytoplasm	other	XM_001925041	PREDICTED: Sus scrofa NADH dehydrogenase (ubiquinone) complex I, assembly factor 6 (NDUFAF6), mRNA
one	208534	ELL2	BX538289	Homo sapiens mRNA; cDNA DKFZp779C185 (from clone DKFZp779C185)	Nucleus	transcription regulator	XM_003123796	PREDICTED: Sus scrofa elongation factor, RNA polymerase II, 2 (ELL2), transcript variant 1, mRNA
one	208546	IQCA1P1	AC010973	Homo sapiens BAC clone RP11-148K1 from chromosome 7, complete sequence			XM_005657707	PREDICTED: Sus scrofa IQ motif containing with AAA domain 1 pseudogene 1 (IQCA1P1), mRNA
one	208569	CCDC175	NM_001164399	Homo sapiens coiled-coil domain containing 175 (CCDC175), mRNA	Other	other	XR_297999	PREDICTED: Sus scrofa coiled-coil domain containing 175 (CCDC175), transcript variant X2, misc_RNA
one	208576		BX546490	Human DNA sequence from clone RP11-336F23 on chromosome 1, complete sequence			XR_297569	PREDICTED: Sus scrofa uncharacterized LOC102159540 (LOC102159540), transcript variant X5, misc_RNA
one	208582	UBE2R2	XM_005251496	PREDICTED: Homo sapiens ubiquitin-conjugating enzyme E2R 2 (UBE2R2), transcript variant X1, mRNA	Other	enzyme	XM_005668070	PREDICTED: Sus scrofa ubiquitin-conjugating enzyme E2R 2 (UBE2R2), mRNA
one	208585	FAM156B	FP885836	Human DNA sequence from clone RP11-1078F15 on chromosome X, complete sequence			XM_005673626	PREDICTED: Sus scrofa family with sequence similarity 156, member B (FAM156B), mRNA

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one	208602	OSGIN2	NM_001126111	Homo sapiens oxidative stress induced growth inhibitor family member 2 (OSGIN2), transcript variant 1, mRNA	Other	other	XM_005662982	PREDICTED: Sus scrofa oxidative stress induced growth inhibitor family member 2 (OSGIN2), transcript variant X2, mRNA
one	208618		HG502409	TPA: Homo sapiens MIR600HG gene for long non-coding RNA OTTHUMT00000053981.2, sense_intronic			AK344801	Sus scrofa mRNA, clone:HTMT10062D06, expressed in hypothalamus
one	208619		AC091814	Homo sapiens 12p BAC RP11-290C10 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_003355579	PREDICTED: Sus scrofa C-type lectin domain family 2 member E-like (LOC100623691), transcript variant X1, mRNA
one	208620	LPHN1	HG510389	TPA: Homo sapiens CTB-55O6.12 gene for long non-coding RNA OTTHUMT00000459719.1, antisense			XM_005661248	PREDICTED: Sus scrofa latrophilin 1 (LPHN1), mRNA
one	208622	PROK2	NG_008275	Homo sapiens prokineticin 2 (PROK2), RefSeqGene on chromosome 3	Extracellular Space	other	XM_005669727	PREDICTED: Sus scrofa prokineticin 2 (PROK2), mRNA
one	208628	IZUMO3	XM_005251332	PREDICTED: Homo sapiens IZUMO family member 3 (IZUMO3), transcript variant X1, mRNA	Other	other	XM_005660059	PREDICTED: Sus scrofa IZUMO family member 3 (IZUMO3), mRNA
one	208642	AKNAD1	NR_049760	Homo sapiens AKNA domain containing 1 (AKNAD1), transcript variant 2, long non-coding RNA	Cytoplasm	other	XM_005663608	PREDICTED: Sus scrofa AKNA domain containing 1 (AKNAD1), transcript variant X2, mRNA
one	208654	NOXRED1	XM_005267330	PREDICTED: Homo sapiens NADP-dependent oxidoreductase domain containing 1 (NOXRED1), transcript variant X1, mRNA	Other	other	XM_003356763	PREDICTED: Sus scrofa NADP-dependent oxidoreductase domain containing 1 (NOXRED1), mRNA
one	208656	C1orf141	BC047053	Homo sapiens chromosome 1 open reading frame 141, mRNA (cDNA clone IMAGE:5267678), complete cds	Other	other	FN677058	Sus scrofa BAC clone CHORI242_253K6_Contig62
one	208668	ZC2HC1B	NM_001013623	Homo sapiens zinc finger, C2HC-type containing 1B (ZC2HC1B), mRNA	Other	other	XM_005654378	PREDICTED: Sus scrofa zinc finger, C2HC-type containing 1B (ZC2HC1B), partial mRNA
one	208678	SPATA9	NM_031952	Homo sapiens spermatogenesis associated 9 (SPATA9), mRNA	Other	other	NM_001177924	Sus scrofa spermatogenesis associated 9 (SPATA9), mRNA
one	208686		AC087863	Homo sapiens 12q BAC RP11-357K6 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XR_307413	>gj 292485843 gb GU475001.1 Sus scrofa spermatogenesis associated 9 (SPATA9) mRNA, complete cds
one	208703	PPIL6	NM_001286360	Homo sapiens peptidylprolyl isomerase (cyclophilin)-like 6 (PPIL6), transcript variant 3, mRNA	Other	enzyme	XM_005659364	PREDICTED: Sus scrofa peptidylprolyl isomerase (cyclophilin)-like 6 (PPIL6), transcript variant X2, mRNA

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one	208709	BMP2K	XM_005263117	PREDICTED: Homo sapiens BMP2 inducible kinase (BMP2K), transcript variant X1, mRNA	Nucleus	kinase	XR_297526	PREDICTED: Sus scrofa progesterone and adipoQ receptor family member III (PAQR3), transcript variant X2, misc_RNA
one	208710		AC008372	Homo sapiens chromosome 14 clones RP11-111O16 and RP11-61F4 containing genes for nuclear receptor coactivator NCoA-62 (nuclear receptor coactivator NCoA-62) gene, complete cds; and unknown gene, complete sequence			XR_301025	PREDICTED: Sus scrofa uncharacterized LOC102159725 (LOC102159725), misc_RNA
one	208716	CCT5	HG497761	TPA: Homo sapiens CTD-2256P15.4 gene for long non-coding RNA OTTHUMT00000470527.1, antisense			NM_001278779	Sus scrofa chaperonin containing TCP1, subunit 5 (epsilon) (CCT5), mRNA >gi 404428587 gb JX316755.1 Sus scrofa T-complex protein 1 subunit epsilon (CCT5) mRNA, complete cds
one	208726	SPAG16	NR_047660	Homo sapiens sperm associated antigen 16 (SPAG16), transcript variant 4, non-coding RNA	Cytoplasm	other	XM_005672163	PREDICTED: Sus scrofa sperm associated antigen 16 (SPAG16), partial mRNA
one	208734	SIRPD	XM_005260662	PREDICTED: Homo sapiens signal-regulatory protein delta (SIRPD), transcript variant X1, mRNA	Other	other	XM_005672804	PREDICTED: Sus scrofa signal-regulatory protein beta-2-like (LOC102161773), transcript variant X3, mRNA
one	208740	SPEF2	BX648691	Homo sapiens mRNA; cDNA DKFZp686L2038 (from clone DKFZp686L2038)	Other	other	XM_005657603	PREDICTED: Sus scrofa sperm flagellar protein 2-like (LOC100739670), transcript variant X2, mRNA
one	208757	KDM2B	NG_033820	Homo sapiens lysine (K)-specific demethylase 2B (KDM2B), RefSeqGene on chromosome 12	Nucleus	other	XM_005672330	PREDICTED: Sus scrofa RNA binding motif protein 44 (RBM44), transcript variant X7, mRNA
one	208764	EFCAB3	NM_001144933	Homo sapiens EF-hand calcium binding domain 3 (EFCAB3), transcript variant 1, mRNA	Other	other	XM_005653899	PREDICTED: Sus scrofa EF-hand calcium-binding domain-containing protein 3-like (LOC100516460), transcript variant X3, mRNA
one	208780	POU4F1	AC240390	Homo sapiens FOSMID clone ABC16-1959N12 from chromosome 13, complete sequence			XM_005668479	PREDICTED: Sus scrofa POU class 4 homeobox 1 (POU4F1), mRNA
one	208786	TSPAN16	NM_001282509	Homo sapiens tetraspanin 16 (TSPAN16), transcript variant 2, mRNA	Other	other	XM_005654807	PREDICTED: Sus scrofa tetraspanin-16-like (LOC100519590), mRNA
one	208788	TSPAN8	AK313112	Homo sapiens cDNA, FLJ93597, Homo sapiens transmembrane 4 superfamily member 3 (TM4SF3), mRNA	Plasma Membrane	other	XM_005663981	PREDICTED: Sus scrofa tetraspanin 8 (TSPAN8), transcript variant X2, mRNA
one	208791	PANX1	XM_005273863	PREDICTED: Homo sapiens pannexin 1 (PANX1), transcript variant X2, mRNA	Plasma Membrane	transporter	XM_003482597	PREDICTED: Sus scrofa pannexin 1 (PANX1), mRNA

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one	208793	OR8B2	BK004204	TPA_inf: Homo sapiens olfactory receptor OR11-311 gene, complete cds	Plasma Membrane	G-protein coupled receptor	XM_003130012	PREDICTED: Sus scrofa olfactory receptor 8B3-like (LOC100519677), mRNA >gi 545849128 ref XM_003482635.2 PREDICTED: Sus scrofa olfactory receptor 8B3-like (LOC100738480), mRNA
one	208798		AL353801	Human DNA sequence from clone RP11-285G1 on chromosome 10, complete sequence			AK344634	Sus scrofa mRNA, clone:DCI010089F10, expressed in dendritic cells (immature)
one	208805	VASH2	XM_006711541	PREDICTED: Homo sapiens vasohibin 2 (VASH2), transcript variant X4, mRNA	Cytoplasm	other	XM_003357590	PREDICTED: Sus scrofa vasohibin 2 (VASH2), transcript variant 3, mRNA
one	208812	SPAG6	XM_005252645	PREDICTED: Homo sapiens sperm associated antigen 6 (SPAG6), transcript variant X1, mRNA	Cytoplasm	other	XM_005668149	PREDICTED: Sus scrofa sperm associated antigen 6 (SPAG6), transcript variant X1, mRNA
one	208818	CLMP	NM_024769	Homo sapiens CXADR-like membrane protein (CLMP), mRNA	Plasma Membrane	other	XM_003129979	PREDICTED: Sus scrofa CXADR-like membrane protein (CLMP), partial mRNA
one	208821	SHCBP1L	HQ258630	Synthetic construct Homo sapiens clone IMAGE:100073185 chromosome 1 open reading frame 14 (C1orf14) (C1orf14) gene, encodes complete protein	Other	other	XM_003360614	PREDICTED: Sus scrofa SHC SH2-domain binding protein 1-like (SHCBP1L), mRNA
one	208827		AC004560	Homo sapiens chromosome 19, cosmid R30676, complete sequence			XM_005652489	PREDICTED: Sus scrofa proline-, glutamic acid- and leucine-rich protein 1-like (LOC100521600), transcript variant X7, mRNA
one	208829	HTR1A	AC122707	Homo sapiens chromosome 5 clone RP11-158J3, complete sequence	Plasma Membrane	G-protein coupled receptor	XM_003129222	PREDICTED: Sus scrofa PR domain containing 5 (PRDM5), mRNA
one	208832	CEP55	XM_006717909	PREDICTED: Homo sapiens centrosomal protein 55kDa (CEP55), transcript variant X1, mRNA	Cytoplasm	other	XM_001928351	PREDICTED: Sus scrofa centrosomal protein 55kDa (CEP55), transcript variant X1, mRNA
one	208848		AP001719	Homo sapiens genomic DNA, chromosome 21q, section 63/105			XR_307607	PREDICTED: Sus scrofa uncharacterized LOC102165331 (LOC102165331), transcript variant X2, misc_RNA
one	208859		AL031276	Human DNA sequence from clone RP5-1118D24 on chromosome 1p36.11-36.33, complete sequence			FP236641	Pig DNA sequence from clone CH242-427J19 on chromosome X, complete sequence
one	208860	TP53RK	BC066309	Homo sapiens TP53 regulating kinase, mRNA (cDNA clone MGC:87135 IMAGE:5277911), complete cds	Nucleus	kinase	XM_003134484	PREDICTED: Sus scrofa TP53-regulating kinase-like (LOC100519282), mRNA

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one	208873	UBE2J1	NM_016021	Homo sapiens ubiquitin-conjugating enzyme E2, J1 (UBE2J1), mRNA	Cytoplasm	enzyme	XM_005659296	PREDICTED: Sus scrofa ubiquitin-conjugating enzyme E2, J1 (UBE2J1), transcript variant X2, mRNA
one	208883	STARD6	BC140308	Synthetic construct Homo sapiens clone IMAGE:100014341, MGC:173208 StAR-related lipid transfer (START) domain containing 6 (STARD6) mRNA, encodes complete protein	Other	transporter	XM_005659478	PREDICTED: Sus scrofa StAR-related lipid transfer (START) domain containing 6 (STARD6), transcript variant X6, mRNA
one	208989	IER5	NM_016545	Homo sapiens immediate early response 5 (IER5), mRNA	Other	other	NM_001258436	Sus scrofa immediate early response 5 (IER5), mRNA
one	208992	TXNDC17	FM206294	Cloning vector pchIHGHG1			XM_003131877	PREDICTED: Sus scrofa thioredoxin domain containing 17 (TXNDC17), transcript variant 1, mRNA
one	209062	CD28	XM_006712862	PREDICTED: Homo sapiens CD28 molecule (CD28), transcript variant X1, mRNA	Plasma Membrane	transmembrane receptor	CU582930	Pig DNA sequence from clone CH242-51J22 on chromosome 2, complete sequence
one	209064	G3BP1	XM_006714750	PREDICTED: Homo sapiens GTPase activating protein (SH3 domain) binding protein 1 (G3BP1), transcript variant X2, mRNA	Nucleus	enzyme	NM_001038000	Sus scrofa FKBP1A-like (LOC654323), mRNA >gi 61098746 gb AY820760.1 Sus scrofa FKBP1A-like mRNA, complete cds
one	209067	EMB	NM_198449	Homo sapiens embigin (EMB), mRNA	Plasma Membrane	other	XM_003359772	PREDICTED: Sus scrofa embigin-like (LOC100622067), mRNA
one	209096	KMT2E	NG_033949	Homo sapiens lysine (K)-specific methyltransferase 2E (KMT2E), RefSeqGene on chromosome 7			CU468368	Pig DNA sequence from clone CH242-64G23 on chromosome X, complete sequence
one	209105	CDK1	XM_006718083	PREDICTED: Homo sapiens cyclin-dependent kinase 1 (CDK1), transcript variant X3, mRNA	Nucleus	kinase	XM_005671018	PREDICTED: Sus scrofa cyclin-dependent kinase 1 (CDK1), transcript variant X6, mRNA
one	209116	UQCRC2	BC000484	Homo sapiens ubiquinol-cytochrome c reductase core protein II, mRNA (cDNA clone MGC:8349 IMAGE:2819755), complete cds	Cytoplasm	enzyme	XM_003124555	PREDICTED: Sus scrofa cytochrome b-c1 complex subunit 2, mitochondrial-like (LOC100524613), mRNA
one	209147	KDSR	AK025120	Homo sapiens cDNA: FLJ21467 fis, clone COL04847, highly similar to HSFVT1A Homo sapiens fvt1 mRNA	Plasma Membrane	enzyme	XM_005654479	PREDICTED: Sus scrofa 3-ketodihydrosphingosine reductase (KDSR), transcript variant X2, mRNA
one	209169		AL354798	Human DNA sequence from clone RP11-756A22 on chromosome 13, complete sequence			CU914663	Pig DNA sequence from clone CH242-31B7 on chromosome X, complete sequence
one	209177		AC242246	Homo sapiens FOSMID clone ABC12-49211800H9 from chromosome 9, complete sequence			XR_297803	PREDICTED: Sus scrofa uncharacterized LOC100627387 (LOC100627387), transcript variant X3, misc_RNA
one	209199	RAD51AP1	AC011597	Homo sapiens 3 BAC RP11-85F14 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_005655704	PREDICTED: Sus scrofa RAD51 associated protein 1 (RAD51AP1), transcript variant X3, mRNA

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one	209290	RFX3	XM_006716847	PREDICTED: Homo sapiens regulatory factor X, 3 (influences HLA class II expression) (RFX3), transcript variant X9, mRNA	Nucleus	transcription regulator	CU468460	Pig DNA sequence from clone CH242-208A20 on chromosome X, complete sequence
one	209304	PALLD	XM_005262865	PREDICTED: Homo sapiens palladin, cytoskeletal associated protein (PALLD), transcript variant X5, mRNA	Plasma Membrane	other	XM_005657285	PREDICTED: Sus scrofa palladin, cytoskeletal associated protein (PALLD), mRNA
one	209327		FM206294	Cloning vector pchilGHG1			NM_001038000	Sus scrofa FKBP1A-like (LOC654323), mRNA >gi 61098746 gb AY820760.1 Sus scrofa FKBP1A-like mRNA, complete cds
one	209353	MAK16	AL162400	Human DNA sequence from clone RP11-5P4 on chromosome 1p31.3-32.3, complete sequence			NM_001243808	Sus scrofa MAK16 homolog (S. cerevisiae) (MAK16), mRNA
one	209375	NEK10	XM_006713001	PREDICTED: Homo sapiens NIMA-related kinase 10 (NEK10), transcript variant X9, mRNA	Other	kinase	XM_003358347	PREDICTED: Sus scrofa NIMA-related kinase 10 (NEK10), mRNA
one	209399	ANKRD42	EF041819	Homo sapiens several ankyrin repeat protein transcript variant 2 mRNA, partial cds, alternatively spliced	Nucleus	transcription regulator	XM_005667185	PREDICTED: Sus scrofa ankyrin repeat domain 42 (ANKRD42), transcript variant X5, mRNA
one	209422	CCDC67	XM_005273802	PREDICTED: Homo sapiens coiled-coil domain containing 67 (CCDC67), transcript variant X1, mRNA	Other	other	XM_005667229	PREDICTED: Sus scrofa coiled-coil domain containing 67 (CCDC67), transcript variant X4, mRNA
one	209428	CCDC82	XM_006718912	PREDICTED: Homo sapiens coiled-coil domain containing 82 (CCDC82), transcript variant X6, mRNA	Other	other	XM_005667265	PREDICTED: Sus scrofa coiled-coil domain containing 82 (CCDC82), transcript variant X2, mRNA
one	209541	CLEC3A	NM_005752	Homo sapiens C-type lectin domain family 3, member A (CLEC3A), transcript variant 1, mRNA	Other	other	CU928893	Pig DNA sequence from clone CH242-218J4 on chromosome X, complete sequence
one	209544	KCNC1	AC124056	Homo sapiens chromosome 11, clone RP5-1082L12, complete sequence	Plasma Membrane	ion channel	XM_005668319	PREDICTED: Sus scrofa high mobility group box 1 (HMGB1), transcript variant X4, mRNA
one	209545	NOXRED1	AC007954	Homo sapiens chromosome 14 clone RP11-493G17 and CTD-2516D11 map 14q24.3, complete sequence			XM_003356763	PREDICTED: Sus scrofa NADP-dependent oxidoreductase domain containing 1 (NOXRED1), mRNA
one	209550	DTWD1	AK290184	Homo sapiens cDNA FLJ75615 complete cds, highly similar to Homo sapiens DTW domain containing 1 (DTWD1), mRNA	Other	other	XM_005659625	PREDICTED: Sus scrofa DTW domain containing 1 (DTWD1), transcript variant X4, mRNA
one	209594	SEC23IP	AC073655	Homo sapiens 12 BAC RP11-1105G2 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_005671508	PREDICTED: Sus scrofa SEC23 interacting protein (SEC23IP), mRNA
one	209691	PPCDC	XM_006720631	PREDICTED: Homo sapiens phosphopantothienoylcysteine decarboxylase (PPCDC), transcript variant X3, mRNA	Cytoplasm	enzyme	AK237382	Sus scrofa mRNA, clone:SPL010033D03, expressed in spleen

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one	209839	MYO5B	NG_012925	Homo sapiens myosin VB (MYO5B), RefSeqGene on chromosome 18	Cytoplasm	enzyme	CU915482	Pig DNA sequence from clone CH242-326N4 on chromosome X, complete sequence
one	210029	LPA	NM_005577	Homo sapiens lipoprotein, Lp(a) (LPA), mRNA	Extracellular Space	other	XM_005659111	PREDICTED: Sus scrofa plasminogen (PLG), transcript variant X1, mRNA
one	210053	IL10RA	XM_006718833	PREDICTED: Homo sapiens interleukin 10 receptor, alpha (IL10RA), transcript variant X1, mRNA	Plasma Membrane	transmembrane receptor	XM_003129890	PREDICTED: Sus scrofa interleukin 10 receptor, alpha (IL10RA), transcript variant X1, mRNA
one	210120	PCBD1	BC006324	Homo sapiens pterin-4 alpha-carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha, mRNA (cDNA clone MGC:12706 IMAGE:4138350), complete cds	Nucleus	transcription regulator	NM_001190219	Sus scrofa pterin-4 alpha-carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (PCBD1), mRNA
one	210154	ACOT8	NM_005469	Homo sapiens acyl-CoA thioesterase 8 (ACOT8), mRNA	Cytoplasm	enzyme	AK398298	Sus scrofa mRNA, clone: TES010101C08, expressed in testis
one	210181	GLI1	AF316573	Homo sapiens GLI1 gene, exons 2-12 and complete cds	Nucleus	transcription regulator	NM_001256593	Sus scrofa GLI family zinc finger 1 (GLI1), mRNA >gi 374286828 gb JQ246507.1 Sus scrofa zinc finger protein GLI1 (ATH1) mRNA, complete cds
one	210252	SARDH	XM_006716991	PREDICTED: Homo sapiens sarcosine dehydrogenase (SARDH), transcript variant X3, mRNA	Cytoplasm	enzyme	XM_005654605	PREDICTED: Sus scrofa sarcosine dehydrogenase (SARDH), transcript variant X3, mRNA
one	210323	SLA-2	FM206294	Cloning vector pchilGHG1			FJ905831	Sus scrofa MHC class I antigen (SLA-2) gene, complete sequence
one	210350		AL451136	Human DNA sequence from clone RP11-291L19 on chromosome 1, complete sequence			AK231482	Sus scrofa mRNA, clone:ITT010078E08, expressed in intestine
one	210358	MST1	XR_427274	PREDICTED: Homo sapiens macrophage stimulating 1 (hepatocyte growth factor-like) (MST1), transcript variant X10, misc_RNA	Extracellular Space	growth factor	XM_005674278	PREDICTED: Sus scrofa hepatocyte growth factor-like protein-like (LOC100626310), mRNA
one	210367	LONRF3	NM_001289109	Homo sapiens LON peptidase N-terminal domain and ring finger 3 (LONRF3), transcript variant 3, mRNA	Other	other	XM_003360432	PREDICTED: Sus scrofa LON peptidase N-terminal domain and ring finger 3 (LONRF3), transcript variant 2, mRNA
one	210546		AL392003	Human DNA sequence from clone RP11-331H2 on chromosome 1, complete sequence			XM_005657177	PREDICTED: Sus scrofa integrin, beta 2 (complement component 3 receptor 3 and 4 subunit) (ITGB2), transcript variant X1, mRNA
one	210556	FUBP3	XM_006717314	PREDICTED: Homo sapiens far upstream element (FUSE) binding protein 3 (FUBP3), transcript variant X4, mRNA	Nucleus	transcription regulator	XM_005660522	PREDICTED: Sus scrofa far upstream element (FUSE) binding protein 3 (FUBP3), transcript variant X4, mRNA

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one	210626	DYNLL1	NM_001037495	Homo sapiens dynein, light chain, LC8-type 1 (DYNLL1), transcript variant 2, mRNA	Cytoplasm	other	XM_005670707	PREDICTED: Sus scrofa dynein, light chain, LC8-type 1 (DYNLL1), transcript variant X1, mRNA
one	210634	OXLD1	BC038412	Homo sapiens chromosome 17 open reading frame 90, mRNA (cDNA clone IMAGE:5169121), with apparent retained intron	Cytoplasm	other	XM_005659057	PREDICTED: Sus scrofa uncharacterized LOC100626340 (LOC100626340), mRNA
one	210647		AY510106	Homo sapiens 2G9 monoclonal IgM antibody light chain mRNA, complete cds			AK391095	Sus scrofa mRNA, clone: CLNT10063E02, expressed in colon
one	210698	TGOLN2	NM_001206841	Homo sapiens trans-golgi network protein 2 (TGOLN2), transcript variant 3, mRNA	Cytoplasm	other	XR_298231	PREDICTED: Sus scrofa uncharacterized LOC100519476 (LOC100519476), misc_RNA
one	210700	HAGH	NM_001286249	Homo sapiens hydroxyacylglutathione hydrolase (HAGH), transcript variant 3, mRNA	Cytoplasm	enzyme	AK345979	Sus scrofa mRNA, clone:LVR010090C02, expressed in liver
one	210719	SMAP2	XM_005271120	PREDICTED: Homo sapiens small ArfGAP2 (SMAP2), transcript variant X2, mRNA	Other	other	NM_001128464	Sus scrofa small ArfGAP2 (SMAP2), mRNA >gi 183223972 dbj AB364501.1 Sus scrofa SMAP1L mRNA for stromal membrane-associated protein 1-like, complete cds
one	210735		L24494	Human antigen CD27 gene, exons 4-6			AK399094	Sus scrofa mRNA, clone: PBL010060G02, expressed in peripheral blood lymphocytes
one	210736	TSHZ3	NM_020856	Homo sapiens teashirt zinc finger homeobox 3 (TSHZ3), mRNA	Nucleus	transcription regulator	XM_005655801	PREDICTED: Sus scrofa teashirt zinc finger homeobox 3 (TSHZ3), mRNA
one	210767		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CU207339	Pig DNA sequence from clone CH242-223P6 on chromosome X, complete sequence
one	210797	GOT2	AL391419	Human DNA sequence from clone RP11-5415 on chromosome X, complete sequence			NM_213928	Sus scrofa glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2) (GOT2), mRNA >gi 164375 gb M11732.1 PIGASPAT Pig mitochondrial aspartate aminotransferase mRNA, complete cds
one	210813	HECTD3	NG_033058	Homo sapiens HECT domain containing E3 ubiquitin protein ligase 3 (HECTD3), RefSeqGene on chromosome 1			XM_005665478	PREDICTED: Sus scrofa HECT domain containing E3 ubiquitin protein ligase 3 (HECTD3), mRNA
one	210841	C3orf72	NG_029796	Homo sapiens chromosome 3 open reading frame 72 (C3orf72), RefSeqGene on chromosome 3			AK348423	Sus scrofa mRNA, clone:OVRM10160C02, expressed in ovary

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one	210853	OAZ3	NM_001134939	Homo sapiens ornithine decarboxylase antizyme 3 (OAZ3), transcript variant 2, mRNA	Cytoplasm	other	NM_001122996	Sus scrofa ornithine decarboxylase antizyme 3 (OAZ3), mRNA >gi 171188383 gb EU545197.1 Sus scrofa ornithine decarboxylase antizyme 3 (OAZ3) mRNA, complete cds
one	210884	SCUBE1	AL450333	Human DNA sequence from clone RP11-2506 on chromosome 6, complete sequence			XM_003125983	PREDICTED: Sus scrofa signal peptide, CUB domain, EGF-like 1 (SCUBE1), partial mRNA
one	210941	C3AR1	AY455929	Homo sapiens complement component 3a receptor 1 (C3AR1) gene, complete cds	Plasma Membrane	G-protein coupled receptor	AK391472	Sus scrofa mRNA, clone: DCI010085H01, expressed in dendritic cells (immature)
one	211033	SH3D21	NM_001162530	Homo sapiens SH3 domain containing 21 (SH3D21), transcript variant 1, mRNA	Other	other	AK350127	Sus scrofa mRNA, clone:SMG010093D11, expressed in submaxillary gland
one	211084	KLHDC8B	XM_005264940	PREDICTED: Homo sapiens kelch domain containing 8B (KLHDC8B), transcript variant X3, mRNA	Cytoplasm	other	XM_005669537	PREDICTED: Sus scrofa kelch domain containing 8B (KLHDC8B), transcript variant X2, mRNA
one	211101	FAM173A	NM_023933	Homo sapiens family with sequence similarity 173, member A (FAM173A), transcript variant 1, mRNA	Other	other	XM_003124705	PREDICTED: Sus scrofa family with sequence similarity 173, member A (FAM173A), mRNA
one	211247	SCAMP3	NM_005698	Homo sapiens secretory carrier membrane protein 3 (SCAMP3), transcript variant 1, mRNA	Cytoplasm	transporter	AK236431	Sus scrofa mRNA, clone:OVRM10192C01, expressed in ovary
one	211287	NEK11	NG_029225	Homo sapiens NIMA-related kinase 11 (NEK11), RefSeqGene on chromosome 3	Nucleus	kinase	CT868688	Pig DNA sequence from clone CH242-510G16 on chromosome 7, complete sequence
one	211355		AC026333	Homo sapiens 12 BAC RP11-324E6 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_003356031	PREDICTED: Sus scrofa sialic acid-binding Ig-like lectin 5-like (LOC100515383), mRNA
one	211367		NG_029492	Homo sapiens collagen, type IV, alpha 3 (Goodpasture antigen) binding protein (COL4A3BP), RefSeqGene on chromosome 5			AK389702	Sus scrofa mRNA, clone: AMP010044C10, expressed in alveolar macrophage
one	211444	CLIC5	NG_031965	Homo sapiens chloride intracellular channel 5 (CLIC5), RefSeqGene on chromosome 6	Cytoplasm	ion channel	CR974564	Pig DNA sequence from clone CH242-208O15 on chromosome 7, complete sequence
one	211473	LDOC1	NM_012317	Homo sapiens leucine zipper, down-regulated in cancer 1 (LDOC1), mRNA	Nucleus	other	XM_005673943	PREDICTED: Sus scrofa protein LDOC1-like (LOC100525445), mRNA
one	211524	GABPA	EU627790	Homo sapiens GA binding protein transcription factor, alpha subunit 60kDa (GABPA) gene, complete cds	Nucleus	transcription regulator	XM_005674618	PREDICTED: Sus scrofa GA binding protein transcription factor, alpha subunit 60kDa (GABPA), mRNA
one	211546	C1orf61	AK124566	Homo sapiens cDNA FLJ42575 fis, clone BRACE3008237	Cytoplasm	other	CU469041	Pig DNA sequence from clone CH242-483E7 on chromosome 4, complete sequence

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one	211552	SCN9A	FM206294	Cloning vector pchilGHG1			XM_003133452	PREDICTED: Sus scrofa sodium channel, voltage-gated, type IX, alpha subunit (SCN9A), mRNA
one	211582	CHKB-CPT1B	NR_027928	Homo sapiens CHKB-CPT1B readthrough (NMD candidate) (CHKB-CPT1B), long non-coding RNA	Other	other	AK397012	Sus scrofa mRNA, clone: PTG010053B12, expressed in pituitary gland
one	211642	FBXO16	NM_172366	Homo sapiens F-box protein 16 (FBXO16), transcript variant 1, mRNA	Other	other	XM_001928776	PREDICTED: Sus scrofa F-box protein 16 (FBXO16), transcript variant X1, mRNA
one	211649	ARMC8	XM_006713566	PREDICTED: Homo sapiens armadillo repeat containing 8 (ARMC8), transcript variant X3, mRNA	Other	other	XM_005669874	PREDICTED: Sus scrofa armadillo repeat containing 8 (ARMC8), transcript variant X2, mRNA
one	211666	SPINK1	XM_005268501	PREDICTED: Homo sapiens serine peptidase inhibitor, Kazal type 1 (SPINK1), transcript variant X1, mRNA	Extracellular Space	other	XM_003354346	PREDICTED: Sus scrofa serine peptidase inhibitor, Kazal type 1 (SPINK1), transcript variant X1, mRNA
one	211672	HYAL1	NR_047690	Homo sapiens hyaluronoglucosaminidase 1 (HYAL1), transcript variant 1, non-coding RNA	Cytoplasm	enzyme	NM_214441	Sus scrofa hyaluronoglucosaminidase 1 (HYAL1), mRNA >gi 40795809 gb AY497543.1 Sus scrofa hyaluronoglucosaminidase 1 mRNA, complete cds
one	211682	DKC1	NR_110023	Homo sapiens dyskeratosis congenita 1, dyskerin (DKC1), transcript variant 6, long non-coding RNA	Nucleus	enzyme	NM_001142668	Sus scrofa dyskeratosis congenita 1, dyskerin (DKC1), mRNA >gi 213688832 gb FJ236702.1 Sus scrofa dyskeratosis congenita 1 (DKC1) mRNA, complete cds
one	211692	GTF3C4	AB072895	Homo sapiens primary neuroblastoma cDNA, clone:Nbla10797			XM_001929441	PREDICTED: Sus scrofa general transcription factor IIIC, polypeptide 4, 90kDa (GTF3C4), mRNA
one	211792	WBP4	XM_005266245	PREDICTED: Homo sapiens WW domain binding protein 4 (WBP4), transcript variant X1, mRNA	Cytoplasm	other	AY609850	Sus scrofa clone Clu_3547.scr.msk.p1.Contig4, mRNA sequence
one	211793	RSG1	HQ447419	Synthetic construct Homo sapiens clone IMAGE:100070742; CCSB004429_01 chromosome 1 open reading frame 89 (C1orf89) gene, encodes complete protein	Cytoplasm	other	XM_005665040	PREDICTED: Sus scrofa REM2 and RAB-like small GTPase 1 (RSG1), transcript variant X4, mRNA
one	211830		AL365502	Human DNA sequence from clone RP11-48C7 on chromosome 9q34.2-34.3, complete sequence			AK390103	Sus scrofa mRNA, clone: BFLT10027A08, expressed in brain (frontal lobe)
one	211875	RXRB	NG_023374	Homo sapiens retinoid X receptor, beta (RXRB), RefSeqGene on chromosome 6			BX640585	Pig DNA sequence from clone PigI-279G2 on chromosome 7, complete sequence

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one	211877	ST6GALNAC2	XM_005256954	PREDICTED: Homo sapiens ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 2 (ST6GALNAC2), transcript variant X1, mRNA	Cytoplasm	enzyme	FP009759	Pig DNA sequence from clone CH242-6N4 on chromosome 12, complete sequence
one	211935	RTP1	AC241880	Homo sapiens FOSMID clone ABC14-1087522G24 from chromosome 3, complete sequence			XM_001927024	PREDICTED: Sus scrofa receptor (chemosensory) transporter protein 1 (RTP1), mRNA
one	211965	MAPK8IP2	NM_012324	Homo sapiens mitogen-activated protein kinase 8 interacting protein 2 (MAPK8IP2), mRNA	Cytoplasm	other	CU463288	Pig DNA sequence from clone CH242-205B13 on chromosome 18, complete sequence
one	212019	ITGAE	NM_002208	Homo sapiens integrin, alpha E (antigen CD103, human mucosal lymphocyte antigen 1; alpha polypeptide) (ITGAE), mRNA	Plasma Membrane	other	XR_306594	PREDICTED: Sus scrofa uncharacterized LOC102167560 (LOC102167560), misc_RNA
one	212028	RPS3A	NM_001006	Homo sapiens ribosomal protein S3A (RPS3A), transcript variant 1, mRNA	Nucleus	other	AK398969	Sus scrofa mRNA, clone: MLN010015D06, expressed in mesenteric lymph node
one	212130	SERPINC1	NG_012462	Homo sapiens serpin peptidase inhibitor, clade C (antithrombin), member 1 (SERPINC1), RefSeqGene on chromosome 1	Extracellular Space	enzyme	GQ231321	Sus scrofa sTF36235 noncoding RNA, complete sequence
one	212165		HG508875	TPA: Homo sapiens RP11-20B24.4 gene for long non-coding RNA OTTHUMT00000446814.1, antisense			XR_306461	PREDICTED: Sus scrofa uncharacterized LOC102164246 (LOC102164246), transcript variant X2, misc_RNA
one	212234	ITSN2	NM_147152	Homo sapiens intersectin 2 (ITSN2), transcript variant 2, mRNA	Cytoplasm	other	XM_005662705	PREDICTED: Sus scrofa intersectin 2 (ITSN2), mRNA
one	212245	DPYSL2	NG_030020	Homo sapiens dihydropyrimidinase-like 2 (DPYSL2), RefSeqGene on chromosome 8			XM_005673191	PREDICTED: Sus scrofa leucine rich repeat containing 4 (LRR4), mRNA
one	212255	ST8SIA1	NM_003034	Homo sapiens ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1 (ST8SIA1), mRNA	Cytoplasm	enzyme	CU466532	Pig DNA sequence from clone CH242-163K12 on chromosome 2, complete sequence
one	212281	IFT140	XM_006720992	PREDICTED: Homo sapiens intraflagellar transport 140 homolog (Chlamydomonas) (IFT140), transcript variant X7, mRNA	Extracellular Space	other	XM_003124715	PREDICTED: Sus scrofa intraflagellar transport 140 homolog (Chlamydomonas) (IFT140), mRNA
one	212326	KLHL25	XM_006720635	PREDICTED: Homo sapiens kelch-like family member 25 (KLHL25), transcript variant X1, mRNA	Cytoplasm	other	XM_005666301	PREDICTED: Sus scrofa kelch-like family member 25 (KLHL25), transcript variant X3, mRNA
one	212351	PATZ1	AK123441	Homo sapiens cDNA FLJ41447 fis, clone BRSTN2004869	Nucleus	transcription regulator	XM_001927006	PREDICTED: Sus scrofa POZ (BTB) and AT hook containing zinc finger 1 (PATZ1), transcript variant 2, mRNA

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one	212355	PCBP1	NG_029956	Homo sapiens poly(rC) binding protein 1 (PCBP1), RefSeqGene on chromosome 2	Nucleus	translation regulator	XM_005662491	PREDICTED: Sus scrofa poly(rC) binding protein 1 (PCBP1), transcript variant X2, mRNA
one	212374		FM206294	Cloning vector pchlGHG1			AB206692	Sus scrofa DNA, microsatellite locus MM70
one	212382	IGBP1	XR_430521	PREDICTED: Homo sapiens immunoglobulin (CD79A) binding protein 1 (IGBP1), transcript variant X1, misc_RNA	Cytoplasm	phosphatase	CU487220	Pig DNA sequence from clone CH242-264C4 on chromosome X, complete sequence
one	212392	MIAT	HG512151	TPA: Homo sapiens MIAT gene for long non-coding RNA OTTHUMT00000320797.2, lincRNA	Other	other	CT737259	Pig DNA sequence from clone CH242-127E12 on chromosome 14, complete sequence
one	212439	BCL2	NG_009361	Homo sapiens B-cell CLL/lymphoma 2 (BCL2), RefSeqGene on chromosome 18	Cytoplasm	transporter	XM_003121700	PREDICTED: Sus scrofa B-cell CLL/lymphoma 2 (BCL2), mRNA
one	212443		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			FN673745	Sus scrofa BAC clone KNP_466E2
one	212454	DPYSL5	NM_001253724	Homo sapiens dihydropyrimidinase-like 5 (DPYSL5), transcript variant 3, mRNA	Cytoplasm	enzyme	XM_003125320	PREDICTED: Sus scrofa dihydropyrimidinase-like 5 (DPYSL5), mRNA
one	212482	TMUB2	AL833899	Homo sapiens mRNA; cDNA DKFZp566L1346 (from clone DKFZp566L1346)	Other	other	AK349123	Sus scrofa mRNA, clone:PTG010002H11, expressed in pituitary gland
one	212501	RAD50	NM_005732	Homo sapiens RAD50 homolog (S. cerevisiae) (RAD50), mRNA	Nucleus	enzyme	XR_301994	PREDICTED: Sus scrofa RAD50 homolog (S. cerevisiae) (RAD50), transcript variant X3, misc_RNA
one	212514	PGM3	XM_006715504	PREDICTED: Homo sapiens phosphoglucomutase 3 (PGM3), transcript variant X3, mRNA	Cytoplasm	enzyme	XM_003480305	PREDICTED: Sus scrofa dopey family member 1 (DOPEY1), transcript variant 2, mRNA
one	212548	LPCAT4	XR_243088	PREDICTED: Homo sapiens lysophosphatidylcholine acyltransferase 4 (LPCAT4), transcript variant X2, misc_RNA	Cytoplasm	enzyme	AK392796	Sus scrofa mRNA, clone: HTMT10100C08, expressed in hypothalamus
one	212597	C9orf114	AL110193	Homo sapiens mRNA; cDNA DKFZp566D143 (from clone DKFZp566D143)	Nucleus	other	XM_003122207	PREDICTED: Sus scrofa chromosome 1 open reading frame, human C9orf114 (C1H9orf114), transcript variant X1, mRNA
one	212616	KDELR2	NM_001100603	Homo sapiens KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 2 (KDELR2), transcript variant 2, mRNA	Cytoplasm	other	AK232801	Sus scrofa mRNA, clone:LVRM10029B04, expressed in liver
one	212686	CYB5R3	NM_001171661	Homo sapiens cytochrome b5 reductase 3 (CYB5R3), transcript variant 4, mRNA	Cytoplasm	enzyme	XM_003125982	PREDICTED: Sus scrofa NADH-cytochrome b5 reductase 3-like (LOC100524254), transcript variant X1, mRNA

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one	212717	ANKRD11	NG_032003	Homo sapiens ankyrin repeat domain 11 (ANKRD11), RefSeqGene on chromosome 16			DQ531631	Sus scrofa 3-hydroxy-3-methylglutaryl coenzyme A reductase (HMGR) gene, complete cds
one	212809	NCAPH2	NM_152299	Homo sapiens non-SMC condensin II complex, subunit H2 (NCAPH2), transcript variant 2, mRNA	Nucleus	other	XM_005653176	PREDICTED: Sus scrofa non-SMC condensin II complex, subunit H2 (NCAPH2), transcript variant X1, mRNA
one	212827	C6orf1	XM_005248923	PREDICTED: Homo sapiens chromosome 6 open reading frame 1 (C6orf1), transcript variant X1, mRNA	Other	other	NM_001190191	Sus scrofa uncharacterized LOC100156657 (LOC100156657), mRNA
one	212962		AC013442	Homo sapiens BAC clone RP11-387M19 from 2, complete sequence			AK393070	Sus scrofa mRNA, clone: ITT010087H08, expressed in intestine
one	213000	QSOX1	NM_002826	Homo sapiens quiescin Q6 sulfhydryl oxidase 1 (QSOX1), transcript variant 1, mRNA	Cytoplasm	enzyme	XM_003357558	PREDICTED: Sus scrofa quiescin Q6 sulfhydryl oxidase 1 (QSOX1), transcript variant 1, mRNA
one	213022	TPCN1	XM_005253906	PREDICTED: Homo sapiens two pore segment channel 1 (TPCN1), transcript variant X3, mRNA	Plasma Membrane	ion channel	XM_003483430	PREDICTED: Sus scrofa two pore segment channel 1 (TPCN1), mRNA
one	213030	LARP1	NM_015315	Homo sapiens La ribonucleoprotein domain family, member 1 (LARP1), mRNA	Cytoplasm	translation regulator	XM_005674548	PREDICTED: Sus scrofa La ribonucleoprotein domain family, member 1 (LARP1), mRNA
one	213045	MYO1C	XM_005256655	PREDICTED: Homo sapiens myosin IC (MYO1C), transcript variant X1, mRNA	Cytoplasm	other	XM_005657016	PREDICTED: Sus scrofa myosin IC (MYO1C), mRNA
one	213071	TNRC6B	NM_001162501	Homo sapiens trinucleotide repeat containing 6B (TNRC6B), transcript variant 1, mRNA	Other	other	L36913	Pig microsatellite DNA (CA repeat)
one	213108		AB527586	Synthetic construct DNA, clone: pF1KB6566, Homo sapiens KRT19 gene for keratin 19, without stop codon, in Flexi system			AK393898	Sus scrofa mRNA, clone: LNG010084A08, expressed in lung
one	213113	RNF41	XM_005268561	PREDICTED: Homo sapiens ring finger protein 41 (RNF41), transcript variant X1, mRNA	Cytoplasm	enzyme	XM_005655622	PREDICTED: Sus scrofa E3 ubiquitin-protein ligase NRDP1-like (LOC102162592), transcript variant X1, mRNA
one	213137	FAM135A	XM_005248744	PREDICTED: Homo sapiens family with sequence similarity 135, member A (FAM135A), transcript variant X2, mRNA	Other	enzyme	XM_005659249	PREDICTED: Sus scrofa family with sequence similarity 135, member A (FAM135A), transcript variant X4, mRNA
one	213155	AGO4	XM_005270579	PREDICTED: Homo sapiens argonaute RISC catalytic component 4 (AGO4), transcript variant X3, mRNA	Cytoplasm	translation regulator	AK391322	Sus scrofa mRNA, clone: DCI010041C04, expressed in dendritic cells (immature)
one	213156	TMEM144	XM_006714255	PREDICTED: Homo sapiens transmembrane protein 144 (TMEM144), transcript variant X5, mRNA	Other	other	XM_005666661	PREDICTED: Sus scrofa transmembrane protein 144 (TMEM144), transcript variant X4, mRNA

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one	213160	SLC25A40	XM_005250496	PREDICTED: Homo sapiens solute carrier family 25, member 40 (SLC25A40), transcript variant X1, mRNA	Cytoplasm	other	XM_003357479	PREDICTED: Sus scrofa solute carrier family 25, member 40 (SLC25A40), transcript variant X1, mRNA
one	213169	ZNF618	BC136287	Homo sapiens zinc finger protein 618, mRNA (cDNA clone MGC:167897 IMAGE:9020274), complete cds	Other	other	XM_005660362	PREDICTED: Sus scrofa zinc finger protein 618 (ZNF618), transcript variant X4, mRNA
one	213190		FM206294	Cloning vector pchilGHG1			AK235964	Sus scrofa mRNA, clone:OVRM10129F11, expressed in ovary
one	213195	ZNF259	AC226595	Homo sapiens FOSMID clone ABC10-44146700D8 from chromosome unknown, complete sequence			XM_003129875	PREDICTED: Sus scrofa zinc finger protein 259 (ZNF259), mRNA
one	213197	CALD1	BX648808	Homo sapiens mRNA; cDNA DKFZp686A06190 (from clone DKFZp686A06190)	Cytoplasm	other	XM_005673150	PREDICTED: Sus scrofa caldesmon 1 (CALD1), transcript variant X9, mRNA
one	213198	MRPL47	NM_177988	Homo sapiens mitochondrial ribosomal protein L47 (MRPL47), transcript variant 2, mRNA	Cytoplasm	other	XM_005670006	PREDICTED: Sus scrofa mitochondrial ribosomal protein L47 (MRPL47), transcript variant X2, mRNA
one	213209	KAZALD1	XM_005270194	PREDICTED: Homo sapiens Kazal-type serine peptidase inhibitor domain 1 (KAZALD1), transcript variant X2, mRNA	Extracellular Space	other	NM_001244551	Sus scrofa Kazal-type serine peptidase inhibitor domain 1 (KAZALD1), mRNA >gi 288781212 dbj AK350351.1 Sus scrofa mRNA, clone:SPL010043B12, expressed in spleen
one	213217	R3HDM2	XM_005268722	PREDICTED: Homo sapiens R3H domain containing 2 (R3HDM2), transcript variant X12, mRNA	Nucleus	other	XM_005663922	PREDICTED: Sus scrofa R3H domain-containing protein 2-like (LOC100628158), transcript variant X2, mRNA
one	213218	CDK17	XM_006719444	PREDICTED: Homo sapiens cyclin-dependent kinase 17 (CDK17), transcript variant X1, mRNA	Cytoplasm	kinase	XM_003355678	PREDICTED: Sus scrofa cyclin-dependent kinase 17 (CDK17), mRNA
one	213238	ABCB8	AC005343	Homo sapiens 12 BAC RP11-21K20 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_005657700	PREDICTED: Sus scrofa ATP-binding cassette, sub-family B (MDR/TAP), member 8 (ABCB8), transcript variant X3, mRNA
one	213288	BSCL2	NM_001130702	Homo sapiens Berardinelli-Seip congenital lipodystrophy 2 (seipin) (BSCL2), transcript variant 3, mRNA	Cytoplasm	other	AK398023	Sus scrofa mRNA, clone: TCH010065E08, expressed in trachea
one	213313	DHX30	NM_014966	Homo sapiens DEAH (Asp-Glu-Ala-His) box helicase 30 (DHX30), transcript variant 2, mRNA	Nucleus	enzyme	XM_005669485	PREDICTED: Sus scrofa DEAH (Asp-Glu-Ala-His) box helicase 30 (DHX30), transcript variant X4, mRNA
one	213353	NFKBIE	U91616	Human I kappa B epsilon (IkBe) mRNA, complete cds	Nucleus	transcription regulator	XM_005666068	PREDICTED: Sus scrofa nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon (NFKBIE), mRNA

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one	213382	SLC16A13	AC040977	Homo sapiens chromosome 17, clone RP11-589P10, complete sequence			XM_003131926	PREDICTED: Sus scrofa solute carrier family 16, member 13 (SLC16A13), mRNA
one	213409	C17orf53	XM_006722074	PREDICTED: Homo sapiens chromosome 17 open reading frame 53 (C17orf53), transcript variant X2, mRNA	Other	other	XM_005668777	PREDICTED: Sus scrofa chromosome 12 open reading frame, human C17orf53 (C12H17orf53), mRNA
one	213473	RHNO1	NM_001257098	Homo sapiens RAD9-HUS1-RAD1 interacting nuclear orphan 1 (RHNO1), transcript variant 5, mRNA	Nucleus	other	XM_005664087	PREDICTED: Sus scrofa RAD9-HUS1-RAD1 interacting nuclear orphan 1 (RHNO1), transcript variant X5, mRNA
one	213481	RAB4B-EGLN2	NR_037791	Homo sapiens RAB4B-EGLN2 readthrough (NMD candidate) (RAB4B-EGLN2), long non-coding RNA	Other	other	XM_005655853	PREDICTED: Sus scrofa egl-9 family hypoxia-inducible factor 2 (EGLN2), transcript variant X4, mRNA
one	213497	NDUFC1	NM_001184991	Homo sapiens NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 1, 6kDa (NDUFC1), transcript variant 7, mRNA	Cytoplasm	enzyme	NM_001097470	Sus scrofa NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 1, 6kDa (NDUFC1), mRNA
one	213507	NTF4	AC245081	Homo sapiens BAC clone CH17-343P10 from chromosome 19, complete sequence			NM_001243713	Sus scrofa neurotrophin 4 (NTF4), mRNA >gij288777878 dbjjAK347703.1 Sus scrofa mRNA, clone:OVR010077C10, expressed in ovary
one	213564	KAT6A	XM_005273649	PREDICTED: Homo sapiens K(lysine) acetyltransferase 6A (KAT6A), transcript variant X1, mRNA	Nucleus	enzyme	XM_005671119	PREDICTED: Sus scrofa K(lysine) acetyltransferase 6B (KAT6B), transcript variant X5, mRNA
one	213582	EHD2	AK316448	Homo sapiens cDNA, FLJ79347 complete cds, highly similar to EH-domain-containing protein 2	Nucleus	other	AK348647	Sus scrofa mRNA, clone:OVRM10222A04, expressed in ovary
one	213605	MARCH8	NM_001002266	Homo sapiens membrane-associated ring finger (C3HC4) 8, E3 ubiquitin protein ligase (MARCH8), transcript variant 3, mRNA	Cytoplasm	enzyme	AK393415	Sus scrofa mRNA, clone: KDN010051H10, expressed in kidney
one	213609	ITFG3	FM206294	Cloning vector pchilGHG1			XM_005655123	PREDICTED: Sus scrofa integrin alpha FG-GAP repeat containing 3 (ITFG3), transcript variant X8, mRNA
one	213652		AK298481	Homo sapiens cDNA FLJ59041 complete cds			XM_003133722	PREDICTED: Sus scrofa nucleolin-like (LOC100519984), mRNA
one	213730	ARPC4	NM_001198780	Homo sapiens actin related protein 2/3 complex, subunit 4, 20kDa (ARPC4), transcript variant 4, mRNA	Cytoplasm	other	AK392390	Sus scrofa mRNA, clone: HTMT10069H10, expressed in hypothalamus
one	213755	RPS6KA1	XM_005245967	PREDICTED: Homo sapiens ribosomal protein S6 kinase, 90kDa, polypeptide 1 (RPS6KA1), transcript variant X2, mRNA	Cytoplasm	kinase	AK350312	Sus scrofa mRNA, clone:SPL010031E07, expressed in spleen

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one	213786		AC113342	Homo sapiens chromosome 5 clone CTD-2344D1, complete sequence			CU638681	Pig DNA sequence from clone CH242-330113 on chromosome X, complete sequence
one	213788	EEF1G	AK300203	Homo sapiens cDNA FLJ56389 complete cds, highly similar to Elongation factor 1-gamma	Cytoplasm	translation regulator	XM_005660798	PREDICTED: Sus scrofa eukaryotic translation elongation factor 1 gamma (EEF1G), mRNA
one	213819	MPZL1	XM_006711614	PREDICTED: Homo sapiens myelin protein zero-like 1 (MPZL1), transcript variant X1, mRNA	Plasma Membrane	other	XM_005663141	PREDICTED: Sus scrofa myelin protein zero-like 1 (MPZL1), mRNA
one	213984	CACNB3	XM_006719591	PREDICTED: Homo sapiens calcium channel, voltage-dependent, beta 3 subunit (CACNB3), transcript variant X4, mRNA	Plasma Membrane	ion channel	XM_005655539	PREDICTED: Sus scrofa calcium channel, voltage-dependent, beta 3 subunit (CACNB3), mRNA
one	214043	MTHFR	XM_005263462	PREDICTED: Homo sapiens methylenetetrahydrofolate reductase (NAD(P)H) (MTHFR), transcript variant X5, mRNA	Cytoplasm	enzyme	AK349221	Sus scrofa mRNA, clone:PTG010025A10, expressed in pituitary gland
one	214185	C16orf62	XM_006721065	PREDICTED: Homo sapiens chromosome 16 open reading frame 62 (C16orf62), transcript variant X3, mRNA	Other	other	XM_005658391	PREDICTED: Sus scrofa uncharacterized LOC100622540 (LOC100622540), partial mRNA
one	214189	RPS16	BC071674	Homo sapiens ribosomal protein S16, mRNA (cDNA clone MGC:87876 IMAGE:5394209), complete cds	Cytoplasm	other	XM_003355904	PREDICTED: Sus scrofa 40S ribosomal protein S16-like (LOC100623279), transcript variant 1, mRNA
one	214236	IRX2	NM_001134222	Homo sapiens iroquois homeobox 2 (IRX2), transcript variant 2, mRNA	Nucleus	transcription regulator	XM_005674528	PREDICTED: Sus scrofa iroquois homeobox 2 (IRX2), mRNA
one	214256	MAP3K2	NM_006609	Homo sapiens mitogen-activated protein kinase kinase 2 (MAP3K2), mRNA	Cytoplasm	kinase	CR853303	Pig DNA sequence from clone PigE-173F2 on chromosome 6, complete sequence
one	214260	AKR1A1	NM_153326	Homo sapiens aldo-keto reductase family 1, member A1 (aldehyde reductase) (AKR1A1), transcript variant 2, mRNA	Cytoplasm	enzyme	AK390941	Sus scrofa mRNA, clone: CLNT10026D12, expressed in colon
one	214281	HK1	NG_012077	Homo sapiens hexokinase 1 (HK1), RefSeqGene (LRG_365) on chromosome 10			XM_005663926	PREDICTED: Sus scrofa R3H domain containing 2 (R3HDM2), partial mRNA
one	214295	SMEK2	XM_005264448	PREDICTED: Homo sapiens SMEK homolog 2, suppressor of mek1 (Dictyostelium) (SMEK2), transcript variant X7, mRNA	Nucleus	other	XR_308016	PREDICTED: Sus scrofa steroidogenic acute regulatory protein (STAR), transcript variant X2, misc_RNA
one	214319	CNOT6L	XM_005262877	PREDICTED: Homo sapiens CCR4-NOT transcription complex, subunit 6-like (CNOT6L), transcript variant X2, mRNA	Cytoplasm	enzyme	XM_005666787	PREDICTED: Sus scrofa CCR4-NOT transcription complex, subunit 6-like (CNOT6L), mRNA

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one	214366	DDX5	XR_429871	PREDICTED: Homo sapiens DEAD (Asp-Glu-Ala-Asp) box helicase 5 (DDX5), transcript variant X3, misc_RNA	Nucleus	enzyme	AK396121	Sus scrofa mRNA, clone: PBL010070H01, expressed in peripheral blood lymphocytes
one	214393	RAN	XM_005253592	PREDICTED: Homo sapiens RAN, member RAS oncogene family (RAN), transcript variant X1, mRNA	Nucleus	enzyme	XM_001925433	PREDICTED: Sus scrofa RAN, member RAS oncogene family (RAN), mRNA
one	214450	BRMS1L	XM_006720275	PREDICTED: Homo sapiens breast cancer metastasis-suppressor 1-like (BRMS1L), transcript variant X3, mRNA	Other	other	XM_001926256	PREDICTED: Sus scrofa breast cancer metastasis-suppressor 1-like (BRMS1L), mRNA
one	214466	PPFIBP1	XM_006719161	PREDICTED: Homo sapiens PTPRF interacting protein, binding protein 1 (liprin beta 1) (PPFIBP1), transcript variant X15, mRNA	Plasma Membrane	other	XM_005664027	PREDICTED: Sus scrofa PTPRF interacting protein, binding protein 1 (liprin beta 1) (PPFIBP1), transcript variant X5, mRNA
one	214492	RAB11A	NM_001206836	Homo sapiens RAB11A, member RAS oncogene family (RAB11A), transcript variant 2, mRNA	Cytoplasm	enzyme	AK391570	Sus scrofa mRNA, clone: HTMT10001H06, expressed in hypothalamus
one	214498	UBE2C	NR_104037	Homo sapiens ubiquitin-conjugating enzyme E2C (UBE2C), transcript variant 9, long non-coding RNA	Cytoplasm	enzyme	AK346942	Sus scrofa mRNA, clone:MLN010079C03, expressed in mesenteric lymph nodes
one	214524	ABHD11	XM_006716144	PREDICTED: Homo sapiens abhydrolase domain containing 11 (ABHD11), transcript variant X2, mRNA	Cytoplasm	enzyme	XM_005661983	PREDICTED: Sus scrofa abhydrolase domain containing 11 (ABHD11), transcript variant X4, mRNA
one	214545		FM206294	Cloning vector pchilGHG1			L36913	Pig microsatellite DNA (CA repeat)
one	214588	SPARCL1	NM_004684	Homo sapiens SPARC-like 1 (hevin) (SPARCL1), transcript variant 2, mRNA	Extracellular Space	other	XM_005667002	PREDICTED: Sus scrofa SPARC-like 1 (hevin) (SPARCL1), transcript variant X2, mRNA
one	214636	SRPK2	XM_005250551	PREDICTED: Homo sapiens SRSF protein kinase 2 (SRPK2), transcript variant X3, mRNA	Nucleus	kinase	CU407138	Pig DNA sequence from clone CH242-137P15 on chromosome 5, complete sequence
one	214683	XAB2	CU675558	Synthetic construct Homo sapiens gateway clone IMAGE:100020533 3' read XAB2 mRNA			XM_003123151	PREDICTED: Sus scrofa XPA binding protein 2 (XAB2), mRNA
one	214716	IFT172	NM_015662	Homo sapiens intraflagellar transport 172 homolog (Chlamydomonas) (IFT172), mRNA	Extracellular Space	other	XM_003354889	PREDICTED: Sus scrofa intraflagellar transport 172 homolog (Chlamydomonas) (IFT172), mRNA
one	214781	RPL22L1	XM_005247205	PREDICTED: Homo sapiens ribosomal protein L22-like 1 (RPL22L1), transcript variant X1, mRNA	Other	other	XR_131008	PREDICTED: Sus scrofa 60S ribosomal protein L22-like 1-like (LOC100627058), misc_RNA
one	214833	SLC36A1	AC011337	Homo sapiens chromosome 5 clone CTC-251D13, complete sequence			XM_003134140	PREDICTED: Sus scrofa solute carrier family 36 (proton/amino acid symporter), member 1 (SLC36A1), transcript variant X1, mRNA

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one	214847	EPHB6	XM_006715882	PREDICTED: Homo sapiens EPH receptor B6 (EPHB6), transcript variant X2, mRNA	Plasma Membrane	kinase	AB476300	Sus scrofa germline T-cell receptor beta VDJC region genes and EPHB6, TRPV6 genes, partial and complete cds, clone: L353E06
one	214882	ITSN2	NG_029516	Homo sapiens intersectin 2 (ITSN2), RefSeqGene on chromosome 2			CT737415	Pig DNA sequence from clone CH242-158E1 on chromosome 7, complete sequence
one	214918	S100A13	XM_005245434	PREDICTED: Homo sapiens S100 calcium binding protein A13 (S100A13), transcript variant X2, mRNA	Cytoplasm	other	XM_005663418	PREDICTED: Sus scrofa S100 calcium binding protein A13 (S100A13), mRNA
one	214932	UBLCP1	NM_145049	Homo sapiens ubiquitin-like domain containing CTD phosphatase 1 (UBLCP1), mRNA	Nucleus	phosphatase	XM_005672578	PREDICTED: Sus scrofa ubiquitin-like domain-containing CTD phosphatase 1-like (LOC100519748), transcript variant X2, mRNA
one	215041	HSD17B7	AJ250558	Homo sapiens partial HSD17B7 gene for 17beta hydroxysteroid dehydrogenase type 7, exon 9			AK235959	Sus scrofa mRNA, clone:OVRM10129A03, expressed in ovary
one	215130	VPS26A	NM_001035260	Homo sapiens vacuolar protein sorting 26 homolog A (S. pombe) (VPS26A), transcript variant 2, mRNA	Cytoplasm	transporter	XM_001925999	PREDICTED: Sus scrofa vacuolar protein sorting 26 homolog A (S. pombe) (VPS26A), transcript variant X1, mRNA
one	215153	MT3	NM_005954	Homo sapiens metallothionein 3 (MT3), mRNA	Cytoplasm	other	AK399923	Sus scrofa mRNA, clone: HTMT10074H11, expressed in hypothalamus
one	215154	USP28	EF445045	Homo sapiens ubiquitin carboxyl-terminal hydrolase 28 (USP28) gene, complete cds, alternatively spliced	Nucleus	peptidase	AK238930	Sus scrofa mRNA, clone:THY010048D06, expressed in thymus
one	215159	MSH6	XM_005264271	PREDICTED: Homo sapiens mutS homolog 6 (MSH6), transcript variant X1, mRNA	Nucleus	enzyme	XM_005662567	PREDICTED: Sus scrofa mutS homolog 6 (MSH6), transcript variant X3, mRNA
one	215221	SLC5A7	AC009963	Homo sapiens BAC clone RP11-368F12 from 2, complete sequence			XM_003124852	PREDICTED: Sus scrofa solute carrier family 5 (sodium/choline cotransporter), member 7 (SLC5A7), mRNA
one	215225	EFTUD1	AK300348	Homo sapiens cDNA FLJ61709 complete cds, highly similar to Homo sapiens elongation factor Tu GTP binding domain containing 1, transcript variant 1, mRNA	Cytoplasm	translation regulator	XM_005674240	PREDICTED: Sus scrofa elongation factor Tu GTP-binding domain-containing protein 1-like (LOC102165816), mRNA
one	215400	LPCAT2	FM206294	Cloning vector pchlGHG1			XM_005653254	PREDICTED: Sus scrofa lysophosphatidylcholine acyltransferase 2 (LPCAT2), transcript variant X2, mRNA

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one	215465	GNG13	FM206294	Cloning vector pchilGHG1			XM_003124710	PREDICTED: Sus scrofa guanine nucleotide binding protein (G protein), gamma 13 (GNG13), transcript variant X1, mRNA
one	215566	PPP4C	XM_006721061	PREDICTED: Homo sapiens protein phosphatase 4, catalytic subunit (PPP4C), transcript variant X5, mRNA	Cytoplasm	phosphatase	AK348548	Sus scrofa mRNA, clone:OVRM10200A11, expressed in ovary
one	215621	MTSS1L	XM_005256236	PREDICTED: Homo sapiens metastasis suppressor 1-like (MTSS1L), transcript variant X1, mRNA	Other	other	FP102441	Pig DNA sequence from clone CH242-257M5 on chromosome X, complete sequence
one	215715	MRPL41	NM_032477	Homo sapiens mitochondrial ribosomal protein L41 (MRPL41), mRNA	Cytoplasm	other	AK392804	Sus scrofa mRNA, clone: HTMT10100H02, expressed in hypothalamus
one	215812		AB384390	Synthetic construct DNA, clone: pF1KSDB0068, Homo sapiens KIF5A gene for kinesin family member 5A, complete cds, without stop codon, in Flexi system			XM_005663933	PREDICTED: Sus scrofa kinesin heavy chain isoform 5A-like (LOC102164153), mRNA
one	215832	HBQ1	NM_005331	Homo sapiens hemoglobin, theta 1 (HBQ1), mRNA	Other	other	XM_003481093	PREDICTED: Sus scrofa hemoglobin, theta 1 (HBQ1), mRNA
one	215855	MAP2K5	NM_001206804	Homo sapiens mitogen-activated protein kinase kinase 5 (MAP2K5), transcript variant 3, mRNA	Cytoplasm	kinase	AK349889	Sus scrofa mRNA, clone:SKNB10081D12, expressed in skin
one	215880	TCEB3	NM_003198	Homo sapiens transcription elongation factor B (SIII), polypeptide 3 (110kDa, elongin A) (TCEB3), mRNA	Nucleus	transcription regulator	XM_003356197	PREDICTED: Sus scrofa transcription elongation factor B (SIII), polypeptide 3 (110kDa, elongin A) (TCEB3), mRNA
one	215892	LARP6	NM_001286679	Homo sapiens La ribonucleoprotein domain family, member 6 (LARP6), transcript variant 3, mRNA	Other	other	AK398569	Sus scrofa mRNA, clone: UTR010017B07, expressed in uterus
one	215904	NSMCE1	XM_006721023	PREDICTED: Homo sapiens non-SMC element 1 homolog (<i>S. cerevisiae</i>) (NSMCE1), transcript variant X2, mRNA	Nucleus	transporter	AY609776	Sus scrofa clone Clu_30680.scr.msk.p1.Contig3, mRNA sequence
one	215905	GABRB2	NM_021911	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, beta 2 (GABRB2), transcript variant 1, mRNA	Plasma Membrane	ion channel	GU951771	Sus scrofa adenomatous polyposis coli (APC) gene, exons 13 through 17 and partial cds
one	215915		AC007606	Homo sapiens chromosome 16 clone RP11-35P16, complete sequence			XM_005671620	PREDICTED: Sus scrofa activated RNA polymerase II transcriptional coactivator p15-like (LOC100512195), mRNA
one	216159	SP110	NG_008295	Homo sapiens SP110 nuclear body protein (SP110), RefSeqGene (LRG_109) on chromosome 2	Nucleus	other	XM_005656675	PREDICTED: Sus scrofa Mdm4 p53 binding protein homolog (mouse) (MDM4), mRNA

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one	216185		AL353705	Human DNA sequence from clone RP11-336N8 on chromosome 9q21.11-21.31, complete sequence			XM_003132790	PREDICTED: Sus scrofa CDC28 protein kinase regulatory subunit 2 (CKS2), mRNA
one	216186	LY75	AB208915	Homo sapiens mRNA for lymphocyte antigen 75 variant protein	Plasma Membrane	transmembrane receptor	CU151866	Pig DNA sequence from clone CH242-281N12 on chromosome 4, complete sequence
one	216213	SSBP3	XM_006710545	PREDICTED: Homo sapiens single stranded DNA binding protein 3 (SSBP3), transcript variant X3, mRNA	Nucleus	transcription regulator	FP102132	Pig DNA sequence from clone CH242-155E24 on chromosome X, complete sequence
one	216226	RABEP2	FM206294	Cloning vector pchilGHG1			XM_003124519	PREDICTED: Sus scrofa rabaptin, RAB GTPase binding effector protein 2 (RABEP2), transcript variant X1, mRNA
one	216239	CDC20	AK303844	Homo sapiens cDNA FLJ51449 complete cds, highly similar to Cell division cycle protein 20 homolog	Nucleus	other	AK238455	Sus scrofa mRNA, clone:TES010029E12, expressed in testis
one	216301	FAM101B	AL139085	Human DNA sequence from clone RP11-431O22 on chromosome 13, complete sequence			XM_003131818	PREDICTED: Sus scrofa family with sequence similarity 101, member B (FAM101B), mRNA
one	216312	MYL3	NM_000258	Homo sapiens myosin, light chain 3, alkali; ventricular, skeletal, slow (MYL3), mRNA	Cytoplasm	other	NM_001278773	Sus scrofa myosin, light chain 3, alkali; ventricular, skeletal, slow (MYL3), mRNA >gi 332656186 gb JF829999.1 Sus scrofa breed Lantang MYL3 (MYL3) mRNA, complete cds
one	216318	APH1A	XM_006711362	PREDICTED: Homo sapiens APH1A gamma secretase subunit (APH1A), transcript variant X1, mRNA	Cytoplasm	peptidase	XM_005658255	PREDICTED: Sus scrofa anterior pharynx defective 1 homolog A (C. elegans) (APH1A), transcript variant X3, mRNA
one	216353	EXOSC3P1	NG_007654	Homo sapiens exosome component 3 pseudogene 1 (EXOSC3P1) on chromosome 21			AK393023	Sus scrofa mRNA, clone: ITT010069C10, expressed in intestine
one	216377	SH3BP5L	AK125837	Homo sapiens cDNA FLJ43849 fis, clone TESTI4006420	Other	other	XM_003123598	PREDICTED: Sus scrofa SH3-binding domain protein 5-like (SH3BP5L), transcript variant X1, mRNA
one	216441	TESC	NR_031766	Homo sapiens tescalcin (TESC), transcript variant 3, non-coding RNA	Cytoplasm	other	XM_005657313	PREDICTED: Sus scrofa tescalcin (TESC), transcript variant X5, mRNA
one	216466	TBC1D28	AC105100	Homo sapiens, clone RP11-448D22, complete sequence	Other	other	AK391739	Sus scrofa mRNA, clone: HTMT10019E04, expressed in hypothalamus
one	216467		FM206294	Cloning vector pchilGHG1			CU466532	Pig DNA sequence from clone CH242-163K12 on chromosome 2, complete sequence
one	216478	GABPB1	NG_029475	Homo sapiens GA binding protein transcription factor, beta subunit 1 (GABPB1), RefSeqGene on chromosome 15			CU468992	Pig DNA sequence from clone CH242-238D19 on chromosome X, complete sequence

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one	216588	ATP6V1G2	NM_001204078	Homo sapiens ATPase, H+ transporting, Cytoplasm lysosomal 13kDa, V1 subunit G2 (ATP6V1G2), transcript variant 3, mRNA		transporter	XM_005665768	PREDICTED: Sus scrofa ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G2 (ATP6V1G2), transcript variant X2, mRNA
one	216660	FAM102A	XM_005251984	PREDICTED: Homo sapiens family with sequence similarity 102, member A (FAM102A), transcript variant X1, mRNA	Other	other	AK392839	Sus scrofa mRNA, clone: ITT010012H01, expressed in intestine
one	216719	B3GAT3P1	NG_005351	Homo sapiens beta-1,3-glucuronyltransferase 3 pseudogene 1 (B3GAT3P1) on chromosome 3			AK233894	Sus scrofa mRNA, clone:MLN010061H08, expressed in mesenteric lymph node
one	216736	CUX1	NG_029476	Homo sapiens cut-like homeobox 1 (CUX1), RefSeqGene on chromosome 7	Nucleus	transcription regulator	AK232121	Sus scrofa mRNA, clone:LNG010081H09, expressed in lung
one	216754	C11orf1	AK027152	Homo sapiens cDNA: FLJ23499 fis, clone LNG02702	Nucleus	other	AK231752	Sus scrofa mRNA, clone:LNG010019E12, expressed in lung
one	216780	NAT8L	XM_006710156	PREDICTED: Homo sapiens N-acetyltransferase 8-like (GCN5-related, putative) (NAT8L), mRNA	Cytoplasm	enzyme	not available	not available
one	216862	SEP11	AK094473	Homo sapiens cDNA FLJ37154 fis, clone BRACE2026054, highly similar to SEPTIN 2	Nucleus	other	CU856396	Pig DNA sequence from clone CH242-129F20 on chromosome X, complete sequence
one	216868	PUM1	NM_014676	Homo sapiens pumilio RNA-binding family member 1 (PUM1), transcript variant 2, mRNA	Cytoplasm	other	XM_005665155	PREDICTED: Sus scrofa pumilio homolog 1 (Drosophila) (PUM1), mRNA
one	216880		FM206294	Cloning vector pchiLGHG1			XM_003353668	PREDICTED: Sus scrofa target of rapamycin complex 2 subunit MAPKAP1-like (LOC100622774), mRNA
one	216923	TRIM25	AB384815	Synthetic construct DNA, clone: pF1KB3493, Homo sapiens TRIM25 gene for tripartite motif-containing protein 25, complete cds, without stop codon, in Flexi system			XM_005656971	PREDICTED: Sus scrofa E3 ubiquitin/ISG15 ligase TRIM25-like (LOC100622285), partial mRNA
one	216936	APTX	XM_006716792	PREDICTED: Homo sapiens aprataxin (APTX), transcript variant X2, mRNA	Nucleus	phosphatase	AY609995	Sus scrofa clone Clu_53632.scr.msk.p1.Contig1, mRNA sequence
one	216938	SPDEF	XM_005248988	PREDICTED: Homo sapiens SAM pointed domain containing ETS transcription factor (SPDEF), transcript variant X1, mRNA	Nucleus	transcription regulator	XM_005665895	
one	216993	PDLIM1	U90878	Homo sapiens carboxyl terminal LIM domain protein (CLIM1) mRNA, complete cds	Cytoplasm	transcription regulator	XM_001926462	PREDICTED: Sus scrofa phosphodiesterase 12 (PDE12), mRNA

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one	217033	COMMD7	NM_053041	Homo sapiens COMM domain containing 7 (COMMD7), transcript variant 1, mRNA	Other	other	XM_005672851	PREDICTED: Sus scrofa COMM domain-containing protein 7-like (LOC100514995), partial mRNA
one	217089	ABHD12	AK293495	Homo sapiens cDNA FLJ55147 complete cds, highly similar to Abhydrolase domain-containing protein 12	Other	enzyme	AK344882	Sus scrofa mRNA, clone:ITT010006F05, expressed in small intestine
one	217198	MYL12A	BC016372	Homo sapiens myosin, light chain 12A, regulatory, non-sarcomeric, mRNA (cDNA clone MGC:27196 IMAGE:4293343), complete cds	Cytoplasm	other	NM_001244251	Sus scrofa myosin regulatory light chain 2 protein (LOC733637), transcript variant 2, mRNA
one	217224	GPR116	FM206294	Cloning vector pchIHGH1			XM_001928511	PREDICTED: Sus scrofa G protein-coupled receptor 116 (GPR116), transcript variant X1, mRNA
one	217296	THAP3	BC092427	Homo sapiens THAP domain containing, apoptosis associated protein 3, mRNA (cDNA clone MGC:102992 IMAGE:30376814), complete cds	Other	other	AK346880	Sus scrofa mRNA, clone:MLN010069F02, expressed in mesenteric lymph nodes
one	217461	CPS1	NM_001122634	Homo sapiens carbamoyl-phosphate synthase 1, mitochondrial (CPS1), transcript variant 3, mRNA	Cytoplasm	enzyme	XM_005672159	PREDICTED: Sus scrofa carbamoyl-phosphate synthase 1, mitochondrial (CPS1), mRNA
one	217462	CCNE2	NG_029611	Homo sapiens cyclin E2 (CCNE2), RefSeqGene on chromosome 8	Nucleus	other	XM_005662960	PREDICTED: Sus scrofa cyclin E2 (CCNE2), transcript variant X3, mRNA
one	217514	WIBG	NM_001143853	Homo sapiens within bgcn homolog (Drosophila) (WIBG), transcript variant 2, mRNA	Nucleus	other	XM_005663885	PREDICTED: Sus scrofa within bgcn homolog (Drosophila) (WIBG), transcript variant X2, mRNA
one	217522	RPS5	AK311938	Homo sapiens cDNA, FLJ92205, Homo sapiens ribosomal protein S5 (RPS5), mRNA	Cytoplasm	other	XM_003128133	PREDICTED: Sus scrofa ribosomal protein S5 (RPS5), transcript variant 1, mRNA
one	217558	SCN4B	NG_011710	Homo sapiens sodium channel, voltage-gated, type IV, beta subunit (SCN4B), RefSeqGene (LRG_330) on chromosome 11	Plasma Membrane	ion channel	AY610332	Sus scrofa clone rebs05c_e19.y1.abd, mRNA sequence
one	217576		AC103559	Homo sapiens chromosome 3 clone RP11-286L5, complete sequence			FO203385	Pig DNA sequence from clone WTSI_1005-198O14 on chromosome X, complete sequence
one	217583	AGRN	XM_006710637	PREDICTED: Homo sapiens agrin (AGRN), transcript variant X7, mRNA	Plasma Membrane	other	XR_297411	PREDICTED: Sus scrofa agrin-like (LOC100621139), misc_RNA
one	217654	SGMS2	XM_006714121	PREDICTED: Homo sapiens sphingomyelin synthase 2 (SGMS2), transcript variant X1, mRNA	Plasma Membrane	enzyme	XM_005666950	PREDICTED: Sus scrofa sphingomyelin synthase 2 (SGMS2), transcript variant X7, mRNA
one	217666	DCAF5	BC150267	Homo sapiens cDNA clone IMAGE:9007227	Cytoplasm	other	AK238285	Sus scrofa mRNA, clone:TCH010075B07, expressed in trachea

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one	217667	ACP2	XM_005252984	PREDICTED: Homo sapiens acid phosphatase 2, lysosomal (ACP2), transcript variant X4, mRNA	Cytoplasm	phosphatase	AK397021	Sus scrofa mRNA, clone: PTG010055C10, expressed in pituitary gland
one	217668	XCL1	NM_002995	Homo sapiens chemokine (C motif) ligand 1 (XCL1), mRNA	Extracellular Space	cytokine	NM_001134345	Sus scrofa chemokine (C motif) ligand 1 (XCL1), mRNA >gi 190888866 gb EU743945.1 Sus scrofa chemokine C motif ligand 1 (XCL1) mRNA, complete cds
one	217689	GATA5	BC117358	Homo sapiens GATA binding protein 5, mRNA (cDNA clone MGC:150967 IMAGE:40125909), complete cds	Nucleus	transcription regulator	XM_001924182	PREDICTED: Sus scrofa GATA binding protein 5 (GATA5), mRNA
one	217696		FM206294	Cloning vector pchiLGHG1			AK398416	Sus scrofa mRNA, clone: THY010060B08, expressed in thymus
one	217706		FM206294	Cloning vector pchiLGHG1			AK344964	Sus scrofa mRNA, clone: ITT010024C08, expressed in small intestine
one	217773	CLDN4	NM_001305	Homo sapiens claudin 4 (CLDN4), mRNA	Plasma Membrane	transmembrane receptor	XM_005661969	PREDICTED: Sus scrofa claudin 4 (CLDN4), transcript variant X1, mRNA
one	217774	TRHR	AC104945	Homo sapiens chromosome 8, clone RP11-384L9, complete sequence	Plasma Membrane	G-protein coupled receptor	XM_005669942	PREDICTED: Sus scrofa DEAH (Asp-Glu-Ala-His) box polypeptide 36 (DHX36), mRNA
one	217800	EIF4EBP2	NG_008681	Homo sapiens eukaryotic translation initiation factor 4E binding protein 2 pseudogene (LOC100190922) on chromosome 11			XM_003133058	PREDICTED: Sus scrofa eukaryotic translation initiation factor 4E binding protein 2 (EIF4EBP2), mRNA
one	217853		FM206294	Cloning vector pchiLGHG1			XM_005672156	PREDICTED: Sus scrofa ribulose-phosphate 3-epimerase-like (LOC100737311), mRNA
one	217894	ZNF394	XM_005250638	PREDICTED: Homo sapiens zinc finger protein 394 (ZNF394), transcript variant X1, mRNA	Nucleus	transcription regulator	XM_003124321	PREDICTED: Sus scrofa zinc finger protein 394 (ZNF394), mRNA
one	218056	NAA15	FM206294	Cloning vector pchiLGHG1			XM_005656536	PREDICTED: Sus scrofa N(alpha)-acetyltransferase 15, NatA auxiliary subunit (NAA15), transcript variant X2, mRNA
one	218124	MRPL41	NM_032477	Homo sapiens mitochondrial ribosomal protein L41 (MRPL41), mRNA	Cytoplasm	other	AB699688	Sus scrofa genes for immunoglobulin heavy chain constant region, clone: L380J14
one	218169	PQBP1	NM_001167990	Homo sapiens polyglutamine binding protein 1 (PQBP1), transcript variant 9, mRNA	Nucleus	transcription regulator	XM_005673596	PREDICTED: Sus scrofa polyglutamine binding protein 1 (PQBP1), transcript variant X3, mRNA

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one	218172	NDUFS4	HQ448017	Synthetic construct Homo sapiens clone IMAGE:100071390; CCSB005624_02 NADH dehydrogenase (ubiquinone) Fe-S protein 4, 18kDa (NADH-coenzyme Q reductase) (NDUFS4) gene, encodes complete protein	Cytoplasm	enzyme	XM_005672445	PREDICTED: Sus scrofa NADH dehydrogenase (ubiquinone) Fe-S protein 4, 18kDa (NADH-coenzyme Q reductase) (NDUFS4), mRNA
one	218195	TBXA2R	DQ268653	Homo sapiens thromboxane A2 receptor (TBXA2R) gene, complete cds	Plasma Membrane	G-protein coupled receptor	AK352026	Sus scrofa mRNA, clone:THY010125G06, expressed in thymus
one	218218		FM206294	Cloning vector pchilGHG1			AK392056	Sus scrofa mRNA, clone: HTMT10047B05, expressed in hypothalamus
one	218290	UBA7	XM_006713321	PREDICTED: Homo sapiens ubiquitin-like modifier activating enzyme 7 (UBA7), transcript variant X3, mRNA	Cytoplasm	enzyme	XM_003132214	PREDICTED: Sus scrofa ubiquitin-like modifier activating enzyme 7 (UBA7), transcript variant X1, mRNA
one	218296	DYNLL1P1	NG_001584	Homo sapiens dynein, light chain, LC8-type 1 pseudogene 1 (DYNLL1P1) on chromosome 14			XM_005670707	PREDICTED: Sus scrofa dynein, light chain, LC8-type 1 (DYNLL1), transcript variant X1, mRNA
one	218305	NUDT22	NM_001271831	Homo sapiens nudix (nucleoside diphosphate linked moiety X)-type motif 22 (NUDT22), transcript variant 4, mRNA	Other	other	AK391579	Sus scrofa mRNA, clone: HTMT10002H04, expressed in hypothalamus
one	218334	MTA3	NM_020744	Homo sapiens metastasis associated 1 family, member 3 (MTA3), transcript variant 3, mRNA	Nucleus	other	XM_005662590	PREDICTED: Sus scrofa metastasis associated 1 family, member 3 (MTA3), mRNA
one	218363	MYH2	NM_017534	Homo sapiens myosin, heavy chain 2, skeletal muscle, adult (MYH2), transcript variant 1, mRNA	Cytoplasm	enzyme	XM_003483113	PREDICTED: Sus scrofa myosin-2-like (LOC100737032), mRNA
one	218368	METAP2	XM_005268583	PREDICTED: Homo sapiens methionyl aminopeptidase 2 (METAP2), transcript variant X1, mRNA	Cytoplasm	peptidase	XM_005664247	PREDICTED: Sus scrofa methionyl aminopeptidase 2 (METAP2), transcript variant X2, mRNA
one	218385	SHISA5	NG_033100	Homo sapiens shisa family member 5 (SHISA5), RefSeqGene on chromosome 3	Nucleus	other	AK398273	Sus scrofa mRNA, clone: TES010086D07, expressed in testis
one	218398	SAMD4B	XM_006723257	PREDICTED: Homo sapiens sterile alpha motif domain containing 4B (SAMD4B), transcript variant X5, mRNA	Cytoplasm	other	XM_003353793	PREDICTED: Sus scrofa vascular endothelial growth factor B (VEGFB), transcript variant 2, mRNA
one	218426	RAC1	NG_029431	Homo sapiens ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1) (RAC1), RefSeqGene on chromosome 7	Plasma Membrane	enzyme	XM_005667696	PREDICTED: Sus scrofa CD36 molecule (thrombospondin receptor) (CD36), transcript variant X6, mRNA

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one	218436		AF170801	Homo sapiens chromosome 8 clone CTA-392B3 map p23, complete sequence			AK398055	Sus scrofa mRNA, clone: TCH010080F12, expressed in trachea
one	218460	KIF5B	FM206294	Cloning vector pchilGHG1			XM_005668098	PREDICTED: Sus scrofa kinesin family member 5B (KIF5B), mRNA
one	218473	DCUN1D2	XM_006719975	PREDICTED: Homo sapiens DCN1, defective in cullin neddylation 1, domain containing 2 (DCUN1D2), transcript variant X5, mRNA	Other	other	XR_297617	PREDICTED: Sus scrofa uncharacterized LOC100620225 (LOC100620225), transcript variant X2, misc_RNA
one	218509	SPR	NG_008234	Homo sapiens sepiapterin reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase) (SPR), RefSeqGene on chromosome 2	Cytoplasm	enzyme	XM_003125032	PREDICTED: Sus scrofa sepiapterin reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase) (SPR), mRNA
one	218513	CD276	XM_005254700	PREDICTED: Homo sapiens CD276 molecule (CD276), transcript variant X2, mRNA	Plasma	other	CU915478	Pig DNA sequence from clone CH242-29L4 on chromosome X, complete sequence
one	218531	C10orf118	AL834368	Homo sapiens mRNA; cDNA DKFZp762M1412 (from clone DKFZp762M1412)	Other	other	XM_001927027	PREDICTED: Sus scrofa chromosome 14 open reading frame, human C10orf118 (C14H10orf118), mRNA
one	218538	PDE4D	NG_027957	Homo sapiens phosphodiesterase 4D, cAMP-specific (PDE4D), RefSeqGene on chromosome 5			XM_003361882	PREDICTED: Sus scrofa NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 4, 15kDa (NDUFB4), transcript variant X1, mRNA
one	218542		AL390067	Human DNA sequence from clone RP11-276E15 on chromosome 9, complete sequence			AK349861	Sus scrofa mRNA, clone:SKNB10074C08, expressed in skin
one	218560	SMG5	CR933677	Homo sapiens mRNA; cDNA DKFZp781O0686 (from clone DKFZp781O0686)	Nucleus	other	AK398249	Sus scrofa mRNA, clone: TES010072F04, expressed in testis
one	218566	CCDC23	NM_199342	Homo sapiens coiled-coil domain containing 23 (CCDC23), mRNA	Other	other	AK234245	Sus scrofa mRNA, clone:OVR010032F09, expressed in ovary
one	218567	PRPSAP2	AK126398	Homo sapiens cDNA FLJ44434 fis, clone UTERU2019491, moderately similar to Homo sapiens mRNA for 41-kDa phosphoribosylpyrophosphate synthetase-associated protein	Other	other	AK345507	Sus scrofa mRNA, clone:LNG010043H06, expressed in lung
one	218568	APBB1	NM_001257319	Homo sapiens amyloid beta (A4) precursor protein-binding, family B, member 1 (Fe65) (APBB1), transcript variant 9, mRNA	Cytoplasm	transcription regulator	XM_005656602	PREDICTED: Sus scrofa amyloid beta (A4) precursor protein-binding, family B, member 1 (Fe65) (APBB1), transcript variant X6, mRNA
one	218569	CD82	XM_006718223	PREDICTED: Homo sapiens CD82 molecule (CD82), transcript variant X2, mRNA	Plasma Membrane	other	NM_001145218	Sus scrofa CD82 molecule (CD82), mRNA

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one	218590	KIF1C	XM_005256424	PREDICTED: Homo sapiens kinesin family member 1C (KIF1C), transcript variant X1, mRNA	Cytoplasm	other	XM_005669158	PREDICTED: Sus scrofa kinesin family member 1C (KIF1C), transcript variant X2, mRNA
one	218702	TUBA4A	XM_005246832	PREDICTED: Homo sapiens tubulin, alpha 4a (TUBA4A), transcript variant X1, mRNA	Cytoplasm	other	XM_001928335	PREDICTED: Sus scrofa tubulin, alpha 4a (TUBA4A), transcript variant X1, mRNA
one	218769	COPS4	NM_001258006	Homo sapiens COP9 signalosome subunit 4 (COPS4), transcript variant 2, mRNA	Cytoplasm	other	XM_005656564	PREDICTED: Sus scrofa COP9 constitutive photomorphogenic homolog subunit 4 (Arabidopsis) (COPS4), transcript variant X2, mRNA
one	218771	MOB2	NM_001172223	Homo sapiens MOB kinase activator 2 (MOB2), transcript variant 1, mRNA	Nucleus	other	XM_005663703	PREDICTED: Sus scrofa synapsin-1-like (LOC102161056), mRNA
one	218818	PNPLA2	XM_006718266	PREDICTED: Homo sapiens patatin-like phospholipase domain containing 2 (PNPLA2), transcript variant X2, mRNA	Cytoplasm	enzyme	EF567019	Sus scrofa patatin-like phospholipase domain-containing 2 (PNPLA2) gene, complete cds
one	218881	ZGRF1	XM_005263115	PREDICTED: Homo sapiens chromosome 4 open reading frame 21 (C4orf21), transcript variant X1, mRNA	Other	other	CU694552	Pig DNA sequence from clone CH242-167G20 on chromosome 2, complete sequence
one	218914	IBSP	NM_004967	Homo sapiens integrin-binding sialoprotein (IBSP), mRNA	Extracellular Space	other	XM_003129337	PREDICTED: Sus scrofa integrin-binding sialoprotein (IBSP), mRNA
one	218964	WDR6	BC078176	Homo sapiens WD repeat domain 6, mRNA (cDNA clone IMAGE:6528453), partial cds	Cytoplasm	other	XM_005669543	PREDICTED: Sus scrofa WD repeat domain 6 (WDR6), mRNA
one	218966	LSM6	FM206294	Cloning vector pchiLGHG1			XM_005666847	PREDICTED: Sus scrofa LSM6 homolog, U6 small nuclear RNA associated (S. cerevisiae) (LSM6), transcript variant X8, mRNA
one	218978	ACTN4	XM_005259282	PREDICTED: Homo sapiens actinin, alpha 4 (ACTN4), transcript variant X2, mRNA	Cytoplasm	other	XM_003355885	PREDICTED: Sus scrofa actinin, alpha 4 (ACTN4), transcript variant X4, mRNA
one	218997	SPTB	NM_000347	Homo sapiens spectrin, beta, erythrocytic (SPTB), transcript variant 2, mRNA	Plasma Membrane	other	EF129201	Sus scrofa clone KVL5887 microsatellite sequence
one	218999	GRIPAP1	BC110636	Homo sapiens GRIP1 associated protein 1, mRNA (cDNA clone IMAGE:4996005), with apparent retained intron	Plasma Membrane	other	XM_005673616	PREDICTED: Sus scrofa GRIP1-associated protein 1-like (LOC102164404), mRNA
one	219000	ME3	XM_005273717	PREDICTED: Homo sapiens malic enzyme 3, NADP(+)-dependent, mitochondrial (ME3), transcript variant X1, mRNA	Cytoplasm	enzyme	AK400176	Sus scrofa mRNA, clone: BFLT10065E10, expressed in brain (frontal lobe)
one	219040	TSTD3	FM206294	Cloning vector pchiLGHG1			XM_003121313	PREDICTED: Sus scrofa thiosulfate sulfurtransferase (rhodanese)-like domain containing 3 (TSTD3), mRNA

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one	219044	HMGN2	BC075837	Homo sapiens high-mobility group nucleosomal binding domain 2, mRNA (cDNA clone MGC:88719 IMAGE:6272425), complete cds	Nucleus	other	XM_005656058	PREDICTED: Sus scrofa high mobility group nucleosomal binding domain 2 (HMGN2), transcript variant X1, mRNA
one	219062	SVIL	NG_033998	Homo sapiens supervillin (SVIL), RefSeqGene on chromosome 10			XM_005663313	PREDICTED: Sus scrofa CDC28 protein kinase regulatory subunit 1B (CKS1B), transcript variant X1, mRNA
one	219183	FXYP5	DQ890585	Synthetic construct clone IMAGE:100003215; FLH164170.01X; RZPDo839D06162D FXYP domain containing ion transport regulator 5 (FXYP5) gene, encodes complete protein	Plasma Membrane	ion channel	AK352494	Sus scrofa mRNA, clone:UTR010104G10, expressed in uterus
one	219214	ATP5J2P5	NG_005477	Homo sapiens ATP synthase, H+ transporting, mitochondrial Fo complex, subunit F2 pseudogene 5 (ATP5J2P5) on chromosome 12			XM_005661858	PREDICTED: Sus scrofa ATP synthase subunit f, mitochondrial-like (LOC100737824), transcript variant X2, mRNA
one	219362		AL138976	Human chromosome 14 DNA sequence BAC R-45P15 of library RPCI-11 from chromosome 14 of Homo sapiens (Human), complete sequence			AK349969	Sus scrofa mRNA, clone:SMG010007H12, expressed in submaxillary gland
one	219385	MRAS	XM_005247229	PREDICTED: Homo sapiens muscle RAS oncogene homolog (MRAS), transcript variant X2, mRNA	Plasma Membrane	enzyme	XM_003358570	PREDICTED: Sus scrofa muscle RAS oncogene homolog (MRAS), mRNA
one	219401	MMP9	NG_011468	Homo sapiens matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase) (MMP9), RefSeqGene on chromosome 20	Extracellular Space	peptidase	DQ846655	Sus scrofa matrix metalloproteinase 9 (MMP9) gene, complete cds
one	219409		FM206294	Cloning vector pchiLGHG1			AK391181	Sus scrofa mRNA, clone: CLNT10096B09, expressed in colon
one	219430	PTP4A2	XM_006710928	PREDICTED: Homo sapiens protein tyrosine phosphatase type IVA, member 2 (PTP4A2), transcript variant X7, mRNA	Cytoplasm	phosphatase	XM_005665174	PREDICTED: Sus scrofa protein tyrosine phosphatase type IVA, member 2 (PTP4A2), transcript variant X2, mRNA
one	219431	ANGPTL2	AK075026	Homo sapiens cDNA FLJ90545 fis, clone OVARC1000410, highly similar to Angiopoietin-related protein 2 precursor	Extracellular Space	other	AK351379	Sus scrofa mRNA, clone:TES010111G07, expressed in testis
one	219432	TIPRL	AB097034	Homo sapiens mRNA for putative MAPK activating protein, complete cds, clone: PM10	Cytoplasm	other	XM_005663137	PREDICTED: Sus scrofa TIP41, TOR signaling pathway regulator-like (S. cerevisiae) (TIPRL), transcript variant X2, mRNA

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one	219461	TMEM161A	XM_005259976	PREDICTED: Homo sapiens transmembrane protein 161A (TMEM161A), transcript variant X1, mRNA	Other	other	XM_005671075	PREDICTED: Sus scrofa plasminogen activator, urokinase (PLAU), transcript variant X1, mRNA
one	219482	RPS27P3	NG_005391	Homo sapiens ribosomal protein S27 pseudogene 3 (RPS27P3) on chromosome 12			XM_003125735	PREDICTED: Sus scrofa ribosomal protein S27 (RPS27), transcript variant 2, mRNA
one	219503	PADI4	JF432820	Synthetic construct Homo sapiens clone IMAGE:100074138 peptidyl arginine deiminase, type IV (PADI4) gene, encodes complete protein	Cytoplasm	enzyme	XM_003127648	PREDICTED: Sus scrofa peptidyl arginine deiminase, type IV (PADI4), mRNA
one	219505	TNKS1BP1	XM_006718726	PREDICTED: Homo sapiens tankyrase 1 binding protein 1, 182kDa (TNKS1BP1), transcript variant X4, mRNA	Nucleus	other	XM_003353866	PREDICTED: Sus scrofa tankyrase 1 binding protein 1, 182kDa (TNKS1BP1), transcript variant X1, mRNA
one	219513		AC240846	Homo sapiens FOSMID clone ABC27-1989M21 from chromosome 6, complete sequence			CU639450	Pig DNA sequence from clone CH242-56111 on chromosome X, complete sequence
one	219515	EPHB4	AC254629	Homo sapiens BAC clone RP11-1433B22 from chromosome 7, complete sequence			XM_003124371	PREDICTED: Sus scrofa EPH receptor B4 (EPHB4), mRNA
one	219526	NUDT8	NM_001243750	Homo sapiens nudix (nucleoside diphosphate linked moiety X)-type motif 8 (NUDT8), transcript variant 1, mRNA	Cytoplasm	other	XM_003122437	PREDICTED: Sus scrofa nudix (nucleoside diphosphate linked moiety X)-type motif 8 (NUDT8), mRNA
one	219557	FIBIN	AC016450	Homo sapiens chromosome 11, clone RP11-361K15, complete sequence			XM_005658203	PREDICTED: Sus scrofa fin bud initiation factor homolog (zebrafish) (FIBIN), mRNA
one	219567	CLCN2	XM_006713490	PREDICTED: Homo sapiens chloride channel, voltage-sensitive 2 (CLCN2), transcript variant X3, mRNA	Plasma Membrane	ion channel	XM_005670047	PREDICTED: Sus scrofa chloride channel protein 2 variant (CLC-2), transcript variant X7, mRNA
one	219671	TMEM40	XM_006713249	PREDICTED: Homo sapiens transmembrane protein 40 (TMEM40), transcript variant X1, mRNA	Other	other	AK396201	Sus scrofa mRNA, clone: PBL010105G07, expressed in peripheral blood lymphocytes
one	219707	ADAMTS19	NM_133638	Homo sapiens ADAM metalloproteinase with thrombospondin type 1 motif, 19 (ADAMTS19), mRNA	Extracellular Space	peptidase	XM_005674122	PREDICTED: Sus scrofa A disintegrin and metalloproteinase with thrombospondin motifs 19-like (LOC100518541), mRNA
one	219730	NUP214	BX537986	Homo sapiens mRNA; cDNA DKFZp686J0330 (from clone DKFZp686J0330)	Nucleus	transporter	XM_001926595	PREDICTED: Sus scrofa nucleoporin 214kDa (NUP214), transcript variant X1, mRNA
one	219768	UFD1L	XM_006724319	PREDICTED: Homo sapiens ubiquitin fusion degradation 1 like (yeast) (UFD1L), transcript variant X3, mRNA	Cytoplasm	peptidase	XM_001929622	PREDICTED: Sus scrofa ubiquitin fusion degradation protein 1 homolog-like (LOC100153062), partial mRNA

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one	219873		AC007394	Homo sapiens BAC clone RP11-489G12 from 2, complete sequence			XR_299542	PREDICTED: Sus scrofa uncharacterized LOC102161920 (LOC102161920), misc_RNA
one	219889	GRIN2C	XM_006721848	PREDICTED: Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2C (GRIN2C), transcript variant X4, mRNA	Plasma Membrane	ion channel	XM_005668634	PREDICTED: Sus scrofa glutamate receptor, ionotropic, N-methyl D-aspartate 2C (GRIN2C), mRNA
one	219897	LY6G6E	NR_003673	Homo sapiens lymphocyte antigen 6 complex, locus G6E (pseudogene) (LY6G6E), transcript variant 2, non-coding RNA	Other	other	AK240326	Sus scrofa mRNA, clone:UTR010054D06, expressed in uterus
one	219959	RBM12	NM_152838	Homo sapiens RNA binding motif protein 12 (RBM12), transcript variant 2, mRNA	Nucleus	other	XM_003483946	PREDICTED: Sus scrofa RNA binding motif protein 12 (RBM12), transcript variant X1, mRNA
one	220037	SLC25A2	AC244130	Homo sapiens BAC clone CH17-441C22 from chromosome 5, complete sequence	Cytoplasm	transporter	NM_001243910	Sus scrofa solute carrier family 25 (mitochondrial carrier; ornithine transporter) member 15 (SLC25A15), mRNA
one	220103	ZNF579	NM_152600	Homo sapiens zinc finger protein 579 (ZNF579), mRNA	Nucleus	other	XM_005664865	PREDICTED: Sus scrofa zinc finger protein 579-like (LOC100621575), mRNA
one	220127	PRDM1	XM_005267094	PREDICTED: Homo sapiens PR domain containing 1, with ZNF domain (PRDM1), transcript variant X1, mRNA	Nucleus	transcription regulator	XM_001925375	PREDICTED: Sus scrofa PR domain containing 1, with ZNF domain (PRDM1), transcript variant X2, mRNA
one	220149	GGACT	XM_005254083	PREDICTED: Homo sapiens gamma-glutamylamine cyclotransferase (GGACT), transcript variant X1, mRNA	Other	enzyme	XM_003131069	PREDICTED: Sus scrofa gamma-glutamylamine cyclotransferase (GGACT), transcript variant X1, mRNA
one	220199	TMEM213	AK055841	Homo sapiens cDNA FLJ31279 fis, clone KIDNE2006652	Other	other	XM_003134621	PREDICTED: Sus scrofa transmembrane protein 213 (TMEM213), mRNA
one	220223	LSR	XM_005258982	PREDICTED: Homo sapiens lipolysis stimulated lipoprotein receptor (LSR), transcript variant X3, mRNA	Nucleus	transcription regulator	AK394856	Sus scrofa mRNA, clone: OVR010038B10, expressed in ovary
one	220248	C3H2orf70	AC015977	Homo sapiens BAC clone RP11-527118 from 2, complete sequence			XM_003481272	PREDICTED: Sus scrofa chromosome 3 open reading frame, human C2orf70 (C3H2orf70), mRNA
one	220349	RMDN1	NM_001286707	Homo sapiens regulator of microtubule dynamics 1 (RMDN1), transcript variant 2, mRNA	Cytoplasm	other	XM_005662993	PREDICTED: Sus scrofa regulator of microtubule dynamics 1 (RMDN1), transcript variant X3, mRNA
one	220419	IFIT3	AK297137	Homo sapiens cDNA FLJ53454 complete cds, highly similar to Interferon-induced protein with tetratricopeptide repeats 3	Cytoplasm	other	AK343662	Sus scrofa mRNA, clone:AMP010010E01, expressed in alveolar macrophages

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one	220778	NFU1	XM_006711988	PREDICTED: Homo sapiens NFU1 iron-sulfur cluster scaffold homolog (S. cerevisiae) (NFU1), transcript variant X1, mRNA	Cytoplasm	other	AK352431	Sus scrofa mRNA, clone:UTR010087C07, expressed in uterus
one	220898	COL7A1	NM_000094	Homo sapiens collagen, type VII, alpha 1 (COL7A1), mRNA	Extracellular Space	other	XM_005669519	PREDICTED: Sus scrofa collagen, type VII, alpha 1 (COL7A1), mRNA
one	220918	CHD5	NM_015557	Homo sapiens chromodomain helicase DNA binding protein 5 (CHD5), mRNA	Nucleus	enzyme	CU693469	Pig DNA sequence from clone CH242-77E21 on chromosome X, complete sequence
one	220939	TRIM8	FM206294	Cloning vector pchilGHG1			XM_001928904	PREDICTED: Sus scrofa tripartite motif containing 8 (TRIM8), mRNA
one	221049	RAB11FIP1	NM_025151	Homo sapiens RAB11 family interacting protein 1 (class I) (RAB11FIP1), transcript variant 1, mRNA	Cytoplasm	other	AK397047	Sus scrofa mRNA, clone: PTG010065G08, expressed in pituitary gland
one	221075	TMEM141	NM_032928	Homo sapiens transmembrane protein 141 (TMEM141), mRNA	Other	other	XM_003122333	PREDICTED: Sus scrofa transmembrane protein 141 (TMEM141), transcript variant X1, mRNA
one	221096	SOX5	NG_029612	Homo sapiens SRY (sex determining region Y)-box 5 (SOX5), RefSeqGene on chromosome 12			XM_003126389	PREDICTED: Sus scrofa pleckstrin homology-like domain, family A, member 1 (PHLDA1), mRNA
one	221098	SPRP	FM206294	Cloning vector pchilGHG1			NM_214238	Sus scrofa small proline-rich protein (SPRP), mRNA
one	221117	TM9SF3	FM206294	Cloning vector pchilGHG1			XM_005671366	PREDICTED: Sus scrofa transmembrane 9 superfamily member 3 (TM9SF3), mRNA
one	221122	CAPRIN1	NM_203364	Homo sapiens cell cycle associated protein 1 (CAPRIN1), transcript variant 2, mRNA	Plasma Membrane	other	CU928986	Pig DNA sequence from clone CH242-250G21 on chromosome 2, complete sequence
one	221157	KIF12	XM_005251684	PREDICTED: Homo sapiens kinesin family member 12 (KIF12), transcript variant X2, mRNA	Cytoplasm	other	XM_005660365	PREDICTED: Sus scrofa kinesin family member 12 (KIF12), mRNA
one	221217	TTC7A	BC111487	Homo sapiens tetratricopeptide repeat domain 7A, mRNA (cDNA clone MGC:131720 IMAGE:6041916), complete cds	Plasma Membrane	other	CU633964	Pig DNA sequence from clone CH242-85M2 on chromosome X, complete sequence
one	221278		FM206294	Cloning vector pchilGHG1			AK240593	Sus scrofa mRNA, clone:UTR010104A11, expressed in uterus
one	221351	ZNF687	XM_005245368	PREDICTED: Homo sapiens zinc finger protein 687 (ZNF687), transcript variant X3, mRNA	Nucleus	other	XM_003125767	PREDICTED: Sus scrofa zinc finger protein 687 (ZNF687), mRNA

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one	100746	TP53INP2	XM_006723841	PREDICTED: Homo sapiens tumor protein p53 inducible nuclear protein 2 (TP53INP2), transcript variant X2, mRNA	Nucleus	other	XM_005672871	PREDICTED: Sus scrofa tumor protein p53 inducible nuclear protein 2 (TP53INP2), transcript variant X4, mRNA
one	101551	MEF2A	XM_006720519	PREDICTED: Homo sapiens myocyte enhancer factor 2A (MEF2A), transcript variant X16, mRNA	Nucleus	transcription regulator	AK392023	Sus scrofa mRNA, clone: HTMT10044F05, expressed in hypothalamus
one	102677	ABAT	XM_005255154	PREDICTED: Homo sapiens 4-aminobutyrate aminotransferase (ABAT), transcript variant X1, mRNA	Cytoplasm	enzyme	CU207382	Pig DNA sequence from clone CH242-409K13 on chromosome X, complete sequence
one	103065		AL357522	Human DNA sequence from clone RP11-685G11 on chromosome 6, complete sequence			CU633201	Pig DNA sequence from clone CH242-7105 on chromosome 7, complete sequence
one	103386	YAF2	BC037777	Homo sapiens YY1 associated factor 2, mRNA (cDNA clone MGC:41856 IMAGE:5276663), complete cds	Nucleus	transcription regulator	XM_005669728	PREDICTED: Sus scrofa RING1 and YY1 binding protein (RYBP), mRNA
one	104072	TIMM44	NM_006351	Homo sapiens translocase of inner mitochondrial membrane 44 homolog (yeast) (TIMM44), mRNA	Cytoplasm	transporter	XM_003123200	PREDICTED: Sus scrofa translocase of inner mitochondrial membrane 44 homolog (yeast) (TIMM44), mRNA
one	104397	ZYX	XM_005250053	PREDICTED: Homo sapiens zyxin (ZYX), transcript variant X2, mRNA	Plasma Membrane	other	XM_005657719	PREDICTED: Sus scrofa zyxin (ZYX), transcript variant X2, mRNA
one	201611		FM206294	Cloning vector pchilGHG1			AF067053	Sus scrofa microsatellite Li2 sequence
one	201666	CUL4A	NM_001278514	Homo sapiens cullin 4A (CUL4A), transcript variant 4, mRNA	Nucleus	other	XM_003131101	PREDICTED: Sus scrofa cullin 4A (CUL4A), mRNA
one	201813	DYNC2H1	NG_016423	Homo sapiens dynein, cytoplasmic 2, heavy chain 1 (DYNC2H1), RefSeqGene on chromosome 11	Cytoplasm	other	CU062440	Pig DNA sequence from clone CH242-140A18 on chromosome 1, complete sequence
one	202260		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CU856496	Pig DNA sequence from clone CH242-37O21 on chromosome X, complete sequence
one	203604		FM206294	Cloning vector pchilGHG1			NM_213738	Sus scrofa peptidoglycan recognition protein 2 (PGLYRP2), mRNA >gj 28376394 gb AF541956,1 Sus scrofa peptidoglycan recognition protein L isoform B mRNA, complete cds
one	203699		AC069307	Homo sapiens BAC clone RP11-738E22 from 4, complete sequence			FP085488	Pig DNA sequence from clone CH242-162C6 on chromosome X, complete sequence
one	203987	C9orf64	BC137461	Homo sapiens chromosome 9 open reading frame 64, mRNA (cDNA clone MGC:169084 IMAGE:9021461), complete cds	Other	other	XM_003357707	PREDICTED: Sus scrofa chromosome 10 open reading frame, human C9orf64 (C10H9orf64), transcript variant 1, mRNA

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one	204022	KRAS P1	NG_001154	Homo sapiens Kirsten rat sarcoma viral oncogene homolog pseudogene 1 (functional) (KRAS P1) on chromosome 6			XR_300888	PREDICTED: Sus scrofa uncharacterized LOC100511112 (LOC100511112), misc_RNA
one	204106	CDIP1	NM_001199056	Homo sapiens cell death-inducing p53 target 1 (CDIP1), transcript variant 4, mRNA	Nucleus	other	NM_001244561	Sus scrofa histamine N-methyltransferase (HNMT), mRNA
one	204157	PIGA	NR_033836	Homo sapiens phosphatidylinositol glycan anchor biosynthesis, class A (PIGA), transcript variant 5, non-coding RNA	Cytoplasm	enzyme	CU463953	Pig DNA sequence from clone CH242-100L3 on chromosome X, complete sequence
one	204682	ADCY7	XM_005255785	PREDICTED: Homo sapiens adenylate cyclase 7 (ADCY7), transcript variant X7, mRNA	Plasma Membrane	enzyme	XM_005656084	PREDICTED: Sus scrofa feline Gardner-Rasheed sarcoma viral oncogene homolog (FGR), mRNA
one	204754	MAGI1	XM_006713413	PREDICTED: Homo sapiens membrane associated guanylate kinase, WW and PDZ domain containing 1 (MAGI1), transcript variant X19, mRNA	Plasma Membrane	kinase	XM_005669713	PREDICTED: Sus scrofa membrane associated guanylate kinase, WW and PDZ domain containing 1 (MAGI1), transcript variant X8, mRNA
one	204887	RGMB	BC044231	Homo sapiens RGM domain family, member B, mRNA (cDNA clone IMAGE:5557971)	Plasma Membrane	other	XM_005661557	PREDICTED: Sus scrofa RGM domain family, member B (RGMB), transcript variant X2, mRNA
one	205138	KIAA0040	NM_001162895	Homo sapiens KIAA0040 (KIAA0040), transcript variant 4, mRNA	Other	other	XR_299064	PREDICTED: Sus scrofa uncharacterized LOC100519616 (LOC100519616), transcript variant X2, misc_RNA
one	205154	IMMP2L	NG_030016	Homo sapiens IMP2 inner mitochondrial membrane peptidase-like (S, cerevisiae) (IMMP2L), RefSeqGene on chromosome 7			XM_005653360	PREDICTED: Sus scrofa protein polyglycylase TTL10-like (LOC102159929), mRNA
one	205500	ZNF280D	NM_017661	Homo sapiens zinc finger protein 280D (ZNF280D), transcript variant 1, mRNA	Other	other	XM_005659575	PREDICTED: Sus scrofa zinc finger protein 280D (ZNF280D), transcript variant X2, mRNA
one	205691	ZNF24	XM_005258341	PREDICTED: Homo sapiens zinc finger protein 24 (ZNF24), transcript variant X1, mRNA	Nucleus	transcription regulator	XM_005665345	PREDICTED: Sus scrofa zinc finger protein 24 (ZNF24), transcript variant X2, mRNA
one	205726		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			FQ377577	Pig DNA sequence from clone CH242-326H11 on chromosome X, complete sequence
one	205787	ENSA	NG_029499	Homo sapiens endosulfine alpha (ENSA), RefSeqGene on chromosome 1	Cytoplasm	transporter	AK396895	Sus scrofa mRNA, clone: PTG010021D04, expressed in pituitary gland
one	206265	KCNMB2	NM_001278911	Homo sapiens potassium large conductance calcium-activated channel, subfamily M, beta member 2 (KCNMB2), transcript variant 3, mRNA	Plasma Membrane	ion channel	FP102503	Pig DNA sequence from clone CH242-427N16 on chromosome 2, complete sequence

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one	206291	SLC30A5	XM_006714672	PREDICTED: Homo sapiens solute carrier family 30 (zinc transporter), member 5 (SLC30A5), transcript variant X2, mRNA	Plasma Membrane	transporter	CU407218	Pig DNA sequence from clone CH242-373M1 on chromosome 14, complete sequence
one	206315	CCDC14	XM_006713733	PREDICTED: Homo sapiens coiled-coil domain containing 14 (CCDC14), transcript variant X10, mRNA	Cytoplasm	other	AK392402	Sus scrofa mRNA, clone: HTMT10071B12, expressed in hypothalamus
one	206315	CCDC14	XM_006713733	PREDICTED: Homo sapiens coiled-coil domain containing 14 (CCDC14), transcript variant X10, mRNA	Cytoplasm	other	AK392402	Sus scrofa mRNA, clone: HTMT10071B12, expressed in hypothalamus
one	206418	ATR	BC172404	Synthetic construct Homo sapiens clone IMAGE:100069098, MGC:199109 ataxia telangiectasia and Rad3 related (ATR) mRNA, encodes complete protein	Nucleus	kinase	XM_003132459	PREDICTED: Sus scrofa ataxia telangiectasia and Rad3 related (ATR), mRNA
one	206985	KPNA6	XM_005270711	PREDICTED: Homo sapiens karyopherin alpha 6 (importin alpha 7) (KPNA6), transcript variant X1, mRNA	Nucleus	transporter	XM_005665175	PREDICTED: Sus scrofa karyopherin alpha 6 (importin alpha 7) (KPNA6), transcript variant X2, mRNA
one	207178		AC008784	Homo sapiens chromosome 5 clone CTD-2028D11, complete sequence			CU466460	Pig DNA sequence from clone CH242-28G13 on chromosome X, complete sequence
one	207563	ZDHHC23	XM_006713561	PREDICTED: Homo sapiens zinc finger, DHHC-type containing 23 (ZDHHC23), transcript variant X9, mRNA	Other	other	CU468877	Pig DNA sequence from clone CH242-43K2 on chromosome 7, complete sequence
one	207851		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			FP236548	Pig DNA sequence from clone CH242-147N13 on chromosome X, complete sequence
one	208125	MNAT1	NM_001177963	Homo sapiens MNAT CDK-activating kinase assembly factor 1 (MNAT1), transcript variant 2, mRNA	Nucleus	other	AK400313	Sus scrofa mRNA, clone: BFLT10147G12, expressed in brain (frontal lobe)
one	208416	TGFB2	XR_247037	PREDICTED: Homo sapiens transforming growth factor, beta 2 (TGFB2), transcript variant X2, misc_RNA	Extracellular Space	growth factor	AK236676	Sus scrofa mRNA, clone:OVRM10214D04, expressed in ovary
one	208728		AL137790	Human DNA sequence from clone RP5-1003J2 on chromosome 1p12-13.3, complete sequence			XR_299907	PREDICTED: Sus scrofa uncharacterized LOC102159869 (LOC102159869), misc_RNA

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one	208752		AC011500	Homo sapiens chromosome 19 clone CTB-60E11, complete sequence			XR_298555	PREDICTED: Sus scrofa uncharacterized LOC102166053 (LOC102166053), transcript variant X1, misc_RNA >gi 545872414 ref XR_299468,1 PREDICTED: Sus scrofa uncharacterized LOC102159253 (LOC102159253), transcript variant X1, misc_RNA
one	208800	TDRKH	XM_005244856	PREDICTED: Homo sapiens tudor and KH domain containing (TDRKH), transcript variant X4, mRNA	Cytoplasm	other	EU010805	Sus scrofa clone KVL9400 microsatellite sequence
one	208919	ATXN1L	NM_001137675	Homo sapiens ataxin 1-like (ATXN1L), mRNA	Other	other	AK349627	Sus scrofa mRNA, clone:SKNB10010A03, expressed in skin
one	208930	BIRC6	XM_006712057	PREDICTED: Homo sapiens baculoviral IAP repeat containing 6 (BIRC6), transcript variant X12, mRNA	Cytoplasm	enzyme	XM_005662643	PREDICTED: Sus scrofa ubiquitin-conjugating BIR-domain enzyme (LOC100049694), mRNA
one	209081	FEM1C	XM_005272035	PREDICTED: Homo sapiens fem-1 homolog c (C, elegans) (FEM1C), transcript variant X1, mRNA	Nucleus	transcription regulator	XM_005661589	PREDICTED: Sus scrofa fem-1 homolog c (C, elegans) (FEM1C), mRNA
one	209124		FM206294	Cloning vector pchilGHG1			AF067053	Sus scrofa microsatellite Li2 sequence
one	209206	MBD5	NG_017003	Homo sapiens methyl-CpG binding domain protein 5 (MBD5), RefSeqGene on chromosome 2			XM_005671602	PREDICTED: Sus scrofa methyl-CpG-binding domain protein 5-like (LOC100622495), mRNA
one	209451		AK021710	Homo sapiens cDNA FLJ11648 fis, clone HEMBA1004405			CR956393	Pig DNA sequence from clone CH242-163M14 on chromosome 17, complete sequence
one	209484	ASXL2	XM_006712040	PREDICTED: Homo sapiens additional sex combs like 2 (Drosophila) (ASXL2), transcript variant X2, mRNA	Extracellular Space	other	XM_003125333	PREDICTED: Sus scrofa additional sex combs like 2 (Drosophila) (ASXL2), mRNA
one	209567	B3GALT1	AC016723	Homo sapiens BAC clone RP11-334N15 from 2, complete sequence			XM_005671903	PREDICTED: Sus scrofa UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 1 (B3GALT1), transcript variant X1, mRNA
one	210262	AZGP1	NM_001185	Homo sapiens alpha-2-glycoprotein 1, zinc-binding (AZGP1), mRNA	Extracellular Space	transporter	XM_003124307	PREDICTED: Sus scrofa alpha-2-glycoprotein 1, zinc-binding (AZGP1), mRNA
one	210335		AC015936	Homo sapiens chromosome 17, clone CTD-2534I21, complete sequence			AK236345	Sus scrofa mRNA, clone:OVRM10183G02, expressed in ovary
one	210826	ITIH5	KF570249	Homo sapiens chromosome 10 WGS contig WGS_LWK_AL355374,14_27451_27475 genomic sequence	Other	other	XM_003130820	PREDICTED: Sus scrofa inter-alpha-trypsin inhibitor heavy chain H5-like (LOC100515404), mRNA

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one	210838	NUP214	BX537986	Homo sapiens mRNA; cDNA DKFZp686J0330 (from clone DKFZp686J0330)	Nucleus	transporter	XM_001926595	PREDICTED: Sus scrofa nucleoporin 214kDa (NUP214), transcript variant X1, mRNA
one	211858	ZC3H12A	XM_006710925	PREDICTED: Homo sapiens zinc finger CCCH-type containing 12A (ZC3H12A), transcript variant X3, mRNA	Cytoplasm	other	CU694563	Pig DNA sequence from clone CH242-206F23 on chromosome X, complete sequence
one	211871	MGST1	NM_145791	Homo sapiens microsomal glutathione S-transferase 1 (MGST1), transcript variant 3, mRNA	Cytoplasm	enzyme	AK346900	Sus scrofa mRNA, clone:MLN010071H04, expressed in mesenteric lymph nodes
one	211907	ZIC4	NM_032153	Homo sapiens Zic family member 4 (ZIC4), transcript variant 3, mRNA	Nucleus	other	XM_005654028	PREDICTED: Sus scrofa Zic family member 4 (ZIC4), mRNA
one	211947	FBLL1	NR_024356	Homo sapiens fibrillarin-like 1 (FBLL1), non-coding RNA	Other	other	XM_003134071	PREDICTED: Sus scrofa rRNA/tRNA 2-O-methyltransferase fibrillarin-like protein 1-like (LOC100512568), mRNA
one	211990	ARF6	NM_001663	Homo sapiens ADP-ribosylation factor 6 (ARF6), mRNA	Plasma Membrane	transporter	XM_005659940	PREDICTED: Sus scrofa ADP-ribosylation factor 6 (ARF6), transcript variant X2, mRNA
one	212002		AP001816	Homo sapiens genomic DNA, chromosome 4q22-q24, clone:563D14, complete sequence			XM_005666962	PREDICTED: Sus scrofa uncharacterized LOC100511337 (LOC100511337), mRNA
one	212449	NRXN1	XM_006712143	PREDICTED: Homo sapiens neurexin 1 (NRXN1), transcript variant X13, mRNA	Plasma Membrane	transporter	AK393309	Sus scrofa mRNA, clone: KDN010034G05, expressed in kidney
one	212549	MAPT	XM_006725275	PREDICTED: Homo sapiens microtubule-associated protein tau (MAPT), transcript variant X14, mRNA	Plasma Membrane	other	L36913	Pig microsatellite DNA (CA repeat)
one	212626	EPHA4	BC016981	Homo sapiens EPH receptor A4, mRNA (cDNA clone IMAGE:4183576)	Plasma Membrane	kinase	CU914589	Pig DNA sequence from clone CH242-39A20 on chromosome X, complete sequence
one	212711	CXCL14	NM_004887	Homo sapiens chemokine (C-X-C motif) ligand 14 (CXCL14), mRNA	Extracellular Space	cytokine	NM_001244128	Sus scrofa chemokine (C-X-C motif) ligand 14 (CXCL14), mRNA >gij 115548575 dbj AK231559,1 Sus scrofa mRNA, clone:ITT010094B03, expressed in intestine
one	212743	BAX	NM_138761	Homo sapiens BCL2-associated X protein (BAX), transcript variant alpha, mRNA	Cytoplasm	transporter	XM_003127290	PREDICTED: Sus scrofa BCL2-associated X protein (BAX), transcript variant X1, mRNA
one	212766	C16orf46	XM_005255792	PREDICTED: Homo sapiens chromosome 16 open reading frame 46 (C16orf46), transcript variant X3, mRNA	Other	other	AK397877	Sus scrofa mRNA, clone: TCH010015F04, expressed in trachea
one	212799	SUV420H2	XM_006723443	PREDICTED: Homo sapiens suppressor of variegation 4-20 homolog 2 (Drosophila) (SUV420H2), transcript variant X3, mRNA	Nucleus	enzyme	AC092478	Sus scrofa clone RP44-360A14, complete sequence

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one	213053	CLCN5	NG_007159	Homo sapiens chloride channel, voltage-sensitive 5 (CLCN5), RefSeqGene on chromosome X			CU207271	Pig DNA sequence from clone CH242-214N22 on chromosome X, complete sequence
one	213204	BAIAP2L2	XM_005261751	PREDICTED: Homo sapiens BAI1-associated protein 2-like 2 (BAIAP2L2), transcript variant X1, mRNA	Cytoplasm	other	XM_003126055	PREDICTED: Sus scrofa brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 2-like (LOC100515261), mRNA
one	213216	DIS3L2	NR_046476	Homo sapiens DIS3 like 3-5 exoribonuclease 2 (DIS3L2), transcript variant 4, long non-coding RNA	Cytoplasm	enzyme	NM_001195333	Sus scrofa DIS3 mitotic control homolog (S, cerevisiae)-like 2 (DIS3L2), mRNA >gi 285818457 gb GU373702.1 Sus scrofa DIS3 mitotic control-like protein (DIS3L2) mRNA, complete cds
one	213237		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AK344941	Sus scrofa mRNA, clone:ITT010019A12, expressed in small intestine
one	213286	CKS1B	BC070320	Homo sapiens CDC28 protein kinase regulatory subunit 1B, mRNA (cDNA clone MGC:88323 IMAGE:6494754), complete cds	Other	kinase	XM_005663313	PREDICTED: Sus scrofa CDC28 protein kinase regulatory subunit 1B (CKS1B), transcript variant X1, mRNA
one	213312	HSBP1	NM_001537	Homo sapiens heat shock factor binding protein 1 (HSBP1), mRNA	Nucleus	transcription regulator	NM_001097485	Sus scrofa heat shock factor binding protein 1 (HSBP1), mRNA >gi 117661225 gb DQ629179.1 Sus scrofa HSBP1 (HSBP1) mRNA, complete cds
one	213334	KIF4B	AK302388	Homo sapiens cDNA FLJ61467 complete cds, highly similar to Chromosome-associated kinesin KIF4A	Other	other	XM_005657819	PREDICTED: Sus scrofa kinesin family member 4A (KIF4A), transcript variant X2, mRNA
one	213396	ANKRD22	NM_144590	Homo sapiens ankyrin repeat domain 22 (ANKRD22), mRNA	Nucleus	transcription regulator	XM_001928460	PREDICTED: Sus scrofa ankyrin repeat domain 22 (ANKRD22), mRNA
one	213421	LAS1L	XR_430522	PREDICTED: Homo sapiens LAS1-like (S, cerevisiae) (LAS1L), transcript variant X9, misc_RNA	Nucleus	other	AK230998	Sus scrofa mRNA, clone:AMP010078H12, expressed in alveolar macrophage
one	213671	FAM63A	AL590133	Human DNA sequence from clone RP11-316M1 on chromosome 1, complete sequence			XM_005663484	PREDICTED: Sus scrofa family with sequence similarity 63, member A (FAM63A), transcript variant X3, mRNA
one	214054	DVL2	XM_005256502	PREDICTED: Homo sapiens dishevelled segment polarity protein 2 (DVL2), transcript variant X1, mRNA	Cytoplasm	other	XM_005655282	PREDICTED: Sus scrofa dishevelled segment polarity protein 2 (DVL2), transcript variant X3, mRNA
one	214582	NEFH	AK302660	Homo sapiens cDNA FLJ54495 complete cds, highly similar to Neurofilament triplet H protein	Cytoplasm	other	XM_005670783	PREDICTED: Sus scrofa neurofilament, heavy polypeptide (NEFH), transcript variant X7, mRNA
one	214773		FM206294	Cloning vector pchilGHG1			FP565513	Pig DNA sequence from clone CH242-272E19 on chromosome 1, complete sequence

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one	216477	MYBPC3	NG_007667	Homo sapiens myosin binding protein C, cardiac (MYBPC3), RefSeqGene (LRG_386) on chromosome 11	Cytoplasm	other	AK392995	Sus scrofa mRNA, clone: ITT010061A03, expressed in intestine
one	217428	ADAMTSL1	BX640951	Homo sapiens mRNA; cDNA DKFZp686L03130 (from clone DKFZp686L03130)	Extracellular Space	other	CU372903	Pig DNA sequence from clone CH242-502111 on chromosome 7, complete sequence
one	217486		AC016732	Homo sapiens BAC clone RP11-389E16 from 2, complete sequence			CU467593	Pig DNA sequence from clone CH242-490O3 on chromosome X, complete sequence
one	217726	SLC39A4	XM_006716599	PREDICTED: Homo sapiens solute carrier family 39 (zinc transporter), member 4 (SLC39A4), transcript variant X1, mRNA	Plasma Membrane	transporter	XM_001925360	PREDICTED: Sus scrofa solute carrier family 39 (zinc transporter), member 4 (SLC39A4), mRNA
one	217801	SMG6	NG_033980	Homo sapiens SMG6 nonsense mediated mRNA decay factor (SMG6), RefSeqGene on chromosome 17			XM_005656879	PREDICTED: Sus scrofa fructosamine 3 kinase related protein (FN3KRP), transcript variant X3, mRNA
one	218134	TPM2	NG_011620	Homo sapiens tropomyosin 2 (beta) (TPM2), RefSeqGene on chromosome 9	Other	other	XR_301349	PREDICTED: Sus scrofa tropomyosin 2 (beta) (TPM2), transcript variant X3, misc_RNA
one	218206	RIC8A	XM_006718270	PREDICTED: Homo sapiens RIC8 guanine nucleotide exchange factor A (RIC8A), transcript variant X2, mRNA	Cytoplasm	other	XM_003124225	PREDICTED: Sus scrofa RIC8 guanine nucleotide exchange factor A (RIC8A), transcript variant 1, mRNA
one	218349	TRAF3IP3	XM_005273279	PREDICTED: Homo sapiens TRAF3 interacting protein 3 (TRAF3IP3), transcript variant X6, mRNA	Other	other	AK400031	Sus scrofa mRNA, clone: HTMT10133F01, expressed in hypothalamus
one	218446	MFSD2A	NM_032793	Homo sapiens major facilitator superfamily domain containing 2A (MFSD2A), transcript variant 2, mRNA	Other	other	XM_005656087	PREDICTED: Sus scrofa major facilitator superfamily domain containing 2A (MFSD2A), transcript variant X2, mRNA
one	218494	ENY2	NR_036472	Homo sapiens enhancer of yellow 2 homolog (Drosophila) (ENY2), transcript variant 4, non-coding RNA	Nucleus	transcription regulator	XM_003481358	PREDICTED: Sus scrofa enhancer of yellow 2 transcription factor homolog (LOC100739513), transcript variant X2, mRNA
one	218555	NKAIN1	NM_024522	Homo sapiens Na ⁺ /K ⁺ transporting ATPase interacting 1 (NKAIN1), mRNA	Other	other	XM_003127748	PREDICTED: Sus scrofa Na ⁺ /K ⁺ transporting ATPase interacting 1 (NKAIN1), mRNA
one	218662	GLCCI1	XM_006715641	PREDICTED: Homo sapiens glucocorticoid induced transcript 1 (GLCCI1), transcript variant X4, mRNA	Cytoplasm	other	XM_005667636	PREDICTED: Sus scrofa glucocorticoid induced transcript 1 (GLCCI1), transcript variant X2, mRNA
one	218813	C14H4orf27	NR_003920	Homo sapiens chromosome 4 open reading frame 27 pseudogene (LOC389705), non-coding RNA	Other	other	XM_005670496	PREDICTED: Sus scrofa chromosome 14 open reading frame, human C4orf27 (C14H4orf27), mRNA
one	219045		NG_027992	Homo sapiens ribonucleotide reductase M1 (RRM1), RefSeqGene on chromosome 11			AK351072	Sus scrofa mRNA, clone:TCH010089A01, expressed in trachea

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one	219047	SEC31B	AK093637	Homo sapiens cDNA FLJ36318 fis, clone THYMU2005356, highly similar to Secretory pathway component Sec31B-1	Other	other	XM_003125587	PREDICTED: Sus scrofa SEC31 homolog B (S, cerevisiae) (SEC31B), mRNA
one	219070	PHLPP1	NG_031923	Homo sapiens PH domain and leucine rich repeat protein phosphatase 1 (PHLPP1), RefSeqGene on chromosome 18	Cytoplasm	enzyme	XM_001925030	PREDICTED: Sus scrofa PH domain and leucine rich repeat protein phosphatase 1 (PHLPP1), mRNA
one	219117	ZBTB44	NM_014155	Homo sapiens zinc finger and BTB domain containing 44 (ZBTB44), mRNA	Other	other	XM_003130079	PREDICTED: Sus scrofa zinc finger and BTB domain containing 44 (ZBTB44), transcript variant X1, mRNA
one	219395	SLC25A37	AF223466	Homo sapiens HT015 protein (HT015) mRNA, complete cds	Cytoplasm	other	XM_001929122	PREDICTED: Sus scrofa solute carrier family 25 (mitochondrial iron transporter), member 37 (SLC25A37), mRNA
one	219417	EPYC	U59111	Human dermatan sulfate proteoglycan 3 (DSPG3) mRNA, complete cds	Extracellular Space	other	XM_005664272	PREDICTED: Sus scrofa epiphycan (EPYC), mRNA
one	219429	CREB5	XM_005249906	PREDICTED: Homo sapiens cAMP responsive element binding protein 5 (CREB5), transcript variant X1, mRNA	Nucleus	transcription regulator	AC097586	Sus scrofa clone RP44-394E19, complete sequence
one	219741	RGS13	NM_002927	Homo sapiens regulator of G-protein signaling 13 (RGS13), transcript variant 1, mRNA	Nucleus	other	CU896538	Pig DNA sequence from clone CH242-498B6 on chromosome 2, complete sequence
one	220129		FM206294	Cloning vector pchiIGHG1			XM_005661152	PREDICTED: Sus scrofa 39S ribosomal protein L55, mitochondrial-like (LOC102167055), transcript variant X6, mRNA
one	220487	MAGOHB	FM206294	Cloning vector pchiIGHG1			XM_003126476	PREDICTED: Sus scrofa mago-nashi homolog B (Drosophila) (MAGOHB), mRNA
two	100065	ATP5A1	NM_001257335	Homo sapiens ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle (ATP5A1), transcript variant 5, mRNA	Cytoplasm	transporter	AK398493	Sus scrofa mRNA, clone: THY010106H11, expressed in thymus
two	100234	CEBPZ	AK312322	Homo sapiens cDNA, FLJ92633, highly similar to Homo sapiens CCAAT-box-binding transcription factor (CBF2), mRNA	Nucleus	other	XM_005662627	PREDICTED: Sus scrofa CCAAT/enhancer binding protein (C/EBP), zeta (CEBPZ), transcript variant X4, mRNA
two	100292	BZW2	XM_006715708	PREDICTED: Homo sapiens basic leucine zipper and W2 domains 2 (BZW2), transcript variant X3, mRNA	Cytoplasm	translation regulator	AK399049	Sus scrofa mRNA, clone: OVRM10078B11, expressed in ovary
two	100313	YBX3	NM_003651	Homo sapiens Y box binding protein 3 (YBX3), transcript variant 1, mRNA	Nucleus	transcription regulator	XM_003126475	PREDICTED: Sus scrofa Y box binding protein 3 (YBX3), transcript variant X1, mRNA

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two	100314	SLC16A10	NM_018593	Homo sapiens solute carrier family 16 (aromatic amino acid transporter), member 10 (SLC16A10), mRNA	Plasma Membrane	transporter	XM_003361659	PREDICTED: Sus scrofa monocarboxylate transporter 10-like (LOC100627081), mRNA
two	100433	FAM220A	BC140712	Homo sapiens hypothetical protein LOC84792, mRNA (cDNA clone MGC:176389 IMAGE:9021580), complete cds	Other	other	CU041286	Pig DNA sequence from clone CH242-56D10 on chromosome 1, complete sequence
two	100554	JUP	NG_009090	Homo sapiens junction plakoglobin (JUP), RefSeqGene on chromosome 17			XM_003482982	PREDICTED: Sus scrofa eukaryotic translation initiation factor 1-like (LOC100736981), mRNA
two	100566	PFKM	U24183	Human phosphofructokinase (PFKM) mRNA, complete cds	Cytoplasm	kinase	AK349281	Sus scrofa mRNA, clone:PTG010037F10, expressed in pituitary gland
two	100609	PRR13	BC066943	Homo sapiens proline rich 13, mRNA (cDNA clone MGC:87320 IMAGE:4817871), complete cds	Nucleus	other	XM_005652519	PREDICTED: Sus scrofa proline-rich protein 13 (LOC100517160), transcript variant X3, mRNA
two	100617	WTAP	HQ447554	Synthetic construct Homo sapiens clone IMAGE:100070893; CCSB014864_01 Wilms tumor 1 associated protein (WTAP) gene, encodes complete protein	Nucleus	other	XM_005659114	PREDICTED: Sus scrofa Wilms tumor 1 associated protein (WTAP), transcript variant X1, mRNA
two	100644	CISD1	NM_018464	Homo sapiens CDGSH iron sulfur domain 1 (CISD1), mRNA	Cytoplasm	other	AK343385	Sus scrofa mRNA, clone:ADR010054F06, expressed in adrenal gland
two	100797	RBM15	AB209680	Homo sapiens mRNA for RNA binding motif protein 15 variant protein	Nucleus	other	XM_001929377	PREDICTED: Sus scrofa RNA binding motif protein 15 (RBM15), transcript variant X1, mRNA
two	100801	LOC102724163	XR_433299	PREDICTED: Homo sapiens uncharacterized LOC102724163 (LOC102724163), ncRNA	Other	other	XR_299987	PREDICTED: Sus scrofa uncharacterized LOC102161033 (LOC102161033), misc_RNA
two	100811	HERPUD1	AK223233	Homo sapiens mRNA for homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1 variant, clone: STM01396	Cytoplasm	other	AK390218	Sus scrofa mRNA, clone: BFLT10039E12, expressed in brain (frontal lobe)
two	101010	NDUFV1	AB590249	Synthetic construct DNA, clone: pFN21AB8241, Homo sapiens NDUFV1 gene for NADH dehydrogenase (ubiquinone) flavoprotein 1, 51kDa, without stop codon, in Flexi system			XM_003122439	PREDICTED: Sus scrofa NADH dehydrogenase (ubiquinone) flavoprotein 1, 51kDa (NDUFV1), transcript variant 2, mRNA
two	101113	ERGIC1	XM_006714892	PREDICTED: Homo sapiens endoplasmic reticulum-golgi intermediate compartment (ERGIC) 1 (ERGIC1), transcript variant X1, mRNA	Cytoplasm	other	XM_003134052	PREDICTED: Sus scrofa endoplasmic reticulum-golgi intermediate compartment (ERGIC) 1 (ERGIC1), mRNA

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two	101114	TXN2	XM_005261508	PREDICTED: Homo sapiens thioredoxin 2 (TXN2), transcript variant X1, mRNA	Cytoplasm	enzyme	AK393937	Sus scrofa mRNA, clone: LNG010103D07, expressed in lung
two	101118	SUGP2	NM_014884	Homo sapiens SURP and G patch domain containing 2 (SUGP2), transcript variant 2, mRNA	Nucleus	other	XM_003123545	PREDICTED: Sus scrofa SURP and G patch domain containing 2 (SUGP2), transcript variant X1, mRNA
two	101130		AC013437	Homo sapiens BAC clone RP11-190J23 from 2, complete sequence			KF569218	Sus scrofa breed DLY mitochondrion, complete genome
two	101131	UBE2D3	XM_006714298	PREDICTED: Homo sapiens ubiquitin-conjugating enzyme E2D 3 (UBE2D3), transcript variant X8, mRNA	Cytoplasm	enzyme	XM_005656550	PREDICTED: Sus scrofa ubiquitin-conjugating enzyme E2D 3 (UBE2D3), transcript variant X2, mRNA
two	101141	SUMO1	NM_003352	Homo sapiens small ubiquitin-like modifier 1 (SUMO1), transcript variant 1, mRNA	Nucleus	enzyme	AK392044	Sus scrofa mRNA, clone: HTMT10046C11, expressed in hypothalamus
two	101142	CALM1	NM_001743	Homo sapiens calmodulin 2 (phosphorylase kinase, delta) (CALM2), mRNA	Cytoplasm	other	XM_003125163	PREDICTED: Sus scrofa calmodulin-like (LOC100522926), mRNA
two	101156	EIF4G3	NM_003760	Homo sapiens eukaryotic translation initiation factor 4 gamma, 3 (EIF4G3), transcript variant 3, mRNA	Cytoplasm	translation regulator	XM_005665087	PREDICTED: Sus scrofa eukaryotic translation initiation factor 4 gamma, 3 (EIF4G3), mRNA
two	101181	SRSF6	NG_029906	Homo sapiens serine/arginine-rich splicing factor 6 (SRSF6), RefSeqGene on chromosome 20	Nucleus	other	AK394817	Sus scrofa mRNA, clone: OVR010026A09, expressed in ovary
two	101236	YBX1	XM_005270904	PREDICTED: Homo sapiens Y box binding protein 1 (YBX1), transcript variant X1, mRNA	Nucleus	transcription regulator	XM_003356500	PREDICTED: Sus scrofa Y box binding protein 1 (YBX1), mRNA
two	101276	VAMP4	XR_426805	PREDICTED: Homo sapiens vesicle-associated membrane protein 4 (VAMP4), transcript variant X1, misc_RNA	Cytoplasm	other	AK395657	Sus scrofa mRNA, clone: OVRT10043G11, expressed in ovary
two	101282	RAB11A	NM_001206836	Homo sapiens RAB11A, member RAS oncogene family (RAB11A), transcript variant 2, mRNA	Cytoplasm	enzyme	AK391570	Sus scrofa mRNA, clone: HTMT10001H06, expressed in hypothalamus
two	101332	HMGB1	EU012027	Homo sapiens high-mobility group box 1 (HMGB1) gene, complete cds	Nucleus	other	CU062617	Pig DNA sequence from clone CH242-96H3 on chromosome 11, complete sequence
two	101390	HNRNPD	NG_029103	Homo sapiens heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding protein 1, 37kDa) (HNRNPD), RefSeqGene on chromosome 4	Nucleus	transcription regulator	XM_005653622	PREDICTED: Sus scrofa heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding protein 1, 37kDa) (HNRNPD), mRNA
two	101474	RASAL2	NM_170692	Homo sapiens RAS protein activator like 2 (RASAL2), transcript variant 2, mRNA	Extracellular Space	other	XM_005667784	PREDICTED: Sus scrofa chromosome alignment-maintaining phosphoprotein 1-like (LOC100523082), mRNA

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two	101589	SEC24D	XM_005263379	PREDICTED: Homo sapiens SEC24 family member D (SEC24D), transcript variant X2, mRNA	Cytoplasm	transporter	XM_003482451	PREDICTED: Sus scrofa protein transport protein Sec24D-like (LOC100739491), mRNA
two	101662	CREM	XM_006717385	PREDICTED: Homo sapiens cAMP responsive element modulator (CREM), transcript variant X8, mRNA	Nucleus	transcription regulator	XM_003482833	PREDICTED: Sus scrofa cAMP responsive element modulator (CREM), transcript variant X9, mRNA
two	101751	C8A	NM_000562	Homo sapiens complement component 8, alpha polypeptide (C8A), mRNA	Extracellular Space	other	NM_001097450	Sus scrofa complement component 8, alpha polypeptide (C8A), mRNA >gi 86604376 gb DQ333200.1 Sus scrofa complement component C8A mRNA, complete cds
two	101769	PSMD5	BC014478	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 5, mRNA (cDNA clone MGC:23145 IMAGE:4878087), complete cds	Other	other	XM_003353629	PREDICTED: Sus scrofa proteasome (prosome, macropain) 26S subunit, non-ATPase, 5 (PSMD5), mRNA
two	101850	KLF10	NG_033271	Homo sapiens Kruppel-like factor 10 (KLF10), RefSeqGene on chromosome 8	Nucleus	transcription regulator	XM_005658320	PREDICTED: Sus scrofa Krueppel-like factor 10-like (LOC100736716), transcript variant X2, mRNA
two	101961	UBE2N	BC108704	Homo sapiens ubiquitin-conjugating enzyme E2N (UBC13 homolog, yeast), mRNA (cDNA clone MGC:131857 IMAGE:6503770), complete cds	Cytoplasm	enzyme	AK231244	Sus scrofa mRNA, clone:ITT010022H04, expressed in intestine
two	101985	LACTB2	NM_016027	Homo sapiens lactamase, beta 2 (LACTB2), mRNA	Cytoplasm	other	AK389783	Sus scrofa mRNA, clone: AMP010070E05, expressed in alveolar macrophage
two	102050	DMXL2	XM_005254256	PREDICTED: Homo sapiens Dmx-like 2 (DMXL2), transcript variant X2, mRNA	Cytoplasm	other	XM_005652691	PREDICTED: Sus scrofa Dmx-like 2 (DMXL2), mRNA
two	102072	UFC1	NM_016406	Homo sapiens ubiquitin-fold modifier conjugating enzyme 1 (UFC1), mRNA	Cytoplasm	enzyme	XM_001927714	PREDICTED: Sus scrofa ubiquitin-fold modifier conjugating enzyme 1 (UFC1), transcript variant 1, mRNA
two	102075	TES	XM_005250258	PREDICTED: Homo sapiens testis derived transcript (3 LIM domains) (TES), transcript variant X1, mRNA	Plasma Membrane	other	AK396160	Sus scrofa mRNA, clone: PBL010090A05, expressed in peripheral blood lymphocytes
two	102094	CDK8	XM_005266216	PREDICTED: Homo sapiens cyclin-dependent kinase 8 (CDK8), transcript variant X2, mRNA	Nucleus	kinase	AK396243	Sus scrofa mRNA, clone: PCT010020E02, expressed in placenta
two	102110	TMEM167A	NM_174909	Homo sapiens transmembrane protein 167A (TMEM167A), mRNA	Other	other	XM_003123759	PREDICTED: Sus scrofa transmembrane protein 167A (TMEM167A), mRNA
two	102120	ITGA1	AC025180	Homo sapiens chromosome 5 clone CTD-2175A23, complete sequence	Plasma Membrane	other	CU550726	Pig DNA sequence from clone CH242-445N23 on chromosome X, complete sequence
two	102336	AEN	XM_006720644	PREDICTED: Homo sapiens apoptosis enhancing nuclease (AEN), transcript variant X3, mRNA	Nucleus	enzyme	XM_005660033	PREDICTED: Sus scrofa apoptosis enhancing nuclease (AEN), transcript variant X4, mRNA

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two	102379	TSPAN2	NM_005725	Homo sapiens tetraspanin 2 (TSPAN2), mRNA	Extracellular Space	other	AK230815	Sus scrofa mRNA, clone:AMP010048B02, expressed in alveolar macrophage
two	102442	ATE1	AC025947	Homo sapiens chromosome 10 clone RP11-78A18, complete sequence			XM_005671512	PREDICTED: Sus scrofa arginyltransferase 1 (ATE1), transcript variant X4, mRNA
two	102467	EYS	NG_023443	Homo sapiens eyes shut homolog (Drosophila) (EYS), RefSeqGene on chromosome 6			XM_005656665	PREDICTED: Sus scrofa zinc finger CCCH-type containing 11A (ZC3H11A), transcript variant X16, mRNA
two	102511	PLXDC2	NM_032812	Homo sapiens plexin domain containing 2 (PLXDC2), transcript variant 1, mRNA	Extracellular Space	other	CU633583	Pig DNA sequence from clone CH242-385N7 on chromosome 18, complete sequence
two	102541	RAB5A	NM_004162	Homo sapiens RAB5A, member RAS oncogene family (RAB5A), mRNA	Cytoplasm	enzyme	XM_005669293	PREDICTED: Sus scrofa protein phosphatase 2C-like domain containing 1 (PP2D1), mRNA
two	102574	C7orf73	NM_001130929	Homo sapiens chromosome 7 open reading frame 73 (C7orf73), mRNA	Other	other	XM_005673131	PREDICTED: Sus scrofa uncharacterized LOC100522408 (LOC100522408), mRNA
two	102755	ID2	BC030639	Homo sapiens inhibitor of DNA binding 2, dominant negative helix-loop-helix protein, mRNA (cDNA clone MGC:26389 IMAGE:4820416), complete cds	Nucleus	transcription regulator	AK392405	Sus scrofa mRNA, clone: HTMT10071D09, expressed in hypothalamus
two	102813	ANGPTL3	NM_014495	Homo sapiens angiopoietin-like 3 (ANGPTL3), mRNA	Extracellular Space	growth factor	XM_005665381	PREDICTED: Sus scrofa angiopoietin-like 3 (ANGPTL3), transcript variant X1, mRNA
two	102820		AL160037	Human DNA sequence from clone RP11-289G11 on chromosome 6, complete sequence			CU694544	Pig DNA sequence from clone CH242-123C16 on chromosome 13, complete sequence
two	102837	GATM	AK098055	Homo sapiens cDNA FLJ40736 fis, clone TKIDN2003597, highly similar to GLYCINE AMIDINOTRANSFERASE PRECURSOR (EC 2,1,4,1)	Cytoplasm	enzyme	NM_001128442	Sus scrofa glycine amidinotransferase (L-arginine:glycine amidinotransferase) (GATM), mRNA >gi 154622934 gb EF612462.1 Sus scrofa glycine amidinotransferase (GATM) mRNA, complete cds
two	102877	SEC23A	XM_005267262	PREDICTED: Homo sapiens Sec23 homolog A (S, cerevisiae) (SEC23A), transcript variant X1, mRNA	Cytoplasm	transporter	XM_005666191	PREDICTED: Sus scrofa Sec23 homolog A (S, cerevisiae) (SEC23A), transcript variant X2, mRNA
two	102896	NR1I2	AF084645	Homo sapiens orphan nuclear receptor (PAR1) mRNA, complete cds	Nucleus	ligand-dependent nuclear receptor	XM_005670184	PREDICTED: Sus scrofa nuclear receptor subfamily 1, group I, member 2 (NR1I2), transcript variant X2, mRNA
two	102910	CYP3A4	J04449	Homo sapiens (clone NF 10) cytochrome P-450 nifedipine oxidase mRNA, complete cds	Cytoplasm	enzyme	AK232311	Sus scrofa mRNA, clone:LVR010017F03, expressed in liver

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two	102946	RNF14	XM_005268543	PREDICTED: Homo sapiens ring finger protein 14 (RNF14), transcript variant X8, mRNA	Other	transcription regulator	XM_005661775	PREDICTED: Sus scrofa ring finger protein 14 (RNF14), transcript variant X5, mRNA
two	102980	APOC3	AC113346	Homo sapiens chromosome 5 clone CTD-2532K18, complete sequence			XM_005667374	PREDICTED: Sus scrofa apolipoprotein C-III (APOC3), transcript variant X3, mRNA
two	102984	RREB1	XM_006715161	PREDICTED: Homo sapiens ras responsive element binding protein 1 (RREB1), transcript variant X11, mRNA	Nucleus	transcription regulator	XM_005665554	PREDICTED: Sus scrofa ras responsive element binding protein 1 (RREB1), transcript variant X8, mRNA
two	103012		AK302323	Homo sapiens cDNA FLJ60954 complete cds			XM_003362218	PREDICTED: Sus scrofa meiosis-specific with OB domain-containing protein-like (LOC100624598), partial mRNA
two	103034		AK126410	Homo sapiens cDNA FLJ44446 fis, clone UTERU2021380			AY609741	Sus scrofa clone Clu_28644,scr,msk,p1,Contig1, mRNA sequence
two	103058	ACOX1	NM_001185039	Homo sapiens acyl-CoA oxidase 1, palmitoyl (ACOX1), transcript variant 3, mRNA	Cytoplasm	enzyme	AK389180	Sus scrofa mRNA, clone: ADR010004B03, expressed in adrenal gland
two	103102	MAN1C1	NM_020379	Homo sapiens mannosidase, alpha, class 1C, member 1 (MAN1C1), transcript variant 1, mRNA	Cytoplasm	enzyme	AK352008	Sus scrofa mRNA, clone:THY010123G10, expressed in thymus
two	103149	KDELR2	NM_001100603	Homo sapiens KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 2 (KDELR2), transcript variant 2, mRNA	Cytoplasm	other	AK232801	Sus scrofa mRNA, clone:LVRM10029B04, expressed in liver
two	103154	LPIN2	NG_007507	Homo sapiens lipin 2 (LPIN2), RefSeqGene (LRG_174) on chromosome 18			AK346689	Sus scrofa mRNA, clone:MLN010038B06, expressed in mesenteric lymph nodes
two	103170	PSMB1	NM_002793	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 1 (PSMB1), mRNA	Cytoplasm	peptidase	AK398730	Sus scrofa mRNA, clone: ADR010001H05, expressed in adrenal gland
two	103190	IRX5	NG_032773	Homo sapiens iroquois homeobox 5 (IRX5), RefSeqGene on chromosome 16	Nucleus	transcription regulator	XR_300012	PREDICTED: Sus scrofa iroquois-class homeodomain protein IRX-5-like (LOC100620172), misc_RNA
two	103225		BC018848	Homo sapiens cDNA clone IMAGE:3141182, **** WARNING: chimeric clone ****			AY609791	Sus scrofa clone Clu_3117,scr,msk,p1,Contig2, mRNA sequence
two	103245	CFI	XM_006714209	PREDICTED: Homo sapiens complement factor I (CFI), transcript variant X3, mRNA	Extracellular Space	peptidase	XM_005656546	PREDICTED: Sus scrofa complement factor I (CFI), mRNA
two	103255		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			XR_302385	PREDICTED: Sus scrofa uncharacterized LOC102163220 (LOC102163220), misc_RNA

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two	103268	CALD1	BX648808	Homo sapiens mRNA; cDNA DKFZp686A06190 (from clone DKFZp686A06190)	Cytoplasm	other	XM_005673150	PREDICTED: Sus scrofa caldesmon 1 (CALD1), transcript variant X9, mRNA
two	103322	EXOSC8	AF025438	Homo sapiens Opa-interacting protein OIP2 mRNA, partial cds	Nucleus	enzyme	XM_005668348	PREDICTED: Sus scrofa exosome component 8 (EXOSC8), mRNA
two	103329	MGEA5	XR_246060	PREDICTED: Homo sapiens meningioma expressed antigen 5 (hyaluronidase) (MGEA5), transcript variant X4, misc_RNA	Cytoplasm	enzyme	XM_003359345	PREDICTED: Sus scrofa meningioma expressed antigen 5 (hyaluronidase) (MGEA5), transcript variant X2, mRNA
two	103338	LTF	AF332168	Homo sapiens lactoferrin precursor, mRNA, complete cds	Extracellular Space	peptidase	XM_005669839	PREDICTED: Sus scrofa transferrin (TF), transcript variant X2, mRNA
two	103379	PLA2G4A	NG_012203	Homo sapiens phospholipase A2, group IVA (cytosolic, calcium-dependent) (PLA2G4A), RefSeqGene on chromosome 1	Cytoplasm	enzyme	XM_003130393	PREDICTED: Sus scrofa phospholipase A2, group IVA (cytosolic, calcium-dependent) (PLA2G4A), transcript variant X1, mRNA
two	103436		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AK233066	Sus scrofa mRNA, clone:LVRM10077B12, expressed in liver
two	103443	SLC25A36	XM_006713685	PREDICTED: Homo sapiens solute carrier family 25 (pyrimidine nucleotide carrier), member 36 (SLC25A36), transcript variant X3, mRNA	Cytoplasm	transporter	XM_005669901	PREDICTED: Sus scrofa solute carrier family 25 (pyrimidine nucleotide carrier), member 36 (SLC25A36), transcript variant X1, mRNA
two	103549	INSIG1	XM_005249543	PREDICTED: Homo sapiens insulin induced gene 1 (INSIG1), transcript variant X2, mRNA	Cytoplasm	other	NM_001244521	Sus scrofa insulin induced gene 1 (INSIG1), mRNA
two	103597	HOXC8	AB464581	Synthetic construct DNA, clone: pF1KB8908, Homo sapiens HOXC8 gene for homeobox C8, without stop codon, in Flexi system			XM_003133496	PREDICTED: Sus scrofa homeobox D8 (HOXD8), mRNA
two	103604	GAST	NM_000805	Homo sapiens gastrin (GAST), mRNA	Extracellular Space	other	XM_005668824	PREDICTED: Sus scrofa gastrin (GAST), transcript variant X2, mRNA
two	103606	C5	BC113738	Homo sapiens complement component 5, mRNA (cDNA clone MGC:142298 IMAGE:8322790), complete cds	Extracellular Space	cytokine	XR_131323	PREDICTED: Sus scrofa uncharacterized LOC100624386 (LOC100624386), misc_RNA
two	103698	PAX6	XM_005252958	PREDICTED: Homo sapiens paired box 6 (PAX6), transcript variant X5, mRNA	Nucleus	transcription regulator	XM_005661043	PREDICTED: Sus scrofa paired box 6 (PAX6), transcript variant X6, mRNA
two	103705	AIFM1	NM_001130847	Homo sapiens apoptosis-inducing factor, mitochondrion-associated, 1 (AIFM1), transcript variant 5, mRNA	Cytoplasm	enzyme	XM_003360440	PREDICTED: Sus scrofa apoptosis-inducing factor, mitochondrion-associated, 1 (AIFM1), transcript variant X3, mRNA
two	103718		HG506172	TPA: Homo sapiens RP11-649E7.5 gene for long non-coding RNA OTTHUMT00000410795.1, antisense			Y09537	Sus scrofa gene encoding beta-1,2-N-acetylglucosaminyltransferase II

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two	103795	RLN1	NM_006911	Homo sapiens relaxin 1 (RLN1), mRNA	Extracellular Space	other	AK395920	Sus scrofa mRNA, clone: OVRT10086G03, expressed in ovary
two	103838	UGT8	XM_006714303	PREDICTED: Homo sapiens UDP glycosyltransferase 8 (UGT8), transcript variant X2, mRNA	Cytoplasm	enzyme	XM_005653598	PREDICTED: Sus scrofa 2-hydroxyacylsphingosine 1-beta-galactosyltransferase-like (LOC100511825), partial mRNA
two	103874	MAP2K2	AK126446	Homo sapiens cDNA FLJ44482 fis, clone UTERU2033172, moderately similar to DUAL SPECIFICITY MITOGEN-ACTIVATED PROTEIN KINASE KINASE 2	Cytoplasm	kinase	NM_001244550	Sus scrofa mitogen-activated protein kinase kinase 2 (MAP2K2), mRNA
two	103892	HLA-A	NM_002116	Homo sapiens major histocompatibility complex, class I, A (HLA-A), transcript variant 1 (A*03:01:0:01 allele), mRNA	Plasma Membrane	other	EU432091	Sus scrofa MHC class I antigen (SLA-3) mRNA, SLA-3*0601 allele, complete cds
two	103895	SOX9	NG_012490	Homo sapiens SRY (sex determining region Y)-box 9 (SOX9), RefSeqGene on chromosome 17	Nucleus	transcription regulator	AM950279	Sus scrofa microsatellite DNA, locus S0892
two	103899	GLYR1	XM_005255640	PREDICTED: Homo sapiens glyoxylate reductase 1 homolog (Arabidopsis) (GLYR1), transcript variant X4, mRNA	Other	other	XM_003354620	PREDICTED: Sus scrofa glyoxylate reductase 1 homolog (Arabidopsis) (GLYR1), transcript variant 2, mRNA
two	103904		FM206294	Cloning vector pchilGHG1			AK348431	Sus scrofa mRNA, clone:OVRM10161G06, expressed in ovary
two	103975	FBP1	L10320	Human fructose-1,6-bisphosphatase homotetramer gene, complete cds	Cytoplasm	phosphatase	AK391160	Sus scrofa mRNA, clone: CLNT10088A08, expressed in colon
two	103980	MS4A1	AB590365	Synthetic construct DNA, clone: pFN21AE1366, Homo sapiens MS4A1 gene for membrane-spanning 4-domains, subfamily A, member 1, without stop codon, in Flexi system			NM_001243394	Sus scrofa membrane-spanning 4-domains, subfamily A, member 1 (MS4A1), mRNA
two	104034	IGFBP6	NM_002178	Homo sapiens insulin-like growth factor binding protein 6 (IGFBP6), mRNA	Extracellular Space	other	XM_005652513	PREDICTED: Sus scrofa insulin-like growth factor binding protein 6 (IGFBP6), transcript variant X1, mRNA
two	104062	MPO	HQ258645	Synthetic construct Homo sapiens clone IMAGE:100072675 myeloperoxidase (MPO), nuclear gene encoding mitochondrial protein (MPO) gene, encodes complete protein; nuclear gene for mitochondrial product	Cytoplasm	enzyme	XM_003131655	PREDICTED: Sus scrofa myeloperoxidase (MPO), mRNA
two	104066	IP6K2	XM_006713202	PREDICTED: Homo sapiens inositol hexakisphosphate kinase 2 (IP6K2), transcript variant X4, mRNA	Cytoplasm	kinase	XM_003132192	PREDICTED: Sus scrofa inositol hexakisphosphate kinase 2 (IP6K2), transcript variant X1, mRNA

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two	104074	IGFBP2	NM_000597	Homo sapiens insulin-like growth factor binding protein 2, 36kDa (IGFBP2), mRNA	Extracellular Space	other	NM_214003	Sus scrofa insulin-like growth factor binding protein 2, 36kDa (IGFBP2), mRNA >gi 4927688 gb AF120326,1 Sus scrofa insulin-like growth factor binding protein 2 mRNA, complete cds
two	104089	AK2	XR_246248	PREDICTED: Homo sapiens adenylate kinase 2 (AK2), transcript variant X7, misc_RNA	Cytoplasm	kinase	XM_003361576	PREDICTED: Sus scrofa adenylate kinase 2, mitochondrial-like (LOC100620859), transcript variant X2, mRNA
two	104116	GADD45G	NM_006705	Homo sapiens growth arrest and DNA-damage-inducible, gamma (GADD45G), mRNA	Nucleus	other	NM_001185129	Sus scrofa growth arrest and DNA-damage-inducible, gamma (GADD45G), mRNA >gi 289186820 gb GU386350,1 Sus scrofa growth arrest and DNA-damage-inducible gamma protein (GADD45G) mRNA, complete cds
two	104143	SDHB	NM_003000	Homo sapiens succinate dehydrogenase complex, subunit B, iron sulfur (lp) (SDHB), mRNA	Cytoplasm	enzyme	AK394980	Sus scrofa mRNA, clone: OVR010085E01, expressed in ovary
two	104169	BAG4	NM_001204878	Homo sapiens BCL2-associated athanogene 4 (BAG4), transcript variant 2, mRNA	Cytoplasm	other	XM_005671777	PREDICTED: Sus scrofa BCL2-associated athanogene 4 (BAG4), transcript variant X3, mRNA
two	104209	ACSL4	XM_006724635	PREDICTED: Homo sapiens acyl-CoA synthetase long-chain family member 4 (ACSL4), transcript variant X4, mRNA	Cytoplasm	enzyme	XM_005673823	PREDICTED: Sus scrofa acyl-CoA synthetase long-chain family member 4 (ACSL4), transcript variant X5, mRNA
two	104218	MGST3	NM_004528	Homo sapiens microsomal glutathione S-transferase 3 (MGST3), mRNA	Cytoplasm	enzyme	XM_005663147	PREDICTED: Sus scrofa microsomal glutathione S-transferase 3 (MGST3), transcript variant X1, mRNA
two	104231	GMFB	XM_006720118	PREDICTED: Homo sapiens glia maturation factor, beta (GMFB), transcript variant X2, mRNA	Cytoplasm	growth factor	XM_005674092	PREDICTED: Sus scrofa glia maturation factor, beta (GMFB), transcript variant X1, mRNA
two	104246	GLRX2	NM_197962	Homo sapiens glutaredoxin 2 (GLRX2), transcript variant 2, mRNA	Cytoplasm	enzyme	NM_001243717	Sus scrofa glutaredoxin 2 (GLRX2), mRNA
two	104265	DNTTIP1	AK314003	Homo sapiens cDNA, FLJ94657, Homo sapiens deoxynucleotidyltransferase, terminal, interactingprotein 1 (DNTTIP1), mRNA	Nucleus	ligand-dependent nuclear receptor	AY609796	Sus scrofa clone Clu_31539,scr,msk,p1,Contig1, mRNA sequence
two	104268	NUCB1	NM_006184	Homo sapiens nucleobindin 1 (NUCB1), mRNA	Cytoplasm	other	XM_005664698	PREDICTED: Sus scrofa nucleobindin 1 (NUCB1), transcript variant X2, mRNA
two	104273	SERF2	AL049976	Homo sapiens mRNA; cDNA DKFZp564B042 (from clone DKFZp564B042)	Other	other	AK392396	Sus scrofa mRNA, clone: HTMT10070F10, expressed in hypothalamus
two	104298	F2RL2	NM_004101	Homo sapiens coagulation factor II (thrombin) receptor-like 2 (F2RL2), transcript variant 1, mRNA	Plasma Membrane	G-protein coupled receptor	XM_003123711	PREDICTED: Sus scrofa coagulation factor II (thrombin) receptor-like 2 (F2RL2), mRNA

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two	104373	PLP2	NM_002668	Homo sapiens proteolipid protein 2 (colonic epithelium-enriched) (PLP2), mRNA	Cytoplasm	transporter	NM_001244435	Sus scrofa proteolipid protein 2 (colonic epithelium-enriched) (PLP2), mRNA
two	104381	PPIB	NM_000942	Homo sapiens peptidylprolyl isomerase B (cyclophilin B) (PPIB), mRNA >gi 211947966 gb EU794651.1 Homo sapiens epididymis secretory protein Li 39 (HEL-S-39) mRNA, complete cds	Cytoplasm	enzyme	AK392762	Sus scrofa mRNA, clone: HTMT10098E12, expressed in hypothalamus
two	104386	LSM2	AF182288	Homo sapiens U6 snRNA-associated Sm-like protein LSm2 mRNA, complete cds	Nucleus	other	AK346872	Sus scrofa mRNA, clone:MLN010067H09, expressed in mesenteric lymph nodes
two	104388	ACYP1	NM_001107	Homo sapiens acylphosphatase 1, erythrocyte (common) type (ACYP1), transcript variant 1, mRNA	Other	enzyme	NM_001190199	Sus scrofa acylphosphatase 1, erythrocyte (common) type (ACYP1), transcript variant 2, mRNA
two	104419	SFTPC	NM_001172410	Homo sapiens surfactant protein C (SFTPC), transcript variant 2, mRNA	Extracellular Space	other	AJ920267	Sus scrofa mRNA for surfactant protein C (SP-C gene), allele 78
two	104431	ERBB2	NR_110535	Homo sapiens v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2 (ERBB2), transcript variant 6, long non-coding RNA	Plasma Membrane	kinase	XM_005653925	PREDICTED: Sus scrofa v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2 (ERBB2), mRNA
two	104447	CUTA	NM_015921	Homo sapiens cutA divalent cation tolerance homolog (E. coli) (CUTA), transcript variant 2, mRNA	Cytoplasm	other	AK231998	Sus scrofa mRNA, clone:LNG010062F01, expressed in lung
two	104452	SIX1	NG_008231	Homo sapiens SIX homeobox 1 (SIX1), RefSeqGene on chromosome 14	Nucleus	transcription regulator	GU225953	Sus scrofa breed Meishan six homeobox 1 (Six1) gene, complete cds
two	104454	PTGER1	BC039034	Homo sapiens prostaglandin E receptor 1 (subtype EP1), 42kDa, mRNA (cDNA clone MGC:47749 IMAGE:5748278), complete cds	Plasma Membrane	G-protein coupled receptor	XM_003123373	PREDICTED: Sus scrofa prostaglandin E receptor 1 (subtype EP1), 42kDa (PTGER1), partial mRNA
two	104458	CHRM1	NM_000738	Homo sapiens cholinergic receptor, muscarinic 1 (CHRM1), mRNA >gi 18605808 gb BC022984.1 Homo sapiens cholinergic receptor, muscarinic 1, mRNA (cDNA clone MGC:30125 IMAGE:4931283), complete cds	Plasma Membrane	G-protein coupled receptor	NM_214034	Sus scrofa cholinergic receptor, muscarinic 1 (CHRM1), mRNA >gi 1863 emb X04413.1 Porcine mRNA for muscarinic acetylcholine receptor (mAChR)
two	104474	CSNK2B	NM_001320	Homo sapiens casein kinase 2, beta polypeptide (CSNK2B), transcript variant 1, mRNA	Cytoplasm	kinase	XM_005665790	PREDICTED: Sus scrofa casein kinase 2, beta polypeptide (CSNK2B), transcript variant X2, mRNA
two	104483	ENPP2	XM_006716587	PREDICTED: Homo sapiens ectonucleotide pyrophosphatase/phosphodiesterase 2 (ENPP2), transcript variant X4, mRNA	Plasma Membrane	enzyme	XM_003125509	PREDICTED: Sus scrofa ectonucleotide pyrophosphatase/phosphodiesterase 2 (ENPP2), transcript variant X2, mRNA

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two	104488	ERGIC3	CU679480	Synthetic construct Homo sapiens gateway clone IMAGE:100023404 3 read ERGIC3 mRNA			XM_003483944	PREDICTED: Sus scrofa endoplasmic reticulum-Golgi intermediate compartment protein 3-like (LOC100522714), transcript variant X1, mRNA
two	104506	BARX2	NM_003658	Homo sapiens BARX homeobox 2 (BARX2), mRNA	Nucleus	transcription regulator	XM_003130069	PREDICTED: Sus scrofa BARX homeobox 2 (BARX2), mRNA
two	104507	SNRPE	NM_003094	Homo sapiens small nuclear ribonucleoprotein polypeptide E (SNRPE), mRNA >gi 60688402 gb BC090951.1 Homo sapiens small nuclear ribonucleoprotein polypeptide E, mRNA (cDNA clone MGC:105067 IMAGE:5204266), complete cds	Nucleus	other	AK344769	Sus scrofa mRNA, clone:HTMT10039G05, expressed in hypothalamus
two	104548	TLX1	M62626	Human T lymphocyte homeobox protein mRNA, partial cds	Nucleus	transcription regulator	AK397749	Sus scrofa mRNA, clone: SPL010067B02, expressed in spleen
two	104550	GSTP1	BC010915	Homo sapiens glutathione S-transferase pi 1, mRNA (cDNA clone MGC:13474 IMAGE:3960700), complete cds	Cytoplasm	enzyme	XM_005660622	PREDICTED: Sus scrofa glutathione S-transferase pi 1 (GSTP1), mRNA
two	104554	ADCY4	NM_001198568	Homo sapiens adenylate cyclase 4 (ADCY4), transcript variant 3, mRNA	Plasma Membrane	enzyme	XM_001927556	PREDICTED: Sus scrofa adenylate cyclase 4 (ADCY4), mRNA
two	104623		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CU151846	Pig DNA sequence from clone CH242-183K23 on chromosome 4, complete sequence
two	104662		AC097448	Homo sapiens BAC clone CTD-2021K4 from 2, complete sequence			AY609706	Sus scrofa clone Clu_268408,scr,msk,p1,Contig2, mRNA sequence
two	104665	MRPL53	NM_053050	Homo sapiens mitochondrial ribosomal protein L53 (MRPL53), mRNA	Cytoplasm	other	XM_003124989	PREDICTED: Sus scrofa 39S ribosomal protein L53, mitochondrial-like (LOC100513008), mRNA
two	104706	RERE	XM_006710654	PREDICTED: Homo sapiens arginine-glutamic acid dipeptide (RE) repeats (RERE), transcript variant X5, mRNA	Nucleus	other	XM_005664969	PREDICTED: Sus scrofa arginine-glutamic acid dipeptide repeats protein-like (LOC100738649), mRNA
two	104712	RTN1	NG_029558	Homo sapiens reticulon 1 (RTN1), RefSeqGene on chromosome 14	Cytoplasm	other	AK399868	Sus scrofa mRNA, clone: HTMT10028C03, expressed in hypothalamus
two	104716	FOXG1	NM_005249	Homo sapiens forkhead box G1 (FOXG1), mRNA	Nucleus	transcription regulator	CU928845	Pig DNA sequence from clone CH242-521K21 on chromosome X, complete sequence
two	104722	YWHAB	NM_139323	Homo sapiens tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta (YWHAB), transcript variant 2, mRNA	Cytoplasm	transcription regulator	AK392687	Sus scrofa mRNA, clone: HTMT10094E12, expressed in hypothalamus

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two	104726	GPR158	AL355587	Human DNA sequence from clone RP11-561H23 on chromosome 10, complete sequence	Plasma Membrane	G-protein coupled receptor	XM_005668147	PREDICTED: Sus scrofa G protein-coupled receptor 158 (GPR158), mRNA
two	104756	WASF1	XM_006715595	PREDICTED: Homo sapiens WASF protein family, member 1 (WASF1), transcript variant X7, mRNA	Nucleus	other	AK400170	Sus scrofa mRNA, clone: BFLT10062A12, expressed in brain (frontal lobe)
two	104759	RPL22	NM_000983	Homo sapiens ribosomal protein L22 (RPL22), mRNA	Nucleus	other	AK392451	Sus scrofa mRNA, clone: HTMT10075D05, expressed in hypothalamus
two	104760	MARCKS	FO393415	Human DNA sequence from clone RP11-544L8 on chromosome 6, complete sequence			XM_003121373	PREDICTED: Sus scrofa myristoylated alanine-rich protein kinase C substrate (MARCKS), mRNA
two	104763	CRYAB	NM_001289808	Homo sapiens crystallin, alpha B (CRYAB), transcript variant 3, mRNA	Nucleus	other	AK391992	Sus scrofa mRNA, clone: HTMT10040F12, expressed in hypothalamus
two	104773	SLC25A20	NM_000387	Homo sapiens solute carrier family 25 (carnitine/acylcarnitine translocase), member 20 (SLC25A20), mRNA	Cytoplasm	transporter	XM_003483178	PREDICTED: Sus scrofa solute carrier family 25 (carnitine/acylcarnitine translocase), member 20 (SLC25A20), mRNA
two	104775		KF055298	Homo sapiens isolate CON_117_117_BC16 mitochondrion, complete genome			KF569218	Sus scrofa breed DLY mitochondrion, complete genome
two	104778	RSF1	XM_005274051	PREDICTED: Homo sapiens remodeling and spacing factor 1 (RSF1), transcript variant X1, mRNA	Nucleus	transcription regulator	XM_005667163	PREDICTED: Sus scrofa remodeling and spacing factor 1 (RSF1), transcript variant X1, mRNA
two	104790	TAC1	NM_013996	Homo sapiens tachykinin, precursor 1 (TAC1), transcript variant alpha, mRNA	Extracellular Space	other	XM_003357447	PREDICTED: Sus scrofa tachykinin, precursor 1 (TAC1), transcript variant X3, mRNA
two	104811	ACYP2	NM_138448	Homo sapiens acylphosphatase 2, muscle type (ACYP2), mRNA	Cytoplasm	enzyme	AK391873	Sus scrofa mRNA, clone: HTMT10029G10, expressed in hypothalamus
two	104815		BC011666	Homo sapiens cDNA clone IMAGE:4122527, **** WARNING: chimeric clone ****			AY609897	Sus scrofa clone Clu_39,scr,msk,p1,Contig3, mRNA sequence
two	104823		NG_009407	Homo sapiens succinate dehydrogenase complex, subunit D, integral membrane protein pseudogene 2 (SDHDP2) on chromosome 7			AK400044	Sus scrofa mRNA, clone: HTMT10138B11, expressed in hypothalamus
two	104851	SLC35D1	XM_006710480	PREDICTED: Homo sapiens solute carrier family 35 (UDP-GlcA/UDP-GalNAc transporter), member D1 (SLC35D1), transcript variant X3, mRNA	Cytoplasm	transporter	DQ529289	Sus scrofa solute carrier family 35 member D1 (SLC35D1) mRNA, partial cds
two	104853	HOXD8	NM_019558	Homo sapiens homeobox D8 (HOXD8), transcript variant 1, mRNA	Nucleus	transcription regulator	XM_003133496	PREDICTED: Sus scrofa homeobox D8 (HOXD8), mRNA

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two	104870	GLRB	NG_015823	Homo sapiens glycine receptor, beta (GLRB), RefSeqGene on chromosome 4	Plasma Membrane	ion channel	FP236342	Pig DNA sequence from clone CH242-421O6 on chromosome X, complete sequence
two	104878	NLGN1	XM_006713540	PREDICTED: Homo sapiens neuroligin 1 (NLGN1), transcript variant X8, mRNA	Plasma Membrane	enzyme	XM_003132537	PREDICTED: Sus scrofa neuroligin 1 (NLGN1), mRNA
two	104921	COPB1	NM_001144062	Homo sapiens coatomer protein complex, subunit beta 1 (COPB1), transcript variant 3, mRNA	Cytoplasm	transporter	AK389818	Sus scrofa mRNA, clone: AMP010083C06, expressed in alveolar macrophage
two	104948	NRXN1	XM_006712144	PREDICTED: Homo sapiens neurexin 1 (NRXN1), transcript variant X14, mRNA	Plasma Membrane	transporter	XM_003354828	PREDICTED: Sus scrofa neurexin-1-like (LOC100622083), transcript variant 1, partial mRNA
two	104967	TBC1D30	XM_006719301	PREDICTED: Homo sapiens TBC1 domain family, member 30 (TBC1D30), transcript variant X2, mRNA	Cytoplasm	other	XM_005663955	PREDICTED: Sus scrofa TBC1 domain family, member 30 (TBC1D30), mRNA
two	105235	RYBP	NM_012234	Homo sapiens RING1 and YY1 binding protein (RYBP), mRNA	Nucleus	transcription regulator	XM_005669728	PREDICTED: Sus scrofa RING1 and YY1 binding protein (RYBP), mRNA
two	105255	GRAMD4	XM_006724170	PREDICTED: Homo sapiens GRAM domain containing 4 (GRAMD4), transcript variant X8, mRNA	Other	other	XM_005663307	PREDICTED: Sus scrofa mex-3 RNA binding family member A (MEX3A), mRNA
two	105299	C17orf85	NM_001114118	Homo sapiens chromosome 17 open reading frame 85 (C17orf85), mRNA	Nucleus	other	AK348700	Sus scrofa mRNA, clone:PBL01001A02, expressed in peripheral blood mononuclear cells
two	200023	SPECC1L	NM_001254732	Homo sapiens sperm antigen with calponin homology and coiled-coil domains 1-like (SPECC1L), transcript variant 3, mRNA	Extracellular Space	other	XM_005670893	PREDICTED: Sus scrofa sperm antigen with calponin homology and coiled-coil domains 1-like (SPECC1L), transcript variant X2, mRNA
two	200037	CPEB2	AC098829	Homo sapiens BAC clone RP11-665G4 from 4, complete sequence	Cytoplasm	translation regulator	XM_003481942	PREDICTED: Sus scrofa uncharacterized LOC100738544 (LOC100738544), mRNA
two	200146	PTGFRN	BC152454	Homo sapiens prostaglandin F2 receptor negative regulator, mRNA (cDNA clone MGC:176708 IMAGE:8862587), complete cds	Plasma Membrane	other	FO203420	Pig DNA sequence from clone CH242-153G11 on chromosome X, complete sequence
two	200274	ABCB10	XM_006711755	PREDICTED: Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 10 (ABCB10), transcript variant X2, mRNA	Cytoplasm	transporter	XM_005671002	PREDICTED: Sus scrofa ATP-binding cassette, sub-family B (MDR/TAP), member 10 (ABCB10), mRNA
two	200430		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			FP085429	Pig DNA sequence from clone CH242-362P2 on chromosome X, complete sequence
two	200458	VCAN	NG_012682	Homo sapiens versican (VCAN), RefSeqGene on chromosome 5	Extracellular Space	other	XM_005661537	PREDICTED: Sus scrofa versican (VCAN), transcript variant X3, mRNA

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two	200478		AC005906	Homo sapiens 12p13,3 BAC RPCI11-429A20 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XR_298478	PREDICTED: Sus scrofa uncharacterized LOC100524923 (LOC100524923), misc_RNA
two	200499		AL844892	Human DNA sequence from clone RP11-396M20 on chromosome 10, complete sequence			XM_003483511	PREDICTED: Sus scrofa wings apart-like protein homolog (LOC100736629), mRNA
two	200503		AC091843	Homo sapiens chromosome 5 clone CTD-2185O23, complete sequence			NM_001243859	Sus scrofa coiled-coil domain containing 59 (CCDC59), mRNA >gi 115546949 dbj AK240595.1 Sus scrofa mRNA, clone:UTR010104B11, expressed in uterus
two	200595	ECT2	BC006838	Homo sapiens epithelial cell transforming sequence 2 oncogene, mRNA (cDNA clone IMAGE:3450287), complete cds	Cytoplasm	other	FP074891	Pig DNA sequence from clone CH242-212O17 on chromosome X, complete sequence
two	200679	RBBP9	AC012170	Homo sapiens chromosome 15 clone RP11-562A8 map 15q21,1, complete sequence			XM_003483900	PREDICTED: Sus scrofa retinoblastoma binding protein 9 (RBBP9), mRNA
two	200717		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			FP015883	Pig DNA sequence from clone CH242-13O19 on chromosome X, complete sequence
two	200797	WDR45	NM_001029896	Homo sapiens WD repeat domain 45 (WDR45), transcript variant 2, mRNA	Other	other	NM_001190293	Sus scrofa WD repeat domain 45 (WDR45), mRNA >gi 296874503 gb HM046518.1 Sus scrofa WD repeat domain 45 (WDR45) mRNA, complete cds
two	200807	ERLIN2	NG_032059	Homo sapiens ER lipid raft associated 2 (ERLIN2), RefSeqGene on chromosome 8			AY609925	Sus scrofa clone Clu_44625,scr,msk,p1,Contig1, mRNA sequence
two	200811		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			XM_005671751	PREDICTED: Sus scrofa pleckstrin homology domain-containing family A member 2-like (LOC102165667), mRNA
two	200813	RABGAP1	XM_006717032	PREDICTED: Homo sapiens RAB GTPase activating protein 1 (RABGAP1), transcript variant X5, mRNA	Cytoplasm	other	XM_005660415	PREDICTED: Sus scrofa RAB GTPase activating protein 1 (RABGAP1), mRNA
two	200814	DDOST	AK297009	Homo sapiens cDNA FLJ55714 complete cds, highly similar to Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 48 kDa subunit precursor (EC 2,4,1,119)	Cytoplasm	enzyme	AK397862	Sus scrofa mRNA, clone: TCH010009H11, expressed in trachea
two	200825	VWC2	NM_198570	Homo sapiens von Willebrand factor C domain containing 2 (VWC2), mRNA	Extracellular Space	other	XM_003130433	PREDICTED: Sus scrofa von Willebrand factor C domain containing 2 (VWC2), mRNA

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two	200830	GATAD1	XR_428182	PREDICTED: Homo sapiens GATA zinc finger domain containing 1 (GATAD1), transcript variant X2, misc_RNA	Nucleus	other	XM_003357440	PREDICTED: Sus scrofa GATA zinc finger domain containing 1 (GATAD1), mRNA
two	200831	TMF1	NM_007114	Homo sapiens TATA element modulatory factor 1 (TMF1), mRNA	Cytoplasm	transcription regulator	AB476300	Sus scrofa germline T-cell receptor beta VDJC region genes and EPHB6, TRPV6 genes, partial and complete cds, clone: L353E06
two	200835	METTL3	NG_001332	Homo sapiens T cell receptor alpha delta locus (TCRA/TCRD) on chromosome 14			XM_003128580	PREDICTED: Sus scrofa methyltransferase like 3 (METTL3), mRNA
two	200847	TSHZ2	NM_173485	Homo sapiens teashirt zinc finger homeobox 2 (TSHZ2), transcript variant 1, mRNA	Other	other	XR_308876	PREDICTED: Sus scrofa uncharacterized LOC102159477 (LOC102159477), misc_RNA
two	200856	RASSF1	NM_001206957	Homo sapiens Ras association (RalGDS/AF-6) domain family member 1 (RASSF1), transcript variant H, mRNA	Nucleus	other	XM_005669597	PREDICTED: Sus scrofa Ras association (RalGDS/AF-6) domain family member 1 (RASSF1), transcript variant X7, mRNA
two	200862	RAD51B	NM_133510	Homo sapiens RAD51 paralog B (RAD51B), transcript variant 2, mRNA	Nucleus	enzyme	XM_005656349	PREDICTED: Sus scrofa RAD51 paralog B (RAD51B), transcript variant X2, mRNA
two	200866	MTRF1L	AC022849	Homo sapiens, clone RP11-274M4, complete sequence			NM_001244934	Sus scrofa mitochondrial translational release factor 1-like (MTRF1L), mRNA >gi 52351519 gb AY609949.1 Sus scrofa clone Clu_4706,scr,msk,p1,Contig4, mRNA sequence
two	200873	CWF19L1	JF432814	Synthetic construct Homo sapiens clone IMAGE:100074132 CWF19-like 1, cell cycle control (S, pombe) (CWF19L1) gene, encodes complete protein	Other	other	XM_001929531	PREDICTED: Sus scrofa CWF19-like 1, cell cycle control (S, pombe) (CWF19L1), transcript variant 1, mRNA
two	200875	SMARCA2	NG_032162	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 (SMARCA2), RefSeqGene on chromosome 9	Nucleus	transcription regulator	XR_297632	PREDICTED: Sus scrofa uncharacterized LOC100516105 (LOC100516105), transcript variant X1, misc_RNA
two	200889	ARAP3	FM206294	Cloning vector pchilGHG1			XM_003124002	PREDICTED: Sus scrofa ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 3 (ARAP3), mRNA
two	200890		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			XM_003481937	PREDICTED: Sus scrofa ring finger protein 207 (RNF207), mRNA
two	200891		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			FP103051	Pig DNA sequence from clone CH242-71D22 on chromosome X, complete sequence

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two	200906	DYM	XM_006722489	PREDICTED: Homo sapiens dymeclin (DYM), transcript variant X5, mRNA	Cytoplasm	other	XM_003480324	PREDICTED: Sus scrofa dymeclin (DYM), mRNA
two	200907	KLHDC9	NR_033385	Homo sapiens kelch domain containing 9 (KLHDC9), transcript variant 3, non-coding RNA	Other	other	XM_001927877	PREDICTED: Sus scrofa kelch domain containing 9 (KLHDC9), mRNA
two	200909		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			FP085370	Pig DNA sequence from clone CH242-209D19 on chromosome X, complete sequence
two	200920		AL137025	Human DNA sequence from clone RP11-106M7 on chromosome 10, complete sequence			XR_307825	PREDICTED: Sus scrofa uncharacterized LOC102159524 (LOC102159524), misc_RNA
two	200921		AC104380	Homo sapiens chromosome 8, clone CTD-2342C1, complete sequence			AK390785	Sus scrofa mRNA, clone: BKFL10094A06, expressed in backfat
two	200934	LOC100507217	NR_037602	Homo sapiens uncharacterized LOC100507217 (LOC100507217), transcript variant 3, long non-coding RNA	Other	other	NR_033705	Sus scrofa uncharacterized LOC100152407 (LOC100152407), long non-coding RNA
two	200938	RNF19B	XM_006710357	PREDICTED: Homo sapiens ring finger protein 19B (RNF19B), transcript variant X3, mRNA	Cytoplasm	other	XM_003356300	PREDICTED: Sus scrofa ring finger protein 19B (RNF19B), transcript variant X2, mRNA
two	200955		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CU406985	Pig DNA sequence from clone CH242-434N2 on chromosome X, complete sequence
two	200969	TMEM255A	XR_430546	PREDICTED: Homo sapiens transmembrane protein 255A (TMEM255A), transcript variant X1, misc_RNA	Extracellular Space	other	XM_003360427	PREDICTED: Sus scrofa transmembrane protein 255A (TMEM255A), transcript variant 3, mRNA
two	200979		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			XR_297412	PREDICTED: Sus scrofa uncharacterized LOC102164934 (LOC102164934), misc_RNA
two	200980	RBBP7	NM_001198719	Homo sapiens retinoblastoma binding protein 7 (RBBP7), transcript variant 1, mRNA	Nucleus	transcription regulator	XM_005673459	PREDICTED: Sus scrofa retinoblastoma binding protein 7 (RBBP7), transcript variant X4, mRNA
two	200984	CRTAM	AB209830	Homo sapiens mRNA for class-I MHC-restricted T cell associated molecule variant protein	Plasma Membrane	other	XM_003129946	PREDICTED: Sus scrofa cytotoxic and regulatory T cell molecule (CRTAM), mRNA
two	200999		AL590807	Human DNA sequence from clone RP11-325L2 on chromosome 13, complete sequence			XM_005669465	PREDICTED: Sus scrofa serine protease 44-like (LOC100516643), mRNA
two	201007		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AK346986	Sus scrofa mRNA, clone:MLN010087F03, expressed in mesenteric lymph nodes
two	201011		AC007614	Homo sapiens chromosome 16 clone RP11-491F9, complete sequence			XR_309404	PREDICTED: Sus scrofa vacuolar protein sorting-associated protein 13C-like (LOC100153796), misc_RNA

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two	201018		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			FP015844	Pig DNA sequence from clone CH242-510O13 on chromosome X, complete sequence
two	201034	FRMD4A	BC151244	Homo sapiens FERM domain containing 4A, mRNA (cDNA clone MGC:167839 IMAGE:8860518), complete cds	Plasma Membrane	other	XM_005668127	PREDICTED: Sus scrofa uncharacterized LOC102161596 (LOC102161596), mRNA
two	201035	MFF	NG_033153	Homo sapiens mitochondrial fission factor (MFF), RefSeqGene on chromosome 2			XM_005660920	PREDICTED: Sus scrofa nuclear receptor subfamily 1, group H, member 3 (NR1H3), transcript variant X2, mRNA
two	201036	NACA	XM_006719420	PREDICTED: Homo sapiens nascent polypeptide-associated complex alpha subunit (NACA), transcript variant X9, mRNA	Cytoplasm	transcription regulator	XM_001929432	PREDICTED: Sus scrofa nascent polypeptide-associated complex subunit alpha-like (LOC100154750), transcript variant X1, mRNA
two	201046		AC013437	Homo sapiens BAC clone RP11-190J23 from 2, complete sequence			AF486872	Sus scrofa breed Chinese Jiangquhai mitochondrion, complete genome
two	201048	EIF3I	U39067	Homo sapiens translation initiation factor eIF3 p36 subunit mRNA, complete cds	Cytoplasm	translation regulator	AK397989	Sus scrofa mRNA, clone: TCH010056B03, expressed in trachea
two	201053	FHL2	XM_005263901	PREDICTED: Homo sapiens four and a half LIM domains 2 (FHL2), transcript variant X1, mRNA	Nucleus	transcription regulator	XM_003124859	PREDICTED: Sus scrofa four and a half LIM domains 2 (FHL2), transcript variant X2, mRNA
two	201054	MB	XM_005261605	PREDICTED: Homo sapiens myoglobin (MB), transcript variant X1, mRNA	Cytoplasm	transporter	AK396342	Sus scrofa mRNA, clone: PST010013E01, expressed in prostate
two	201065		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			FP326726	Pig DNA sequence from clone CH242-132G7 on chromosome X, complete sequence
two	201071	SCAMP1	AF005037	Homo sapiens secretory carrier membrane protein (SCAMP1) mRNA, complete cds	Cytoplasm	transporter	NM_214245	Sus scrofa secretory carrier membrane protein 1 (SCAMP1), mRNA >gi 3947736 emb Y15710.1 Sus scrofa mRNA for SCAMP1 protein
two	201074		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CU914693	Pig DNA sequence from clone CH242-146E2 on chromosome X, complete sequence
two	201082	MGP	NG_023331	Homo sapiens matrix Gla protein (MGP), RefSeqGene on chromosome 12	Extracellular Space	other	CU481471	Pig DNA sequence from clone CH242-254C9 on chromosome X, complete sequence
two	201083	NOP14	XM_006713929	PREDICTED: Homo sapiens NOP14 nucleolar protein (NOP14), transcript variant X3, mRNA	Nucleus	other	AK237695	Sus scrofa mRNA, clone:SPL010081H01, expressed in spleen
two	201090		AC007722	Homo sapiens chromosome 17, clone CTC-803M21, complete sequence			XR_306488	PREDICTED: Sus scrofa uncharacterized LOC102167421 (LOC102167421), misc_RNA
two	201092		FM206294	Cloning vector pchiLGHG1			AF067053	Sus scrofa microsatellite Li2 sequence

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two	201095	PPARGC1B	NG_016747	Homo sapiens peroxisome proliferator-activated receptor gamma, coactivator 1 beta (PPARGC1B), RefSeqGene on chromosome 5	Nucleus	transcription regulator	XR_115797	PREDICTED: Sus scrofa uncharacterized LOC100516787 (LOC100516787), transcript variant 2, misc_RNA
two	201109	WDR20	AF327354	Homo sapiens DMR protein mRNA, complete cds	Other	other	AY803092	Sus scrofa chromosome 17 clone pkmCon19, mRNA sequence
two	201133	FTSJ3	AK296715	Homo sapiens cDNA FLJ53449 complete cds, highly similar to rRNA methyltransferase 3 (EC 2,1,1,-)	Nucleus	enzyme	XM_003131287	PREDICTED: Sus scrofa FtsJ homolog 3 (E. coli) (FTSJ3), mRNA
two	201140	BVES	NM_001199563	Homo sapiens blood vessel epicardial substance (BVES), transcript variant C, mRNA	Plasma Membrane	other	CU595467	Pig DNA sequence from clone CH242-242E16 on chromosome 18, complete sequence
two	201146	CCDC185	AL590669	Human DNA sequence from clone RP11-76K24 on chromosome 1, complete sequence	Other	other	NM_001244215	Sus scrofa complement component 5a receptor 1 (C5AR1), mRNA
two	201152	MKNK2	AF125532	Homo sapiens map kinase-interacting kinase mRNA, complete cds	Cytoplasm	kinase	XM_005661373	PREDICTED: Sus scrofa MAP kinase-interacting serine/threonine-protein kinase 2-like (LOC100517077), mRNA
two	201161	SLCO2A1	FM206294	Cloning vector pchilGHG1			DQ104838	Sus scrofa solute carrier organic anion transporter family member 2A1 (SLCO2A1) gene, exon 6
two	201171	SEPT10	NR_047585	Homo sapiens septin 10 (SEPT10), transcript variant 3, long non-coding RNA	Cytoplasm	transcription regulator	XR_302278	PREDICTED: Sus scrofa septin-10-like (LOC100522986), transcript variant X3, misc_RNA
two	201191	PRR13	BC066943	Homo sapiens proline rich 13, mRNA (cDNA clone MGC:87320 IMAGE:4817871), complete cds	Nucleus	other	XM_005652519	PREDICTED: Sus scrofa proline-rich protein 13 (LOC100517160), transcript variant X3, mRNA
two	201224		AC090530	Homo sapiens chromosome 1 clone RP11-416G1, complete sequence			AK345938	Sus scrofa mRNA, clone:LVR010062H04, expressed in liver
two	201226	TMED8	AK025695	Homo sapiens cDNA: FLJ22042 fis, clone HEP09065	Other	other	CU311198	Pig DNA sequence from clone CH242-510N18 on chromosome X, complete sequence
two	201228	COL4A6	NG_012059	Homo sapiens collagen, type IV, alpha 6 (COL4A6), RefSeqGene on chromosome X	Extracellular Space	other	XM_005658428	PREDICTED: Sus scrofa rho GTPase-activating protein 39-like (LOC100621381), partial mRNA
two	201234	CCNK	XM_005268154	PREDICTED: Homo sapiens cyclin K (CCNK), transcript variant X1, mRNA	Nucleus	kinase	XM_001925518	PREDICTED: Sus scrofa cyclin K (CCNK), mRNA
two	201245	SURF1	XM_006717256	PREDICTED: Homo sapiens surfet 1 (SURF1), transcript variant X2, mRNA	Cytoplasm	enzyme	AK391958	Sus scrofa mRNA, clone: HTMT10037A03, expressed in hypothalamus
two	201281		NG_026170	Homo sapiens leucine rich repeat containing 37B pseudogene (LOC100420850) on chromosome 17			CU914430	Pig DNA sequence from clone CH242-421J21 on chromosome 1, complete sequence

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two	201291		AC245931	Homo sapiens BAC clone CH17-468I21 from chromosome 5, complete sequence			FP091247	Pig DNA sequence from clone CH242-6J13 on chromosome X, complete sequence
two	201300		AP001033	Homo sapiens genomic DNA, chromosome 18p clone:RP11-888D10, complete sequences			AK235155	Sus scrofa mRNA, clone:OVRM10054A09, expressed in ovary
two	201306	UBD	AC234946	Homo sapiens FOSMID clone ABC8-773922P18 from chromosome unknown, complete sequence			XM_005665705	PREDICTED: Sus scrofa ubiquitin D (UBD), transcript variant X4, mRNA
two	201326		AL137066	Human DNA sequence from clone RP11-1019 on chromosome 9, complete sequence			CU462991	Pig DNA sequence from clone CH242-166A19 on chromosome X, complete sequence
two	201339		FM206294	Cloning vector pchilGHG1			AF067053	Sus scrofa microsatellite Li2 sequence
two	201359	RETNLB	FM206294	Cloning vector pchilGHG1			XM_005670236	PREDICTED: Sus scrofa resistin like beta (RETNLB), transcript variant X1, mRNA
two	201385	COX8A	NM_004074	Homo sapiens cytochrome c oxidase subunit VIIIa (ubiquitous) (COX8A), mRNA >gi 38614452 gb BC063025.1 Homo sapiens cytochrome c oxidase subunit 8A (ubiquitous), mRNA (cDNA clone MGC:70795 IMAGE:6018884), complete cds	Cytoplasm	enzyme	XM_003122583	PREDICTED: Sus scrofa cytochrome c oxidase subunit 8A, mitochondrial-like (LOC100522725), transcript variant 1, mRNA
two	201399	COLEC12	NM_130386	Homo sapiens collectin sub-family member 12 (COLEC12), mRNA	Plasma Membrane	transmembrane receptor	CU407163	Pig DNA sequence from clone CH242-222I6 on chromosome X, complete sequence
two	201416	REG3G	BC103854	Homo sapiens regenerating islet-derived 3 gamma, mRNA (cDNA clone MGC:119001 IMAGE:40002931), complete cds	Extracellular Space	other	AK231540	Sus scrofa mRNA, clone:ITT010089C01, expressed in intestine
two	201423		FM206294	Cloning vector pchilGHG1			XM_005670946	PREDICTED: Sus scrofa armadillo repeat gene deleted in velocardiofacial syndrome (ARVCF), transcript variant X4, mRNA
two	201463	TOR1A	NG_008049	Homo sapiens torsin family 1, member A (torsin A) (TOR1A), RefSeqGene on chromosome 9	Cytoplasm	other	AK233486	Sus scrofa mRNA, clone:LVRM10157E01, expressed in liver
two	201539	COMMD4	XM_005254510	PREDICTED: Homo sapiens COMM domain containing 4 (COMMD4), transcript variant X2, mRNA	Cytoplasm	other	XM_001924389	PREDICTED: Sus scrofa COMM domain containing 4 (COMMD4), mRNA
two	201547	ACSS3	XM_006719601	PREDICTED: Homo sapiens acyl-CoA synthetase short-chain family member 3 (ACSS3), transcript variant X3, mRNA	Cytoplasm	enzyme	XM_003481763	PREDICTED: Sus scrofa acyl-CoA synthetase short-chain family member 3 (ACSS3), mRNA

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two	201595		AC022146	Homo sapiens chromosome 19 clone CTD-3020H12, complete sequence			AK237162	Sus scrofa mRNA, clone:SPL010006A10, expressed in spleen
two	201638		AC008806	Homo sapiens chromosome 19 clone CTD-2086O20, complete sequence			XR_303826	PREDICTED: Sus scrofa uncharacterized LOC100737242 (LOC100737242), misc_RNA
two	201640		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CT827801	Pig DNA sequence from clone CH242-209H21 on chromosome 14, complete sequence
two	201654	SOCS3	NM_003955	Homo sapiens suppressor of cytokine signaling 3 (SOCS3), mRNA	Cytoplasm	phosphatase	AY785557	Sus scrofa suppressor of cytokine signaling 3 (SOCS3) gene, partial cds
two	201697		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AB053451	Sus scrofa DNA, constant regions and joining segments of T cell receptor alpha/delta chain
two	201704	LRRFIP2	CR749705	Homo sapiens mRNA; cDNA DKFZp434H2035 (from clone DKFZp434H2035)	Extracellular Space	other	CU928866	Pig DNA sequence from clone CH242-189O14 on chromosome X, complete sequence
two	201744	HTRA2	AF141306	Homo sapiens serine protease Htra2-p7 mRNA, alternatively spliced, partial cds	Cytoplasm	peptidase	AK397073	Sus scrofa mRNA, clone: PTG010075E06, expressed in pituitary gland
two	201752	LUC7L2	NG_030012	Homo sapiens LUC7-like 2 (S, cerevisiae) (LUC7L2), RefSeqGene on chromosome 7			FP015844	Pig DNA sequence from clone CH242-510O13 on chromosome X, complete sequence
two	201782	EFNA5	XM_006714565	PREDICTED: Homo sapiens ephrin-A5 (EFNA5), transcript variant X1, mRNA	Plasma Membrane	kinase	AK349052	Sus scrofa mRNA, clone:PCT010007A09, expressed in placenta
two	201783	DST	XM_006715169	PREDICTED: Homo sapiens dystonin (DST), transcript variant X18, mRNA	Plasma Membrane	other	XM_003128338	PREDICTED: Sus scrofa dystonin (DST), transcript variant X2, mRNA
two	201784	LRMP	XM_006719077	PREDICTED: Homo sapiens lymphoid-restricted membrane protein (LRMP), transcript variant X10, mRNA	Cytoplasm	other	XM_005655654	PREDICTED: Sus scrofa lymphoid-restricted membrane protein (LRMP), mRNA
two	201809	FBXW2	XM_006717051	PREDICTED: Homo sapiens F-box and WD repeat domain containing 2 (FBXW2), transcript variant X9, mRNA	Cytoplasm	enzyme	FP102665	Pig DNA sequence from clone CH242-289C15 on chromosome 6, complete sequence
two	201836	SSB	X14684	Human mRNA for La protein C-terminal region	Nucleus	enzyme	AK236611	Sus scrofa mRNA, clone:OVRM10208B07, expressed in ovary
two	201858	DSG1	NG_011803	Homo sapiens desmoglein 1 (DSG1), RefSeqGene on chromosome 18	Plasma Membrane	other	FP015844	Pig DNA sequence from clone CH242-510O13 on chromosome X, complete sequence
two	201866	SERPINA12	XM_005267351	PREDICTED: Homo sapiens serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 12 (SERPINA12), transcript variant X1, mRNA	Cytoplasm	other	CU606897	Pig DNA sequence from clone CH242-238J16 on chromosome X, complete sequence
two	201878		FM206294	Cloning vector pchiIGHG1			AF067053	Sus scrofa microsatellite Li2 sequence

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two	201881	PAXIP1	XM_005249539	PREDICTED: Homo sapiens PAX interacting (with transcription-activation domain) protein 1 (PAXIP1), transcript variant X4, mRNA	Nucleus	other	XM_005673095	PREDICTED: Sus scrofa PAX interacting (with transcription-activation domain) protein 1 (PAXIP1), mRNA
two	202069		AL157712	Human DNA sequence from clone RP11-339B9 on chromosome 10, complete sequence			CU928685	Pig DNA sequence from clone CH242-17N21 on chromosome 2, complete sequence
two	202146		AC254615	Homo sapiens BAC clone CH17-256B8 from chromosome 22, complete sequence			FN675227	Sus scrofa contig sequence, clone KNP_86D3_Contig12
two	202167	PKP4	NM_003628	Homo sapiens plakophilin 4 (PKP4), transcript variant 1, mRNA	Plasma Membrane	other	XM_005671864	PREDICTED: Sus scrofa plakophilin 4 (PKP4), transcript variant X6, mRNA
two	202222		AC005075	Homo sapiens BAC clone CTA-219E16 from 7, complete sequence			FN673781	Sus scrofa BAC clone KNP_1159H5
two	202251	ARHGAP24	NM_001287805	Homo sapiens Rho GTPase activating protein 24 (ARHGAP24), transcript variant 4, mRNA	Cytoplasm	other	NM_001244804	Sus scrofa synovial sarcoma translocation, chromosome 18 (SS18), mRNA
two	202298		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AK343433	Sus scrofa mRNA, clone:ADR010065G11, expressed in adrenal gland
two	202338	SYN3	NG_029545	Homo sapiens synapsin III (SYN3), RefSeqGene on chromosome 22			AK239993	Sus scrofa mRNA, clone:UTR010019C10, expressed in uterus
two	202433	ZFAND2B	AP003399	Homo sapiens genomic DNA, chromosome 11q clone:RP11-448N3, complete sequence	Other	other	XM_005672224	PREDICTED: Sus scrofa zinc finger, AN1-type domain 2B (ZFAND2B), transcript variant X2, mRNA
two	202670	EML5	XM_006720070	PREDICTED: Homo sapiens echinoderm microtubule associated protein like 5 (EML5), transcript variant X3, mRNA	Cytoplasm	other	XM_003356771	PREDICTED: Sus scrofa echinoderm microtubule associated protein like 5 (EML5), mRNA
two	202673	HECA	NM_016217	Homo sapiens headcase homolog (Drosophila) (HECA), mRNA	Other	other	XM_003121176	PREDICTED: Sus scrofa headcase homolog (Drosophila) (HECA), mRNA
two	202743	MEP1B	FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			XM_003127883	PREDICTED: Sus scrofa mep1r A, beta (MEP1B), mRNA
two	202826	BACE2	NM_138992	Homo sapiens beta-site APP-cleaving enzyme 2 (BACE2), transcript variant b, mRNA	Cytoplasm	peptidase	CU856407	Pig DNA sequence from clone CH242-95P6 on chromosome X, complete sequence
two	202922	POSTN	NM_001286667	Homo sapiens periostin, osteoblast specific factor (POSTN), transcript variant 7, mRNA	Extracellular Space	other	XM_005668353	PREDICTED: Sus scrofa periostin, osteoblast specific factor (POSTN), transcript variant X4, mRNA
two	203271	CHN1	NR_038133	Homo sapiens chimerin 1 (CHN1), transcript variant 4, long non-coding RNA	Cytoplasm	other	XR_300070	PREDICTED: Sus scrofa N-chimaerin-like (LOC100627143), misc_RNA

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two	203308	ROBO2	NM_001290065	Homo sapiens roundabout, axon guidance receptor, homolog 2 (Drosophila) (ROBO2), transcript variant 5, mRNA	Plasma Membrane	transmembrane receptor	XM_005670292	PREDICTED: Sus scrofa roundabout, axon guidance receptor, homolog 2 (Drosophila) (ROBO2), mRNA
two	203386	PDZRN4	AL133067	Homo sapiens mRNA; cDNA DKFZp434B0417 (from clone DKFZp434B0417)	Other	other	XM_003481712	PREDICTED: Sus scrofa PDZ domain containing ring finger 4 (PDZRN4), transcript variant 2, mRNA
two	203404	PTPN12	AC006451	Homo sapiens PAC clone RP4-562A11 from 7, complete sequence	Cytoplasm	phosphatase	FP245417	Pig DNA sequence from clone CH242-234G22 on chromosome X, complete sequence
two	203498	ZNF786	AK297472	Homo sapiens cDNA FLJ61318 complete cds, weakly similar to Zinc finger protein Kr18	Nucleus	other	XM_005667769	PREDICTED: Sus scrofa zinc finger protein 786 (ZNF786), mRNA
two	203510	MIR4425	AL050344	Human DNA sequence from clone RP4-799D16 on chromosome 1p34,3-36,1, complete sequence	Cytoplasm	microRNA	AC091538	Sus scrofa clone RP44-26G1, complete sequence
two	203576	A2M	AB209614	Homo sapiens mRNA for alpha 2 macroglobulin variant, partial cds	Extracellular Space	transporter	AK398806	Sus scrofa mRNA, clone: ADR010095B09, expressed in adrenal gland
two	203588		AL022394	Human DNA sequence from clone RP3-511B24 on chromosome 20q11,2-12, complete sequence			CU207390	Pig DNA sequence from clone CH242-65K12 on chromosome X, complete sequence
two	203657	CAMLG	NM_001745	Homo sapiens calcium modulating ligand (CAMLG), mRNA	Cytoplasm	other	AK395565	Sus scrofa mRNA, clone: OVRT10028G04, expressed in ovary
two	203674	DPM1	NG_008923	Homo sapiens dolichyl-phosphate mannosyltransferase polypeptide 1, catalytic subunit (DPM1), RefSeqGene on chromosome 20			CT009560	Pig DNA sequence from clone CH242-4C12 on chromosome 17, complete sequence
two	203692	SOST	NG_008078	Homo sapiens sclerostin (SOST), RefSeqGene on chromosome 17			CU856642	Pig DNA sequence from clone CH242-190C16 on chromosome X, complete sequence
two	203714	ARMCX4	NG_017196	Homo sapiens armadillo repeat containing, X-linked 4 (ARMCX4), RefSeqGene on chromosome X	Other	other	FQ790386	Pig DNA sequence from clone CH242-33J6 on chromosome X, complete sequence
two	203727	UGCG	XM_005252186	PREDICTED: Homo sapiens UDP-glucose ceramide glucosyltransferase (UGCG), transcript variant X1, mRNA	Cytoplasm	enzyme	XM_001925267	PREDICTED: Sus scrofa UDP-glucose ceramide glucosyltransferase (UGCG), mRNA
two	203742	LOC732360	XR_133016	PREDICTED: Homo sapiens G/T mismatch-specific thymine DNA glycosylase-like (LOC732360), misc_RNA	Other	other	AF067053	Sus scrofa microsatellite Li2 sequence
two	203749	APOBEC3	AC022903	Homo sapiens chromosome 17, clone RP11-642M2, complete sequence			FJ042938	Sus scrofa CBX6 gene, complete sequence; and APOBEC3F (APOBEC3) gene, complete cds, alternatively spliced

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two	203751	IPP	XM_006710622	PREDICTED: Homo sapiens intracisternal A particle-promoted polypeptide (IPP), transcript variant X3, mRNA	Cytoplasm	other	AK397905	Sus scrofa mRNA, clone: TCH010027A07, expressed in trachea
two	203786		AL392111	Human DNA sequence from clone RP11-48715 on chromosome 10, complete sequence			CU210871	Pig DNA sequence from clone CH242-347O13 on chromosome 11, complete sequence
two	203788	AKNA	AK090503	Homo sapiens cDNA FLJ33184 fis, clone ADRGL2004031	Nucleus	other	XM_005666209	PREDICTED: Sus scrofa iron-sulfur protein NUBPL-like (LOC100736652), mRNA
two	203815		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CU463244	Pig DNA sequence from clone CH242-339N13 on chromosome X, complete sequence
two	203874	ABHD10	NR_073571	Homo sapiens abhydrolase domain containing 10 (ABHD10), transcript variant 4, long non-coding RNA	Cytoplasm	enzyme	AK231572	Sus scrofa mRNA, clone:ITT010099B08, expressed in intestine
two	203879	TOR1AIP2	NM_022347	Homo sapiens torsin A interacting protein 2 (TOR1AIP2), transcript variant 1, mRNA	Cytoplasm	other	AK344551	Sus scrofa mRNA, clone:DCI010073A09, expressed in dendritic cells (immature)
two	203888	NPM1	NM_001037738	Homo sapiens nucleophosmin (nucleolar phosphoprotein B23, numatrin) (NPM1), transcript variant 3, mRNA	Nucleus	transcription regulator	XM_003359819	PREDICTED: Sus scrofa nucleophosmin (nucleolar phosphoprotein B23, numatrin) (NPM1), transcript variant X3, mRNA
two	203895	KBTBD12	XM_005247168	PREDICTED: Homo sapiens kelch repeat and BTB (POZ) domain containing 12 (KBTBD12), transcript variant X2, mRNA	Other	other	XM_005669819	PREDICTED: Sus scrofa kelch repeat and BTB (POZ) domain containing 12 (KBTBD12), mRNA
two	203901	SLC9A1	BC090942	Homo sapiens cDNA clone IMAGE:3079901	Plasma Membrane	ion channel	CU915478	Pig DNA sequence from clone CH242-29L4 on chromosome X, complete sequence
two	203903	CDK6	NG_015888	Homo sapiens cyclin-dependent kinase 6 (CDK6), RefSeqGene on chromosome 7	Nucleus	kinase	DQ104838	Sus scrofa solute carrier organic anion transporter family member 2A1 (SLCO2A1) gene, exon 6
two	203913	GYS2	XM_005253352	PREDICTED: Homo sapiens glycogen synthase 2 (liver) (GYS2), transcript variant X1, mRNA	Cytoplasm	enzyme	XM_005655664	PREDICTED: Sus scrofa chromosome 5 open reading frame, human C12orf39 (C5H12orf39), mRNA
two	203932	COX11	XM_006721705	PREDICTED: Homo sapiens cytochrome c oxidase assembly homolog 11 (yeast) (COX11), transcript variant X2, mRNA	Cytoplasm	enzyme	XR_306510	PREDICTED: Sus scrofa uncharacterized LOC102165157 (LOC102165157), misc_RNA
two	203941	ROS1	NG_033929	Homo sapiens c-ros oncogene 1, receptor tyrosine kinase (ROS1), RefSeqGene on chromosome 6	Plasma Membrane	kinase	XM_005654395	PREDICTED: Sus scrofa c-ros oncogene 1, receptor tyrosine kinase (ROS1), mRNA
two	203951	CDK14	AC006036	Homo sapiens BAC clone RP11-215P16 from 7, complete sequence	Nucleus	kinase	DQ480148	Sus scrofa titin immunoglobulin domain protein (TTID) gene, exons 1 through 10 and partial cds

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two	203963	CXCL8	NG_029889	Homo sapiens interleukin 8 (IL8), RefSeqGene on chromosome 4	Extracellular Space	cytokine	AK391559	Sus scrofa mRNA, clone: DCI010116C07, expressed in dendritic cells (immature)
two	203977	SUMO1	NG_011679	Homo sapiens small ubiquitin-like modifier 1 (SUMO1), RefSeqGene on chromosome 2			AK392044	Sus scrofa mRNA, clone: HTMT10046C11, expressed in hypothalamus
two	203982	RGS5	NM_001254749	Homo sapiens regulator of G-protein signaling 5 (RGS5), transcript variant 4, mRNA	Plasma Membrane	other	AK235024	Sus scrofa mRNA, clone:OVRM10042C05, expressed in ovary
two	204056	KIAA1919	AK292735	Homo sapiens cDNA FLJ78034 complete cds	Other	peptidase	XM_003121369	PREDICTED: Sus scrofa KIAA1919 ortholog (KIAA1919), mRNA
two	204071	ATP2B1	NG_029485	Homo sapiens ATPase, Ca++ transporting, plasma membrane 1 (ATP2B1), RefSeqGene on chromosome 12	Plasma Membrane	transporter	CR956382	Pig DNA sequence from clone CH242-231E9 on chromosome 6, complete sequence
two	204151		AL359380	Human DNA sequence from clone RP11-642N5 on chromosome 6, complete sequence			CU914685	Pig DNA sequence from clone CH242-86E19 on chromosome X, complete sequence
two	204275	PTENP1	NR_023917	Homo sapiens phosphatase and tensin homolog pseudogene 1 (functional) (PTENP1), non-coding RNA	Cytoplasm	other	NM_001143696	Sus scrofa phosphatase and tensin homolog (PTEN), mRNA >gi 217314874 gb FJ436380.1 Sus scrofa phosphatase and tensin-like protein (PTEN) mRNA, complete cds Sus scrofa BAC clone KNP_1255H1
two	204318	QKI	NG_029604	Homo sapiens QKI, KH domain containing, RNA binding (QKI), RefSeqGene on chromosome 6			FN673793	
two	204382	CTSO	NM_001334	Homo sapiens cathepsin O (CTSO), mRNA	Cytoplasm	peptidase	XM_005655381	PREDICTED: Sus scrofa discoidin domain receptor tyrosine kinase 2 (DDR2), mRNA
two	204402	C14orf28	NM_001017923	Homo sapiens chromosome 14 open reading frame 28 (C14orf28), mRNA	Other	other	XM_005659917	PREDICTED: Sus scrofa chromosome 1 open reading frame, human C14orf28 (C1H14orf28), transcript variant X2, mRNA
two	204412	PVRL3	XM_005247321	PREDICTED: Homo sapiens poliovirus receptor-related 3 (PVRL3), transcript variant X1, mRNA	Plasma Membrane	other	XM_003359718	PREDICTED: Sus scrofa RAP1 interacting factor homolog (yeast) (RIF1), transcript variant 2, mRNA
two	204476	COG5	NM_181733	Homo sapiens component of oligomeric golgi complex 5 (COG5), transcript variant 2, mRNA	Cytoplasm	transporter	AK400542	Sus scrofa mRNA, clone: KDN010080H06, expressed in kidney
two	204497	TNPO1	XM_005248501	PREDICTED: Homo sapiens transportin 1 (TNPO1), transcript variant X2, mRNA	Nucleus	transporter	XM_005672540	PREDICTED: Sus scrofa transportin 1 (TNPO1), transcript variant X3, mRNA
two	204509	TBCEL	XM_005271442	PREDICTED: Homo sapiens tubulin folding cofactor E-like (TBCEL), transcript variant X4, mRNA	Other	other	FP089549	Pig DNA sequence from clone CH242-428O6 on chromosome 2, complete sequence

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two	204533	PIGW	XM_006721831	PREDICTED: Homo sapiens phosphatidylinositol glycan anchor biosynthesis, class W (PIGW), transcript variant X3, mRNA >gi 578840333 ref XM_006725317,1 PREDICTED: Homo sapiens phosphatidylinositol glycan anchor biosynthesis, class W (PIGW), transcript variant X1, mRNA	Cytoplasm	enzyme	CU607014	Pig DNA sequence from clone CH242-405P18 on chromosome 2, complete sequence
two	204549	ATP5F1P5	NG_021837	Homo sapiens ATP synthase, H+ transporting, mitochondrial Fo complex, subunit B1 pseudogene 5 (ATP5F1P5) on chromosome 11			XM_003355244	PREDICTED: Sus scrofa ATP synthase, H+ transporting, mitochondrial Fo complex, subunit B1 (ATP5F1), mRNA
two	204633	TPD52L1	XM_005267123	PREDICTED: Homo sapiens tumor protein D52-like 1 (TPD52L1), transcript variant X4, mRNA	Cytoplasm	other	XM_005659215	PREDICTED: Sus scrofa tumor protein D52-like 1 (TPD52L1), transcript variant X2, mRNA
two	204643	ERGIC2	NM_016570	Homo sapiens ERGIC and golgi 2 (ERGIC2), mRNA	Cytoplasm	other	XM_005655651	PREDICTED: Sus scrofa ERGIC and golgi 2 (ERGIC2), transcript variant X1, mRNA
two	204647	SUPT3H	XM_006715230	PREDICTED: Homo sapiens suppressor of Ty 3 homolog (S, cerevisiae) (SUPT3H), transcript variant X3, mRNA	Nucleus	transcription regulator	AK394928	Sus scrofa mRNA, clone: OVR010063F02, expressed in ovary
two	204651		AC024270	Homo sapiens chromosome 15, clone RP11-382A20, complete sequence			AY803092	Sus scrofa chromosome 17 clone pkmCon19, mRNA sequence
two	204712	ALDH6A1	NG_012257	Homo sapiens aldehyde dehydrogenase 6 family, member A1 (ALDH6A1), RefSeqGene on chromosome 14	Cytoplasm	enzyme	XM_005656401	PREDICTED: Sus scrofa aldehyde dehydrogenase 6 family, member A1 (ALDH6A1), transcript variant X4, mRNA
two	204756		AC243828	Homo sapiens BAC clone CH17-52J16 from chromosome unknown, complete sequence			FQ377577	Pig DNA sequence from clone CH242-326H11 on chromosome X, complete sequence
two	204767	ZNF706	AK290477	Homo sapiens cDNA FLJ76537 complete cds, highly similar to Homo sapiens zinc finger protein 706 (ZNF706), mRNA	Other	other	XM_003481371	PREDICTED: Sus scrofa zinc finger protein 706 (ZNF706), transcript variant X1, mRNA
two	204770		AC084793	Homo sapiens BAC clone CTD-2651D18 from 7, complete sequence			AC091505	Sus scrofa clone RP44-331G21, complete sequence
two	204800	ZBTB41	NM_194314	Homo sapiens zinc finger and BTB domain containing 41 (ZBTB41), mRNA	Other	other	XM_003357660	PREDICTED: Sus scrofa zinc finger and BTB domain-containing protein 41-like (LOC100627731), mRNA
two	204808	SLC10A5	BC136625	Homo sapiens solute carrier family 10 (sodium/bile acid cotransporter family), member 5, mRNA (cDNA clone MGC:168238 IMAGE:9020615), complete cds	Other	other	XM_003361193	PREDICTED: Sus scrofa solute carrier family 10, member 5 (SLC10A5), mRNA

cluster	array id	gene symbols	HSA accession	HSA description	location	property	SSC accession	SSC description
two	204810	PSMD6	XM_006713431	PREDICTED: Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 6 (PSMD6), transcript variant X3, mRNA	Cytoplasm	enzyme	XM_003483201	PREDICTED: Sus scrofa 26S proteasome non-ATPase regulatory subunit 6-like (LOC100739334), mRNA
two	204816	KNG1	NG_016009	Homo sapiens kininogen 1 (KNG1), RefSeqGene on chromosome 3	Extracellular Space	other	CT868688	Pig DNA sequence from clone CH242-510G16 on chromosome 7, complete sequence
two	204818	SCGB2A2	NM_002411	Homo sapiens secretoglobin, family 2A, member 2 (SCGB2A2), mRNA	Extracellular Space	other	AK399215	Sus scrofa mRNA, clone: SMG010030G02, expressed in submaxillary gland
two	204822		AC099057	Homo sapiens chromosome 3 clone RP11-655N11, complete sequence			AK399215	Sus scrofa mRNA, clone: SMG010030G02, expressed in submaxillary gland
two	204833	SLC35A1	BC017807	Homo sapiens solute carrier family 35 (CMP-sialic acid transporter), member A1, mRNA (cDNA clone MGC:22375 IMAGE:4690513), complete cds	Cytoplasm	transporter	AK230731	Sus scrofa mRNA, clone:AMP010033D02, expressed in alveolar macrophage
two	204838	PABPC1	XM_005250861	PREDICTED: Homo sapiens poly(A) binding protein, cytoplasmic 1 (PABPC1), transcript variant X1, mRNA	Cytoplasm	translation regulator	XR_302887	PREDICTED: Sus scrofa poly(A) binding protein, cytoplasmic 1 (PABPC1), transcript variant X3, misc_RNA
two	204839	THAP1	NG_011837	Homo sapiens THAP domain containing, apoptosis associated protein 1 (THAP1), RefSeqGene on chromosome 8	Nucleus	other	XM_005657650	PREDICTED: Sus scrofa THAP domain containing, apoptosis associated protein 1 (THAP1), transcript variant X2, mRNA
two	204841	VT11A	AK303646	Homo sapiens cDNA FLJ61523 complete cds, highly similar to Vesicle transport through interaction with-SNAREs homolog 1A	Plasma Membrane	transporter	AK352163	Sus scrofa mRNA, clone:UTR010015A12, expressed in uterus
two	204842	UBE3D	AL357121	Human DNA sequence from clone RP11-381J15 on chromosome 6, complete sequence	Other	other	XM_005666999	PREDICTED: Sus scrofa protein FAM13A-like (LOC100517722), mRNA
two	204864	KIAA1804	NM_032435	Homo sapiens mixed lineage kinase 4 (KIAA1804), mRNA	Other	kinase	CR956634	Pig DNA sequence from clone CH242-27718 on chromosome 17, complete sequence
two	204866	ATXN1	NG_011571	Homo sapiens ataxin 1 (ATXN1), RefSeqGene on chromosome 6	Nucleus	transcription regulator	XR_304304	PREDICTED: Sus scrofa uncharacterized LOC100623695 (LOC100623695), misc_RNA
two	204941	GPAM	XM_005269998	PREDICTED: Homo sapiens glycerol-3-phosphate acyltransferase, mitochondrial (GPAM), transcript variant X1, mRNA	Cytoplasm	enzyme	XM_005671463	PREDICTED: Sus scrofa glycerol-3-phosphate acyltransferase (GPAT), transcript variant X3, mRNA
two	204943	GPNMB	XM_005249578	PREDICTED: Homo sapiens glycoprotein (transmembrane) nmb (GPNMB), transcript variant X2, mRNA	Plasma Membrane	enzyme	AK399427	Sus scrofa mRNA, clone: AMP010027A10, expressed in alveolar macrophage

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two	204951	SUCO	XM_006711376	PREDICTED: Homo sapiens SUN domain containing ossification factor (SUCO), transcript variant X5, mRNA	Other	other	XM_003357538	PREDICTED: Sus scrofa SUN domain containing ossification factor (SUCO), transcript variant 1, mRNA
two	204964	JAGN1	NM_032492	Homo sapiens jagunal homolog 1 (Drosophila) (JAGN1), mRNA	Other	other	AK234514	Sus scrofa mRNA, clone:OVR010075A08, expressed in ovary
two	204967	PRDX3	AL441986	Human DNA sequence from clone RP11-349O10 on chromosome 13, complete sequence			XM_005671499	PREDICTED: Sus scrofa peroxiredoxin 3 (PRDX3), transcript variant X1, mRNA
two	204985	SAA4	NM_006512	Homo sapiens serum amyloid A4, constitutive (SAA4), mRNA	Extracellular Space	transporter	AK344437	Sus scrofa mRNA, clone:DCI010050E08, expressed in dendritic cells (immature)
two	205050	ST13	NM_001278589	Homo sapiens suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein) (ST13), transcript variant 2, mRNA	Cytoplasm	other	XM_003481532	PREDICTED: Sus scrofa suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein) (ST13), transcript variant 2, mRNA
two	205133		BX072579	Human DNA sequence from clone RP11-199F6 on chromosome 13, complete sequence			CU856547	Pig DNA sequence from clone CH242-101D8 on chromosome X, complete sequence
two	205144	TEX30	NM_001286776	Homo sapiens testis expressed 30 (TEX30), transcript variant 3, mRNA	Other	other	XM_003361274	PREDICTED: Sus scrofa testis-expressed sequence 30 protein-like (LOC100622843), mRNA
two	205176	CLN5	NG_009064	Homo sapiens ceroid-lipofuscinosis, neuronal 5 (CLN5), RefSeqGene on chromosome 13	Cytoplasm	other	XM_005668472	PREDICTED: Sus scrofa ceroid-lipofuscinosis, neuronal 5 (CLN5), mRNA
two	205180	GSPT1	XM_005255275	PREDICTED: Homo sapiens G1 to S phase transition 1 (GSPT1), transcript variant X2, mRNA	Cytoplasm	translation regulator	XR_300108	PREDICTED: Sus scrofa uncharacterized LOC102166518 (LOC102166518), misc_RNA
two	205218	MEPE	NG_034073	Homo sapiens matrix extracellular phosphoglycoprotein (MEPE), RefSeqGene on chromosome 4	Extracellular Space	other	CU856168	Pig DNA sequence from clone CH242-97B16 on chromosome 8, complete sequence
two	205232	PPP1R12A	AF458589	Homo sapiens myosin phosphatase target subunit 1 variant (PPP1R12A) mRNA, complete cds	Cytoplasm	phosphatase	AB280947	Sus scrofa DCT, GPC6 genes for dopachrome tautomerase, glypican 6, complete cds
two	205240	C4H1orf114	AL021068	Human DNA sequence from clone RP1-206D15 on chromosome 1q24, complete sequence			XM_005663098	PREDICTED: Sus scrofa chromosome 1 open reading frame 114 ortholog (C4H1orf114), transcript variant X3, mRNA
two	205241	LOC100507217	NR_037602	Homo sapiens uncharacterized LOC100507217 (LOC100507217), transcript variant 3, long non-coding RNA	Other	other	NR_033705	Sus scrofa uncharacterized LOC100152407 (LOC100152407), long non-coding RNA
two	205340	EPC2	XM_006712411	PREDICTED: Homo sapiens enhancer of polycomb homolog 2 (Drosophila) (EPC2), transcript variant X1, mRNA	Other	other	XM_003133248	PREDICTED: Sus scrofa enhancer of polycomb homolog 2 (Drosophila) (EPC2), transcript variant X1, mRNA

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two	205453	PPIH	AC098484	Homo sapiens chromosome 1 clone RP5-994D16, complete sequence			XM_005665514	PREDICTED: Sus scrofa peptidylprolyl isomerase H (cyclophilin H) (PPIH), transcript variant X6, mRNA
two	205463	ANGPT1	NG_029405	Homo sapiens angiotensinogen 1 (ANGPT1), RefSeqGene on chromosome 8	Extracellular Space	growth factor	NM_213959	Sus scrofa angiotensinogen 1 (ANGPT1), mRNA >gi 13182932 gb AF233227.1 AF233227.7 Sus scrofa angiotensinogen 1 mRNA, complete cds
two	205501	SUSD4	XM_006711408	PREDICTED: Homo sapiens sushi domain containing 4 (SUSD4), transcript variant X6, mRNA	Other	other	XM_003130572	PREDICTED: Sus scrofa sushi domain containing 4 (SUSD4), mRNA
two	205509	FSHB	NM_001018080	Homo sapiens follicle stimulating hormone, beta polypeptide (FSHB), transcript variant 2, mRNA	Extracellular Space	other	AK349340	Sus scrofa mRNA, clone:PTG010050C06, expressed in pituitary gland
two	205517		AC117414	Homo sapiens 3 BAC RP11-48F14 (Roswell Park Cancer Institute Human BAC Library) complete sequence			CU207358	Pig DNA sequence from clone CH242-486N13 on chromosome X, complete sequence
two	205529	NXNL2	XM_005251726	PREDICTED: Homo sapiens nucleoredoxin-like 2 (NXNL2), transcript variant X1, mRNA	Other	transporter	XM_005670384	PREDICTED: Sus scrofa nucleoredoxin-like 2 (NXNL2), transcript variant X3, mRNA
two	205541		AL133453	Human chromosome 14 DNA sequence BAC R-841O20 of library RPCI-11 from chromosome 14 of Homo sapiens (Human), complete sequence			CU694563	Pig DNA sequence from clone CH242-206F23 on chromosome X, complete sequence
two	205551	STOX1	NG_012975	Homo sapiens storkhead box 1 (STOX1), RefSeqGene on chromosome 10	Cytoplasm	other	XM_005657386	PREDICTED: Sus scrofa storkhead box 1 (STOX1), transcript variant X3, mRNA
two	205568	PRL	BC088370	Homo sapiens prolactin, mRNA (cDNA clone MGC:111116 IMAGE:30393428), complete cds	Extracellular Space	cytokine	XM_005665624	PREDICTED: Sus scrofa prolactin (PRL), transcript variant X1, mRNA
two	205598	LIPM	XM_005269764	PREDICTED: Homo sapiens lipase, family member M (LIPM), transcript variant X1, mRNA >gi 219520846 gb BC171908.1 Homo sapiens lipase, family member M, mRNA (cDNA clone MGC:198623 IMAGE:9054562), complete cds	Extracellular Space	enzyme	AK396405	Sus scrofa mRNA, clone: PST010023G03, expressed in prostate
two	205633	WRAP53	AK001247	Homo sapiens cDNA FLJ10385 fis, clone NT2RM2002128, weakly similar to PUTATIVE SERINE/THREONINE-PROTEIN KINASE PKWA (EC 2,7,1,-)	Nucleus	other	XM_003131944	PREDICTED: Sus scrofa WD repeat containing, antisense to TP53 (WRAP53), mRNA
two	205670	LPHN1	XM_006722689	PREDICTED: Homo sapiens latrophilin 1 (LPHN1), transcript variant X4, mRNA	Plasma Membrane	G-protein coupled receptor	AK389348	Sus scrofa mRNA, clone: ADR010051E01, expressed in adrenal gland

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two	205687	SNTB2	XM_005256120	PREDICTED: Homo sapiens syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa, basic component 2) (SNTB2), transcript variant X1, mRNA	Plasma Membrane	other	FQ073830	Pig DNA sequence from clone CH242-144112 on chromosome X, complete sequence
two	205728	TBL1XR1	XM_006713746	PREDICTED: Homo sapiens transducin (beta)-like 1 X-linked receptor 1 (TBL1XR1), transcript variant X8, mRNA	Nucleus	transcription regulator	XM_003132542	PREDICTED: Sus scrofa transducin (beta)-like 1 X-linked receptor 1 (TBL1XR1), transcript variant 1, mRNA
two	205825	PITPNM3	NG_016020	Homo sapiens PITPNM family member 3 (PITPNM3), RefSeqGene on chromosome 17	Cytoplasm	transporter	XM_003131890	PREDICTED: Sus scrofa PITPNM family member 3 (PITPNM3), mRNA
two	205826	CGRRF1	AL359792	Human chromosome 14 DNA sequence BAC R-794A8 of library RPCI-11 from chromosome 14 of Homo sapiens (Human), complete sequence			XM_003360651	PREDICTED: Sus scrofa cell growth regulator with ring finger domain 1 (CGRRF1), mRNA
two	205832	TMEM39A	XM_006713687	PREDICTED: Homo sapiens transmembrane protein 39A (TMEM39A), transcript variant X3, mRNA	Other	other	XM_003132656	PREDICTED: Sus scrofa transmembrane protein 39A (TMEM39A), mRNA
two	205837	PSMA6	NM_001282234	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 6 (PSMA6), transcript variant 4, mRNA	Cytoplasm	peptidase	XM_005656294	PREDICTED: Sus scrofa proteasome (prosome, macropain) subunit, alpha type, 6 (PSMA6), transcript variant X3, mRNA
two	205849	DAP3	XM_005245482	PREDICTED: Homo sapiens death associated protein 3 (DAP3), transcript variant X4, mRNA	Cytoplasm	other	XM_005658354	PREDICTED: Sus scrofa 28S ribosomal protein S29, mitochondrial-like (LOC100625274), transcript variant X4, mRNA
two	205901	C3orf70	NM_001025266	Homo sapiens chromosome 3 open reading frame 70 (C3orf70), mRNA	Other	other	XM_003358734	PREDICTED: Sus scrofa enoyl-CoA, hydratase/3-hydroxyacyl CoA dehydrogenase (EHHADH), mRNA
two	205962	ALDH1A2	NG_012259	Homo sapiens aldehyde dehydrogenase 1 family, member A2 (ALDH1A2), RefSeqGene on chromosome 15	Cytoplasm	enzyme	AK343340	Sus scrofa mRNA, clone:ADR010041B01, expressed in adrenal gland
two	205987		AC234940	Homo sapiens FOSMID clone ABC8-757522H24 from chromosome unknown, complete sequence			NM_001038000	Sus scrofa FKBP1A-like (LOC654323), mRNA >gi 61098746 gb AY820760.1 Sus scrofa FKBP1A-like mRNA, complete cds
two	206032	DPH3	BC094863	Homo sapiens cDNA clone IMAGE:4843485	Cytoplasm	other	NM_001243616	Sus scrofa DPH3, KT111 homolog (S, cerevisiae) (DPH3), mRNA
two	206042	TXNRD3	AC078867	Homo sapiens 3 BAC RP11-605F14 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_005669829	PREDICTED: Sus scrofa thioredoxin reductase 3 (TXNRD3), partial mRNA

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two	206066	PALB2	AK025469	Homo sapiens cDNA: FLJ21816 fis, clone HEP01116	Nucleus	other	XM_005656763	PREDICTED: Sus scrofa partner and localizer of BRCA2 (PALB2), transcript variant X2, mRNA
two	206071	TMEM66	NM_001284239	Homo sapiens transmembrane protein 66 (TMEM66), transcript variant 2, mRNA	Cytoplasm	ion channel	AK232505	Sus scrofa mRNA, clone:LVR010058A04, expressed in liver
two	206105	SPIRE1	XM_006722334	PREDICTED: Homo sapiens spire-type actin nucleation factor 1 (SPIRE1), transcript variant X4, mRNA	Cytoplasm	other	XM_003356347	PREDICTED: Sus scrofa spire homolog 1 (Drosophila) (SPIRE1), partial mRNA
two	206139	CENPW	NM_001012507	Homo sapiens centromere protein W (CENPW), transcript variant 2, mRNA	Nucleus	other	XM_003121218	PREDICTED: Sus scrofa centromere protein W (CENPW), transcript variant X1, mRNA
two	206152	CNTRL	XM_006716943	PREDICTED: Homo sapiens centriolin (CNTRL), transcript variant X5, mRNA	Nucleus	transcription regulator	XM_005660404	PREDICTED: Sus scrofa centriolin (CNTRL), mRNA
two	206154	PDE6H	NM_006205	Homo sapiens phosphodiesterase 6H, cGMP-specific, cone, gamma (PDE6H), mRNA	Cytoplasm	enzyme	NM_001244244	Sus scrofa phosphodiesterase 6H, cGMP-specific, cone, gamma (PDE6H), mRNA
two	206193		Z97832	Human DNA sequence from clone RP3-329A5 on chromosome 6p21,1-21,33, complete sequence			XR_304406	PREDICTED: Sus scrofa signal peptide, CUB and EGF-like domain-containing protein 3-like (LOC100738130), misc_RNA
two	206212	C21orf59	HQ447226	Synthetic construct Homo sapiens clone IMAGE:100070528; CCSD003442_01 chromosome 21 open reading frame 59 (C21orf59) gene, encodes complete protein	Cytoplasm	other	XM_003132752	PREDICTED: Sus scrofa chromosome 13 open reading frame, human C21orf59 (C13H21orf59), mRNA
two	206228	BNIP2	AK125533	Homo sapiens cDNA FLJ43545 fis, clone PROST2011631	Cytoplasm	other	AY609705	Sus scrofa clone Clu_26808,scr,msk,p1,Contig1, mRNA sequence
two	206243	ATP1B3	AK293697	Homo sapiens cDNA FLJ50753 complete cds, highly similar to Sodium/potassium-transporting ATPase subunit beta-3	Plasma Membrane	transporter	XM_005669914	PREDICTED: Sus scrofa ATPase, Na ⁺ /K ⁺ transporting, beta 3 polypeptide (ATP1B3), partial mRNA
two	206294		NG_007345	Homo sapiens transcription factor A, mitochondrial pseudogene 2 (TFAMP2) on chromosome 11			AK391541	Sus scrofa mRNA, clone: DCI010108H11, expressed in dendritic cells (immature)
two	206363	MFF	XM_006712639	PREDICTED: Homo sapiens mitochondrial fission factor (MFF), transcript variant X11, mRNA	Cytoplasm	other	AK391131	Sus scrofa mRNA, clone: CLNT10072G05, expressed in colon
two	206380	AS3MT	AY817668	Homo sapiens arsenic (+3 oxidation state) methyltransferase (AS3MT) gene, complete cds	Cytoplasm	enzyme	FP104531	Pig DNA sequence from clone CH242-222L13 on chromosome X, complete sequence
two	206414	NDUFA9	NG_032124	Homo sapiens NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 9, 39kDa (NDUFA9), RefSeqGene on chromosome 12	Cytoplasm	enzyme	FP340301	Pig DNA sequence from clone CH242-201L14 on chromosome X, complete sequence

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two	206487	CCDC18	NM_206886	Homo sapiens coiled-coil domain containing 18 (CCDC18), mRNA	Other	other	XM_005663671	PREDICTED: Sus scrofa coiled-coil domain-containing protein 18-like (LOC100518781), partial mRNA
two	206559	NPAT	NM_002519	Homo sapiens nuclear protein, ataxia-telangiectasia locus (NPAT), mRNA	Nucleus	transcription regulator	XM_003357277	PREDICTED: Sus scrofa nuclear protein, ataxia-telangiectasia locus (NPAT), partial mRNA
two	206629	CLN5	NG_009064	Homo sapiens ceroid-lipofuscinosis, neuronal 5 (CLN5), RefSeqGene on chromosome 13	Cytoplasm	other	XM_005668472	PREDICTED: Sus scrofa ceroid-lipofuscinosis, neuronal 5 (CLN5), mRNA
two	206636	MMP3	BC107490	Homo sapiens matrix metalloproteinase 3 (stromelysin 1, progelatinase), mRNA (cDNA clone MGC:126102 IMAGE:40033168), complete cds	Extracellular Space	peptidase	AK391220	Sus scrofa mRNA, clone: DCI010011D03, expressed in dendritic cells (immature)
two	206682		NG_029147	Homo sapiens nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3 (NFATC3), RefSeqGene on chromosome 16			AK351491	Sus scrofa mRNA, clone:THY010018E12, expressed in thymus
two	206702	SLC20A1	BC016752	Homo sapiens cDNA clone IMAGE:2959721, **** WARNING: chimeric clone ****			XM_003484319	PREDICTED: Sus scrofa solute carrier family 20 (phosphate transporter), member 1 (SLC20A1), mRNA
two	206704	FA2H	NG_017070	Homo sapiens fatty acid 2-hydroxylase (FA2H), RefSeqGene on chromosome 16	Cytoplasm	enzyme	AK392409	Sus scrofa mRNA, clone: HTMT10072B04, expressed in hypothalamus
two	206730	NTS	NM_006183	Homo sapiens neurotensin (NTS), mRNA	Extracellular Space	other	XM_003481758	PREDICTED: Sus scrofa neurotensin (NTS), mRNA
two	206762	SRRM1	XM_005245722	PREDICTED: Homo sapiens serine/arginine repetitive matrix 1 (SRRM1), transcript variant X6, mRNA	Nucleus	other	XM_005665109	PREDICTED: Sus scrofa serine/arginine repetitive matrix 1 (SRRM1), transcript variant X14, mRNA
two	206764	ZNF532	AK122835	Homo sapiens cDNA FLJ16444 fis, clone BRAMY3008335	Other	other	XM_005659844	PREDICTED: Sus scrofa zinc finger protein 532 (ZNF532), transcript variant X2, mRNA
two	206775	ANXA7	XM_005269739	PREDICTED: Homo sapiens annexin A7 (ANXA7), transcript variant X2, mRNA	Plasma Membrane	ion channel	XM_005671105	PREDICTED: Sus scrofa annexin A7 (ANXA7), transcript variant X7, mRNA
two	206799	UQCRQ	NG_012221	Homo sapiens ubiquinol-cytochrome c reductase, complex III subunit VII, 9,5kDa (UQCRQ), RefSeqGene on chromosome 5	Cytoplasm	enzyme	CU407038	Pig DNA sequence from clone CH242-18J12 on chromosome 2, complete sequence
two	206803	C19orf40	AK309396	Homo sapiens cDNA, FLJ99437	Nucleus	other	XM_003355844	PREDICTED: Sus scrofa chromosome 6 open reading frame, human C19orf40 (C6H19orf40), transcript variant 2, mRNA

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two	206806	WAC	AK223600	Homo sapiens mRNA for WW domain-containing adapter with a coiled-coil region isoform 1 variant, clone: FCC131G06	Nucleus	other	XM_003130704	PREDICTED: Sus scrofa WW domain containing adaptor with coiled-coil (WAC), transcript variant 1, mRNA
two	206821	IQGAP2	XM_006714522	PREDICTED: Homo sapiens IQ motif containing GTPase activating protein 2 (IQGAP2), transcript variant X7, mRNA	Cytoplasm	other	XM_005661499	PREDICTED: Sus scrofa ras GTPase-activating-like protein IQGAP2-like (LOC102165085), mRNA
two	206846	WDR12	NM_018256	Homo sapiens WD repeat domain 12 (WDR12), mRNA	Cytoplasm	other	XM_005672104	PREDICTED: Sus scrofa WD repeat domain 12 (WDR12), transcript variant X3, mRNA
two	206851	TAF1A	XM_006711613	PREDICTED: Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polymerase I, A, 48kDa (TAF1A), transcript variant X5, mRNA	Nucleus	transcription regulator	XM_003130511	PREDICTED: Sus scrofa TATA box binding protein (TBP)-associated factor, RNA polymerase I, A, 48kDa (TAF1A), transcript variant X1, mRNA
two	206874		AP001873	Homo sapiens genomic DNA, chromosome 11q clone:CTD-2011H1, complete sequence			AK392146	Sus scrofa mRNA, clone: HTMT10053A09, expressed in hypothalamus
two	206920	OLFML2B	XM_005245076	PREDICTED: Homo sapiens olfactomedin-like 2B (OLFML2B), transcript variant X2, mRNA	Extracellular Space	other	XM_001924407	PREDICTED: Sus scrofa olfactomedin-like 2B (OLFML2B), transcript variant X1, mRNA
two	206921	CISD1	XM_006717916	PREDICTED: Homo sapiens CDGSH iron sulfur domain 1 (CISD1), transcript variant X1, mRNA	Cytoplasm	other	AK343385	Sus scrofa mRNA, clone:ADR010054F06, expressed in adrenal gland
two	206961	KRT27	NM_181537	Homo sapiens keratin 27 (KRT27), mRNA	Other	other	AK397400	Sus scrofa mRNA, clone: SKNB10091H11, expressed in skin
two	206968		AC244150	Homo sapiens FOSMID clone ABC8-40872100O7 from chromosome unknown, complete sequence			AK397258	Sus scrofa mRNA, clone: SKNB10040B01, expressed in skin
two	206971	SMARCA5	NM_003601	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 5 (SMARCA5), mRNA	Nucleus	transcription regulator	XM_003129174	PREDICTED: Sus scrofa SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 5 (SMARCA5), mRNA
two	206981	CCDC93	XM_006712598	PREDICTED: Homo sapiens coiled-coil domain containing 93 (CCDC93), transcript variant X2, mRNA	Extracellular Space	other	XM_001927273	PREDICTED: Sus scrofa coiled-coil domain containing 93 (CCDC93), mRNA
two	207004	RAP1GDS1	XM_006714285	PREDICTED: Homo sapiens RAP1, GTP-GDP dissociation stimulator 1 (RAP1GDS1), transcript variant X2, mRNA	Cytoplasm	other	AK231972	Sus scrofa mRNA, clone:LNG010059B06, expressed in lung
two	207059		AB463433	Synthetic construct DNA, clone: pF1KB8199, Homo sapiens BTF3 gene for basic transcription factor 3, without stop codon, in Flexi system			XM_005661481	PREDICTED: Sus scrofa basic transcription factor 3 (BTF3), transcript variant X3, mRNA

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two	207108	HRASLS	NM_020386	Homo sapiens HRAS-like suppressor (HRASLS), mRNA	Cytoplasm	enzyme	XM_003132594	PREDICTED: Sus scrofa HRAS-like suppressor (HRASLS), transcript variant X1, mRNA
two	207110	HIF1AN	NM_017902	Homo sapiens hypoxia inducible factor 1, alpha subunit inhibitor (HIF1AN), mRNA	Nucleus	enzyme	XM_003125588	PREDICTED: Sus scrofa hypoxia-inducible factor 1-alpha inhibitor-like (LOC100513467), mRNA >gi 545871599 ref XM_003359328,2
two	207214		AC069063	Homo sapiens 3 BAC RP11-58D2 (Roswell Park Cancer Institute Human BAC Library) complete sequence			CU468992	Pig DNA sequence from clone CH242-238D19 on chromosome X, complete sequence
two	207243	C1orf43	XM_005245077	PREDICTED: Homo sapiens chromosome 1 open reading frame 43 (C1orf43), transcript variant X1, mRNA	Other	other	NM_001204390	Sus scrofa chromosome 1 open reading frame 43 homolog (C4H1orf43), mRNA
two	207265	YWHAZ	XM_005251063	PREDICTED: Homo sapiens tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta (YWHAZ), transcript variant X4, mRNA	Cytoplasm	enzyme	XM_005662949	PREDICTED: Sus scrofa tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide (YWHAZ), transcript variant X2, mRNA
two	207304	NAP1L5	NM_153757	Homo sapiens nucleosome assembly protein 1-like 5 (NAP1L5), mRNA	Other	other	EF619474	Sus scrofa nucleosome assembly protein 1-like 5 (NAP1L5) mRNA, 3 UTR
two	207349	SLC35F3	AL138921	Human DNA sequence from clone RP11-316M21 on chromosome 10, complete sequence			XM_005670968	PREDICTED: Sus scrofa solute carrier family 35, member F3 (SLC35F3), transcript variant X2, mRNA
two	207357	SDHD	AP002414	Homo sapiens genomic DNA, chromosome 18 clone:RP11-815J4, complete sequence			XM_005667324	PREDICTED: Sus scrofa succinate dehydrogenase complex, subunit D, integral membrane protein (SDHD), transcript variant X2, mRNA
two	207433	SLC23A2	XM_006723671	PREDICTED: Homo sapiens solute carrier family 23 (ascorbic acid transporter), member 2 (SLC23A2), transcript variant X5, mRNA	Plasma Membrane	transporter	AY820767	Sus scrofa SLC23A1-like mRNA, 3 UTR
two	207452	SPATA7	NG_021183	Homo sapiens spermatogenesis associated 7 (SPATA7), RefSeqGene on chromosome 14	Other	other	NM_001177908	Sus scrofa spermatogenesis associated 7 (SPATA7), mRNA >gi 292485841 gb GU475000,1
two	207509		FM206294	Cloning vector pchiLGHG1			CU928896	Sus scrofa spermatogenesis associated 7 (SPATA7) mRNA, complete cds Pig DNA sequence from clone CH242-521B23 on chromosome 12, complete sequence
two	207798	PEBP4	AY359109	Homo sapiens clone DNA92274 GWTM1933 (UNQ1933) mRNA, complete cds	Cytoplasm	other	AK349916	Sus scrofa mRNA, clone:SKNB10087H02, expressed in skin

cluster	array id	gene symbols	HSA accession	HSA description	location	property	SSC accession	SSC description
two	207831		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			FQ073831	Pig DNA sequence from clone CH242-131H11 on chromosome X, complete sequence
two	207839	KLRK1	AJ001689	Homo sapiens NKG2D gene, exon 10			XM_005655674	PREDICTED: Sus scrofa killer cell lectin-like receptor subfamily K, member 1 (KLRK1), transcript variant X1, mRNA
two	207862	GNL2	NM_013285	Homo sapiens guanine nucleotide binding protein-like 2 (nucleolar) (GNL2), mRNA	Nucleus	enzyme	XM_003361925	PREDICTED: Sus scrofa guanine nucleotide binding protein-like 2 (nucleolar) (GNL2), mRNA
two	207984	CLUAP1	XM_006720867	PREDICTED: Homo sapiens clusterin associated protein 1 (CLUAP1), transcript variant X1, mRNA	Other	other	NM_001245000	Sus scrofa clusterin associated protein 1 (CLUAP1), mRNA >gi 288784874 dbj AK346084.1 Sus scrofa mRNA, clone:LVRM10039E02, expressed in liver
two	208010	SLCO2A1	FM206294	Cloning vector pchlGHG1			DQ104838	Sus scrofa solute carrier organic anion transporter family member 2A1 (SLCO2A1) gene, exon 6
two	208098	MEIS2	BC007202	Homo sapiens Meis homeobox 2, mRNA (cDNA clone MGC:12955 IMAGE:2964406), complete cds	Nucleus	transcription regulator	AK234783	Sus scrofa mRNA, clone:OVRM10015H03, expressed in ovary
two	208130	TNFSF13B	FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			XM_005668532	PREDICTED: Sus scrofa tumor necrosis factor (ligand) superfamily, member 13b (TNFSF13B), transcript variant X3, mRNA
two	208133	WBP2	AC016954	Homo sapiens 12 BAC RP11-956A19 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_005653881	PREDICTED: Sus scrofa WW domain binding protein 2 (WBP2), transcript variant X3, mRNA
two	208134	NUP50	XM_006724104	PREDICTED: Homo sapiens nucleoporin 50kDa (NUP50), transcript variant X6, mRNA	Nucleus	transporter	XM_005663740	PREDICTED: Sus scrofa nucleoporin 50kDa (NUP50), transcript variant X2, mRNA
two	208166		AL450303	Human DNA sequence from clone RP11-245D2 on chromosome 1, complete sequence			AK348520	Sus scrofa mRNA, clone:OVRM10190D06, expressed in ovary
two	208178	GBE1	NG_011810	Homo sapiens glucan (1,4-alpha-), branching enzyme 1 (GBE1), RefSeqGene on chromosome 3	Cytoplasm	enzyme	XM_003358731	PREDICTED: Sus scrofa chordin (CHRD), mRNA
two	208206	GMCL1	AC019206	Homo sapiens BAC clone RP11-401N16 from 2, complete sequence			XM_003125059	PREDICTED: Sus scrofa germ cell-less, spermatogenesis associated 1 (GMCL1), transcript variant X1, mRNA
two	208249	SRP54	XM_005268024	PREDICTED: Homo sapiens signal recognition particle 54kDa (SRP54), transcript variant X1, mRNA	Cytoplasm	other	XM_005656303	PREDICTED: Sus scrofa signal recognition particle 54kDa (SRP54), transcript variant X4, mRNA

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two	208328	DMTF1	XM_006716206	PREDICTED: Homo sapiens cyclin D binding myb-like transcription factor 1 (DMTF1), transcript variant X12, mRNA	Nucleus	transcription regulator	XM_005656705	PREDICTED: Sus scrofa cyclin D binding myb-like transcription factor 1 (DMTF1), transcript variant X6, mRNA
two	208336	TMEM159	XM_005255439	PREDICTED: Homo sapiens transmembrane protein 159 (TMEM159), transcript variant X2, mRNA	Other	other	XM_005662103	PREDICTED: Sus scrofa dynein heavy chain 3, axonemal-like (LOC100738073), mRNA
two	208395	DDX6	XM_005271418	PREDICTED: Homo sapiens DEAD (Asp-Glu-Ala-Asp) box helicase 6 (DDX6), transcript variant X2, mRNA	Nucleus	enzyme	XM_005667410	PREDICTED: Sus scrofa DEAD (Asp-Glu-Ala-Asp) box helicase 6 (DDX6), transcript variant X4, mRNA
two	208410	CAPN7	XM_006713080	PREDICTED: Homo sapiens calpain 7 (CAPN7), transcript variant X5, mRNA	Cytoplasm	peptidase	EU328309	Sus scrofa ussuricus calpain 7 (CAPN7) mRNA, complete cds
two	208422	AIDA	AC098679	Homo sapiens BAC clone RP11-597D13 from 4, complete sequence			XM_003130513	PREDICTED: Sus scrofa axin interactor, dorsalization associated (AIDA), mRNA
two	208452	TMCO2	NM_001008740	Homo sapiens transmembrane and coiled-coil domains 2 (TMCO2), mRNA	Nucleus	other	XM_003356328	PREDICTED: Sus scrofa transmembrane and coiled-coil domains 2 (TMCO2), mRNA
two	208454	RIPK4	AP001743	Homo sapiens genomic DNA, chromosome 21q, section 87/105	Nucleus	kinase	XR_307297	PREDICTED: Sus scrofa uncharacterized LOC102160655 (LOC102160655), transcript variant X2, misc_RNA
two	208466	MAP7D3	XM_005262472	PREDICTED: Homo sapiens MAP7 domain containing 3 (MAP7D3), transcript variant X1, mRNA	Cytoplasm	other	XM_005657925	PREDICTED: Sus scrofa MAP7 domain containing 3 (MAP7D3), mRNA
two	208473	TEX14	XM_006721978	PREDICTED: Homo sapiens testis expressed 14 (TEX14), transcript variant X5, mRNA	Plasma Membrane	kinase	XR_306517	PREDICTED: Sus scrofa inactive serine/threonine-protein kinase TEX14-like (LOC102160606), transcript variant X2, misc_RNA
two	208476	C11orf74	NR_077243	Homo sapiens chromosome 11 open reading frame 74 (C11orf74), transcript variant 8, long non-coding RNA	Other	other	XM_005658348	PREDICTED: Sus scrofa uncharacterized LOC100624261 (LOC100624261), partial mRNA
two	208479	ZBTB8OS	AK289480	Homo sapiens cDNA FLJ75987 complete cds, highly similar to Homo sapiens zinc finger and BTB domain containing 8 opposite strand (ZBTB8OS), mRNA	Other	other	XM_005665186	PREDICTED: Sus scrofa zinc finger and BTB domain containing 8 opposite strand (ZBTB8OS), mRNA
two	208481	CABS1	NM_033122	Homo sapiens calcium-binding protein, spermatid-specific 1 (CABS1), mRNA	Extracellular Space	other	AY803115	Sus scrofa chromosome 17 clone pkmCon77, mRNA sequence
two	208486	C7orf62	NM_152706	Homo sapiens chromosome 7 open reading frame 62 (C7orf62), mRNA	Other	other	XM_005667574	PREDICTED: Sus scrofa chromosome 9 open reading frame, human C7orf62 (C9H7orf62), transcript variant X4, mRNA

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two	208491		NG_002270	Homo sapiens olfactory receptor, family 4, subfamily V, member 1 pseudogene (OR4V1P) on chromosome 11			XM_003480952	PREDICTED: Sus scrofa olfactory receptor 4P4-like (LOC100737598), mRNA >gi 545889504 ref XM_003360982.2 PREDICTED: Sus scrofa olfactory receptor 4P4-like (LOC100627486), mRNA
two	208493	LOC340107	AC106821	Homo sapiens chromosome 5 clone RP11-730N24, complete sequence	Other	other	XR_116350	PREDICTED: Sus scrofa uncharacterized LOC100523930 (LOC100523930), transcript variant X1, misc_RNA
two	208500	HMGB4	DQ207367	Homo sapiens HMGB4 mRNA, complete cds	Nucleus	other	XM_003361341	PREDICTED: Sus scrofa high mobility group box 4 (HMGB4), mRNA
two	208504	KCNN3	NG_016807	Homo sapiens potassium intermediate/small conductance calcium-activated channel, subfamily N, member 3 (KCNN3), RefSeqGene on chromosome 1	Plasma Membrane	ion channel	NM_213985	Sus scrofa potassium intermediate/small conductance calcium-activated channel, subfamily N, member 3 (KCNN3), mRNA >gi 14699946 gb AY038049.1 Sus scrofa calcium activated potassium channel SK3 (KCNN3) mRNA, complete cds
two	208506	SPTY2D1-AS1	NR_038360	Homo sapiens SPTY2D1 antisense RNA 1 (SPTY2D1-AS1), long non-coding RNA	Other	other	XR_301729	PREDICTED: Sus scrofa uncharacterized LOC100523888 (LOC100523888), misc_RNA
two	208522	CABYR	XM_005258246	PREDICTED: Homo sapiens calcium binding tyrosine-(Y)-phosphorylation regulated (CABYR), transcript variant X2, mRNA	Cytoplasm	other	NM_001256771	Sus scrofa calcium binding tyrosine-(Y)-phosphorylation regulated (CABYR), mRNA
two	208536		AL121712	Human DNA sequence from clone RP4-710H13 on chromosome 20, complete sequence			XR_303677	PREDICTED: Sus scrofa uncharacterized LOC102157946 (LOC102157946), misc_RNA
two	208538	ZPBP2	NM_199321	Homo sapiens zona pellucida binding protein 2 (ZPBP2), transcript variant 2, mRNA	Extracellular Space	other	XM_005653913	PREDICTED: Sus scrofa zona pellucida binding protein 2 (ZPBP2), transcript variant X2, mRNA
two	208539	LYZL1	NM_032517	Homo sapiens lysozyme-like 1 (LYZL1), mRNA	Other	enzyme	XM_003130701	PREDICTED: Sus scrofa lysozyme-like 1 (LYZL1), mRNA
two	208540	CCDC54	DQ893985	Synthetic construct Homo sapiens clone IMAGE:100008445; FLH166286,01L; RZPDo839E1285D coiled-coil domain containing 54 (CCDC54) gene, encodes complete protein	Other	other	XM_005662523	PREDICTED: Sus scrofa ubiquitin carboxyl-terminal hydrolase 34-like (LOC100524738), mRNA
two	208562	RPL18	NM_000979	Homo sapiens ribosomal protein L18 (RPL18), transcript variant 1, mRNA	Cytoplasm	other	XM_005664681	PREDICTED: Sus scrofa ribosomal protein L18 (RPL18), transcript variant X1, mRNA

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two	208574		AC093252	Homo sapiens chromosome 5 clone RP11-15B5, complete sequence			CU928293	Pig DNA sequence from clone CH242-123I23 on chromosome X, complete sequence
two	208575		AC022107	Homo sapiens chromosome 5 clone CTC-351M12, complete sequence			XR_308458	PREDICTED: Sus scrofa uncharacterized LOC102160395 (LOC102160395), transcript variant X1, misc_RNA
two	208583	PKD2L2	XM_005271960	PREDICTED: Homo sapiens polycystic kidney disease 2-like 2 (PKD2L2), transcript variant X1, mRNA	Plasma Membrane	ion channel	XM_005661681	PREDICTED: Sus scrofa polycystic kidney disease 2-like 2 (PKD2L2), mRNA
two	208588		AC105008	Homo sapiens chromosome 8, clone CTD-2589E21, complete sequence			CU151851	Pig DNA sequence from clone CH242-208N23 on chromosome 4, complete sequence
two	208592	SLC25A3P1	AK097753	Homo sapiens cDNA FLJ40434 fis, clone TESTI2039353, moderately similar to MITOCHONDRIAL PHOSPHATE CARRIER PROTEIN PRECURSOR	Other	other	EF171933	Sus scrofa clone KVL15841 microsatellite sequence
two	208596		AC016134	Homo sapiens chromosome 15 clone RP11-380D11 map 15q14, complete sequence			CU856454	Pig DNA sequence from clone CH242-59H15 on chromosome X, complete sequence
two	208614	PTPN2	NG_029116	Homo sapiens protein tyrosine phosphatase, non-receptor type 2 (PTPN2), RefSeqGene on chromosome 18	Cytoplasm	phosphatase	XM_005665272	PREDICTED: Sus scrofa protein tyrosine phosphatase, non-receptor type 2 (PTPN2), mRNA
two	208621	TEX36	NM_001128202	Homo sapiens testis expressed 36 (TEX36), mRNA	Other	other	XM_003133221	PREDICTED: Sus scrofa testis expressed 36 (TEX36), mRNA
two	208624	KIAA1715	AC016915	Homo sapiens BAC clone RP11-514D19 from 2, complete sequence	Cytoplasm	other	XR_308116	PREDICTED: Sus scrofa uncharacterized LOC102158914 (LOC102158914), misc_RNA
two	208625		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AK350401	Sus scrofa mRNA, clone:SPL010056A04, expressed in spleen
two	208626		AP006194	Homo sapiens genomic DNA, chromosome 3, clone:RP11-81G2, complete sequence			AK346922	Sus scrofa mRNA, clone:MLN010076A07, expressed in mesenteric lymph nodes
two	208630	ANKRD7	NM_019644	Homo sapiens ankyrin repeat domain 7 (ANKRD7), mRNA	Nucleus	transcription regulator	XM_003134752	PREDICTED: Sus scrofa ankyrin repeat domain 7 (ANKRD7), transcript variant X1, mRNA
two	208640	LINC00301	HG503806	TPA: Homo sapiens AP004243,1 gene for long non-coding RNA OTTHUMT00000280452,1, lincRNA	Other	other	XM_005660845	PREDICTED: Sus scrofa membrane-spanning 4-domains subfamily A member 12-like (LOC100738504), transcript variant X2, mRNA

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two	208648	SMAD2	NG_029946	Homo sapiens SMAD family member 2 (SMAD2), RefSeqGene on chromosome 18	Nucleus	transcription regulator	XR_300878	PREDICTED: Sus scrofa uncharacterized LOC100624515 (LOC100624515), transcript variant X1, misc_RNA
two	208660	C2orf61	NM_001163561	Homo sapiens chromosome 2 open reading frame 61 (C2orf61), transcript variant 1, mRNA	Nucleus	other	XM_003481221	PREDICTED: Sus scrofa uncharacterized LOC100522546 (LOC100522546), mRNA
two	208664	PDE1A	XM_006712578	PREDICTED: Homo sapiens phosphodiesterase 1A, calmodulin-dependent (PDE1A), transcript variant X8, mRNA	Cytoplasm	enzyme	XM_005671991	PREDICTED: Sus scrofa phosphodiesterase 1A, calmodulin-dependent (PDE1A), transcript variant X3, mRNA
two	208666	CRISP2	AK223337	Homo sapiens mRNA for testis specific protein 1 variant, clone: TST00655	Extracellular Space	other	XM_005666094	PREDICTED: Sus scrofa cysteine-rich secretory protein 2 (CRISP2), transcript variant X1, mRNA
two	208670		AC063979	Homo sapiens chromosome 5 clone RP11-474H20, complete sequence			XM_003134036	PREDICTED: Sus scrofa histone H2B subacrosomal variant-like (LOC100519930), mRNA
two	208680	MEIG1	XM_005252559	PREDICTED: Homo sapiens meiosis/spermiogenesis associated 1 (MEIG1), transcript variant X1, mRNA	Nucleus	other	XM_003357746	PREDICTED: Sus scrofa uncharacterized LOC100626847 (LOC100626847), mRNA
two	208681	PLCZ1	XM_006719162	PREDICTED: Homo sapiens phospholipase C, zeta 1 (PLCZ1), transcript variant X9, mRNA	Cytoplasm	enzyme	NM_214350	Sus scrofa phospholipase c-zeta (PLCZ), mRNA >gi 32400660 dbj AB113581.1 Sus scrofa plcz mRNA for phospholipase c-zeta, complete cds
two	208682	C1orf158	HQ447108	Synthetic construct Homo sapiens clone IMAGE:100070393; CCSB009255_01 chromosome 1 open reading frame 158 (C1orf158) gene, encodes complete protein	Other	other	XM_003481965	PREDICTED: Sus scrofa chromosome 6 open reading frame, human C1orf158 (C6H1orf158), mRNA
two	208696	IMP4	XM_005263844	PREDICTED: Homo sapiens IMP4, U3 small nucleolar ribonucleoprotein, homolog (yeast) (IMP4), transcript variant X1, mRNA	Nucleus	other	XM_005658336	PREDICTED: Sus scrofa IMP4, U3 small nucleolar ribonucleoprotein, homolog (yeast) (IMP4), mRNA
two	208701	CAPZA3	NM_033328	Homo sapiens capping protein (actin filament) muscle Z-line, alpha 3 (CAPZA3), mRNA	Cytoplasm	other	XM_003126448	PREDICTED: Sus scrofa capping protein (actin filament) muscle Z-line, alpha 3 (CAPZA3), transcript variant 1, mRNA
two	208704	TSACC	AY048672	Homo sapiens SSTK-interacting protein mRNA, complete cds, alternatively spliced	Cytoplasm	other	XM_003355128	PREDICTED: Sus scrofa TSSK6 activating co-chaperone (TSACC), mRNA
two	208705	ADAM29	XM_005262705	PREDICTED: Homo sapiens ADAM metallopeptidase domain 29 (ADAM29), transcript variant X2, mRNA	Plasma Membrane	peptidase	XM_001927601	PREDICTED: Sus scrofa ADAM metallopeptidase domain 29 (ADAM29), transcript variant X1, mRNA

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two	208706	ANKEF1	XM_005260792	PREDICTED: Homo sapiens ankyrin repeat and EF-hand domain containing 1 (ANKEF1), transcript variant X1, mRNA	Nucleus	transcription regulator	XM_005672698	PREDICTED: Sus scrofa ankyrin repeat and EF-hand domain containing 1 (ANKEF1), transcript variant X2, mRNA
two	208708	BPIFA3	NM_001042439	Homo sapiens BPI fold containing family A, member 3 (BPIFA3), transcript variant 2, mRNA	Other	other	XM_005672830	PREDICTED: Sus scrofa BPI fold containing family A, member 3 (BPIFA3), transcript variant X1, mRNA
two	208711	AKAP13	XM_005254854	PREDICTED: Homo sapiens A kinase (PRKA) anchor protein 13 (AKAP13), transcript variant X16, mRNA	Cytoplasm	other	XM_001926474	PREDICTED: Sus scrofa A kinase (PRKA) anchor protein 13 (AKAP13), mRNA
two	208720	C1orf185	NM_001136508	Homo sapiens chromosome 1 open reading frame 185 (C1orf185), mRNA	Other	other	XM_005665446	PREDICTED: Sus scrofa chromosome 6 open reading frame, human C1orf185 (C6H1orf185), mRNA
two	208722	TMEM194B	XM_005246213	PREDICTED: Homo sapiens transmembrane protein 194B (TMEM194B), transcript variant X2, mRNA	Other	other	XM_005672034	PREDICTED: Sus scrofa transmembrane protein 194B (TMEM194B), transcript variant X1, mRNA
two	208724	DKKL1	BC030581	Homo sapiens dickkopf-like 1 (soggy), mRNA (cDNA clone MGC:26127 IMAGE:4836991), complete cds	Extracellular Space	other	CR956379	Pig DNA sequence from clone CH242-196P11 on chromosome 7, complete sequence
two	208727	LOC101928944	XR_247697	PREDICTED: Homo sapiens uncharacterized LOC101928944 (RP11-686G23,2), ncRNA >gi 578821942 ref XR_247270,2 PREDICTED: Homo sapiens uncharacterized LOC101928944 (RP11-686G23,2), ncRNA >gi 578845164 ref XR_252940,2 PREDICTED: Homo sapiens uncharacterized LOC101928944 (RP11-686G23,2), ncRNA >gi 551871165 tpe HG504044,1 TPA: Homo sapiens RP11-686G23,2 gene for long non-coding RNA OTTHUMT00000391477,1, lincRNA	Other	other	FP236485	Pig DNA sequence from clone CH242-240O16 on chromosome X, complete sequence
two	208729	LMTK2	NG_013375	Homo sapiens lemur tyrosine kinase 2 (LMTK2), RefSeqGene on chromosome 7	Cytoplasm	kinase	XM_005661852	PREDICTED: Sus scrofa lemur tyrosine kinase 2 (LMTK2), mRNA
two	208730	OTUB2	HQ447541	Synthetic construct Homo sapiens clone IMAGE:100070880; CCSD014857_01 OTU domain, ubiquitin aldehyde binding 2 (OTUB2) gene, encodes complete protein	Nucleus	enzyme	XM_001925368	PREDICTED: Sus scrofa OTU domain, ubiquitin aldehyde binding 2 (OTUB2), transcript variant X1, mRNA
two	208731	PSPH	NG_009001	Homo sapiens phosphoserine phosphatase pseudogene 1 (PSPHP1) on chromosome 7			XM_005662002	PREDICTED: Sus scrofa phosphoserine phosphatase (PSPH), transcript variant X3, mRNA

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two	208733	TULP2	NM_003323	Homo sapiens tubby like protein 2 (TULP2), mRNA	Other	enzyme	XM_005664713	PREDICTED: Sus scrofa tubby-related protein 2-like (LOC100511262), mRNA
two	208736	HINT3	NM_138571	Homo sapiens histidine triad nucleotide binding protein 3 (HINT3), mRNA	Other	other	XM_001928728	PREDICTED: Sus scrofa histidine triad nucleotide binding protein 3 (HINT3), transcript variant X1, mRNA
two	208739	DMRT1	AJ276801	Homo sapiens mRNA for doublesex and mab-3 related transcription factor 1 (DMRT1)	Nucleus	other	AK394765	Sus scrofa mRNA, clone: OVR010001F11, expressed in ovary
two	208743	PRSS58	NM_001001317	Homo sapiens protease, serine, 58 (PRSS58), mRNA	Other	peptidase	XM_003134596	PREDICTED: Sus scrofa probable inactive serine protease 58-like (LOC100526087), transcript variant X1, mRNA
two	208750	APTR	AC090421	Homo sapiens BAC clone RP11-441N19 from 7, complete sequence	Other	other	AK396309	Sus scrofa mRNA, clone: PST010007B06, expressed in prostate
two	208755	PDCL2	NM_152401	Homo sapiens phosducin-like 2 (PDCL2), mRNA	Other	other	XM_005666709	PREDICTED: Sus scrofa phosducin-like 2 (PDCL2), transcript variant X3, mRNA
two	208763	HRASLS5	NM_054108	Homo sapiens HRAS-like suppressor family, member 5 (HRASLS5), transcript variant 1, mRNA	Other	other	XM_005654666	PREDICTED: Sus scrofa Ca(2+)-independent N-acyltransferase-like (LOC100627034), partial mRNA
two	208765	SNX3	XM_005267192	PREDICTED: Homo sapiens sorting nexin 3 (SNX3), transcript variant X2, mRNA	Cytoplasm	transporter	XM_005659361	PREDICTED: Sus scrofa sorting nexin 3 (SNX3), mRNA
two	208773		BC043279	Homo sapiens cDNA clone IMAGE:5297259			AK396824	Sus scrofa mRNA, clone: PST010098A07, expressed in prostate
two	208774	MS4A5	NM_023945	Homo sapiens membrane-spanning 4-domains, subfamily A, member 5 (MS4A5), mRNA >gi 20988638 gb BC029884.1 Homo sapiens membrane-spanning 4-domains, subfamily A, member 5, mRNA (cDNA clone MGC:34184 IMAGE:5171526), complete cds	Other	other	XM_003353839	PREDICTED: Sus scrofa membrane-spanning 4-domains, subfamily A, member 5 (MS4A5), transcript variant X1, mRNA
two	208785	FAM209A	NM_001012971	Homo sapiens family with sequence similarity 209, member A (FAM209A), mRNA	Other	other	NM_001113700	Sus scrofa chromosome 20 open reading frame 106 ortholog (C17H20orf106), mRNA
two	208789	LOC100128651	AK127243	Homo sapiens cDNA FLJ45310 fis, clone BRHIP3004774	Other	other	XR_304728	PREDICTED: Sus scrofa uncharacterized LOC102164421 (LOC102164421), transcript variant X1, misc_RNA >gi 545889598 ref XR_299953.1 PREDICTED: Sus scrofa uncharacterized LOC102167696 (LOC102167696), transcript variant X1, misc_RNA

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two	208792	SLC7A11	NM_014331	Homo sapiens solute carrier family 7 (anionic amino acid transporter light chain, xc- system), member 11 (SLC7A11), mRNA	Plasma Membrane	transporter	CU695181	Pig DNA sequence from clone CH242-182C12 on chromosome 13, complete sequence
two	208799	FAM177A1	NM_001289022	Homo sapiens family with sequence similarity 177, member A1 (FAM177A1), transcript variant 3, mRNA	Other	other	XM_005656298	PREDICTED: Sus scrofa family with sequence similarity 177, member A1 (FAM177A1), transcript variant X1, mRNA
two	208803	DNAH6	XM_006711956	PREDICTED: Homo sapiens dynein, axonemal, heavy chain 6 (DNAH6), transcript variant X1, mRNA	Extracellular Space	other	XM_003124971	PREDICTED: Sus scrofa dynein heavy chain 6, axonemal-like (LOC100524250), mRNA
two	208807	FAM229B	BC044912	Homo sapiens chromosome 6 open reading frame 225, mRNA (cDNA clone MGC:44120 IMAGE:5286266), complete cds	Other	other	XM_003353291	PREDICTED: Sus scrofa protein FAM229B-like (LOC100623109), transcript variant X3, mRNA
two	208815	BEST1	XM_006718678	PREDICTED: Homo sapiens bestrophin 1 (BEST1), transcript variant X16, mRNA	Plasma Membrane	ion channel	XR_301608	PREDICTED: Sus scrofa bestrophin 1 (BEST1), transcript variant X4, misc_RNA
two	208823	H1FNT	AB121028	Homo sapiens HANP1 mRNA for haploid germ cell-specific nuclear protein 1, complete cds	Nucleus	other	XM_003126650	PREDICTED: Sus scrofa testis-specific H1 histone-like (LOC100516553), mRNA
two	208824	AKAP4	AK292463	Homo sapiens cDNA FLJ75856 complete cds, highly similar to Homo sapiens A kinase (PRKA) anchor protein 4 (AKAP4), transcript variant 1, mRNA	Cytoplasm	other	XM_005657807	PREDICTED: Sus scrofa A kinase (PRKA) anchor protein 4 (AKAP4), transcript variant X2, mRNA
two	208826	IPMK	NM_152230	Homo sapiens inositol polyphosphate multikinase (IPMK), mRNA	Nucleus	kinase	XM_003359283	PREDICTED: Sus scrofa inositol polyphosphate multikinase-like (LOC100623323), mRNA
two	208834	LOC102724073	XM_006721620	PREDICTED: Homo sapiens spermatid maturation protein 1-like (LOC102724073), transcript variant X5, mRNA >gi 578846285 ref XM_006726710,1 PREDICTED: Homo sapiens spermatid maturation protein 1-like (LOC102724073), transcript variant X5, mRNA	Other	other	CU862030	Pig DNA sequence from clone CH242-145N14 on chromosome X, complete sequence
two	208835	LOC100505841	NM_001195535	Homo sapiens zinc finger protein 474-like (LOC100505841), mRNA	Other	other	XM_003123868	PREDICTED: Sus scrofa zinc finger protein 474-like (LOC100525452), transcript variant X1, mRNA
two	208836	FCGR1A	X14356	Human mRNA for high affinity Fc receptor (FcRI)	Plasma Membrane	transmembrane receptor	XM_005663512	PREDICTED: Sus scrofa Fc fragment of IgG, high affinity Ia, receptor (CD64) (FCGR1A), transcript variant X4, mRNA

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two	208838	KNSTRN	XM_005254756	PREDICTED: Homo sapiens kinetochore-localized astrin/SPAG5 binding protein (KNSTRN), transcript variant X1, mRNA	Cytoplasm	other	XM_003121596	PREDICTED: Sus scrofa kinetochore-localized astrin/SPAG5 binding protein (KNSTRN), transcript variant X1, mRNA
two	208842	CACNA2D1	XM_006716121	PREDICTED: Homo sapiens calcium channel, voltage-dependent, alpha 2/delta subunit 1 (CACNA2D1), transcript variant X10, mRNA	Plasma Membrane	ion channel	XM_005667685	PREDICTED: Sus scrofa calcium channel, voltage-dependent, alpha 2/delta subunit 1 (CACNA2D1), transcript variant X4, mRNA
two	208850		AC010255	Homo sapiens chromosome 5 clone CTC-441N14, complete sequence			CU914604	Pig DNA sequence from clone CH242-170P19 on chromosome X, complete sequence
two	208889	CA9	BC014950	Homo sapiens carbonic anhydrase IX, mRNA (cDNA clone MGC:22967 IMAGE:4865275), complete cds	Nucleus	enzyme	XM_005660228	PREDICTED: Sus scrofa carbonic anhydrase IX (CA9), transcript variant X3, mRNA
two	208895		AC106763	Homo sapiens chromosome 5 clone RP11-21C10, complete sequence			XM_003135459	PREDICTED: Sus scrofa spermatid nuclear transition protein 4-like (LOC100154249), mRNA
two	208897	USP50	NM_203494	Homo sapiens ubiquitin specific peptidase 50 (USP50), mRNA	Other	other	XM_005659608	PREDICTED: Sus scrofa putative ubiquitin carboxyl-terminal hydrolase 50-like (LOC100156336), transcript variant X2, mRNA
two	208903	SIL1	XM_006714671	PREDICTED: Homo sapiens SIL1 nucleotide exchange factor (SIL1), transcript variant X1, mRNA	Cytoplasm	transporter	AK398189	Sus scrofa mRNA, clone: TES010031G05, expressed in testis
two	208923		AP001494	Homo sapiens genomic DNA, chromosome 11q clone:RP11-791J7, complete sequence			CU856065	Pig DNA sequence from clone CH242-85110 on chromosome 2, complete sequence
two	208931	UBL4B	HQ448068	Synthetic construct Homo sapiens clone IMAGE:100071448; CC5B012026_01 ubiquitin-like 4B (UBL4B) gene, encodes complete protein	Other	other	XM_005658190	PREDICTED: Sus scrofa ubiquitin-like protein 4B-like (LOC100157648), mRNA
two	208935	C12orf66	NM_152440	Homo sapiens chromosome 12 open reading frame 66 (C12orf66), mRNA	Other	other	XM_003126348	PREDICTED: Sus scrofa chromosome 5 open reading frame, human C12orf66 (C5H12orf66), mRNA
two	208945	TPPP2	XM_005267324	PREDICTED: Homo sapiens tubulin polymerization-promoting protein family member 2 (TPPP2), transcript variant X1, mRNA	Nucleus	other	XM_003361997	PREDICTED: Sus scrofa tubulin polymerization-promoting protein family member 2 (TPPP2), mRNA
two	208960	BLOC1S4	NM_018366	Homo sapiens biogenesis of lysosomal organelles complex-1, subunit 4, cappuccino (BLOC1S4), mRNA	Cytoplasm	other	XM_005672938	PREDICTED: Sus scrofa phospholipase C, gamma 1 (PLCG1), partial mRNA

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two	208962	DYNC1LI2	NM_001286157	Homo sapiens dynein, cytoplasmic 1, light intermediate chain 2 (DYNC1LI2), transcript variant 2, mRNA	Cytoplasm	other	NM_001243620	Sus scrofa dynein, cytoplasmic 1, light intermediate chain 2 (DYNC1LI2), mRNA >gi 288781671 dbj AK350541.1 Sus scrofa mRNA, clone:SPL010088H04, expressed in spleen
two	208971		NG_030345	Homo sapiens tetratricopeptide repeat domain 21B (TTC21B), RefSeqGene on chromosome 2			XM_005671895	PREDICTED: Sus scrofa tetratricopeptide repeat protein 21B-like (LOC100515974), transcript variant X2, mRNA
two	208981	ODF1	NM_024410	Homo sapiens outer dense fiber of sperm tails 1 (ODF1), mRNA	Cytoplasm	other	XM_005658232	PREDICTED: Sus scrofa outer dense fiber protein 1-like (LOC100625517), mRNA
two	208983	C2orf49	XM_005264020	PREDICTED: Homo sapiens chromosome 2 open reading frame 49 (C2orf49), transcript variant X2, mRNA	Other	other	XR_302309	PREDICTED: Sus scrofa uncharacterized LOC100736993 (LOC100736993), misc_RNA
two	208987		NG_002156	Homo sapiens olfactory receptor, family 8, subfamily B, member 1 pseudogene (OR8B1P) on chromosome 11			XR_305427	PREDICTED: Sus scrofa uncharacterized LOC100516097 (LOC100516097), transcript variant X1, misc_RNA
two	208996	APOBEC3	AC010423	Homo sapiens chromosome 5 clone CTD-2193G5, complete sequence	Other	other	FJ042938	Sus scrofa CBX6 gene, complete sequence; and APOBEC3F (APOBEC3) gene, complete cds, alternatively spliced
two	208997	SCP2D1	AL035563	Human DNA sequence from clone RP5-1068E13 on chromosome 20p11,21-12,3, complete sequence			XM_005672730	PREDICTED: Sus scrofa SCP2 sterol-binding domain containing 1 (SCP2D1), mRNA
two	209000	TTK	NM_001166691	Homo sapiens TTK protein kinase (TTK), transcript variant 2, mRNA	Nucleus	kinase	XM_005659414	PREDICTED: Sus scrofa TTK protein kinase (TTK), mRNA
two	209005	CAMK4	NM_001744	Homo sapiens calcium/calmodulin-dependent protein kinase IV (CAMK4), mRNA	Nucleus	kinase	XM_003123825	PREDICTED: Sus scrofa calcium/calmodulin-dependent protein kinase IV (CAMK4), mRNA
two	209008	HORMAD1	XM_006711571	PREDICTED: Homo sapiens HORMA domain containing 1 (HORMAD1), transcript variant X3, mRNA	Nucleus	other	NM_001194981	Sus scrofa HORMA domain containing 1 (HORMAD1), mRNA >gi 300827486 gb HM627267.1 Sus scrofa HORMA domain containing 1 (HORMAD1) mRNA, complete cds
two	209010	FAM76B	BC026013	Homo sapiens family with sequence similarity 76, member B, mRNA (cDNA clone MGC:33371 IMAGE:5270248), complete cds	Nucleus	other	XM_005667260	PREDICTED: Sus scrofa family with sequence similarity 76, member B (FAM76B), transcript variant X5, mRNA

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two	209016	NUDT21	NM_007006	Homo sapiens nudix (nucleoside diphosphate linked moiety X)-type motif 21 (NUDT21), mRNA	Nucleus	other	NM_001244247	Sus scrofa nudix (nucleoside diphosphate linked moiety X)-type motif 21 (NUDT21), mRNA >gi 288783936 dbj AK345551.1 Sus scrofa mRNA, clone:LNG010059F07, expressed in lung
two	209017	DLGAP2	XM_005266038	PREDICTED: Homo sapiens discs, large (Drosophila) homolog-associated protein 2 (DLGAP2), transcript variant X1, mRNA	Plasma Membrane	other	XM_005652429	PREDICTED: Sus scrofa discs, large (Drosophila) homolog-associated protein 2 (DLGAP2), transcript variant X1, mRNA
two	209032	NUCKS1	XM_005245453	PREDICTED: Homo sapiens nuclear casein kinase and cyclin-dependent kinase substrate 1 (NUCKS1), transcript variant X1, mRNA	Nucleus	kinase	XM_005667533	PREDICTED: Sus scrofa nuclear casein kinase and cyclin-dependent kinase substrate 1 (NUCKS1), transcript variant X1, mRNA
two	209044	ZFP36L2	NM_006887	Homo sapiens ZFP36 ring finger protein-like 2 (ZFP36L2), mRNA	Nucleus	transcription regulator	XM_003125190	PREDICTED: Sus scrofa ZFP36 ring finger protein-like 2 (ZFP36L2), mRNA
two	209045	TDRD1	XM_005269978	PREDICTED: Homo sapiens tudor domain containing 1 (TDRD1), transcript variant X1, mRNA	Cytoplasm	other	XM_005671468	PREDICTED: Sus scrofa tudor domain containing 1 (TDRD1), mRNA
two	209059		AC027288	Homo sapiens 12 BAC RP11-359M6 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_003361598	PREDICTED: Sus scrofa nucleolar protein 56-like (LOC100624528), mRNA
two	209077		FM206294	Cloning vector pchIHGHG1			XR_297089	PREDICTED: Sus scrofa uncharacterized LOC100516649 (LOC100516649), transcript variant X1, misc_RNA
two	209089	MROH2B	CR749346	Homo sapiens mRNA; cDNA DKFZp781F0822 (from clone DKFZp781F0822)	Other	other	XM_003133911	PREDICTED: Sus scrofa HEAT repeat family member 7B2 (HEATR7B2), partial mRNA
two	209093	ROPN1	XM_005247551	PREDICTED: Homo sapiens raphilin associated tail protein 1 (ROPN1), transcript variant X3, mRNA	Cytoplasm	other	NM_001172369	Sus scrofa raphilin associated tail protein 1 (ROPN1), mRNA >gi 285818395 gb GU373671.1 Sus scrofa raphilin associated protein 1 (ROPN1) mRNA, complete cds
two	209106		AC106705	Homo sapiens 3 BAC RP11-262L17 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_005657113	PREDICTED: Sus scrofa xyloside xylosyltransferase 1-like (LOC102161028), mRNA
two	209114	HMGN5	XM_006724690	PREDICTED: Homo sapiens high mobility group nucleosome binding domain 5 (HMGN5), transcript variant X3, mRNA	Nucleus	transcription regulator	FO203367	Pig DNA sequence from clone CH242-198B5 on chromosome X, complete sequence
two	209129	HORMAD2	NM_152510	Homo sapiens HORMA domain containing 2 (HORMAD2), mRNA	Nucleus	other	XM_005670798	PREDICTED: Sus scrofa HORMA domain containing 2 (HORMAD2), transcript variant X7, mRNA

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two	209137	GALNTL5	XM_006715863	PREDICTED: Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase-like 5 (GALNTL5), transcript variant X2, mRNA	Cytoplasm	enzyme	XM_003134544	PREDICTED: Sus scrofa UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase-like 5 (GALNTL5), mRNA
two	209149	ZNF582	XM_006723044	PREDICTED: Homo sapiens zinc finger protein 582 (ZNF582), transcript variant X1, mRNA	Other	other	XM_003356090	PREDICTED: Sus scrofa zinc finger protein 582 (ZNF582), transcript variant X1, mRNA
two	209153	HS3ST3B1	XR_243575	PREDICTED: Homo sapiens heparan sulfate (glucosamine) 3-O-sulfotransferase 3B1 (HS3ST3B1), transcript variant X1, misc_RNA	Cytoplasm	enzyme	XM_005669256	PREDICTED: Sus scrofa heparan sulfate glucosamine 3-O-sulfotransferase 3A1-like (LOC100522213), transcript variant X2, mRNA
two	209178	FANCB	BC136560	Homo sapiens Fanconi anemia, complementation group B, mRNA (cDNA clone MGC:168173 IMAGE:9020550), complete cds	Nucleus	other	XM_005673446	PREDICTED: Sus scrofa Fanconi anemia, complementation group B (FANCB), mRNA
two	209185	GCNT4	NM_016591	Homo sapiens glucosaminyl (N-acetyl) transferase 4, core 2 (GCNT4), mRNA	Cytoplasm	enzyme	XM_005661490	PREDICTED: Sus scrofa glucosaminyl (N-acetyl) transferase 4, core 2 (GCNT4), transcript variant X7, mRNA
two	209187	C1orf100	NM_001012970	Homo sapiens chromosome 1 open reading frame 100 (C1orf100), transcript variant 1, mRNA	Other	other	XM_005667963	PREDICTED: Sus scrofa uncharacterized LOC100514177 (LOC100514177), mRNA
two	209219	MON1B	AC009139	Homo sapiens chromosome 16 clone RP11-538112, complete sequence			XM_003126851	PREDICTED: Sus scrofa MON1 secretory trafficking family member B (MON1B), transcript variant X1, mRNA
two	209223	CTR9	NM_014633	Homo sapiens CTR9, Paf1/RNA polymerase II complex component (CTR9), mRNA	Nucleus	other	XM_003353950	PREDICTED: Sus scrofa CTR9, Paf1/RNA polymerase II complex component (CTR9), mRNA
two	209226		NG_017048	Homo sapiens zinc finger E-box binding homeobox 1 (ZEB1), RefSeqGene on chromosome 10			FP085596	Pig DNA sequence from clone CH242-208M4 on chromosome X, complete sequence
two	209258	PYGO1	XM_005254300	PREDICTED: Homo sapiens pygopus family PHD finger 1 (PYGO1), transcript variant X1, mRNA	Nucleus	other	XM_005654441	PREDICTED: Sus scrofa pygopus homolog 1 (Drosophila) (PYGO1), mRNA
two	209266	KCNA3	AL365361	Human DNA sequence from clone RP11-284N8 on chromosome 1, complete sequence			XM_001924029	PREDICTED: Sus scrofa potassium voltage-gated channel, shaker-related subfamily, member 3 (KCNA3), mRNA
two	209282	ARMC4	NM_018076	Homo sapiens armadillo repeat containing 4 (ARMC4), transcript variant 3, mRNA	Extracellular Space	other	XM_003130763	PREDICTED: Sus scrofa armadillo repeat containing 4 (ARMC4), transcript variant X1, mRNA
two	209293	HOOK1	XM_005270922	PREDICTED: Homo sapiens hook microtubule-tethering protein 1 (HOOK1), transcript variant X1, mRNA	Cytoplasm	other	XM_005653436	PREDICTED: Sus scrofa hook microtubule-tethering protein 1 (HOOK1), transcript variant X2, mRNA

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two	209321	DSE	HG510110	TPA: Homo sapiens CTD-2541J13,2 gene for long non-coding RNA			XM_003353295	PREDICTED: Sus scrofa dermatan sulfate epimerase (DSE), transcript variant X1, mRNA
two	209325	STK39	XM_005246466	PREDICTED: Homo sapiens serine threonine kinase 39 (STK39), transcript variant X2, mRNA	Nucleus	kinase	XM_003133454	PREDICTED: Sus scrofa serine threonine kinase 39 (STK39), mRNA
two	209326	ADAM6	HG506718	TPA: Homo sapiens ADAM6 gene for long non-coding RNA			AB699686	Sus scrofa genes for immunoglobulin heavy chain variable and constant regions, clone: L264P10
two	209440		AC243732	Homo sapiens BAC clone CH17-257H10 from chromosome unknown, complete sequence			AC090553	Sus scrofa clone RP44-508O6, complete sequence
two	209443	EXPH5	NM_015065	Homo sapiens exophilin 5 (EXPH5), mRNA	Cytoplasm	other	XM_003356422	PREDICTED: Sus scrofa family with sequence similarity 73, member A (FAM73A), mRNA
two	209474	CFL2	NG_012740	Homo sapiens cofilin 2 (muscle) (CFL2), RefSeqGene (LRG_213) on chromosome 14	Extracellular Space	other	FN673739	Sus scrofa BAC clone KNP_400G8
two	209506	CORIN	NG_032679	Homo sapiens corin, serine peptidase (CORIN), RefSeqGene on chromosome 4			XM_003482375	PREDICTED: Sus scrofa probable phospholipid-transporting ATPase VD-like (LOC100738006), partial mRNA
two	209559		AC207613	Homo sapiens FOSMID clone ABC12-47015100N16 from chromosome 13, complete sequence			AK343925	Sus scrofa mRNA, clone:AMP010083H11, expressed in alveolar macrophages
two	209584	PDE4D	NG_027957	Homo sapiens phosphodiesterase 4D, cAMP-specific (PDE4D), RefSeqGene on chromosome 5			XM_005672472	PREDICTED: Sus scrofa cAMP-specific 3,5-cyclic phosphodiesterase 4D-like (LOC100738235), mRNA
two	209585	LRRC34	XM_006713508	PREDICTED: Homo sapiens leucine rich repeat containing 34 (LRRC34), transcript variant X2, mRNA	Other	other	XM_003358673	PREDICTED: Sus scrofa leucine rich repeat containing 34 (LRRC34), mRNA
two	209600	GLCE	XM_005254298	PREDICTED: Homo sapiens glucuronic acid epimerase (GLCE), transcript variant X1, mRNA	Cytoplasm	enzyme	AK395314	Sus scrofa mRNA, clone: OVRM10185F06, expressed in ovary
two	209630	YWHAE	NG_009233	Homo sapiens tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon (YWHAE), RefSeqGene on chromosome 17	Cytoplasm	other	AK391178	Sus scrofa mRNA, clone: CLNT10095E01, expressed in colon
two	209682	ADRBK2	AK310398	Homo sapiens cDNA, FLJ17440	Cytoplasm	kinase	AK344627	Sus scrofa mRNA, clone:DCI010088D01, expressed in dendritic cells (immature)
two	209688		AB064112	Homo sapiens IGK mRNA for immunoglobulin kappa light chain VLJ region, partial cds, clone:K71			AK231422	Sus scrofa mRNA, clone:ITT010059H02, expressed in intestine

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two	209695	UNK	XM_006722148	PREDICTED: Homo sapiens unkempt family zinc finger (UNK), transcript variant X5, mRNA	Nucleus	transporter	AK348443	Sus scrofa mRNA, clone:OVRM10165F02, expressed in ovary
two	209727		FM206294	Cloning vector pchilGHG1			AB699688	Sus scrofa genes for immunoglobulin heavy chain constant region, clone: L380J14
two	209752	MBNL3	CR627122	Homo sapiens mRNA; cDNA DKFZp779M2422 (from clone DKFZp779M2422)	Nucleus	other	XR_309286	PREDICTED: Sus scrofa muscleblind-like splicing regulator 3 (MBNL3), transcript variant X7, misc_RNA
two	209774	TTID	FM206294	Cloning vector pchilGHG1			DQ480148	Sus scrofa titin immunoglobulin domain protein (TTID) gene, exons 1 through 10 and partial cds
two	209823	RNH1	BC000677	Homo sapiens ribonuclease/angiogenin inhibitor 1, mRNA (cDNA clone MGC:844 IMAGE:3349381), complete cds	Cytoplasm	other	AK392214	Sus scrofa mRNA, clone: HTMT10056H07, expressed in hypothalamus
two	209824	NUMA1	XM_006718570	PREDICTED: Homo sapiens nuclear mitotic apparatus protein 1 (NUMA1), transcript variant X9, mRNA	Nucleus	other	XM_005653671	PREDICTED: Sus scrofa nuclear mitotic apparatus protein 1 (NUMA1), transcript variant X8, mRNA
two	209835	C20orf27	BC069204	Homo sapiens chromosome 20 open reading frame 27, mRNA (cDNA clone IMAGE:6578024), with apparent retained intron	Other	other	AK393099	Sus scrofa mRNA, clone: ITT010102H11, expressed in intestine
two	209876	XAF1	AK292710	Homo sapiens cDNA FLJ75969 complete cds, highly similar to Homo sapiens XIAP associated factor-1 (BIRC4BP), transcript variant 1, mRNA	Nucleus	other	XM_005669138	PREDICTED: Sus scrofa XIAP associated factor 1 (XAF1), mRNA
two	209932		AC078819	Homo sapiens 12q BAC RP11-490H24 (Roswell Park Cancer Institute Human BAC Library) complete sequence			CU466523	Pig DNA sequence from clone CH242-93K15 on chromosome X, complete sequence
two	210015	C8G	M17263	Human complement protein C8 gamma subunit mRNA, complete cds	Extracellular Space	transporter	NM_001097452	Sus scrofa complement component C8G (LOC100037955), mRNA >gi 86604380 gb DQ333202.1 Sus scrofa complement component C8G mRNA, complete cds
two	210027	ZFAND2B	NM_001270999	Homo sapiens zinc finger, AN1-type domain 2B (ZFAND2B), transcript variant 3, mRNA	Other	other	XM_005672224	PREDICTED: Sus scrofa zinc finger, AN1-type domain 2B (ZFAND2B), transcript variant X2, mRNA
two	210044	CCL15-CCL14	NR_027922	Homo sapiens CCL15-CCL14 readthrough (NMD candidate) (CCL15-CCL14), transcript variant 2, long non-coding RNA	Other	other	AK230835	Sus scrofa mRNA, clone:AMP010050G01, expressed in alveolar macrophage
two	210109	CES3	NM_024922	Homo sapiens carboxylesterase 3 (CES3), transcript variant 1, mRNA	Cytoplasm	enzyme	AK393090	Sus scrofa mRNA, clone: ITT010098G01, expressed in intestine

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two	210121	VTN	AK312968	Homo sapiens cDNA, FLJ93428, highly similar to Homo sapiens vitronectin (serum spreading factor, somatomedin B, complement S-protein) (VTN), mRNA	Extracellular Space	other	XM_005657675	PREDICTED: Sus scrofa vitronectin (VTN), transcript variant X1, mRNA
two	210140	TCIRG1	XM_006718417	PREDICTED: Homo sapiens T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 subunit A3 (TCIRG1), transcript variant X3, mRNA	Plasma Membrane	enzyme	XM_003122433	PREDICTED: Sus scrofa T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 subunit A3 (TCIRG1), transcript variant X1, mRNA
two	210149	TPSAB1	NM_024164	Homo sapiens tryptase beta 2 (gene/pseudogene) (TPSB2), mRNA	Extracellular Space	peptidase	NM_214191	Sus scrofa tryptase (MCT7), mRNA >gi 7415930 dbj AB038652.1 Sus scrofa pMCT7 mRNA for miniature swine mast cell tryptase, complete cds
two	210235	FHOD1	XM_006721180	PREDICTED: Homo sapiens formin homology 2 domain containing 1 (FHOD1), transcript variant X3, mRNA	Cytoplasm	other	XM_005664445	PREDICTED: Sus scrofa formin homology 2 domain containing 1 (FHOD1), mRNA
two	210237	MOV10	AL832805	Homo sapiens mRNA; cDNA DKFZp667O1423 (from clone DKFZp667O1423)	Nucleus	enzyme	XM_005655442	PREDICTED: Sus scrofa Mov10, Moloney leukemia virus 10, homolog (mouse) (MOV10), transcript variant X2, mRNA
two	210278	SEMA3F	XM_006713289	PREDICTED: Homo sapiens sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3F (SEMA3F), transcript variant X4, mRNA	Extracellular Space	other	CR956423	Pig DNA sequence from clone CH242-20D9 on chromosome 6, complete sequence
two	210312	PRODH2	BC039710	Homo sapiens, Similar to proline dehydrogenase (oxidase) 2, clone IMAGE:5187421, mRNA	Cytoplasm	enzyme	XM_005664534	PREDICTED: Sus scrofa probable proline dehydrogenase 2-like (LOC100524089), mRNA
two	210315	SLC27A5	NM_012254	Homo sapiens solute carrier family 27 (fatty acid transporter), member 5 (SLC27A5), mRNA	Cytoplasm	transporter	AK233227	Sus scrofa mRNA, clone:LVRM10107E03, expressed in liver
two	210320	SURF2	Z35094	H,sapiens mRNA for SURF-2	Nucleus	other	XM_005663925	PREDICTED: Sus scrofa low density lipoprotein receptor-related protein 1 (LRP1), partial mRNA
two	210330		AC234459	Homo sapiens FOSMID clone ABC14-1108322L16 from chromosome 17, complete sequence			EF591083	Sus scrofa a proliferation-inducing ligand (April) gene, complete cds
two	210355	VTN	AK312968	Homo sapiens cDNA, FLJ93428, highly similar to Homo sapiens vitronectin (serum spreading factor, somatomedin B, complement S-protein) (VTN), mRNA	Extracellular Space	other	AK394178	Sus scrofa mRNA, clone: LVRM10074B05, expressed in liver
two	210433	BATF3	NM_018664	Homo sapiens basic leucine zipper transcription factor, ATF-like 3 (BATF3), mRNA	Nucleus	transcription regulator	XM_003482748	PREDICTED: Sus scrofa basic leucine zipper transcription factor, ATF-like 3 (BATF3), mRNA

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two	210437	PPP1R1B	NM_001242464	Homo sapiens protein phosphatase 1, regulatory (inhibitor) subunit 1B (PPP1R1B), transcript variant 3, mRNA	Cytoplasm	phosphatase	AK391025	Sus scrofa mRNA, clone: CLNT10045F08, expressed in colon
two	210482	ANAPC11	AK308091	Homo sapiens cDNA, FLJ98039	Cytoplasm	enzyme	XM_003360558	PREDICTED: Sus scrofa anaphase-promoting complex subunit 11-like (LOC100620851), mRNA
two	210504	ILVBL	XM_005259717	PREDICTED: Homo sapiens ilvB (bacterial acetolactate synthase)-like (ILVBL), transcript variant X1, mRNA	Cytoplasm	enzyme	XM_005652907	PREDICTED: Sus scrofa ilvB (bacterial acetolactate synthase)-like (ILVBL), transcript variant X3, mRNA
two	210568	NME3	AK308663	Homo sapiens cDNA, FLJ98704	Cytoplasm	kinase	AK394553	Sus scrofa mRNA, clone: MLN010090A06, expressed in mesenteric lymph node
two	210569	NCK2	XM_006712798	PREDICTED: Homo sapiens NCK adaptor protein 2 (NCK2), transcript variant X2, mRNA	Cytoplasm	kinase	XM_005662352	PREDICTED: Sus scrofa uncharacterized LOC100736893 (LOC100736893), mRNA
two	210578	NDST1	XM_006714783	PREDICTED: Homo sapiens N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 1 (NDST1), transcript variant X14, mRNA	Cytoplasm	enzyme	AY610332	Sus scrofa clone rebs05c_e19,y1,abd, mRNA sequence
two	210580	PRR14L	XM_006724221	PREDICTED: Homo sapiens proline rich 14-like (PRR14L), transcript variant X4, mRNA	Other	enzyme	CU062407	Pig DNA sequence from clone CH242-82N3 on chromosome 14, complete sequence
two	210581		M83094	Homo sapiens cytosolic selenium-dependent glutathione peroxidase gene, complete cds, and rhoh12 gene, 3 end			AK398342	Sus scrofa mRNA, clone: THY010016C03, expressed in thymus
two	210582		FM206294	Cloning vector pchilGHG1			XM_005660973	PREDICTED: Sus scrofa tumor protein p53-inducible protein 11-like (LOC100520600), transcript variant X3, mRNA
two	210590	RPS13	FM206294	Cloning vector pchilGHG1			NM_001244829	Sus scrofa ribosomal protein S13 (RPS13), mRNA >gi 52352043 gb AY610459.1 Sus scrofa clone rnbm14b_e9,y1,abd, mRNA sequence
two	210614	TUBB6	AC116035	Homo sapiens chromosome 3 clone RP11-261F17, complete sequence	Other	other	XM_005656109	PREDICTED: Sus scrofa tubulin, beta 6 class V (TUBB6), mRNA
two	210615	GINS2	FM206294	Cloning vector pchilGHG1			XM_003126817	PREDICTED: Sus scrofa GINS complex subunit 2 (Psf2 homolog) (GINS2), mRNA
two	210639	COPS3	XM_005256842	PREDICTED: Homo sapiens COP9 signalosome subunit 3 (COPS3), transcript variant X6, mRNA	Cytoplasm	other	XM_005654010	PREDICTED: Sus scrofa COP9 constitutive photomorphogenic homolog subunit 3 (Arabidopsis) (COPS3), transcript variant X1, mRNA

cluster	array id	gene symbols	HSA accession	HSA description	location	property	SSC accession	SSC description
two	210649	TPI1P4	NG_011550	Homo sapiens triosephosphate isomerase 1 pseudogene 4 (TPI1P4) on chromosome 4			AK389190	Sus scrofa mRNA, clone: ADR010009E12, expressed in adrenal gland
two	210686	DGAT1	XM_005272362	PREDICTED: Homo sapiens uncharacterized LOC101929012 (LOC101929012), mRNA	Other	other	AY116586	Sus scrofa diacylglycerol acyltransferase (DGAT1) gene, complete cds
two	210708		AC242426	Homo sapiens BAC clone CH17-229K8 from chromosome 1, complete sequence			AK398695	Sus scrofa mRNA, clone: UTR010091D05, expressed in uterus
two	210751	PRM1	AY651260	Homo sapiens testis specific protamine 1 (P1) mRNA, complete cds	Nucleus	other	NM_214253	Sus scrofa protamine 1 (PRM1), mRNA >gij2089 emb X13381,1 Pig mRNA for protamine 1
two	210761		AC099689	Homo sapiens chromosome 18, clone RP11-849I19, complete sequence			AK233144	Sus scrofa mRNA, clone:LVRM10089G02, expressed in liver
two	210771	TMEM54	XM_005270408	PREDICTED: Homo sapiens transmembrane protein 54 (TMEM54), transcript variant X1, mRNA	Other	other	XM_005665196	PREDICTED: Sus scrofa transmembrane protein 54 (TMEM54), transcript variant X4, mRNA
two	210772	GSTO2	XM_006717623	PREDICTED: Homo sapiens glutathione S-transferase omega 2 (GSTO2), transcript variant X1, mRNA	Cytoplasm	enzyme	AK399955	Sus scrofa mRNA, clone: HTMT10105D07, expressed in hypothalamus
two	210796	PPP2R5D	NM_001270476	Homo sapiens protein phosphatase 2, regulatory subunit B, delta (PPP2R5D), transcript variant 4, mRNA	Nucleus	phosphatase	AK351527	Sus scrofa mRNA, clone:THY010029F07, expressed in thymus
two	210811	PIAS4	AB464092	Synthetic construct DNA, clone: pF1KB7782, Homo sapiens PIAS4 gene for protein inhibitor of activated STAT, 4, without stop codon, in Flexi system			XM_003354007	PREDICTED: Sus scrofa protein inhibitor of activated STAT, 4 (PIAS4), mRNA
two	210844	SDF4	NG_030007	Homo sapiens stromal cell derived factor 4 (SDF4), RefSeqGene on chromosome 1			XM_003356108	PREDICTED: Sus scrofa stromal cell derived factor 4 (SDF4), mRNA
two	210903	PPIL3	XM_005246652	PREDICTED: Homo sapiens peptidylprolyl isomerase (cyclophilin)-like 3 (PPIL3), transcript variant X2, mRNA	Cytoplasm	enzyme	AY609616	Sus scrofa clone Clu_21284,scr,msk,p1,Contig3, mRNA sequence
two	210912	ARHGEF15	AC130329	Homo sapiens chromosome 17, clone RP13-348C17, complete sequence			XM_005657046	PREDICTED: Sus scrofa Rho guanine nucleotide exchange factor (GEF) 15 (ARHGEF15), transcript variant X3, mRNA
two	210922	SH3BP2	not available	not available			XM_005666492	PREDICTED: Sus scrofa SH3-domain binding protein 2 (SH3BP2), transcript variant X6, mRNA
two	210926		FM206294	Cloning vector pchilGHG1			AC091506	Sus scrofa clone RP44-348C20, complete sequence

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two	210939	ZNF646	XM_005255711	PREDICTED: Homo sapiens zinc finger protein 646 (ZNF646), transcript variant X2, mRNA	Nucleus	other	XM_003124475	PREDICTED: Sus scrofa zinc finger protein 646 (ZNF646), transcript variant X1, mRNA
two	210948	SYNE1	NG_012855	Homo sapiens spectrin repeat containing, nuclear envelope 1 (SYNE1), RefSeqGene on chromosome 6			XM_005661853	PREDICTED: Sus scrofa basic proline-rich protein-like (LOC100626975), mRNA
two	210961	CCL3	XM_006725571	PREDICTED: Homo sapiens chemokine (C-C motif) ligand 3 (CCL3), transcript variant X1, mRNA	Extracellular Space	cytokine	AK344346	Sus scrofa mRNA, clone:DCI010019H03, expressed in dendritic cells (immature)
two	210973	ZBTB8OS	FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			XM_005665186	PREDICTED: Sus scrofa zinc finger and BTB domain containing 8 opposite strand (ZBTB8OS), mRNA
two	210975	MADD	XM_006718363	PREDICTED: Homo sapiens MAP-kinase activating death domain (MADD), transcript variant X25, mRNA	Cytoplasm	other	XM_005660932	PREDICTED: Sus scrofa MAP kinase-activating death domain protein-like (LOC102158913), mRNA
two	210997	MPND	XM_006722926	PREDICTED: Homo sapiens MPN domain containing (MPND), transcript variant X2, mRNA	Other	other	AK236479	Sus scrofa mRNA, clone:OVRM10196G02, expressed in ovary
two	211021		AC027290	Homo sapiens 12 BAC RP11-463O12 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_005666006	PREDICTED: Sus scrofa uncharacterized LOC100739138 (LOC100739138), mRNA
two	211034	KCNK3	NG_033884	Homo sapiens potassium channel, subfamily K, member 3 (KCNK3), RefSeqGene on chromosome 2	Plasma Membrane	ion channel	XR_135175	PREDICTED: Sus scrofa potassium channel subfamily K member 3-like (LOC100737895), misc_RNA
two	211045	DDX51	AC078871	Homo sapiens 12q BAC RP11-919C7 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_005670535	PREDICTED: Sus scrofa DEAD (Asp-Glu-Ala-Asp) box polypeptide 51 (DDX51), mRNA
two	211057	FAM101B	AC233274	Homo sapiens FOSMID clone ABC8-41097800F4 from chromosome 17, complete sequence			XM_003131818	PREDICTED: Sus scrofa family with sequence similarity 101, member B (FAM101B), mRNA
two	211058	ABL2	NG_028242	Homo sapiens v-abl Abelson murine leukemia viral oncogene homolog 2 (ABL2), RefSeqGene on chromosome 1			XM_003122996	PREDICTED: Sus scrofa cytochrome b-c1 complex subunit 10-like (LOC100524239), transcript variant 1, mRNA
two	211073	KIAA1324	NM_001284353	Homo sapiens KIAA1324 (KIAA1324), transcript variant 5, mRNA	Plasma Membrane	other	XM_005663593	PREDICTED: Sus scrofa uncharacterized LOC100154257 (LOC100154257), transcript variant X2, mRNA
two	211083	METTL1	BC000550	Homo sapiens methyltransferase like 1, mRNA (cDNA clone MGC:1853 IMAGE:3163932), complete cds	Nucleus	enzyme	XM_003360738	PREDICTED: Sus scrofa methyltransferase like 1 (METTL1), partial mRNA
two	211089		AC104459	Homo sapiens chromosome 1 clone RP5-838N20, complete sequence			XM_005654894	PREDICTED: Sus scrofa mucin-12-like (LOC100736865), transcript variant X4, mRNA

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two	211102	POMGNT2	XM_006713361	PREDICTED: Homo sapiens protein O-linked mannose N-acetylglucosaminyltransferase 2 (beta 1,4-) (POMGNT2), transcript variant X2, mRNA	Cytoplasm	enzyme	XM_003132141	PREDICTED: Sus scrofa protein O-linked mannose N-acetylglucosaminyltransferase 2 (beta 1,4-) (POMGNT2), mRNA
two	211135	VAT1L	NM_020927	Homo sapiens vesicle amine transport 1-like (VAT1L), mRNA >gij23273211 gb BC033537,1 Homo sapiens vesicle amine transport protein 1 homolog (T, californica)-like, mRNA (cDNA clone MGC:42386 IMAGE:4821265), complete cds	Other	enzyme	AK396192	Sus scrofa mRNA, clone: PBL010103A05, expressed in peripheral blood lymphocytes
two	211190	BLOC1S5-TXNI	NR_037616	Homo sapiens BLOC1S5-TXNDC5 readthrough (NMD candidate) (BLOC1S5-TXNDC5), long non-coding RNA	Other	other	XM_005656211	PREDICTED: Sus scrofa thioredoxin domain containing 5 (endoplasmic reticulum) (TXNDC5), partial mRNA
two	211229	GNG2	NM_053064	Homo sapiens guanine nucleotide binding protein (G protein), gamma 2 (GNG2), transcript variant 1, mRNA	Plasma Membrane	enzyme	AK399799	Sus scrofa mRNA, clone: BMWN10091H12, expressed in bone marrow
two	211246	RNF139	NG_012158	Homo sapiens ring finger protein 139 (RNF139), RefSeqGene on chromosome 8	Cytoplasm	enzyme	XM_005667632	PREDICTED: Sus scrofa ACN9 homolog (S, cerevisiae) (ACN9), mRNA
two	211288		X57814	Human rearranged immunoglobulin lambda light chain mRNA			AK233830	Sus scrofa mRNA, clone:MLN010043B11, expressed in mesenteric lymph node
two	211310		AC009990	Homo sapiens chromosome 05 clone RP11-94N1, complete sequence			AK390860	Sus scrofa mRNA, clone: CLNT10010A03, expressed in colon
two	211320	ST5	XM_006718285	PREDICTED: Homo sapiens suppression of tumorigenicity 5 (ST5), transcript variant X10, mRNA	Other	enzyme	XM_005667055	PREDICTED: Sus scrofa suppression of tumorigenicity 5 protein-like (LOC100739180), mRNA
two	211325		AK129817	Homo sapiens cDNA FLJ26306 fis, clone DMC08285			AK391095	Sus scrofa mRNA, clone: CLNT10063E02, expressed in colon
two	211332	LRRC10B	NM_001145077	Homo sapiens leucine rich repeat containing 10B (LRRC10B), mRNA	Other	other	XM_003122642	PREDICTED: Sus scrofa leucine rich repeat containing 10B (LRRC10B), mRNA
two	211371	POFUT2	FM206294	Cloning vector pchiIGHG1			XM_005652388	PREDICTED: Sus scrofa protein O-fucosyltransferase 2 (POFUT2), mRNA
two	211373	RAB2B	NM_001163380	Homo sapiens RAB2B, member RAS oncogene family (RAB2B), transcript variant 2, mRNA	Plasma Membrane	enzyme	XM_003128564	PREDICTED: Sus scrofa RAB2B, member RAS oncogene family (RAB2B), transcript variant 1, mRNA
two	211395	DPM3	NG_012871	Homo sapiens dolichyl-phosphate mannosyltransferase polypeptide 3 (DPM3), RefSeqGene on chromosome 1	Cytoplasm	enzyme	XM_005663327	PREDICTED: Sus scrofa dolichyl-phosphate mannosyltransferase polypeptide 3 (DPM3), transcript variant X2, mRNA

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two	211412	SYTL1	XM_006710991	PREDICTED: Homo sapiens synaptotagmin-like 1 (SYTL1), transcript variant X7, mRNA	Cytoplasm	enzyme	XM_005656080	PREDICTED: Sus scrofa synaptotagmin-like 1 (SYTL1), transcript variant X4, mRNA
two	211422	TOR1A	NG_008049	Homo sapiens torsin family 1, member A (torsin A) (TOR1A), RefSeqGene on chromosome 9	Cytoplasm	other	XM_005654570	PREDICTED: Sus scrofa torsin family 1, member B (torsin B) (TOR1B), transcript variant X2, mRNA
two	211428	TMEM179B	NM_199337	Homo sapiens transmembrane protein 179B (TMEM179B), mRNA	Other	other	AK346639	Sus scrofa mRNA, clone:MLN010028C02, expressed in mesenteric lymph nodes
two	211450	CECR1	XM_006724080	PREDICTED: Homo sapiens cat eye syndrome chromosome region, candidate 1 (CECR1), transcript variant X1, mRNA	Extracellular Space	enzyme	AK350440	Sus scrofa mRNA, clone:SPL010062D01, expressed in spleen
two	211453	NDUFA10	NM_004544	Homo sapiens NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 10, 42kDa (NDUFA10), mRNA	Cytoplasm	transporter	XM_003133785	PREDICTED: Sus scrofa NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 10, 42kDa (NDUFA10), mRNA
two	211485	MID1	AC008008	Homo sapiens Xp22 PAC RPCI6-102 (Roswell Park Cancer Institute Human PAC Library) complete sequence	Nucleus	other	XM_005659059	PREDICTED: Sus scrofa dipeptidyl peptidase 2-like (LOC100626630), partial mRNA
two	211515	WBSCR27	NM_152559	Homo sapiens Williams Beuren syndrome chromosome region 27 (WBSCR27), mRNA	Other	enzyme	AK345247	Sus scrofa mRNA, clone:ITTO10090B09, expressed in small intestine
two	211518	PTPRCAP	BC114467	Homo sapiens protein tyrosine phosphatase, receptor type, C-associated protein, mRNA (cDNA clone MGC:138602 IMAGE:40030437), complete cds	Plasma Membrane	other	XM_003122461	PREDICTED: Sus scrofa protein tyrosine phosphatase, receptor type, C-associated protein (PTPRCAP), mRNA
two	211520	DHRS1	XR_245662	PREDICTED: Homo sapiens dehydrogenase/reductase (SDR family) member 1 (DHRS1), transcript variant X1, misc_RNA	Cytoplasm	enzyme	XM_003128543	PREDICTED: Sus scrofa dehydrogenase/reductase (SDR family) member 1 (DHRS1), transcript variant X1, mRNA
two	211549		AC240526	Homo sapiens FOSMID clone ABC24-2556D15 from chromosome 2, complete sequence			XM_003481193	PREDICTED: Sus scrofa gastrokine-3-like (LOC100737346), mRNA
two	211563	SPRN	AC104851	Homo sapiens chromosome 3 clone RP11-475N4, complete sequence			XM_005671584	PREDICTED: Sus scrofa shadow of prion protein homolog (zebrafish) (SPRN), mRNA
two	211574	PKP3	XM_005252760	PREDICTED: Homo sapiens plakophilin 3 (PKP3), transcript variant X1, mRNA	Plasma Membrane	other	XM_003354414	PREDICTED: Sus scrofa plakophilin-3-like (LOC100626903), mRNA
two	211579	VAMP8	NG_022887	Homo sapiens vesicle-associated membrane protein 8 (VAMP8), RefSeqGene on chromosome 2	Plasma Membrane	transporter	XM_003354743	PREDICTED: Sus scrofa vesicle-associated membrane protein 8 (VAMP8), transcript variant 1, mRNA
two	211618	KRT8	NM_001256293	Homo sapiens keratin 8 (KRT8), transcript variant 3, mRNA	Cytoplasm	other	NM_001159615	Sus scrofa keratin 8 (KRT8), mRNA

cluster	array id	gene symbols	HSA accession	HSA description	location	property	SSC accession	SSC description
two	211619		FM206294	Cloning vector pchilGHG1			L36913	Pig microsatellite DNA (CA repeat)
two	211623	TMEM256	NM_152766	Homo sapiens transmembrane protein 256 (TMEM256), mRNA	Cytoplasm	other	XM_003358247	PREDICTED: Sus scrofa transmembrane protein 256 (TMEM256), transcript variant X1, mRNA
two	211624	SNUPN	NM_001042588	Homo sapiens snurportin 1 (SNUPN), transcript variant 3, mRNA	Nucleus	other	XM_003128480	PREDICTED: Sus scrofa snurportin 1 (SNUPN), transcript variant X2, mRNA
two	211635	C7orf43	NM_018275	Homo sapiens chromosome 7 open reading frame 43 (C7orf43), mRNA >gj 34193583 gb BC015722,2 Homo sapiens chromosome 7 open reading frame 43, mRNA (cDNA clone MGC:17978 IMAGE:3920412), complete cds	Other	other	XM_003124338	PREDICTED: Sus scrofa chromosome 3 open reading frame, human C7orf43 (C3H7orf43), mRNA
two	211681	ABCF3	AC131235	Homo sapiens 3 BAC RP11-778D9 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_003358707	PREDICTED: Sus scrofa ATP-binding cassette, sub-family F (GCN20), member 3 (ABCF3), transcript variant 1, mRNA
two	211685	CCDC134	XM_005261748	PREDICTED: Homo sapiens coiled-coil domain containing 134 (CCDC134), transcript variant X1, mRNA	Other	other	AK397805	Sus scrofa mRNA, clone: SPL010091A04, expressed in spleen
two	211687	DOLPP1	NR_072983	Homo sapiens dolichyldiphosphatase 1 (DOLPP1), transcript variant 3, non-coding RNA	Cytoplasm	enzyme	XM_003122213	PREDICTED: Sus scrofa dolichyldiphosphatase 1 (DOLPP1), transcript variant 1, mRNA
two	211707	LPPR2	XM_005260017	PREDICTED: Homo sapiens lipid phosphate phosphatase-related protein type 2 (LPPR2), transcript variant X1, mRNA	Other	phosphatase	XM_005654775	PREDICTED: Sus scrofa lipid phosphate phosphatase-related protein type 2-like (LOC100515428), transcript variant X4, mRNA
two	211720	SELO	BC110866	Homo sapiens selenoprotein O, mRNA (cDNA clone MGC:131879 IMAGE:6041782), complete cds	Extracellular Space	enzyme	NM_001201431	Sus scrofa selenoprotein O (SELO), mRNA
two	211746	TUBB2B	NG_016715	Homo sapiens tubulin, beta 2B (TUBB2B), RefSeqGene on chromosome 6	Cytoplasm	other	XM_005665535	PREDICTED: Sus scrofa tubulin, beta 2B class IIb (TUBB2B), transcript variant X3, mRNA
two	211820	TEN1-CDK3	NR_037709	Homo sapiens TEN1-CDK3 readthrough (NMD candidate) (TEN1-CDK3), long non-coding RNA	Other	other	NM_001244550	Sus scrofa mitogen-activated protein kinase kinase 2 (MAP2K2), mRNA
two	211827	CDHR2	XM_006714887	PREDICTED: Homo sapiens cadherin-related family member 2 (CDHR2), transcript variant X1, mRNA	Plasma Membrane	other	XM_003123669	PREDICTED: Sus scrofa cadherin-related family member 2 (CDHR2), mRNA
two	211837		AC015813	Homo sapiens, clone RP11-159D12, complete sequence			CU855538	Pig DNA sequence from clone CH242-516J15 on chromosome X, complete sequence

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two	211867	ABCD4	XM_005267953	PREDICTED: Homo sapiens ATP-binding cassette, sub-family D (ALD), member 4 (ABCD4), transcript variant X19, mRNA	Cytoplasm	transporter	AK239830	Sus scrofa mRNA, clone:UTR010001C11, expressed in uterus
two	211908	NCSTN	NM_001290184	Homo sapiens nicastrin (NCSTN), transcript variant 2, mRNA	Plasma Membrane	peptidase	XM_001928786	PREDICTED: Sus scrofa nicastrin (NCSTN), mRNA
two	211945	POU4F2	BC136344	Homo sapiens POU class 4 homeobox 2, mRNA (cDNA clone MGC:167954 IMAGE:9020331), complete cds	Nucleus	transcription regulator	XM_003482432	PREDICTED: Sus scrofa POU class 4 homeobox 2 (POU4F2), mRNA
two	211952	TCTN3	XM_005269690	PREDICTED: Homo sapiens tectonic family member 3 (TCTN3), transcript variant X1, mRNA	Other	other	XM_003359309	PREDICTED: Sus scrofa tectonic family member 3 (TCTN3), transcript variant X3, mRNA
two	211962	SLC35E3	AC124890	Homo sapiens 12 BAC RP11-450G15 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_003126366	PREDICTED: Sus scrofa solute carrier family 35, member E3 (SLC35E3), mRNA
two	211996	HNRNPL	AK094966	Homo sapiens cDNA FLJ37647 fis, clone BRHIP2000445, highly similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN L	Nucleus	other	AK392150	Sus scrofa mRNA, clone: HTMT10053D06, expressed in hypothalamus
two	212008	CORO1B	NM_001018070	Homo sapiens coronin, actin binding protein, 1B (CORO1B), transcript variant 2, mRNA	Cytoplasm	other	AK399062	Sus scrofa mRNA, clone: OVRM10121H08, expressed in ovary
two	212038	SCRAP	NG_032135	Homo sapiens Snf2-related CREBBP activator protein (SRCAP), RefSeqGene on chromosome 16			XM_005653009	PREDICTED: Sus scrofa Snf2-related CREBBP activator protein (SRCAP), transcript variant X4, mRNA
two	212042	MED1	XM_006721957	PREDICTED: Homo sapiens mediator complex subunit 1 (MED1), transcript variant X2, mRNA	Nucleus	transcription regulator	XM_005653934	PREDICTED: Sus scrofa mediator complex subunit 1 (MED1), transcript variant X3, mRNA
two	212050	SNTG2	NG_029707	Homo sapiens syntrophin, gamma 2 (SNTG2), RefSeqGene on chromosome 2	Plasma Membrane	other	XM_005654816	PREDICTED: Sus scrofa sphingosine-1-phosphate receptor 5 (S1PR5), transcript variant X1, mRNA
two	212052	PKIA	NM_181839	Homo sapiens protein kinase (cAMP-dependent, catalytic) inhibitor alpha (PKIA), transcript variant 2, mRNA	Cytoplasm	other	NM_214204	Sus scrofa protein kinase (cAMP-dependent, catalytic) inhibitor alpha (PKIA), mRNA >gi 6983932 gb AF132737.1 AF132737 Sus scrofa protein kinase inhibitor alpha mRNA, complete cds
two	212054	MOSPD3	XM_005250529	PREDICTED: Homo sapiens motile sperm domain containing 3 (MOSPD3), transcript variant X1, mRNA	Other	other	AK240357	Sus scrofa mRNA, clone:UTR010058G08, expressed in uterus
two	212060	ELF2P2	NG_002340	Homo sapiens E74-like factor 2 pseudogene 2 (ELF2P2) on chromosome 6			XM_003129188	PREDICTED: Sus scrofa E74-like factor 2 (ets domain transcription factor) (ELF2), partial mRNA
two	212065	PLXNA4	XM_005250686	PREDICTED: Homo sapiens plexin A4 (PLXNA4), transcript variant X1, mRNA	Plasma Membrane	transmembrane receptor	XM_005674285	PREDICTED: Sus scrofa plexin-A4-like (LOC100620243), mRNA
two	212091		FM206294	Cloning vector pchIHGH1			L36913	Pig microsatellite DNA (CA repeat)

cluster	array id	gene symbols	HSA accession	HSA description	location	property	SSC accession	SSC description
two	212101	TNK2	AC245434	Homo sapiens BAC clone CH17-340H12 from chromosome 3, complete sequence			XM_005670132	PREDICTED: Sus scrofa tyrosine kinase, non-receptor, 2 (TNK2), transcript variant X7, mRNA
two	212103		AC018730	Homo sapiens BAC clone RP11-13J10 from 2, complete sequence			FP339590	Pig DNA sequence from clone CH242-255L16 on chromosome X, complete sequence
two	212136		FM206294	Cloning vector pchilGHG1			CT797479	Pig DNA sequence from clone CH242-196N13 on chromosome 7, complete sequence
two	212141	FARS2	XM_005248812	PREDICTED: Homo sapiens phenylalanyl-tRNA synthetase 2, mitochondrial (FARS2), transcript variant X2, mRNA	Cytoplasm	enzyme	AK390172	Sus scrofa mRNA, clone: BFLT10034C09, expressed in brain (frontal lobe)
two	212164	LCMT2	NM_014793	Homo sapiens leucine carboxyl methyltransferase 2 (LCMT2), mRNA	Other	enzyme	XM_003353380	PREDICTED: Sus scrofa leucine carboxyl methyltransferase 2 (LCMT2), mRNA
two	212167		AC022148	Homo sapiens chromosome 19 clone CTD-3064H18, complete sequence			CU606897	Pig DNA sequence from clone CH242-238J16 on chromosome X, complete sequence
two	212221		FM206294	Cloning vector pchilGHG1			CU914779	Pig DNA sequence from clone CH242-229M12 on chromosome 1, complete sequence
two	212239	DAK	XM_006718497	PREDICTED: Homo sapiens dihydroxyacetone kinase 2 homolog (S, cerevisiae) (DAK), transcript variant X4, mRNA	Cytoplasm	kinase	AK237051	Sus scrofa mRNA, clone:PBL010086C04, expressed in peripheral blood mononuclear cell
two	212262	NKIRAS1	XM_005265077	PREDICTED: Homo sapiens NFkB inhibitor interacting Ras-like 1 (NKIRAS1), transcript variant X2, mRNA	Other	enzyme	XM_005669299	PREDICTED: Sus scrofa NFkB inhibitor interacting Ras-like 1 (NKIRAS1), transcript variant X2, mRNA
two	212291	LOC81691	XM_005255606	PREDICTED: Homo sapiens exonuclease NEF-sp (LOC81691), transcript variant X3, mRNA	Nucleus	enzyme	XM_005662105	PREDICTED: Sus scrofa putative RNA exonuclease NEF-sp-like (LOC100512042), mRNA
two	212293	RPS5	U14970	Human ribosomal protein S5 mRNA, complete cds	Cytoplasm	other	XM_003128133	PREDICTED: Sus scrofa ribosomal protein S5 (RPS5), transcript variant 1, mRNA
two	212295		FM206294	Cloning vector pchilGHG1			CU469041	Pig DNA sequence from clone CH242-483E7 on chromosome 4, complete sequence
two	212415	RTN4RL2	NM_178570	Homo sapiens reticulon 4 receptor-like 2 (RTN4RL2), mRNA	Plasma Membrane	other	CU914346	Pig DNA sequence from clone CH242-347M1 on chromosome 12, complete sequence
two	212417	AMN1	XM_006719055	PREDICTED: Homo sapiens antagonist of mitotic exit network 1 homolog (S, cerevisiae) (AMN1), transcript variant X2, mRNA	Plasma Membrane	other	AK232930	Sus scrofa mRNA, clone:LVRM10052B08, expressed in liver

cluster	array id	gene symbols	HSA accession	HSA description	location	property	SSC accession	SSC description
two	212488	SUGP2	NM_014884	Homo sapiens SURP and G patch domain containing 2 (SUGP2), transcript variant 2, mRNA	Nucleus	other	XM_003123545	PREDICTED: Sus scrofa SURP and G patch domain containing 2 (SUGP2), transcript variant X1, mRNA
two	212511	DTX1	NM_004416	Homo sapiens deltex 1, E3 ubiquitin ligase (DTX1), mRNA	Nucleus	transcription regulator	XM_005670698	PREDICTED: Sus scrofa deltex homolog 1 (Drosophila) (DTX1), mRNA
two	212525	GPR162	AB209836	Homo sapiens mRNA for gene rich cluster, A isoform 2 variant protein	Plasma Membrane	G-protein coupled receptor	XM_003481693	PREDICTED: Sus scrofa G protein-coupled receptor 162 (GPR162), mRNA
two	212574	SMYD5	NM_006062	Homo sapiens SMYD family member 5 (SMYD5), mRNA	Other	other	XM_003125012	PREDICTED: Sus scrofa SMYD family member 5 (SMYD5), mRNA
two	212612		KC951387	Homo sapiens clone FOS_0022, complete sequence			XM_005660973	PREDICTED: Sus scrofa tumor protein p53-inducible protein 11-like (LOC100520600), transcript variant X3, mRNA
two	212619	NME1	AL360166	Homo sapiens mRNA full length insert cDNA clone EUROIMAGE 300041	Cytoplasm	kinase	NM_001204759	Sus scrofa NME/NM23 nucleoside diphosphate kinase 1 (NME1), mRNA
two	212636	EIF2AK4	NG_034053	Homo sapiens eukaryotic translation initiation factor 2 alpha kinase 4 (EIF2AK4), RefSeqGene on chromosome 15			XM_003353407	PREDICTED: Sus scrofa signal recognition particle 14 kDa protein-like (LOC100620327), mRNA
two	212641	EBP	NG_007452	Homo sapiens emopamil binding protein (sterol isomerase) (EBP), RefSeqGene on chromosome X	Cytoplasm	enzyme	AK389357	Sus scrofa mRNA, clone: ADR010052G11, expressed in adrenal gland
two	212645	COX5B	NM_001862	Homo sapiens cytochrome c oxidase subunit Vb (COX5B), mRNA >gi 38197026 gb BC006229.2 Homo sapiens cytochrome c oxidase subunit Vb, mRNA (cDNA clone MGC:10622 IMAGE:3952882), complete cds	Cytoplasm	enzyme	AK400056	Sus scrofa mRNA, clone: HTMT10143B11, expressed in hypothalamus
two	212675	TMEM132E	XM_006721692	PREDICTED: Homo sapiens transmembrane protein 132E (TMEM132E), transcript variant X1, mRNA	Other	other	XM_005669050	PREDICTED: Sus scrofa transmembrane protein 132E (TMEM132E), mRNA
two	212691	FSCN2	XM_005257196	PREDICTED: Homo sapiens fascin homolog 2, actin-bundling protein, retinal (Strongylocentrotus purpuratus) (FSCN2), transcript variant X2, mRNA	Cytoplasm	other	XM_003357929	PREDICTED: Sus scrofa fascin homolog 2, actin-bundling protein, retinal (Strongylocentrotus purpuratus) (FSCN2), transcript variant 1, mRNA
two	212721	SCUBE3	XM_005248948	PREDICTED: Homo sapiens signal peptide, CUB domain, EGF-like 3 (SCUBE3), transcript variant X6, mRNA	Plasma Membrane	other	CU606909	Pig DNA sequence from clone CH242-67B15 on chromosome X, complete sequence
two	212727		FM206294	Cloning vector pchIHG1			AK394469	Sus scrofa mRNA, clone: MLN010048G01, expressed in mesenteric lymph node

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two	212728	ARHGAP33	NM_001172630	Homo sapiens Rho GTPase activating protein 33 (ARHGAP33), transcript variant 2, mRNA	Plasma Membrane	transporter	XM_003127068	PREDICTED: Sus scrofa rho GTPase-activating protein 33-like (LOC100520910), mRNA
two	212776	ZNF165	XM_006715179	PREDICTED: Homo sapiens zinc finger protein 165 (ZNF165), transcript variant X4, mRNA	Nucleus	transcription regulator	XM_005665673	PREDICTED: Sus scrofa zinc finger protein 165 (ZNF165), transcript variant X2, mRNA
two	212789	OCEL1	XM_005260079	PREDICTED: Homo sapiens occludin/ELL domain containing 1 (OCEL1), transcript variant X1, mRNA	Other	other	XM_005658026	PREDICTED: Sus scrofa occludin/ELL domain-containing protein 1-like (LOC100621093), mRNA
two	212838		FM206294	Cloning vector pchilGHG1			AK398066	Sus scrofa mRNA, clone: TCH010086F07, expressed in trachea
two	212870	DACT3	BC016161	Homo sapiens dapper, antagonist of beta-catenin, homolog 3 (Xenopus laevis), mRNA (cDNA clone MGC:15476 IMAGE:2967514), complete cds	Other	other	XM_003355955	PREDICTED: Sus scrofa dishevelled-binding antagonist of beta-catenin 3 (DACT3), mRNA
two	212898	MED29	AK316010	Homo sapiens cDNA, FLJ78909 complete cds, highly similar to Homo sapiens intersex-lik (IXL), mRNA	Nucleus	other	XM_005655830	PREDICTED: Sus scrofa mediator of RNA polymerase II transcription subunit 29-like (LOC100514373), mRNA >gi 545872441 ref XM_005657496.1 PREDICTED: Sus scrofa mediator of RNA polymerase II transcription subunit 29-like (LOC100737949), transcript variant X2, mRNA
two	212965	SYT3	HG510947	TPA: Homo sapiens CTD-2126E3,4 gene for long non-coding RNA OTTHUMT00000465243.1, lincRNA			XM_003127368	PREDICTED: Sus scrofa synaptotagmin III (SYT3), mRNA
two	212989	TCFL5	XM_005260185	PREDICTED: Homo sapiens transcription factor-like 5 (basic helix-loop-helix) (TCFL5), transcript variant X2, mRNA	Nucleus	transcription regulator	XM_005659029	PREDICTED: Sus scrofa uncharacterized LOC100620700 (LOC100620700), mRNA
two	213059	NDST1	XM_006714783	PREDICTED: Homo sapiens N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 1 (NDST1), transcript variant X14, mRNA	Cytoplasm	enzyme	XM_005666900	PREDICTED: Sus scrofa N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 3 (NDST3), mRNA
two	213061	SLC37A4	NG_013331	Homo sapiens solute carrier family 37 (glucose-6-phosphate transporter), member 4 (SLC37A4), RefSeqGene (LRG_187) on chromosome 11	Cytoplasm	transporter	XM_003129918	PREDICTED: Sus scrofa trafficking protein particle complex 4 (TRAPPC4), mRNA
two	213086	CTRB2	BC073145	Homo sapiens chymotrypsinogen B2, mRNA (cDNA clone MGC:88037 IMAGE:5747536), complete cds	Cytoplasm	peptidase	XM_003355749	PREDICTED: Sus scrofa chymotrypsinogen B2 (CTRB2), transcript variant X2, mRNA
two	213087		AC005225	Homo sapiens PAC clone RP3-414A15 from 14q24.3, complete sequence			AK395043	Sus scrofa mRNA, clone: OVRM10018B07, expressed in ovary

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two	213089	PCBP4	XM_006713271	PREDICTED: Homo sapiens poly(rC) binding protein 4 (PCBP4), transcript variant X9, mRNA	Nucleus	other	XM_003358457	PREDICTED: Sus scrofa poly(rC) binding protein 4 (PCBP4), transcript variant X1, mRNA
two	213099	RAB17	XM_006712689	PREDICTED: Homo sapiens RAB17, member RAS oncogene family (RAB17), transcript variant X3, mRNA	Cytoplasm	enzyme	NM_001243950	Sus scrofa RAB17, member RAS oncogene family (RAB17), mRNA
two	213111	PTPN11	AC067942	Homo sapiens BAC clone RP11-791G16 from 4, complete sequence			XM_005657333	PREDICTED: Sus scrofa protein tyrosine phosphatase, non-receptor type 11 (PTPN11), mRNA
two	213114		AL445423	Human DNA sequence from clone RP11-295M18 on chromosome 1, complete sequence			CU656009	Pig DNA sequence from clone CH242-348I4 on chromosome X, complete sequence
two	213146	PPP1R32	BC043246	Homo sapiens chromosome 11 open reading frame 66, mRNA (cDNA clone MGC:44361 IMAGE:5296268), complete cds	Other	other	XM_003122647	PREDICTED: Sus scrofa protein phosphatase 1, regulatory subunit 32 (PPP1R32), transcript variant X1, mRNA
two	213166	DSN1	XM_006723876	PREDICTED: Homo sapiens DSN1, MIS12 kinetochore complex component (DSN1), transcript variant X3, mRNA	Nucleus	other	XM_005672914	PREDICTED: Sus scrofa DSN1, MIND kinetochore complex component, homolog (S, cerevisiae) (DSN1), transcript variant X3, mRNA
two	213183	GEMIN4	XM_005256670	PREDICTED: Homo sapiens gem (nuclear organelle) associated protein 4 (GEMIN4), transcript variant X4, mRNA	Nucleus	other	XM_003131811	PREDICTED: Sus scrofa gem (nuclear organelle) associated protein 4 (GEMIN4), mRNA
two	213184	MVB12A	NM_138401	Homo sapiens multivesicular body subunit 12A (MVB12A), mRNA >gi 40225487 gb BC011840.2 Homo sapiens family with sequence similarity 125, member A, mRNA (cDNA clone MGC:20500 IMAGE:4053084), complete cds	Cytoplasm	other	AK236118	Sus scrofa mRNA, clone:OVRM10153G08, expressed in ovary
two	213187	GTF2H5	NG_011758	Homo sapiens general transcription factor IIH, polypeptide 5 (GTF2H5), RefSeqGene (LRG_469) on chromosome 6	Nucleus	other	XM_003480221	PREDICTED: Sus scrofa general transcription factor IIH, polypeptide 5 (GTF2H5), transcript variant 1, mRNA
two	213193	REEP6	NM_138393	Homo sapiens receptor accessory protein 6 (REEP6), mRNA >gi 14198279 gb BC008201.1 Homo sapiens receptor accessory protein 6, mRNA (cDNA clone MGC:9381 IMAGE:3865853), complete cds	Plasma Membrane	other	AK351270	Sus scrofa mRNA, clone:TES010060E11, expressed in testis
two	213194	BRD9	XM_006714493	PREDICTED: Homo sapiens bromodomain containing 9 (BRD9), transcript variant X2, mRNA	Other	other	XM_005652951	PREDICTED: Sus scrofa voltage-dependent anion channel 1 (VDAC1), transcript variant X4, mRNA
two	213206	SLC2A4RG	NM_020062	Homo sapiens SLC2A4 regulator (SLC2A4RG), mRNA	Cytoplasm	transcription regulator	AY820766	Sus scrofa SCL2A4RG-like mRNA, partial cds

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two	213223	TUBB2B	HQ447903	Synthetic construct Homo sapiens clone IMAGE:100071259; CCSB005347_02 tubulin, beta 2B (TUBB2B) gene, encodes complete protein	Cytoplasm	other	AK390592	Sus scrofa mRNA, clone: BFLT10097D04, expressed in brain (frontal lobe)
two	213226	RTN3P1	NG_005175	Homo sapiens reticulon 3 pseudogene 1 (RTN3P1) on chromosome 4			XM_005660770	PREDICTED: Sus scrofa reticulon 3 (RTN3), transcript variant X3, mRNA
two	213230	GNG3	XM_006718501	PREDICTED: Homo sapiens guanine nucleotide binding protein (G protein), gamma 3 (GNG3), transcript variant X2, mRNA	Plasma Membrane	enzyme	AK392501	Sus scrofa mRNA, clone: HTMT10080E07, expressed in hypothalamus
two	213253	ARID5A	XM_005263861	PREDICTED: Homo sapiens AT rich interactive domain 5A (MRF1-like) (ARID5A), transcript variant X6, mRNA	Nucleus	transcription regulator	XM_005662325	PREDICTED: Sus scrofa AT rich interactive domain 5A (MRF1-like) (ARID5A), transcript variant X2, mRNA
two	213254	MFSD7	XM_006713919	PREDICTED: Homo sapiens major facilitator superfamily domain containing 7 (MFSD7), transcript variant X8, mRNA	Other	other	AK395184	Sus scrofa mRNA, clone: OVRM10102C10, expressed in ovary
two	213255		FM206294	Cloning vector pchILGHG1			L36913	Pig microsatellite DNA (CA repeat)
two	213266	SCO1	NG_008228	Homo sapiens SCO1 cytochrome c oxidase assembly protein (SCO1), RefSeqGene on chromosome 17	Cytoplasm	other	XM_003131996	PREDICTED: Sus scrofa protein SCO1 homolog, mitochondrial-like (LOC100517855), mRNA
two	213277	MAMDC4	BC144259	Homo sapiens cDNA clone IMAGE:9052779, with apparent retained intron	Cytoplasm	other	XM_003122335	PREDICTED: Sus scrofa 14 kDa phosphohistidine phosphatase-like (LOC100513261), transcript variant X1, mRNA
two	213279	COX7A2	AF134406	Homo sapiens cytochrome-c oxidase subunit VIIaL precursor (COX7AL) gene, complete cds	Cytoplasm	enzyme	CU468312	Pig DNA sequence from clone CH242-149K13 on chromosome X, complete sequence
two	213289	CCS	XR_247219	PREDICTED: Homo sapiens copper chaperone for superoxide dismutase (CCS), transcript variant X1, misc_RNA	Cytoplasm	enzyme	AY610179	Sus scrofa clone Clu_86663,scr,msk,p1,Contig1, mRNA sequence
two	213293	BAD	NM_032989	Homo sapiens BCL2-associated agonist of cell death (BAD), transcript variant 2, mRNA	Cytoplasm	other	XM_005660747	PREDICTED: Sus scrofa BCL2-associated agonist of cell death (BAD), transcript variant X4, mRNA
two	213294	POU2F1	NR_037163	Homo sapiens POU class 2 homeobox 1 (POU2F1), transcript variant 4, long non-coding RNA	Nucleus	transcription regulator	CU151848	Pig DNA sequence from clone CH242-192N14 on chromosome 4, complete sequence
two	213342	PPP6R1	XM_006723090	PREDICTED: Homo sapiens protein phosphatase 6, regulatory subunit 1 (PPP6R1), transcript variant X3, mRNA	Cytoplasm	other	XM_005655978	PREDICTED: Sus scrofa protein phosphatase 6, regulatory subunit 1 (PPP6R1), transcript variant X5, mRNA
two	213346	GATA6	U66075	Human transcription factor hGATA-6 mRNA, complete cds	Nucleus	transcription regulator	XM_005656114	PREDICTED: Sus scrofa transcription factor GATA-6 (GATA-6), transcript variant X3, mRNA

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two	213347	SHMT1	XM_005256767	PREDICTED: Homo sapiens serine hydroxymethyltransferase 1 (soluble) (SHMT1), transcript variant X1, mRNA	Cytoplasm	enzyme	XM_003481107	PREDICTED: Sus scrofa BRICHOS domain containing 5 (BRICD5), mRNA
two	213355	NCOA1	XM_006712126	PREDICTED: Homo sapiens nuclear receptor coactivator 1 (NCOA1), transcript variant X5, mRNA	Nucleus	transcription regulator	EU346671	Sus scrofa steroid receptor coactivator 1 isoform 2 (SRC1) mRNA, complete cds, alternatively spliced
two	213362	TRPV2	AC099063	Homo sapiens chromosome 1 clone RP4-620F22, complete sequence			XM_005654003	PREDICTED: Sus scrofa transient receptor potential cation channel, subfamily V, member 2 (TRPV2), transcript variant X4, mRNA
two	213372	ZNF791	NM_153358	Homo sapiens zinc finger protein 791 (ZNF791), mRNA	Other	other	XM_003354092	PREDICTED: Sus scrofa zinc finger protein 791-like (LOC100521069), transcript variant X1, mRNA
two	213373	EFR3B	HG493765	TPA: Homo sapiens RP11-509E16,1 gene for long non-coding RNA OTTHUMT00000431074,1, lincRNA	Other	other	XM_005674509	PREDICTED: Sus scrofa EFR3 homolog B (S, cerevisiae) (EFR3B), mRNA
two	213374	TIMMDC1	CR457158	Homo sapiens full open reading frame cDNA clone RZPDo834B0712D for gene C3orf1, chromosome 3 open reading frame 1; complete cds, incl, stopcodon	Cytoplasm	other	AK394326	Sus scrofa mRNA, clone: LVRM10176D09, expressed in liver
two	213375		FM206294	Cloning vector pchilGHG1			XM_005661481	PREDICTED: Sus scrofa basic transcription factor 3 (BTF3), transcript variant X3, mRNA
two	213387	NDUFA11	NM_175614	Homo sapiens NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 11, 14,7kDa (NDUFA11), transcript variant 1, mRNA	Cytoplasm	enzyme	NM_001244924	Sus scrofa NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 11, 14,7kDa (NDUFA11), mRNA
two	213400	ARHGDI A	NM_004309	Homo sapiens Rho GDP dissociation inhibitor (GDI) alpha (ARHGDI A), transcript variant 2, mRNA	Cytoplasm	other	NM_001201384	Sus scrofa Rho GDP dissociation inhibitor (GDI) alpha (ARHGDI A), mRNA >gi 315321425 gb HQ697265,1 Sus scrofa Rho GDP dissociation inhibitor alpha (ARHGDI A) mRNA, complete cds
two	213411	RAD9A	XR_428922	PREDICTED: Homo sapiens RAD9 homolog A (S, pombe) (RAD9A), transcript variant X2, misc_RNA	Nucleus	enzyme	AK237472	Sus scrofa mRNA, clone:SPL010050A10, expressed in spleen
two	213413		AK026716	Homo sapiens cDNA: FLJ23063 fis, clone LNG04745			CU861994	Pig DNA sequence from clone CH242-42G7 on chromosome X, complete sequence
two	213414	TNRC6B	NM_001162501	Homo sapiens trinucleotide repeat containing 6B (TNRC6B), transcript variant 1, mRNA	Other	other	FP101893	Pig DNA sequence from clone CH242-249J24 on chromosome X, complete sequence
two	213426	TSNARE1	AC145290	Homo sapiens chromosome 8, clone WI2-85514F10, complete sequence	Other	other	CU550727	Pig DNA sequence from clone CH242-88F19 on chromosome 1, complete sequence

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two	213428	SEN3	NM_015670	Homo sapiens SUMO1/sentrin/SMT3 specific peptidase 3 (SEN3), mRNA	Nucleus	peptidase	XR_306604	PREDICTED: Sus scrofa uncharacterized LOC100512311 (LOC100512311), misc_RNA
two	213438	AAMP	NG_033036	Homo sapiens angio-associated, migratory cell protein (AAMP), RefSeqGene on chromosome 2	Plasma Membrane	other	AK349079	Sus scrofa mRNA, clone:PCT010021F09, expressed in placenta
two	213443		AC240142	Homo sapiens FOSMID clone COR2A-DD0002UJKNU_A3 from chromosome 1, complete sequence			XR_297258	PREDICTED: Sus scrofa zinc finger protein 709-like (LOC102167305), misc_RNA
two	213449	DICER1	NM_001271282	Homo sapiens dicer 1, ribonuclease type III (DICER1), transcript variant 4, mRNA	Cytoplasm	enzyme	NM_001197194	Sus scrofa dicer 1, ribonuclease type III (DICER1), mRNA
two	213466	SH3GL1	NG_028084	Homo sapiens SH3-domain GRB2-like 1 (SH3GL1), RefSeqGene on chromosome 19	Cytoplasm	other	XM_005661331	>gi 307715908 gb HQ184403.1 Sus scrofa dicer mRNA, complete cds
two	213495	TMEM184B	XM_006724227	PREDICTED: Homo sapiens transmembrane protein 184B (TMEM184B), transcript variant X7, mRNA	Other	other	BX296548	PREDICTED: Sus scrofa SH3-domain GRB2-like 1 (SH3GL1), transcript variant X4, mRNA
two	213518	CAV3	NG_008797	Homo sapiens caveolin 3 (CAV3), RefSeqGene (LRG_329) on chromosome 3			AY731093	Pig DNA sequence from clone PigE-19319, complete sequence
two	213522		AC068138	Homo sapiens BAC clone RP11-813K12 from 2, complete sequence			CU618307	Sus scrofa CAV3 (CAV3) mRNA, complete cds
two	213545	CADPS2	NG_016215	Homo sapiens Ca ⁺⁺ -dependent secretion activator 2 (CADPS2), RefSeqGene on chromosome 7			AB699688	Pig DNA sequence from clone CH242-12P4 on chromosome X, complete sequence
two	213569	LINC00641	NR_038970	Homo sapiens long intergenic non-protein coding RNA 641 (LINC00641), transcript variant 1, long non-coding RNA	Other	other	CT824638	Sus scrofa genes for immunoglobulin heavy chain constant region, clone: L380J14
two	213572	DPH3	NM_206831	Homo sapiens diphthamide biosynthesis 3 (DPH3), transcript variant 1, mRNA	Cytoplasm	other	NM_001243616	Pig DNA sequence from clone CH242-207119 on chromosome 7, complete sequence
two	213641	TARBP2	XR_245955	PREDICTED: Homo sapiens TAR (HIV-1) RNA binding protein 2 (TARBP2), transcript variant X11, misc_RNA	Nucleus	other	XM_005652571	Sus scrofa DPH3, KT111 homolog (S. cerevisiae) (DPH3), mRNA
two	213681	LIX1L	NM_153713	Homo sapiens Lix1 homolog (mouse)-like (LIX1L), mRNA	Other	other	XM_001927823	PREDICTED: Sus scrofa TAR (HIV-1) RNA binding protein 2 (TARBP2), transcript variant X3, mRNA
two	213701	SERPINA1	NM_001127707	Homo sapiens serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1 (SERPINA1), transcript variant 11, mRNA	Extracellular Space	other	XM_005666416	PREDICTED: Sus scrofa Lix1 homolog (mouse)-like (LIX1L), mRNA
								PREDICTED: Sus scrofa serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1 (SERPINA1), transcript variant X2, mRNA

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two	213722	FAM21C	AC254314	Homo sapiens BAC clone CH17-214P16 from chromosome 10, complete sequence			XM_005671224	PREDICTED: Sus scrofa family with sequence similarity 21, member C (FAM21C), transcript variant X3, mRNA
two	213745	SLCO1B7	AC087309	Homo sapiens 12 BAC RP11-545J16 (Roswell Park Cancer Institute Human BAC Library) complete sequence	Extracellular Space	other	XM_005655661	PREDICTED: Sus scrofa solute carrier organic anion transporter family, member 1B3 (SLCO1B3), transcript variant X4, mRNA
two	213770	ORMDL3	XM_005257827	PREDICTED: Homo sapiens ORM1-like 3 (S, cerevisiae) (ORMDL3), transcript variant X3, mRNA	Cytoplasm	other	XM_003131499	PREDICTED: Sus scrofa ORM1-like protein 3-like (LOC100512626), transcript variant X2, mRNA
two	213800		AC098484	Homo sapiens chromosome 1 clone RP5-994D16, complete sequence			FP236754	Pig DNA sequence from clone CH242-296P20 on chromosome 1, complete sequence
two	213805	MKRN1	NM_013446	Homo sapiens makorin ring finger protein 1 (MKRN1), transcript variant 1, mRNA	Other	enzyme	XM_005654275	PREDICTED: Sus scrofa makorin ring finger protein 1 (MKRN1), transcript variant X4, mRNA
two	213843	TTC39A	AL162430	Human DNA sequence from clone RP11-296A18 on chromosome 1, complete sequence			XM_005665443	PREDICTED: Sus scrofa tetratricopeptide repeat domain 39A (TTC39A), transcript variant X3, mRNA
two	213854	C12orf43	NR_104409	Homo sapiens chromosome 12 open reading frame 43 (C12orf43), transcript variant 8, long non-coding RNA	Other	other	XM_005670716	PREDICTED: Sus scrofa chromosome 14 open reading frame, human C12orf43 (C14H12orf43), transcript variant X2, mRNA
two	213895	CSDC2	NM_014460	Homo sapiens cold shock domain containing C2, RNA binding (CSDC2), mRNA	Cytoplasm	other	AK348001	Sus scrofa mRNA, clone:OVRM10039C02, expressed in ovary
two	213900	MAD2L2	XM_005263423	PREDICTED: Homo sapiens MAD2 mitotic arrest deficient-like 2 (yeast) (MAD2L2), transcript variant X1, mRNA	Nucleus	enzyme	AK343356	Sus scrofa mRNA, clone:ADR010047F06, expressed in adrenal gland
two	213919	PTTG1	FM206294	Cloning vector pchilGHG1			XM_005672566	PREDICTED: Sus scrofa pituitary tumor-transforming 1 (PTTG1), transcript variant X6, mRNA
two	213955	TRAF3IP3	NM_025228	Homo sapiens TRAF3 interacting protein 3 (TRAF3IP3), transcript variant 1, mRNA	Other	other	AK400031	Sus scrofa mRNA, clone: HTMT10133F01, expressed in hypothalamus
two	213998	EIF5A	AC229595	Homo sapiens FOSMID clone ABC14-1179922A23 from chromosome unknown, complete sequence			XM_005655287	PREDICTED: Sus scrofa eukaryotic translation initiation factor 5A (EIF5A), transcript variant X7, mRNA
two	214010		BC069282	Homo sapiens cDNA clone IMAGE:6462259, **** WARNING: chimeric clone ****			AY610090	Sus scrofa clone Clu_67806.scr.msk.p1,Contig1, mRNA sequence
two	214016		AC092650	Homo sapiens BAC clone RP11-429P7 from 2, complete sequence			AK396151	Sus scrofa mRNA, clone: PBL010086E07, expressed in peripheral blood lymphocytes

cluster	array id	gene symbols	HSA accession	HSA description	location	property	SSC accession	SSC description
two	214019	CHRNA3	BC111802	Homo sapiens cholinergic receptor, nicotinic, gamma, mRNA (cDNA clone MGC:133376 IMAGE:40069605), complete cds	Plasma Membrane	transmembrane receptor	XM_003133731	PREDICTED: Sus scrofa cholinergic receptor, nicotinic, gamma (muscle) (CHRNA3), mRNA
two	214031	MARVELD1	NM_031484	Homo sapiens MARVEL domain containing 1 (MARVELD1), mRNA	Other	other	XR_299456	PREDICTED: Sus scrofa MARVEL domain containing 1 (MARVELD1), transcript variant X1, misc_RNA
two	214046	RPS17P8	NG_011147	Homo sapiens ribosomal protein S17 pseudogene 8 (RPS17P8) on chromosome 2			AK352159	Sus scrofa mRNA, clone:UTR010014E11, expressed in uterus
two	214061	FBXO46	NM_001080469	Homo sapiens F-box protein 46 (FBXO46), mRNA	Other	other	XM_005658972	PREDICTED: Sus scrofa F-box protein 46 (FBXO46), mRNA
two	214081	BRD2	XR_247406	PREDICTED: Homo sapiens bromodomain containing 2 (BRD2), transcript variant X2, misc_RNA	Nucleus	kinase	AK400097	Sus scrofa mRNA, clone: BFLT10007E08, expressed in brain (frontal lobe)
two	214106	FBLN2	AL080171	Homo sapiens mRNA; cDNA DKFZp434F081 (from clone DKFZp434F081)	Extracellular Space	other	XM_003483229	PREDICTED: Sus scrofa fibulin-2-like (LOC100738401), partial mRNA
two	214109		FM206294	Cloning vector pchilGHG1			FP015812	Pig DNA sequence from clone CH242-6113 on chromosome X, complete sequence
two	214114		HG508224	TPA: Homo sapiens CTD-2033A16,3 gene for long non-coding RNA OTTHUMT00000438062,1, antisense			XM_003126901	PREDICTED: Sus scrofa RNA-binding protein NOB1-like (LOC100516270), mRNA
two	214128	CHKB-CPT1B	NR_027928	Homo sapiens CHKB-CPT1B readthrough (NMD candidate) (CHKB-CPT1B), long non-coding RNA	Other	other	AK397012	Sus scrofa mRNA, clone: PTG010053B12, expressed in pituitary gland
two	214132	LSM7	NM_016199	Homo sapiens LSM7 homolog, U6 small nuclear RNA associated (S, cerevisiae) (LSM7), mRNA	Nucleus	other	XM_003123024	PREDICTED: Sus scrofa LSM7 homolog, U6 small nuclear RNA associated (S, cerevisiae) (LSM7), transcript variant X1, mRNA
two	214146	PAK1	XM_006718576	PREDICTED: Homo sapiens p21 protein (Cdc42/Rac)-activated kinase 1 (PAK1), transcript variant X7, mRNA	Cytoplasm	kinase	XM_005667164	PREDICTED: Sus scrofa p21 protein (Cdc42/Rac)-activated kinase 1 (PAK1), mRNA
two	214160	TCEB2	NM_007108	Homo sapiens transcription elongation factor B (SIII), polypeptide 2 (18kDa, elongin B) (TCEB2), transcript variant 1, mRNA	Nucleus	transcription regulator	XM_003124746	PREDICTED: Sus scrofa transcription elongation factor B (SIII), polypeptide 2 (18kDa, elongin B) (TCEB2), transcript variant 1, mRNA
two	214166	CAMSAP1	XM_005263397	PREDICTED: Homo sapiens calmodulin regulated spectrin-associated protein 1 (CAMSAP1), transcript variant X2, mRNA	Cytoplasm	other	XM_003122282	PREDICTED: Sus scrofa calmodulin regulated spectrin-associated protein 1 (CAMSAP1), mRNA
two	214206	CACNG2	NG_031861	Homo sapiens calcium channel, voltage-dependent, gamma subunit 2 (CACNG2), RefSeqGene on chromosome 22	Plasma Membrane	ion channel	CU468063	Pig DNA sequence from clone CH242-273O11 on chromosome X, complete sequence

cluster	array id	gene symbols	HSA accession	HSA description	location	property	SSC accession	SSC description
two	214238	FAM13B	XM_006714649	PREDICTED: Homo sapiens family with sequence similarity 13, member B (FAM13B), transcript variant X6, mRNA	Cytoplasm	other	L36913	Pig microsatellite DNA (CA repeat)
two	214255	RPS17P3	NG_009636	Homo sapiens ribosomal protein S17 pseudogene 3 (RPS17P3) on chromosome 17			AK352159	Sus scrofa mRNA, clone:UTR010014E11, expressed in uterus
two	214264	PSMC3IP	NG_031960	Homo sapiens PSMC3 interacting protein (PSMC3IP), RefSeqGene on chromosome 17	Nucleus	transcription regulator	XM_005668801	PREDICTED: Sus scrofa PSMC3 interacting protein (PSMC3IP), transcript variant X2, mRNA
two	214268	BLOC1S1	NR_037657	Homo sapiens biogenesis of lysosomal organelles complex-1, subunit 1 (BLOC1S1), transcript variant 4, long non-coding RNA	Cytoplasm	other	AK392442	Sus scrofa mRNA, clone: HTMT10074C01, expressed in hypothalamus
two	214286	PKP2P1	NG_000936	Homo sapiens plakophilin 2 pseudogene 1 (PKP2P1) on chromosome 12			XM_003126396	PREDICTED: Sus scrofa plakophilin 2 (PKP2), partial mRNA
two	214287	GPR124	XM_006716325	PREDICTED: Homo sapiens G protein-coupled receptor 124 (GPR124), transcript variant X3, mRNA	Plasma Membrane	G-protein coupled receptor	XM_003133366	PREDICTED: Sus scrofa G protein-coupled receptor 124 (GPR124), mRNA
two	214314	ZNF22	NM_006963	Homo sapiens zinc finger protein 22 (ZNF22), mRNA	Nucleus	other	XR_135410	PREDICTED: Sus scrofa zinc finger protein 22-like (LOC100739398), misc_RNA
two	214330	KIAA1875	AK124611	Homo sapiens cDNA FLJ42620 fis, clone BRACE3015121	Other	other	XM_003125462	PREDICTED: Sus scrofa KIAA1875 ortholog (KIAA1875), mRNA
two	214332	UBL7	NM_001286740	Homo sapiens ubiquitin-like 7 (UBL7), transcript variant 4, mRNA	Other	other	XM_005666133	PREDICTED: Sus scrofa ubiquitin-like 7 (bone marrow stromal cell-derived) (UBL7), transcript variant X4, mRNA
two	214353		AC229595	Homo sapiens FOSMID clone ABC14-1179922A23 from chromosome unknown, complete sequence			AK389352	Sus scrofa mRNA, clone: ADR010052A04, expressed in adrenal gland
two	214358	UCP2	U94592	Human uncoupling protein homolog (UCPH) mRNA, complete cds	Cytoplasm	transporter	L36913	Pig microsatellite DNA (CA repeat)
two	214368		FM206294	Cloning vector pchilGHG1			XM_005654290	PREDICTED: Sus scrofa nuclear pore glycoprotein p62-like (LOC100517135), transcript variant X7, mRNA
two	214374	GNAI3	NG_032795	Homo sapiens guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 3 (GNAI3), RefSeqGene on chromosome 1			XM_005663587	PREDICTED: Sus scrofa guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 3 (GNAI3), transcript variant X2, mRNA
two	214382	RPS2P9	NG_010131	Homo sapiens ribosomal protein S2 pseudogene 9 (RPS2P9) on chromosome 1			AK392242	Sus scrofa mRNA, clone: HTMT10059G10, expressed in hypothalamus
two	214387	OXSM	XM_006713217	PREDICTED: Homo sapiens 3-oxoacyl-ACP synthase, mitochondrial (OXSM), transcript variant X2, mRNA	Cytoplasm	kinase	XM_005669308	PREDICTED: Sus scrofa 3-oxoacyl-ACP synthase, mitochondrial (OXSM), partial mRNA

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two	214394		AC216001	Homo sapiens FOSMID clone ABC11-47170100H15 from chromosome 18, complete sequence			CU861973	Pig DNA sequence from clone CH242-28P8 on chromosome X, complete sequence
two	214408	H2AFZ	XM_005262971	PREDICTED: Homo sapiens H2A histone family, member Z (H2AFZ), transcript variant X1, mRNA	Nucleus	other	AK391948	Sus scrofa mRNA, clone: HTMT10036B07, expressed in hypothalamus
two	214417	LMNB2	NM_032737	Homo sapiens lamin B2 (LMNB2), mRNA	Nucleus	other	XM_003353991	PREDICTED: Sus scrofa lamin B2 (LMNB2), mRNA
two	214435	GSTP1P1	NG_004638	Homo sapiens glutathione S-transferase pi 1 pseudogene 1 (GSTP1P1) on chromosome 12			AK392586	Sus scrofa mRNA, clone: HTMT10088B08, expressed in hypothalamus
two	214441	MYH3	XM_006721528	PREDICTED: Homo sapiens myosin, heavy chain 3, skeletal muscle, embryonic (MYH3), transcript variant X1, mRNA	Cytoplasm	enzyme	XM_003131994	PREDICTED: Sus scrofa myosin heavy chain (MYHC), mRNA
two	214454	NPFF	AC023509	Homo sapiens 12 BAC RP11-793H13 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_003126195	PREDICTED: Sus scrofa neuropeptide FF-amide peptide precursor (NPFF), mRNA
two	214456		AC025300	Homo sapiens chromosome 11, clone RP11-573E11, complete sequence			AK394421	Sus scrofa mRNA, clone: MLN010028D03, expressed in mesenteric lymph node
two	214464		AC237340	Homo sapiens FOSMID clone ABC16-287O16 from chromosome 7, complete sequence			AC091623	Sus scrofa clone RP44-183E24, complete sequence
two	214465	PLEKHB1	AF081583	Homo sapiens KPL1 (KPL1) mRNA, complete cds	Cytoplasm	other	AK392524	Sus scrofa mRNA, clone: HTMT10083C03, expressed in hypothalamus
two	214468	DNAJB14	XM_006714311	PREDICTED: Homo sapiens DnaJ (Hsp40) homolog, subfamily B, member 14 (DNAJB14), transcript variant X2, mRNA	Other	enzyme	XM_005666965	PREDICTED: Sus scrofa DnaJ (Hsp40) homolog, subfamily B, member 14 (DNAJB14), mRNA
two	214493	CRYBA1	XM_006721706	PREDICTED: Homo sapiens crystallin, beta A1 (CRYBA1), transcript variant X1, mRNA	Other	other	XM_003131602	PREDICTED: Sus scrofa beta-crystallin A3-like (LOC100519211), partial mRNA
two	214503	CBX5	NM_001127322	Homo sapiens chromobox homolog 5 (CBX5), transcript variant 1, mRNA	Nucleus	transcription regulator	XM_005663856	PREDICTED: Sus scrofa chromobox homolog 5 (CBX5), mRNA
two	214505	FAM92A1	XM_006716506	PREDICTED: Homo sapiens family with sequence similarity 92, member A1 (FAM92A1), transcript variant X6, mRNA	Other	other	XM_005662973	PREDICTED: Sus scrofa protein FAM92A1-like (LOC100515202), mRNA
two	214529	SWI5	XM_005251982	PREDICTED: Homo sapiens SWI5 recombination repair homolog (yeast) (SWI5), transcript variant X1, mRNA	Nucleus	other	XM_005660484	PREDICTED: Sus scrofa DNA repair protein SWI5 homolog (LOC100152291), partial mRNA

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two	214530	UBR4	XM_006710510	PREDICTED: Homo sapiens ubiquitin protein ligase E3 component n-recognin 4 (UBR4), transcript variant X13, mRNA	Nucleus	enzyme	XM_005656025	PREDICTED: Sus scrofa ubiquitin protein ligase E3 component n-recognin 4 (UBR4), mRNA
two	214556	AKT2	NG_012038	Homo sapiens v-akt murine thymoma viral oncogene homolog 2 (AKT2), RefSeqGene on chromosome 19	Cytoplasm	kinase	XM_005655820	PREDICTED: Sus scrofa v-akt murine thymoma viral oncogene homolog 2 (AKT2), transcript variant X3, mRNA
two	214560	CRYBA2	NM_057094	Homo sapiens crystallin, beta A2 (CRYBA2), transcript variant 3, mRNA	Other	other	AY609619	Sus scrofa clone Clu_214473,scr,msk,p1,Contig1, mRNA sequence
two	214648	RNF183	XM_006716952	PREDICTED: Homo sapiens ring finger protein 183 (RNF183), transcript variant X1, mRNA	Other	other	XM_003353615	PREDICTED: Sus scrofa ring finger protein 183 (RNF183), transcript variant 2, mRNA
two	214692	KCNC1	NM_001112741	Homo sapiens potassium voltage-gated channel, Shaw-related subfamily, member 1 (KCNC1), transcript variant A, mRNA	Plasma Membrane	ion channel	XM_003360528	PREDICTED: Sus scrofa ATP-dependent RNA helicase DDX3X-like (LOC100624590), transcript variant 1, mRNA
two	214693	ALMS1	NM_015120	Homo sapiens Alstrom syndrome 1 (ALMS1), mRNA	Cytoplasm	other	XM_005662465	PREDICTED: Sus scrofa Alstrom syndrome 1 (ALMS1), transcript variant X2, mRNA
two	214696		NG_022050	Homo sapiens inositol-3-phosphate synthase 1 pseudogene (LOC645433) on chromosome 4			AK347388	Sus scrofa mRNA, clone:OVR010021E12, expressed in ovary
two	214707		FM206294	Cloning vector pchiIGHG1			L36913	Pig microsatellite DNA (CA repeat)
two	214724	TMEM8A	AK091823	Homo sapiens cDNA FLJ34504 fis, clone HLUNG2005774, highly similar to Homo sapiens mRNA for M83 protein	Plasma Membrane	other	XM_003124666	PREDICTED: Sus scrofa transmembrane protein 8A (TMEM8A), mRNA
two	214731	CNTN5	AP000760	Homo sapiens genomic DNA, chromosome 11 clone:RP11-779L16, complete sequence	Plasma Membrane	other	AK392499	Sus scrofa mRNA, clone: HTMT10080D10, expressed in hypothalamus
two	214733	SPG7	NM_003119	Homo sapiens spastic paraplegia 7 (pure and complicated autosomal recessive) (SPG7), transcript variant 1, mRNA	Cytoplasm	peptidase	AK393108	Sus scrofa mRNA, clone: KDN010003C03, expressed in kidney
two	214740	KLHL18	BX537953	Homo sapiens mRNA; cDNA DKFZp686M0586 (from clone DKFZp686M0586); complete cds	Other	other	XM_005674502	PREDICTED: Sus scrofa kelch-like family member 18 (KLHL18), mRNA
two	214744	GNG12	NM_018841	Homo sapiens guanine nucleotide binding protein (G protein), gamma 12 (GNG12), mRNA	Plasma Membrane	enzyme	FN673720	Sus scrofa BAC clone KNP_175E3
two	214749	MOBP	NR_103505	Homo sapiens myelin-associated oligodendrocyte basic protein (MOBP), transcript variant 6, long non-coding RNA	Cytoplasm	other	XR_306740	PREDICTED: Sus scrofa myelin-associated oligodendrocyte basic protein (MOBP), transcript variant X5, misc_RNA

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two	214755	ATP2B2	NG_012046	Homo sapiens ATPase, Ca++ transporting, plasma membrane 2 (ATP2B2), RefSeqGene on chromosome 3	Plasma Membrane	transporter	XM_005669777	PREDICTED: Sus scrofa plasma membrane calcium-transporting ATPase 2-like (LOC100736596), partial mRNA
two	214769	DYNLRB1	NR_104032	Homo sapiens dynein, light chain, roadblock-type 1 (DYNLRB1), transcript variant 6, non-coding RNA	Cytoplasm	other	AK237500	Sus scrofa mRNA, clone:SPL010053H10, expressed in spleen
two	214772	GABRB3	NG_012836	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, beta 3 (GABRB3), RefSeqGene on chromosome 15	Plasma Membrane	ion channel	AK399723	Sus scrofa mRNA, clone: BMWN10044C06, expressed in bone marrow
two	214825	BCL2L2	NM_004050	Homo sapiens BCL2-like 2 (BCL2L2), transcript variant 1, mRNA	Cytoplasm	other	XM_005666256	PREDICTED: Sus scrofa BCL2-like 2 (BCL2L2), transcript variant X3, mRNA
two	214840		HG507430	TPA: Homo sapiens RP11-24J19,1 gene for long non-coding RNA OTTHUMT00000414827,1, antisense			AK389458	Sus scrofa mRNA, clone: ADR010075D03, expressed in adrenal gland
two	214842	HEPACAM	XM_005271449	PREDICTED: Homo sapiens hepatic and glial cell adhesion molecule (HEPACAM), transcript variant X1, mRNA	Plasma Membrane	other	FP102488	Pig DNA sequence from clone CH242-224P4 on chromosome X, complete sequence
two	214849	SMAD2	NM_001135937	Homo sapiens SMAD family member 2 (SMAD2), transcript variant 3, mRNA	Nucleus	transcription regulator	AK398510	Sus scrofa mRNA, clone: THY010124G08, expressed in thymus
two	214887	KIAA1468	XM_006722515	PREDICTED: Homo sapiens KIAA1468 (KIAA1468), transcript variant X8, mRNA	Other	other	XM_005654482	PREDICTED: Sus scrofa KIAA1468 ortholog (KIAA1468), transcript variant X3, mRNA
two	214896	RPS6KL1	AC104981	Homo sapiens chromosome 17, clone RP11-316M20, complete sequence	Other	other	XM_001924573	PREDICTED: Sus scrofa ribosomal protein S6 kinase-like 1 (RPS6KL1), mRNA
two	214897		AL450023	Human DNA sequence from clone RP11-552J9 on chromosome X, complete sequence			CU074335	Pig DNA sequence from clone CH242-169D21 on chromosome 1, complete sequence
two	214912	ADAMTSL1	AL442638	Homo sapiens chromosome 9 BAC RP11-570H19, complete sequence	Extracellular Space	other	CT737281	Pig DNA sequence from clone CH242-102G9 on chromosome 7, complete sequence
two	214914	PDCD6	AF035606	Homo sapiens calcium binding protein (ALG-2) mRNA, complete cds	Cytoplasm	other	XM_005656501	PREDICTED: Sus scrofa putative protein ZNF720-like (LOC102161965), transcript variant X2, mRNA
two	214925	SNX30	XM_005251986	PREDICTED: Homo sapiens sorting nexin family member 30 (SNX30), transcript variant X1, mRNA	Other	other	XM_003122081	PREDICTED: Sus scrofa sorting nexin family member 30 (SNX30), mRNA
two	214926	ATP6V1C1	NM_001695	Homo sapiens ATPase, H+ transporting, lysosomal 42kDa, V1 subunit C1 (ATP6V1C1), mRNA	Cytoplasm	transporter	NM_001190205	Sus scrofa ATPase, H+ transporting, lysosomal 42kDa, V1 subunit C1 (ATP6V1C1), mRNA
two	214934	NHLRC2	AL627429	Human DNA sequence from clone RP11-361G9 on chromosome 10, complete sequence	Other	enzyme	AK396396	Sus scrofa mRNA, clone: PST010021F10, expressed in prostate

cluster	array id	gene symbols	HSA accession	HSA description	location	property	SSC accession	SSC description
two	214987	TLL11	XM_005251729	PREDICTED: Homo sapiens tubulin tyrosine ligase-like family, member 11 (TLL11), transcript variant X2, mRNA	Other	other	XM_005655051	PREDICTED: Sus scrofa cAMP-dependent protein kinase type I-beta regulatory subunit-like (LOC100522128), mRNA
two	214993	RUNDC3A	NM_001144826	Homo sapiens RUN domain containing 3A (RUNDC3A), transcript variant 3, mRNA	Cytoplasm	other	XM_005668759	PREDICTED: Sus scrofa RUN domain containing 3A (RUNDC3A), transcript variant X5, mRNA
two	215028	UBQLN1	NG_011519	Homo sapiens ubiquilin 1 (UBQLN1), RefSeqGene on chromosome 9	Cytoplasm	other	XM_005668033	PREDICTED: Sus scrofa ubiquilin 1 (UBQLN1), transcript variant X2, mRNA
two	215040	FBXO28	FM206294	Cloning vector pchilGHG1			XM_003130584	PREDICTED: Sus scrofa F-box protein 28 (FBXO28), transcript variant X1, mRNA
two	215062	CHDH	NG_028042	Homo sapiens choline dehydrogenase (CHDH), RefSeqGene on chromosome 3	Cytoplasm	enzyme	AK393413	Sus scrofa mRNA, clone: KDN010051G05, expressed in kidney
two	215082	LOC101929028	AC068992	Homo sapiens 8 BAC RP11-406I9 (Roswell Park Cancer Institute Human BAC Library) complete sequence	Other	other	CU928841	Pig DNA sequence from clone CH242-129J12 on chromosome X, complete sequence
two	215088		FM206294	Cloning vector pchilGHG1			AY609786	Sus scrofa clone Clu_3100,scr,msk,p1,Contig1, mRNA sequence
two	215090	COL8A2	NG_016245	Homo sapiens collagen, type VIII, alpha 2 (COL8A2), RefSeqGene on chromosome 1	Extracellular Space	other	XM_003127788	PREDICTED: Sus scrofa ADP-ribosylhydrolase like 2 (ADPRHL2), mRNA
two	215105	ZDHC18	AC004873	Homo sapiens PAC clone RP4-742P4 from 1, complete sequence			XM_003127734	PREDICTED: Sus scrofa zinc finger, DHC-type containing 18 (ZDHC18), mRNA
two	215107	TMEM30A	NM_018247	Homo sapiens transmembrane protein 30A (TMEM30A), transcript variant 1, mRNA	Cytoplasm	other	XM_003483416	PREDICTED: Sus scrofa dynein, axonemal, heavy chain 10 (DNAH10), mRNA
two	215131	AP2A2	XR_242779	PREDICTED: Homo sapiens adaptor-related protein complex 2, alpha 2 subunit (AP2A2), transcript variant X1, misc_RNA	Cytoplasm	transporter	AK393723	Sus scrofa mRNA, clone: KDN010095G12, expressed in kidney
two	215151		AL359502	Human DNA sequence from clone RP11-120E13 on chromosome 13, complete sequence			CT954269	Pig DNA sequence from clone CH242-404E7 on chromosome 7, complete sequence
two	215180		FM206294	Cloning vector pchilGHG1			AK397131	Sus scrofa mRNA, clone: PTG010099C02, expressed in pituitary gland
two	215188	FBXL15	XM_005270150	PREDICTED: Homo sapiens F-box and leucine-rich repeat protein 15 (FBXL15), transcript variant X2, mRNA	Cytoplasm	other	CT737356	Pig DNA sequence from clone CH242-131H21 on chromosome 14, complete sequence

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two	215222	NDUFAF5	XM_006723624	PREDICTED: Homo sapiens NADH dehydrogenase (ubiquinone) complex I, assembly factor 5 (NDUFAF5), transcript variant X5, mRNA	Cytoplasm	other	XM_005672707	PREDICTED: Sus scrofa NADH dehydrogenase (ubiquinone) complex I, assembly factor 5 (NDUFAF5), transcript variant X2, mRNA
two	215223	SNRNP200	NG_016973	Homo sapiens small nuclear ribonucleoprotein 200kDa (U5) (SNRNP200), RefSeqGene on chromosome 2	Nucleus	enzyme	XM_003481129	PREDICTED: Sus scrofa cytosolic iron-sulfur protein assembly 1 (CIAO1), mRNA
two	215227	NUDT16L1	NM_001193452	Homo sapiens nudix (nucleoside diphosphate linked moiety X)-type motif 16-like 1 (NUDT16L1), transcript variant 2, mRNA	Cytoplasm	other	XM_005662164	PREDICTED: Sus scrofa nudix (nucleoside diphosphate linked moiety X)-type motif 16-like 1 (NUDT16L1), transcript variant X2, mRNA
two	215247	THAP9-AS1	AK128593	Homo sapiens cDNA FLJ46752 fis, clone TRACH3023063	Other	other	XR_135296	PREDICTED: Sus scrofa uncharacterized LOC100737511 (LOC100737511), transcript variant X1, misc_RNA
two	215250	IRGQ	JN160804	Cloning vector pRS316-1B9, complete sequence			XM_005655929	PREDICTED: Sus scrofa immunity-related GTPase family, Q (IRGQ), transcript variant X5, mRNA
two	215251	CELSR2	D87469	Homo sapiens mRNA for KIAA0279 protein, partial cds	Plasma Membrane	G-protein coupled receptor	KJ210857	Sus scrofa domesticus SLIT and NTRK-like protein 6 precursor (SLITRK6) gene, complete cds
two	215304		FM206294	Cloning vector pchilGHG1			XM_003359404	PREDICTED: Sus scrofa BCL2/adenovirus E1B 19 kDa protein-interacting protein 3-like (LOC100624868), mRNA
two	215306	MRPS36	NM_033281	Homo sapiens mitochondrial ribosomal protein S36 (MRPS36), mRNA	Cytoplasm	other	AK391719	Sus scrofa mRNA, clone: HTMT10018C03, expressed in hypothalamus
two	215329	ADARB1	AL096762	Human DNA sequence from clone RP5-843G2 on chromosome Xp11,3-11,4, complete sequence			XM_005652389	PREDICTED: Sus scrofa adenosine deaminase, RNA-specific, B1 (ADARB1), mRNA
two	215340	C2H19orf25	FM206294	Cloning vector pchilGHG1			XM_003353978	PREDICTED: Sus scrofa chromosome 2 open reading frame, human C19orf25 (C2H19orf25), mRNA
two	215369	CENPF	U30872	Human mitosis mRNA, complete cds	Nucleus	other	AK236537	Sus scrofa mRNA, clone:OVRM10201A11, expressed in ovary
two	215389	HS6ST2	XM_006724790	PREDICTED: Homo sapiens heparan sulfate 6-O-sulfotransferase 2 (HS6ST2), transcript variant X3, mRNA	Plasma Membrane	enzyme	XM_005673924	PREDICTED: Sus scrofa heparan-sulfate 6-O-sulfotransferase 2-like (LOC100153213), mRNA
two	215401	C10orf2	NG_012624	Homo sapiens chromosome 10 open reading frame 2 (C10orf2), RefSeqGene on chromosome 10	Cytoplasm	enzyme	AK236031	Sus scrofa mRNA, clone:OVRM10140F12, expressed in ovary

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two	215438	SLC9A9	NG_017077	Homo sapiens solute carrier family 9, subfamily A (NHE9, cation proton antiporter 9), member 9 (SLC9A9), RefSeqGene on chromosome 3			XM_003359817	PREDICTED: Sus scrofa ubiquitin domain containing 2 (UBTD2), mRNA
two	215456	APLP1	U48437	Homo sapiens amyloid precursor-like protein 1 (APLP1) mRNA, complete cds	Extracellular Space	other	AK399912	Sus scrofa mRNA, clone: HTMT10069E08, expressed in hypothalamus
two	215571		FM206294	Cloning vector pchilGHG1			CU928991	Pig DNA sequence from clone CH242-32C19 on chromosome 12, complete sequence
two	215574		AC007384	Homo sapiens BAC clone RP11-325F22 from 7, complete sequence			CU406985	Pig DNA sequence from clone CH242-434N2 on chromosome X, complete sequence
two	215590	DENND2A	XM_005249978	PREDICTED: Homo sapiens DENN/MADD domain containing 2A (DENND2A), transcript variant X3, mRNA	Other	other	XM_005654270	PREDICTED: Sus scrofa DENN/MADD domain containing 2A (DENND2A), transcript variant X2, mRNA
two	215592	VAR2	NM_001167734	Homo sapiens valyl-tRNA synthetase 2, mitochondrial (VAR2), transcript variant 1, mRNA	Cytoplasm	enzyme	XM_005665730	PREDICTED: Sus scrofa valyl-tRNA synthetase (VAR2), transcript variant X1, mRNA
two	215597	RNF214	XM_006718812	PREDICTED: Homo sapiens ring finger protein 214 (RNF214), transcript variant X2, mRNA	Other	other	XM_005667388	PREDICTED: Sus scrofa ring finger protein 214 (RNF214), transcript variant X10, mRNA
two	215620	SERPING1	GU727623	Homo sapiens epididymis tissue protein Li 173 mRNA, complete cds	Extracellular Space	other	XM_005660873	PREDICTED: Sus scrofa serpin peptidase inhibitor, clade G (C1 inhibitor), member 1 (SERPING1), transcript variant X1, mRNA
two	215633	CDK12	NM_016507	Homo sapiens cyclin-dependent kinase 12 (CDK12), transcript variant 1, mRNA	Nucleus	kinase	XM_003358062	PREDICTED: Sus scrofa cyclin-dependent kinase 12 (CDK12), transcript variant X3, mRNA
two	215637		AL122057	Human chromosome 14 DNA sequence BAC R-246E14 of library RPCI-11 from chromosome 14 of Homo sapiens (Human), complete sequence			EF131078	Sus scrofa clone KVL1270 microsatellite sequence
two	215678		FM206294	Cloning vector pchilGHG1			AK392805	Sus scrofa mRNA, clone: HTMT10100H07, expressed in hypothalamus
two	215683	YWHAQ	AF070556	Homo sapiens clone 24409 14,3,3 protein mRNA, partial cds	Cytoplasm	other	XM_003481291	PREDICTED: Sus scrofa tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide (YWHAQ), transcript variant 2, mRNA

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two	215688	C10H9orf24	AL356494	Human DNA sequence from clone RP11-573M23 on chromosome 9, complete sequence			XM_005668061	PREDICTED: Sus scrofa chromosome 10 open reading frame, human C9orf24 (C10H9orf24), transcript variant X5, mRNA
two	215703		AB464076	Synthetic construct DNA, clone: pF1KB8266, Homo sapiens PTGDS gene for prostaglandin D2 synthase 21kDa, without stop codon, in Flexi system			AK392469	Sus scrofa mRNA, clone: HTMT10077B03, expressed in hypothalamus
two	215713	GSTM3	BC008790	Homo sapiens glutathione S-transferase mu 3 (brain), mRNA (cDNA clone MGC:3704 IMAGE:3630923), complete cds	Cytoplasm	enzyme	NM_001244939	Sus scrofa glutathione S-transferase Mu 3-like (LOC100514231), mRNA >gi 52351354 gb AY609784.1 Sus scrofa clone Clu_30933,scr,msk,p1,Contig9, mRNA sequence
two	215718		FM206294	Cloning vector pchiLGHG1			GQ231317	Sus scrofa sTF35495 noncoding RNA, complete sequence
two	215753	ZNF723	NG_029131	Homo sapiens zinc finger protein 723 (ZNF723) pseudogene on chromosome 19			FP565349	Pig DNA sequence from clone CH242-233E20 on chromosome 6, complete sequence
two	215797	PCED1A	XM_006723609	PREDICTED: Homo sapiens PC-esterase domain containing 1A (PCED1A), transcript variant X5, mRNA	Other	other	XM_005672779	PREDICTED: Sus scrofa PC-esterase domain containing 1A (FAM113A), transcript variant X2, mRNA
two	215798		AC016586	Homo sapiens chromosome 19 clone CTD-2622I13, complete sequence			AK392933	Sus scrofa mRNA, clone: ITT010044F07, expressed in intestine
two	215815	SRCIN1	XM_006722122	PREDICTED: Homo sapiens SRC kinase signaling inhibitor 1 (SRCIN1), transcript variant X6, mRNA >gi 578840435 ref XM_006725361.1 PREDICTED: Homo sapiens SRC kinase signaling inhibitor 1 (SRCIN1), transcript variant X6, mRNA	Cytoplasm	other	CU862030	Pig DNA sequence from clone CH242-145N14 on chromosome X, complete sequence
two	215817	ZFAT	NR_110323	Homo sapiens zinc finger and AT hook domain containing (ZFAT), transcript variant 7, long non-coding RNA	Nucleus	other	XM_003481332	PREDICTED: Sus scrofa zinc finger protein ZFAT-like (LOC100738573), partial mRNA
two	215820	MPP5	AK125287	Homo sapiens cDNA FLJ43297 fis, clone NB9N42001300	Plasma Membrane	kinase	CU856395	Pig DNA sequence from clone CH242-127I21 on chromosome X, complete sequence
two	215824	HNF4A	NG_009818	Homo sapiens hepatocyte nuclear factor 4, alpha (HNF4A), RefSeqGene (LRG_483) on chromosome 20	Nucleus	transcription regulator	AK232550	Sus scrofa mRNA, clone:LVR010068B11, expressed in liver
two	215833		AC079169	Homo sapiens X BAC RP11-479I1 (Roswell Park Cancer Institute Human BAC Library) complete sequence			FP102154	Pig DNA sequence from clone CH242-310I7 on chromosome X, complete sequence

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two	215845	AFF4	NG_030340	Homo sapiens AF4/FMR2 family, member 4 (AFF4), RefSeqGene on chromosome 5			CU407038	Pig DNA sequence from clone CH242-18J12 on chromosome 2, complete sequence
two	215858	PPP6R3	XM_006718626	PREDICTED: Homo sapiens protein phosphatase 6, regulatory subunit 3 (PPP6R3), transcript variant X20, mRNA	Cytoplasm	other	AK240240	Sus scrofa mRNA, clone:UTR010044A12, expressed in uterus
two	215860		AL136231	Human DNA sequence from clone RP11-6J24 on chromosome 9p24,1-24,3, complete sequence			EU010909	Sus scrofa clone KVL9504 microsatellite sequence
two	215869	RRAGB	XM_005261973	PREDICTED: Homo sapiens Ras-related GTP binding B (RRAGB), transcript variant X1, mRNA	Cytoplasm	enzyme	XM_005673674	PREDICTED: Sus scrofa ras-related GTP-binding protein B-like (LOC100620759), mRNA
two	215874		FM206294	Cloning vector pchilGHG1			AK399993	Sus scrofa mRNA, clone: HTMT10116D10, expressed in hypothalamus
two	215881	NAPRT1	NM_145201	Homo sapiens nicotinate phosphoribosyltransferase domain containing 1 (NAPRT1), transcript variant 1, mRNA	Cytoplasm	enzyme	AY214329	Sus scrofa nicotinate phosphoribosyltransferase-like protein mRNA, partial cds
two	215900	HSD11B1	NM_001206741	Homo sapiens hydroxysteroid (11-beta) dehydrogenase 1 (HSD11B1), transcript variant 3, mRNA	Cytoplasm	enzyme	AK394749	Sus scrofa mRNA, clone: MLTL10087B10, expressed in longissimus muscle
two	215907	EIF3A	AL355598	Human DNA sequence from clone RP11-435O11 on chromosome 10, complete sequence			XM_001928342	PREDICTED: Sus scrofa eukaryotic translation initiation factor 3, subunit A (EIF3A), mRNA
two	215924		FM206294	Cloning vector pchilGHG1			FP236485	Pig DNA sequence from clone CH242-240O16 on chromosome X, complete sequence
two	215979	SLC26A11	XM_006721836	PREDICTED: Homo sapiens solute carrier family 26 (anion exchanger), member 11 (SLC26A11), transcript variant X4, mRNA	Cytoplasm	transporter	AK393373	Sus scrofa mRNA, clone: KDN010044A03, expressed in kidney
two	215980	POLR2L	NM_021128	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide L, 7,6kDa (POLR2L), mRNA	Nucleus	enzyme	AK399736	Sus scrofa mRNA, clone: BMWN10052G09, expressed in bone marrow
two	215993	DEPTOR	HG501610	TPA: Homo sapiens RP11-760H22.2 gene for long non-coding RNA OTTHUMT00000438120,1, lincRNA			XM_001926085	PREDICTED: Sus scrofa DEP domain containing MTOR-interacting protein (DEPTOR), mRNA
two	216002	ZNF202	XM_005271663	PREDICTED: Homo sapiens zinc finger protein 202 (ZNF202), transcript variant X5, mRNA	Nucleus	transcription regulator	XM_003357336	PREDICTED: Sus scrofa zinc finger protein 202 (ZNF202), mRNA
two	216026		AC147876	Homo sapiens BAC clone RP11-718M20 from 4, complete sequence			CU207320	Pig DNA sequence from clone CH242-172I16 on chromosome X, complete sequence

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two	216038		FM206294	Cloning vector pchilGHG1			AY610039	Sus scrofa clone Clu_5946,scr,msk,p1,Contig3, mRNA sequence
two	216042	ATP8A2	XM_006719834	PREDICTED: Homo sapiens ATPase, aminophospholipid transporter, class I, type 8A, member 2 (ATP8A2), transcript variant X4, mRNA	Plasma Membrane	transporter	XR_305780	PREDICTED: Sus scrofa uncharacterized LOC102166515 (LOC102166515), misc_RNA
two	216050	PCBD2	NM_032151	Homo sapiens pterin-4 alpha- carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (TCF1) 2 (PCBD2), mRNA	Other	enzyme	XM_005658769	PREDICTED: Sus scrofa uncharacterized LOC100624388 (LOC100624388), mRNA
two	216061		AL034374	Human DNA sequence from clone RP3- 483K16 on chromosome 6p12,1-21,1, complete sequence			FN677058	Sus scrofa BAC clone CHORI242_253K6_Contig62
two	216089	INSC	AC090744	Homo sapiens chromosome 11, clone RP11-660K15, complete sequence			XM_003122961	PREDICTED: Sus scrofa inscuteable homolog (Drosophila) (INSC), mRNA
two	216090	STARD8	XM_005262314	PREDICTED: Homo sapiens StAR- related lipid transfer (START) domain containing 8 (STARD8), transcript variant X1, mRNA	Cytoplasm	other	XM_005673701	PREDICTED: Sus scrofa StAR-related lipid transfer (START) domain containing 8 (STARD8), mRNA
two	216113	DUSP9	XM_005274655	PREDICTED: Homo sapiens dual specificity phosphatase 9 (DUSP9), transcript variant X1, mRNA	Nucleus	phosphatase	XM_003135471	PREDICTED: Sus scrofa dual specificity phosphatase 9 (DUSP9), mRNA
two	216116	ANKRD27	BC045605	Homo sapiens, hypothetical protein DKFZp434L0718, clone IMAGE:5273645, mRNA	Cytoplasm	other	XM_003127009	PREDICTED: Sus scrofa ankyrin repeat domain 27 (VPS9 domain) (ANKRD27), mRNA
two	216126	MED10	FJ515848	Homo sapiens isolate MED10-VI-T mediator of RNA polymerase II transcription subunit 10-like protein (MED10) gene, complete cds	Nucleus	other	XM_003134157	PREDICTED: Sus scrofa mediator complex subunit 10 (MED10), mRNA
two	216134	SLC2A4	NG_012127	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 4 (SLC2A4), RefSeqGene on chromosome 17	Plasma Membrane	transporter	XR_135364	PREDICTED: Sus scrofa uncharacterized LOC100739452 (LOC100739452), misc_RNA
two	216135	ATP6V0A2	NG_012743	Homo sapiens ATPase, H ⁺ transporting, lysosomal V0 subunit a2 (ATP6V0A2), RefSeqGene on chromosome 12			AK396522	Sus scrofa mRNA, clone: PST010045E09, expressed in prostate
two	216155		AP000793	Homo sapiens genomic DNA, chromosome 11q clone:RP11-812L3, complete sequences			XM_003132509	PREDICTED: Sus scrofa ankyrin-3-like (LOC100514323), mRNA
two	216164	HRC	BC112355	Homo sapiens histidine rich calcium binding protein, mRNA (cDNA clone MGC:133236 IMAGE:40034092), complete cds	Cytoplasm	other	XM_003127287	PREDICTED: Sus scrofa histidine rich calcium binding protein (HRC), mRNA

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two	216170		KC911571	Homo sapiens haplogroup K2b* mitochondrion, complete genome			KF569218	Sus scrofa breed DLY mitochondrion, complete genome
two	216187	GINS3	NM_001126130	Homo sapiens GINS complex subunit 3 (Psf3 homolog) (GINS3), transcript variant 3, mRNA	Nucleus	other	XM_005664379	PREDICTED: Sus scrofa GINS complex subunit 3 (Psf3 homolog) (GINS3), transcript variant X1, mRNA
two	216197	HCST	BC065224	Homo sapiens hematopoietic cell signal transducer, mRNA (cDNA clone MGC:70592 IMAGE:5762412), complete cds	Plasma Membrane	transmembrane receptor	XM_005664504	PREDICTED: Sus scrofa hematopoietic cell signal transducer (HCST), transcript variant X3, mRNA
two	216208	GSN	XM_005251945	PREDICTED: Homo sapiens gelsolin (GSN), transcript variant X6, mRNA	Extracellular Space	other	AK393823	Sus scrofa mRNA, clone: LNG010033E05, expressed in lung
two	216220	EIF3J	NM_001284336	Homo sapiens eukaryotic translation initiation factor 3, subunit J (EIF3J), transcript variant 3, mRNA	Cytoplasm	translation regulator	XM_003121533	PREDICTED: Sus scrofa eukaryotic translation initiation factor 3, subunit J (EIF3J), transcript variant 1, mRNA
two	216242	ANAPC7	XM_006719450	PREDICTED: Homo sapiens anaphase promoting complex subunit 7 (ANAPC7), transcript variant X4, mRNA	Nucleus	other	XM_001929407	PREDICTED: Sus scrofa anaphase promoting complex subunit 7 (ANAPC7), mRNA
two	216256	MYOM1	NG_032120	Homo sapiens myomesin 1 (MYOM1), RefSeqGene (LRG_426) on chromosome 18			AK239436	Sus scrofa mRNA, clone:THY010103G12, expressed in thymus
two	216266	TENM2	AC008601	Homo sapiens chromosome 5 clone CTB-105L4, complete sequence	Plasma Membrane	other	AK398294	Sus scrofa mRNA, clone: TES010100F07, expressed in testis
two	216269	C22orf39	NM_173793	Homo sapiens chromosome 22 open reading frame 39 (C22orf39), transcript variant 1, mRNA	Other	other	XM_001929616	PREDICTED: Sus scrofa chromosome 14 open reading frame, human C22orf39 (C14H22orf39), mRNA
two	216270	WFDC1	FM206294	Cloning vector pchilGHG1			NM_001244987	Sus scrofa WAP four-disulfide core domain 1 (WFDC1), mRNA >gi 115546643 dbj AK234481.1 Sus scrofa mRNA, clone:OVR010069F02, expressed in ovary
two	216292		AL031680	Human DNA sequence from clone RP5-850H21 on chromosome 20q13,11-13,2, complete sequence			CT009560	Pig DNA sequence from clone CH242-4C12 on chromosome 17, complete sequence
two	216305	PCD1E	FM206294	Cloning vector pchilGHG1			XR_303087	PREDICTED: Sus scrofa CD1E antigen (PCD1E), transcript variant X2, misc_RNA
two	216316	MSI2	XM_005257015	PREDICTED: Homo sapiens musashi RNA-binding protein 2 (MSI2), transcript variant X2, mRNA	Cytoplasm	other	XR_306515	PREDICTED: Sus scrofa uncharacterized LOC102167662 (LOC102167662), misc_RNA
two	216321	GSK3B	NG_012922	Homo sapiens glycogen synthase kinase 3 beta (GSK3B), RefSeqGene on chromosome 3			AK352150	Sus scrofa mRNA, clone:UTR010013D09, expressed in uterus

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two	216323	WIPF2	XM_005257084	PREDICTED: Homo sapiens WAS/WASL interacting protein family, member 2 (WIPF2), transcript variant X2, mRNA	Cytoplasm	other	XM_005653907	PREDICTED: Sus scrofa WAS/WASL interacting protein family, member 2 (WIPF2), transcript variant X2, mRNA
two	216339	HSD11B2	NG_016549	Homo sapiens hydroxysteroid (11-beta) dehydrogenase 2 (HSD11B2), RefSeqGene on chromosome 16	Cytoplasm	enzyme	XM_003126946	PREDICTED: Sus scrofa ATPase, H+ transporting, lysosomal 38kDa, V0 subunit d1 (ATP6V0D1), mRNA
two	216366	ARHGAP23	XR_430785	PREDICTED: Homo sapiens Rho GTPase activating protein 23 (ARHGAP23), transcript variant X5, misc_RNA	Cytoplasm	other	XM_005654020	PREDICTED: Sus scrofa Rho GTPase activating protein 23 (ARHGAP23), transcript variant X2, mRNA
two	216373	MEPCE	NM_001194992	Homo sapiens methylphosphate capping enzyme (MEPCE), transcript variant 4, mRNA	Other	enzyme	XM_003124352	PREDICTED: Sus scrofa methylphosphate capping enzyme (MEPCE), mRNA
two	216403	MYBPC2	NG_028026	Homo sapiens myosin binding protein C, fast type (MYBPC2), RefSeqGene on chromosome 19	Cytoplasm	other	FP102476	Pig DNA sequence from clone CH242-133P5 on chromosome 6, complete sequence
two	216409	UBE2SP1	NG_001583	Homo sapiens ubiquitin-conjugating enzyme E2S pseudogene 1 (UBE2SP1) on chromosome 17			AY609849	Sus scrofa clone Clu_35267,scr,msk,p1,Contig1, mRNA sequence
two	216410	FITM1	NM_203402	Homo sapiens fat storage-inducing transmembrane protein 1 (FITM1), mRNA >gi 146218454 gb BC139911.1 Homo sapiens fat-inducing transcript 1, mRNA (cDNA clone MGC:164817 IMAGE:40147642), complete cds	Extracellular Space	other	FJ393218	Sus scrofa fat-inducing transcript 1 mRNA, complete cds
two	216425	TBATA	AK057382	Homo sapiens cDNA FLJ32820 fis, clone TESTI2002965	Cytoplasm	other	AK239088	Sus scrofa mRNA, clone:THY010062D03, expressed in thymus
two	216446	ADPRHL1	NM_199162	Homo sapiens ADP-ribosylhydrolase like 1 (ADPRHL1), transcript variant 2, mRNA	Other	enzyme	XM_003357909	PREDICTED: Sus scrofa Protein ADP-ribosylarginine hydrolase-like (LOC100620837), mRNA
two	216451	STON1-GTF2A	NG_033050	Homo sapiens STON1-GTF2A1L readthrough (STON1-GTF2A1L), RefSeqGene on chromosome 2			XM_005655226	PREDICTED: Sus scrofa stonin 1 (STON1), mRNA
two	216454	MYL7	XM_005249816	PREDICTED: Homo sapiens myosin, light chain 7, regulatory (MYL7), transcript variant X1, mRNA	Cytoplasm	enzyme	XM_003134885	PREDICTED: Sus scrofa myosin, light chain 7, regulatory (MYL7), mRNA
two	216470	TRIM38	XM_005248800	PREDICTED: Homo sapiens tripartite motif containing 38 (TRIM38), transcript variant X2, mRNA	Other	other	AK237324	Sus scrofa mRNA, clone:SPL010024B05, expressed in spleen
two	216481	SASH3	XM_006724763	PREDICTED: Homo sapiens SAM and SH3 domain containing 3 (SASH3), transcript variant X1, mRNA	Cytoplasm	other	XM_003135376	PREDICTED: Sus scrofa SAM and SH3 domain containing 3 (SASH3), mRNA

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two	216496	NHP2	BC021066	Homo sapiens cDNA clone IMAGE:3509356, **** WARNING: chimeric clone ****			XM_003123671	PREDICTED: Sus scrofa NHP2 ribonucleoprotein (NHP2), transcript variant 1, mRNA
two	216503		AL133352	Human DNA sequence from clone RP11-411B6 on chromosome 10, complete sequence			FP340357	Pig DNA sequence from clone CH242-49J20 on chromosome X, complete sequence
two	216505	MAST2	XM_006710477	PREDICTED: Homo sapiens microtubule associated serine/threonine kinase 2 (MAST2), transcript variant X11, mRNA	Cytoplasm	kinase	XM_005665470	PREDICTED: Sus scrofa microtubule associated serine/threonine kinase 2 (MAST2), mRNA
two	216570		FM206294	Cloning vector pchilGHG1			XM_005655993	PREDICTED: Sus scrofa voltage-gated potassium channel subunit beta-2-like (LOC100738129), transcript variant X2, mRNA
two	216571	FBXO7	NM_001257990	Homo sapiens F-box protein 7 (FBXO7), transcript variant 3, mRNA	Cytoplasm	enzyme	AK343272	Sus scrofa mRNA, clone:ADR010021D07, expressed in adrenal gland
two	216579	DNAJC30	AK094305	Homo sapiens cDNA FLJ36986 fis, clone BRACE2006598, highly similar to Williams-Beuren syndrome chromosome region 18 protein	Cytoplasm	other	XM_003124409	PREDICTED: Sus scrofa DnaJ (Hsp40) homolog, subfamily C, member 30 (DNAJC30), mRNA
two	216595	DMPK	NM_001288764	Homo sapiens dystrophia myotonica-protein kinase (DMPK), transcript variant 5, mRNA	Cytoplasm	kinase	AK389497	Sus scrofa mRNA, clone: ADR010083F11, expressed in adrenal gland
two	216601		AC068548	Homo sapiens BAC clone RP11-527F14 from 4, complete sequence			CR956621	Pig DNA sequence from clone CH242-201E3 on chromosome 17, complete sequence
two	216603	PNMA2	FM206294	Cloning vector pchilGHG1			XM_005670447	PREDICTED: Sus scrofa paraneoplastic Ma antigen 2 (PNMA2), transcript variant X4, mRNA
two	216654	CMTM5	NM_001288744	Homo sapiens CKLF-like MARVEL transmembrane domain containing 5 (CMTM5), transcript variant 4, mRNA	Other	cytokine	AY609760	Sus scrofa clone Clu_299226,scr,msk,p1,Contig1, mRNA sequence
two	216670	SPCS1	NM_014041	Homo sapiens signal peptidase complex subunit 1 homolog (S, cerevisiae) (SPCS1), mRNA	Cytoplasm	peptidase	AK348614	Sus scrofa mRNA, clone:OVRM10213G01, expressed in ovary
two	216679		HG503866	TPA: Homo sapiens NEAT1 gene for long non-coding RNA OTTHUMT00000389141,1, lincRNA			EF397601	Sus scrofa trophoblast-derived noncoding RNA, complete sequence
two	216689	COMMD1	XM_005264157	PREDICTED: Homo sapiens copper metabolism (Murr1) domain containing 1 (COMMD1), transcript variant X1, mRNA	Nucleus	transporter	XM_003125099	PREDICTED: Sus scrofa copper metabolism (Murr1) domain containing 1 (COMMD1), transcript variant X1, mRNA
two	216704	PTGES2	FM206294	Cloning vector pchilGHG1			XM_005660463	PREDICTED: Sus scrofa prostaglandin E synthase 2 (PTGES2), transcript variant X2, mRNA

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two	216718	DESI1	NM_015704	Homo sapiens desumoylating isopeptidase 1 (DESI1), mRNA	Other	other	FN673769	Sus scrofa BAC clone KNP_995H5
two	216729	ZC3HAV1	BX571742	Homo sapiens mRNA; cDNA DKFZp686H1869 (from clone DKFZp686H1869)	Plasma Membrane	other	FO082324	Pig DNA sequence from clone PigE-237K12 on chromosome X, complete sequence
two	216737	HEXIM1	HG509098	TPA: Homo sapiens AC002117,1 gene for long non-coding RNA OTTHUMT00000450180,1, antisense			XM_003131323	PREDICTED: Sus scrofa hexamethylene bis-acetamide inducible 1 (HEXIM1), mRNA
two	216738	CARHSP1	BC003366	Homo sapiens calcium regulated heat stable protein 1, 24kDa, mRNA (cDNA clone MGC:5235 IMAGE:2900952), complete cds	Cytoplasm	other	AK394945	Sus scrofa mRNA, clone: OVR010071B04, expressed in ovary
two	216750	FGD2	XM_006715016	PREDICTED: Homo sapiens FYVE, RhoGEF and PH domain containing 2 (FGD2), transcript variant X5, mRNA	Cytoplasm	other	XM_005665926	PREDICTED: Sus scrofa FYVE, RhoGEF and PH domain containing 2 (FGD2), transcript variant X2, mRNA
two	216758	ARHGAP32	XM_006718947	PREDICTED: Homo sapiens Rho GTPase activating protein 32 (ARHGAP32), transcript variant X2, mRNA	Cytoplasm	other	XM_003482646	PREDICTED: Sus scrofa rho GTPase-activating protein 32-like (LOC100737512), partial mRNA
two	216760	GDAP1	NG_008787	Homo sapiens ganglioside induced differentiation associated protein 1 (GDAP1), RefSeqGene on chromosome 8	Cytoplasm	other	FN677325	Sus scrofa BAC clone CHORI242_195G13_Contig2
two	216764	LPCAT1	AK022505	Homo sapiens cDNA FLJ12443 fis, clone NT2RM1000186, weakly similar to CALCINEURIN B SUBUNIT	Cytoplasm	enzyme	XM_003134168	PREDICTED: Sus scrofa lysophosphatidylcholine acyltransferase 1 (LPCAT1), transcript variant X1, mRNA
two	216783	ASPHD1	AC244166	Homo sapiens BAC clone CH17-478I19 from chromosome unknown, complete sequence			XM_005655098	PREDICTED: Sus scrofa aspartate beta-hydroxylase domain containing 1 (ASPHD1), mRNA
two	216788	GLTPD1	XM_005244802	PREDICTED: Homo sapiens glycolipid transfer protein domain containing 1 (GLTPD1), transcript variant X2, mRNA	Other	transporter	XM_005653341	PREDICTED: Sus scrofa glycolipid transfer protein domain containing 1 (GLTPD1), transcript variant X3, mRNA
two	216811		AC243616	Homo sapiens BAC clone CH17-191D22 from chromosome unknown, complete sequence			AK346114	Sus scrofa mRNA, clone:LVRM10061D07, expressed in liver
two	216843	GPR37L1	AK295576	Homo sapiens cDNA FLJ53885 complete cds, highly similar to Endothelin B receptor-like protein 2 precursor	Plasma Membrane	G-protein coupled receptor	XM_005668005	PREDICTED: Sus scrofa G protein-coupled receptor 37 like 1 (GPR37L1), partial mRNA
two	216918	DNASE1L3	NM_001256560	Homo sapiens deoxyribonuclease I-like 3 (DNASE1L3), transcript variant 2, mRNA	Nucleus	enzyme	XM_003483194	PREDICTED: Sus scrofa deoxyribonuclease I-like 3 (DNASE1L3), partial mRNA
two	216926	CCAR2	BC065495	Homo sapiens KIAA1967, mRNA (cDNA clone MGC:74489 IMAGE:5496068), complete cds	Cytoplasm	peptidase	XM_005670409	PREDICTED: Sus scrofa KIAA1967 (KIAA1967), transcript variant X2, mRNA

cluster	array id	gene symbols	HSA accession	HSA description	location	property	SSC accession	SSC description
two	216961	SMC6	AC005076	Homo sapiens BAC clone CTA-227L24 from 7q21,1-q21,2, complete sequence			XM_003125342	PREDICTED: Sus scrofa structural maintenance of chromosomes 6 (SMC6), mRNA
two	216992		AC244432	Homo sapiens FOSMID clone COR2A-DD0002SD0NU_O11 from chromosome 1, complete sequence			XM_003355215	PREDICTED: Sus scrofa histone H2A type 2-C-like (LOC100624086), transcript variant X1, mRNA
two	216995	IGFBP3	NG_011508	Homo sapiens insulin-like growth factor binding protein 3 (IGFBP3), RefSeqGene on chromosome 7	Extracellular Space	other	AY464121	Sus scrofa insulin-like growth factor-binding protein 3 gene, complete cds
two	217011		AC093815	Homo sapiens BAC clone RP11-362M19 from 4, complete sequence			XM_005658368	PREDICTED: Sus scrofa UPF0705 protein C11orf49 homolog (LOC100626396), partial mRNA
two	217013		FM206294	Cloning vector pchilGHG1			XM_003361098	PREDICTED: Sus scrofa serine/threonine-protein kinase 17A-like (LOC100621897), mRNA
two	217026		AC096950	Homo sapiens chromosome 1 clone RP4-612J11, complete sequence			AK350395	Sus scrofa mRNA, clone:SPL010054A01, expressed in spleen
two	217035		AC245164	Homo sapiens BAC clone CH17-98J9 from chromosome 8, complete sequence			AB259856	Sus scrofa FAM3B, Mx2, Mx1, TMPRSS2 genes, partial and complete cds
two	217047	MEX3D	FM206294	Cloning vector pchilGHG1			XM_005661417	PREDICTED: Sus scrofa mex-3 RNA binding family member D (MEX3D), partial mRNA
two	217080	TRIM47	XM_005257788	PREDICTED: Homo sapiens tripartite motif containing 47 (TRIM47), transcript variant X2, mRNA	Cytoplasm	other	XM_003131190	PREDICTED: Sus scrofa tripartite motif containing 47 (TRIM47), mRNA
two	217091	CALB2	NM_007088	Homo sapiens calbindin 2 (CALB2), transcript variant CALB2c, mRNA	Cytoplasm	other	XM_005664358	PREDICTED: Sus scrofa calbindin 2 (CALB2), transcript variant X1, mRNA
two	217104	WDR25	BC003641	Homo sapiens WD repeat domain 25, mRNA (cDNA clone MGC:4645 IMAGE:3529568), complete cds	Other	other	XM_005672963	PREDICTED: Sus scrofa serine/threonine-protein kinase 4-like (LOC102161212), mRNA
two	217153	LRRN2	XM_006711116	PREDICTED: Homo sapiens leucine rich repeat neuronal 2 (LRRN2), transcript variant X3, mRNA	Plasma Membrane	other	XM_003130101	PREDICTED: Sus scrofa leucine rich repeat neuronal 2 (LRRN2), mRNA
two	217166	BCL2L2-PABPN1	NM_001199864	Homo sapiens BCL2L2-PABPN1 readthrough (BCL2L2-PABPN1), mRNA	Other	other	XM_005657384	PREDICTED: Sus scrofa uncharacterized LOC100737162 (LOC100737162), mRNA
two	217257	STAP2	XM_005259592	PREDICTED: Homo sapiens signal transducing adaptor family member 2 (STAP2), transcript variant X1, mRNA	Cytoplasm	other	XM_005661334	PREDICTED: Sus scrofa signal transducing adaptor family member 2 (STAP2), transcript variant X4, mRNA
two	217274	GLTSCR2	NM_015710	Homo sapiens glioma tumor suppressor candidate region gene 2 (GLTSCR2), mRNA	Cytoplasm	other	XM_005664640	PREDICTED: Sus scrofa glioma tumor suppressor candidate region gene 2 (GLTSCR2), transcript variant X2, mRNA

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two	217285	HNRNPD	NG_029103	Homo sapiens heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding protein 1, 37kDa) (HNRNPD), RefSeqGene on chromosome 4	Nucleus	transcription regulator	AK400625	Sus scrofa mRNA, clone: OVVRT10071A10, expressed in ovary
two	217307	FAM198A	NM_001129908	Homo sapiens family with sequence similarity 198, member A (FAM198A), mRNA	Other	other	XM_005669430	PREDICTED: Sus scrofa protein FAM198A-like (LOC100525890), mRNA
two	217320	UCP2	U94592	Human uncoupling protein homolog (UCPH) mRNA, complete cds	Cytoplasm	transporter	XM_005652628	PREDICTED: Sus scrofa vegetative cell wall protein gp1-like (LOC102166898), mRNA
two	217326	EIF6	NR_052024	Homo sapiens eukaryotic translation initiation factor 6 (EIF6), transcript variant 9, long non-coding RNA	Cytoplasm	translation regulator	AK392377	Sus scrofa mRNA, clone: HTMT10069C07, expressed in hypothalamus
two	217337	FASTK	XM_005249933	PREDICTED: Homo sapiens Fas-activated serine/threonine kinase (FASTK), transcript variant X2, mRNA	Cytoplasm	kinase	XM_005657687	PREDICTED: Sus scrofa Fas-activated serine/threonine kinase (FASTK), transcript variant X4, mRNA
two	217346		AK126761	Homo sapiens cDNA FLJ44808 fis, clone BRACE3044090			AY609694	Sus scrofa clone Clu_26105,scr,msk,p1,Contig1, mRNA sequence
two	217348		AC024218	Homo sapiens 3 BAC RP11-668N23 (Roswell Park Cancer Institute Human BAC Library) complete sequence			CU326339	Pig DNA sequence from clone CH242-262P16 on chromosome 1, complete sequence
two	217349	TPCN2	XM_006718457	PREDICTED: Homo sapiens two pore segment channel 2 (TPCN2), transcript variant X18, mRNA	Cytoplasm	ion channel	XM_005660604	PREDICTED: Sus scrofa two pore segment channel 2 (TPCN2), mRNA
two	217356	GFPT1	FM206294	Cloning vector pchilGHG1			XM_005662490	PREDICTED: Sus scrofa glutamine--fructose-6-phosphate transaminase 1 (GFPT1), transcript variant X1, mRNA
two	217374	PF4	XM_005265696	PREDICTED: Homo sapiens platelet factor 4 (PF4), transcript variant X1, mRNA	Extracellular Space	cytokine	XM_003129081	PREDICTED: Sus scrofa uncharacterized LOC100520680 (LOC100520680), mRNA
two	217382	KIRREL	NM_018240	Homo sapiens kin of IRRE like (Drosophila) (KIRREL), transcript variant 1, mRNA	Plasma Membrane	other	AB221036	Sus scrofa kirrel, cd1d genes for putative kin of IRRE-like protein, CD1D antigen, complete cds
two	217394	RALGDS	NM_001271776	Homo sapiens ral guanine nucleotide dissociation stimulator (RALGDS), transcript variant 5, mRNA	Cytoplasm	other	XM_005660542	PREDICTED: Sus scrofa ral guanine nucleotide dissociation stimulator (RALGDS), partial mRNA
two	217395	FAM92A1	XM_006716506	PREDICTED: Homo sapiens family with sequence similarity 92, member A1 (FAM92A1), transcript variant X6, mRNA	Other	other	XM_005662972	PREDICTED: Sus scrofa RNA binding motif protein 12B (RBM12B), transcript variant X2, mRNA
two	217406		AC013722	Homo sapiens BAC clone RP11-299H21 from 2, complete sequence			AK234837	Sus scrofa mRNA, clone:OVVM10021D09, expressed in ovary

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two	217432		FM206294	Cloning vector pchilGHG1			AK396400	Sus scrofa mRNA, clone: PST010022G12, expressed in prostate
two	217452	STT3B	XM_006713017	PREDICTED: Homo sapiens STT3B, subunit of the oligosaccharyltransferase complex (catalytic) (STT3B), transcript variant X1, mRNA	Cytoplasm	enzyme	XM_003132088	PREDICTED: Sus scrofa STT3B, subunit of the oligosaccharyltransferase complex (catalytic) (STT3B), mRNA
two	217454		AC243633	Homo sapiens FOSMID clone ABC12-49078400E6 from chromosome 10, complete sequence			CU915581	Pig DNA sequence from clone CH242-139K22 on chromosome X, complete sequence
two	217458	TRPM4	NG_027551	Homo sapiens transient receptor potential cation channel, subfamily M, member 4 (TRPM4), RefSeqGene on chromosome 19	Plasma Membrane	ion channel	AK238445	Sus scrofa mRNA, clone:TES010023G04, expressed in testis
two	217466		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CU468190	Pig DNA sequence from clone CH242-115L19 on chromosome X, complete sequence
two	217467	GSTM4	BC108729	Homo sapiens glutathione S-transferase mu 4, mRNA (cDNA clone MGC:131945 IMAGE:6171894), complete cds	Cytoplasm	enzyme	AK392942	Sus scrofa mRNA, clone: ITT010048E04, expressed in intestine
two	217469	ASXL2	XM_006712040	PREDICTED: Homo sapiens additional sex combs like 2 (Drosophila) (ASXL2), transcript variant X2, mRNA	Extracellular Space	other	AK397768	Sus scrofa mRNA, clone: SPL010075D08, expressed in spleen
two	217526		AL354797	Human DNA sequence from clone RP11-115J22 on chromosome 9q31,3-33,2, complete sequence			AK390754	Sus scrofa mRNA, clone: BKFL10081G04, expressed in backfat
two	217528	CCDC38	XR_429080	PREDICTED: Homo sapiens coiled-coil domain containing 38 (CCDC38), transcript variant X3, misc_RNA	Other	other	XM_005664243	PREDICTED: Sus scrofa coiled-coil domain containing 38 (CCDC38), transcript variant X9, mRNA
two	217542	BBS1	AC090260	Homo sapiens chromosome 15, clone RP11-285A1, complete sequence			XM_005660649	PREDICTED: Sus scrofa Bardet-Biedl syndrome 1 (BBS1), transcript variant X4, mRNA
two	217548	C10orf32-ASMTNR_037644		Homo sapiens C10orf32-ASMT readthrough (NMD candidate) (C10orf32-ASMT), long non-coding RNA	Other	other	AK346251	Sus scrofa mRNA, clone:LVRM10116C07, expressed in liver
two	217550	CCDC113	NM_001142302	Homo sapiens coiled-coil domain containing 113 (CCDC113), transcript variant 2, mRNA	Other	other	NM_001244688	Sus scrofa coiled-coil domain containing 113 (CCDC113), mRNA >gi 115548082 dbj AK238066.1 Sus scrofa mRNA, clone:TCH010037B07, expressed in trachea
two	217551	AURKB	XM_005256854	PREDICTED: Homo sapiens aurora kinase B (AURKB), transcript variant X3, mRNA	Nucleus	kinase	AK398886	Sus scrofa mRNA, clone: ITT010101E03, expressed in intestine

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two	217575	DESI2	XM_005273154	PREDICTED: Homo sapiens desumoylating isopeptidase 2 (DESI2), transcript variant X1, mRNA	Other	other	AK239595	Sus scrofa mRNA, clone:THY010115A01, expressed in thymus
two	217582		FM206294	Cloning vector pchilGHG1			AK399407	Sus scrofa mRNA, clone: UTR010081F07, expressed in uterus
two	217598	TRMT12	NM_017956	Homo sapiens tRNA methyltransferase 12 homolog (S, cerevisiae) (TRMT12), mRNA	Other	other	AK398861	Sus scrofa mRNA, clone: ITT010073E04, expressed in intestine
two	217603	C15orf48	NM_197955	Homo sapiens chromosome 15 open reading frame 48 (C15orf48), transcript variant 1, mRNA	Nucleus	other	XM_001925677	PREDICTED: Sus scrofa chromosome 1 open reading frame, human C15orf48 (C1H15orf48), transcript variant 1, mRNA
two	217622	CNTNAP5	AB002448	Homo sapiens mRNA, clone: 357Ex, from chromosome 5q21-q22			XM_005657515	PREDICTED: Sus scrofa contactin associated protein-like 5 (CNTNAP5), partial mRNA
two	217637	SMARCD3	BC110350	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3, mRNA (cDNA clone MGC:111010 IMAGE:5212363), complete cds	Nucleus	transcription regulator	XM_003134577	PREDICTED: Sus scrofa SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3 (SMARCD3), mRNA
two	217640	GTF2H5	NG_011758	Homo sapiens general transcription factor IIH, polypeptide 5 (GTF2H5), RefSeqGene (LRG_469) on chromosome 6	Nucleus	other	AK345520	Sus scrofa mRNA, clone:LNG010046E09, expressed in lung
two	217653	SLA	AC245518	Homo sapiens FOSMID clone ABC8-40871200L3 from chromosome unknown, complete sequence			AP009556	Sus scrofa genomic DNA, chromosome 7, BAC clone: L184I06, swine leukocyte antigen(SLA) classical class I region
two	217669	MYO7B	XM_006712539	PREDICTED: Homo sapiens myosin VIIB (MYO7B), transcript variant X1, mRNA	Other	peptidase	XM_003483646	PREDICTED: Sus scrofa myosin VIIB (MYO7B), mRNA
two	217717	MFSD5	XM_005269198	PREDICTED: Homo sapiens major facilitator superfamily domain containing 5 (MFSD5), transcript variant X2, mRNA	Other	transporter	XM_005652563	PREDICTED: Sus scrofa major facilitator superfamily domain containing 5 (MFSD5), transcript variant X2, mRNA
two	217730		AC022417	Homo sapiens chromosome 5 clone CTD-2008E3, complete sequence			FP339590	Pig DNA sequence from clone CH242-255L16 on chromosome X, complete sequence
two	217731	SLA-DQB1	AC231643	Homo sapiens BAC clone RP11-315L18 from chromosome x, complete sequence			KC511016	Sus scrofa MHC class II antigen (SLA-DQB1) mRNA, SLA-DQB1*0502 allele, complete cds
two	217764	GDA	XM_005252317	PREDICTED: Homo sapiens guanine deaminase (GDA), transcript variant X1, mRNA	Cytoplasm	enzyme	CU914592	Pig DNA sequence from clone CH242-507K9 on chromosome 2, complete sequence

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two	217766	ST7	AK297861	Homo sapiens cDNA FLJ56119 complete cds, highly similar to Mus musculus Suppression of tumorigenicity 7 (St7), mRNA	Other	other	AC153102	Sus scrofa clone RP44-33N10, complete sequence
two	217780	IFI35	XM_005257302	PREDICTED: Homo sapiens interferon-induced protein 35 (IFI35), transcript variant X1, mRNA	Nucleus	other	AK397765	Sus scrofa mRNA, clone: SPL010074F03, expressed in spleen
two	217786	KLHL28	XM_005267769	PREDICTED: Homo sapiens kelch-like family member 28 (KLHL28), transcript variant X1, mRNA	Other	other	XM_001929432	PREDICTED: Sus scrofa nascent polypeptide-associated complex subunit alpha-like (LOC100154750), transcript variant X1, mRNA
two	217789	RNF128	NG_012576	Homo sapiens ring finger protein 128, E3 ubiquitin protein ligase (RNF128), RefSeqGene on chromosome X	Cytoplasm	enzyme	XM_003135291	PREDICTED: Sus scrofa ring finger protein 128, E3 ubiquitin protein ligase (RNF128), mRNA
two	217814	MISP	BX648815	Homo sapiens mRNA; cDNA DKFZp686J17231 (from clone DKFZp686J17231)	Other	other	AK231534	Sus scrofa mRNA, clone:ITT010088B02, expressed in intestine
two	217819	SPPL3	XM_005253841	PREDICTED: Homo sapiens signal peptide peptidase like 3 (SPPL3), transcript variant X1, mRNA	Cytoplasm	peptidase	XM_001928829	PREDICTED: Sus scrofa signal peptide peptidase like 3 (SPPL3), partial mRNA
two	217830	GTF3C4	NM_012204	Homo sapiens general transcription factor IIIC, polypeptide 4, 90kDa (GTF3C4), mRNA	Nucleus	transcription regulator	XM_001929441	PREDICTED: Sus scrofa general transcription factor IIIC, polypeptide 4, 90kDa (GTF3C4), mRNA
two	217861	PRR15	BC018144	Homo sapiens proline rich 15, mRNA (cDNA clone IMAGE:3845782)	Other	other	XM_003134813	PREDICTED: Sus scrofa proline rich 15 (PRR15), mRNA
two	217867	BDH2P1	NG_005299	Homo sapiens 3-hydroxybutyrate dehydrogenase, type 2 pseudogene 1 (BDH2P1) on chromosome 6			XM_003357058	PREDICTED: Sus scrofa 3-hydroxybutyrate dehydrogenase type 2-like (LOC100522692), transcript variant 2, mRNA
two	217879	SLC35G1	AL138923	Human DNA sequence from clone RP11-397J18 on chromosome 10, complete sequence			XM_003359298	PREDICTED: Sus scrofa solute carrier family 35, member G1 (SLC35G1), transcript variant 2, mRNA
two	217899	DNASE1L1	BC001561	Homo sapiens deoxyribonuclease I-like 1, mRNA (cDNA clone MGC:5152 IMAGE:3456429), complete cds	Cytoplasm	enzyme	AK347309	Sus scrofa mRNA, clone:OVR010006G02, expressed in ovary
two	217903	C15orf38	NM_001199058	Homo sapiens C15orf38-AP3S2 readthrough (C15orf38-AP3S2), mRNA	Plasma Membrane	other	CT757460	Pig DNA sequence from clone CH242-134D13 on chromosome 7, complete sequence
two	217906	FNDC3B	AC069259	Homo sapiens 3 BAC RP11-163H6 (Roswell Park Cancer Institute Human BAC Library) complete sequence	Cytoplasm	other	AK390749	Sus scrofa mRNA, clone: BKFL10080D05, expressed in backfat
two	217913	PLEKHG6	XM_006718985	PREDICTED: Homo sapiens pleckstrin homology domain containing, family G (with RhoGef domain) member 6 (PLEKHG6), transcript variant X4, mRNA	Other	other	XM_003126549	PREDICTED: Sus scrofa pleckstrin homology domain containing, family G (with RhoGef domain) member 6 (PLEKHG6), transcript variant X1, mRNA

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two	217917	KCND1	NG_012515	Homo sapiens potassium voltage-gated channel, Shal-related subfamily, member 1 (KCND1), RefSeqGene on chromosome X	Plasma Membrane	ion channel	XM_003135480	PREDICTED: Sus scrofa B-cell receptor-associated protein 31 (BCAP31), transcript variant X1, mRNA
two	217927	CLIC5	NR_045673	Homo sapiens chloride intracellular channel 5 (CLIC5), transcript variant 5, long non-coding RNA	Cytoplasm	ion channel	CR974564	Pig DNA sequence from clone CH242-208O15 on chromosome 7, complete sequence
two	217953	TMEM176B	XM_006715933	PREDICTED: Homo sapiens transmembrane protein 176B (TMEM176B), transcript variant X2, mRNA	Other	other	XM_005657701	PREDICTED: Sus scrofa transmembrane protein 176B (TMEM176B), transcript variant X6, mRNA
two	217960	MAOB	XM_005272607	PREDICTED: Homo sapiens monoamine oxidase B (MAOB), transcript variant X2, mRNA	Cytoplasm	enzyme	FP565314	Pig DNA sequence from clone CH242-122H19 on chromosome X, complete sequence
two	217973	CD72	XM_005251632	PREDICTED: Homo sapiens CD72 molecule (CD72), transcript variant X1, mRNA	Plasma Membrane	transmembrane receptor	XM_005660185	PREDICTED: Sus scrofa CD72 molecule (CD72), transcript variant X1, mRNA
two	217982	RC3H2	AK125196	Homo sapiens cDNA FLJ43206 fis, clone FEBRA2009419	Plasma Membrane	enzyme	AY610332	Sus scrofa clone rebs05c_e19,y1,abd, mRNA sequence
two	217994		FM206294	Cloning vector pchilGHG1			FP565304	Pig DNA sequence from clone CH242-522J2 on chromosome X, complete sequence
two	218003	CPA6	NG_027682	Homo sapiens carboxypeptidase A6 (CPA6), RefSeqGene on chromosome 8			XM_001924119	PREDICTED: Sus scrofa proteasome (prosome, macropain) subunit, beta type, 8 (large multifunctional peptidase 7) (PSMB8), mRNA
two	218012	FABP2	NG_011444	Homo sapiens fatty acid binding protein 2, intestinal (FABP2), RefSeqGene on chromosome 4	Cytoplasm	transporter	L36913	Pig microsatellite DNA (CA repeat)
two	218039		FM206294	Cloning vector pchilGHG1			AK397978	Sus scrofa mRNA, clone: TCH010048G07, expressed in trachea
two	218054		FM206294	Cloning vector pchilGHG1			DQ011795	Sus scrofa isolate T18 endogenous virus Porcine endogenous retrovirus B env gene, partial sequence
two	218117	SHANK2	AP003967	Homo sapiens genomic DNA, chromosome 11 clone:RP11-183G19, complete sequence	Plasma Membrane	other	AK391557	Sus scrofa mRNA, clone: DCI010115H08, expressed in dendritic cells (immature)
two	218131		FM206294	Cloning vector pchilGHG1			XM_005653332	PREDICTED: Sus scrofa uncharacterized LOC102165012 (LOC102165012), mRNA
two	218145	IFNG	NG_015840	Homo sapiens interferon, gamma (IFNG), RefSeqGene on chromosome 12	Extracellular Space	cytokine	X53085	S.scrofa DNA for interferon-gamma
two	218154	APBA1	AL353693	Human DNA sequence from clone RP11-470P21 on chromosome 9, complete sequence	Cytoplasm	transporter	XR_303372	PREDICTED: Sus scrofa uncharacterized LOC102158923 (LOC102158923), misc_RNA

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two	218198		FM206294	Cloning vector pchilGHG1			FP091247	Pig DNA sequence from clone CH242-6J13 on chromosome X, complete sequence
two	218203	SPSB3	BC047441	Homo sapiens splA/ryanodine receptor domain and SOCS box containing 3, mRNA (cDNA clone MGC:51287 IMAGE:5303706), complete cds	Other	other	XM_003124753	PREDICTED: Sus scrofa SPRY domain-containing SOCS box protein 3-like (LOC100521366), mRNA
two	218253	MIER2	XM_006722770	PREDICTED: Homo sapiens mesoderm induction early response 1, family member 2 (MIER2), transcript variant X3, mRNA	Extracellular Space	other	XM_005661435	PREDICTED: Sus scrofa mesoderm induction early response 1, family member 2 (MIER2), mRNA
two	218255	ANKRD44	XM_005246947	PREDICTED: Homo sapiens ankyrin repeat domain 44 (ANKRD44), transcript variant X3, mRNA	Other	other	XM_005672043	PREDICTED: Sus scrofa ankyrin repeat domain 44 (ANKRD44), mRNA
two	218260	PTOV1	XM_005258999	PREDICTED: Homo sapiens prostate tumor overexpressed 1 (PTOV1), transcript variant X2, mRNA	Nucleus	other	XR_303878	PREDICTED: Sus scrofa prostate tumor overexpressed 1 (PTOV1), transcript variant X2, misc_RNA
two	218311	NAV2	NG_030347	Homo sapiens neuron navigator 2 (NAV2), RefSeqGene on chromosome 11			XM_005663710	PREDICTED: Sus scrofa guanylate binding protein 1, interferon-inducible (GBP1), transcript variant X1, mRNA
two	218347	DAPL1	AF086541	Homo sapiens full length insert cDNA clone ZE09G12	Other	other	XM_005671858	PREDICTED: Sus scrofa death associated protein-like 1 (DAPL1), transcript variant X1, mRNA
two	218370		AC215332	Homo sapiens FOSMID clone ABC13-47605700M17 from chromosome 17, complete sequence			CU928896	Pig DNA sequence from clone CH242-521B23 on chromosome 12, complete sequence
two	218390	LOC102723897	XR_426572	PREDICTED: Homo sapiens WAS protein family homolog 2-like (LOC102723897), misc_RNA	Other	other	AK236494	Sus scrofa mRNA, clone:OVRM10197G11, expressed in ovary
two	218403	OGFR	NG_033957	Homo sapiens opioid growth factor receptor (OGFR), RefSeqGene on chromosome 20			L36913	Pig microsatellite DNA (CA repeat)
two	218454	TUBG2	FM206294	Cloning vector pchilGHG1			XM_005668798	PREDICTED: Sus scrofa tubulin, gamma 2 (TUBG2), mRNA
two	218479	UBTD1	AC208951	Homo sapiens FOSMID clone ABC12-7919949M14 from chromosome 10, complete sequence			XM_005657442	PREDICTED: Sus scrofa ubiquitin domain containing 1 (UBTD1), transcript variant X4, mRNA
two	218481	CSN1S1	XM_006714091	PREDICTED: Homo sapiens casein alpha s1 (CSN1S1), transcript variant X3, mRNA	Extracellular Space	other	NM_001004029	Sus scrofa casein alpha s1 (CSN1S1), mRNA
two	218497		AP003419	Homo sapiens genomic DNA, chromosome 11 clone:CTC-1337H24, complete sequence			XM_003480662	PREDICTED: Sus scrofa transmembrane protein 134 (TMEM134), transcript variant X1, mRNA

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two	218511	SPATA13	NM_001286792	Homo sapiens spermatogenesis associated 13 (SPATA13), transcript variant 3, mRNA	Plasma Membrane	other	XM_005670527	PREDICTED: Sus scrofa unc-51 like autophagy activating kinase 1 (ULK1), transcript variant X3, mRNA
two	218532	EFHD1	NM_025202	Homo sapiens EF-hand domain family, member D1 (EFHD1), transcript variant 1, mRNA	Cytoplasm	other	XM_001925385	PREDICTED: Sus scrofa EF-hand domain family, member D1 (EFHD1), mRNA
two	218533	RINT1	AK021847	Homo sapiens cDNA FLJ11785 fis, clone HEMBA1006035	Nucleus	other	XM_003130254	PREDICTED: Sus scrofa RAD50 interactor 1 (RINT1), mRNA
two	218557	NLRC5	AK074133	Homo sapiens mRNA for FLJ00206 protein	Cytoplasm	transcription regulator	NM_001278781	Sus scrofa NLR family, CARD domain containing 5 (NLRC5), mRNA >gi 459442412 gb KC514136.1 Sus scrofa NLRC5 (NLRC5) mRNA, complete cds
two	218576	DCAF15	AC020916	Homo sapiens chromosome 19 clone CTD-3252C9, complete sequence			XM_005661241	PREDICTED: Sus scrofa DDB1 and CUL4 associated factor 15 (DCAF15), transcript variant X3, mRNA
two	218581	HN1L	AJ328781	Homo sapiens genomic sequence surrounding NotI site, clone NR1-MH21R			XM_005655134	PREDICTED: Sus scrofa hematological and neurological expressed 1-like (HN1L), transcript variant X1, mRNA
two	218606	NFATC4	NM_001198966	Homo sapiens nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 4 (NFATC4), transcript variant 4, mRNA	Nucleus	transcription regulator	XM_001927354	PREDICTED: Sus scrofa nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 4 (NFATC4), transcript variant 1, mRNA
two	218639	OBSL1	NG_016977	Homo sapiens obscurin-like 1 (OBSL1), RefSeqGene on chromosome 2			XM_005668518	PREDICTED: Sus scrofa gamma-glutamylamine cyclotransferase (GGACT), transcript variant X8, mRNA
two	218646	RBM28	XM_006716042	PREDICTED: Homo sapiens RNA binding motif protein 28 (RBM28), transcript variant X1, mRNA	Nucleus	other	AK344389	Sus scrofa mRNA, clone:DCI010032B08, expressed in dendritic cells (immature)
two	218665	ZWINT	XM_005269463	PREDICTED: Homo sapiens ZW10 interacting kinetochore protein (ZWINT), transcript variant X1, mRNA	Nucleus	other	XM_003359284	PREDICTED: Sus scrofa ZW10 interacting kinetochore protein (ZWINT), mRNA
two	218679	FOXA1	NG_033028	Homo sapiens forkhead box A1 (FOXA1), RefSeqGene on chromosome 14	Nucleus	transcription regulator	CT737389	Pig DNA sequence from clone CH242-40A13 on chromosome 7, complete sequence
two	218686	NUP43	XM_005266960	PREDICTED: Homo sapiens nucleoporin 43kDa (NUP43), transcript variant X1, mRNA	Nucleus	transporter	AK398233	Sus scrofa mRNA, clone: TES010058C11, expressed in testis
two	218690	ENTPD1	NM_001776	Homo sapiens ectonucleoside triphosphate diphosphohydrolase 1 (ENTPD1), transcript variant 1, mRNA	Plasma Membrane	enzyme	XM_005671307	PREDICTED: Sus scrofa ectonucleoside triphosphate diphosphohydrolase 1 (ENTPD1), transcript variant X8, mRNA
two	218695	CCDC90B	CU676717	Synthetic construct Homo sapiens gateway clone IMAGE:100022138 3 read CCDC90B mRNA			NM_001243345	Sus scrofa ribosomal protein L13 (RPL13), mRNA

cluster	array id	gene symbols	HSA accession	HSA description	location	property	SSC accession	SSC description
two	218708	GGT5	AK297869	Homo sapiens cDNA FLJ50588 complete cds, highly similar to Gamma-glutamyltransferase 5 precursor (EC 2,3,2,2)	Plasma Membrane	enzyme	AK237565	Sus scrofa mRNA, clone:SPL010062B10, expressed in spleen
two	218723	NBR1	XM_006721903	PREDICTED: Homo sapiens neighbor of BRCA1 gene 1 (NBR1), transcript variant X1, mRNA	Cytoplasm	other	XM_005656955	PREDICTED: Sus scrofa neighbor of BRCA1 gene 1 (NBR1), transcript variant X7, mRNA
two	218726	VAMP2	XM_005256775	PREDICTED: Homo sapiens vesicle-associated membrane protein 2 (synaptobrevin 2) (VAMP2), transcript variant X1, mRNA	Plasma Membrane	other	XM_005656495	PREDICTED: Sus scrofa TBC1 domain family, member 14 (TBC1D14), transcript variant X6, mRNA
two	218729	PRLR	XM_006714484	PREDICTED: Homo sapiens prolactin receptor (PRLR), transcript variant X1, mRNA	Plasma Membrane	transmembrane receptor	CU639462	Pig DNA sequence from clone CH242-164F18 on chromosome X, complete sequence
two	218743	KDM6A	XM_005272661	PREDICTED: Homo sapiens lysine (K)-specific demethylase 6A (KDM6A), transcript variant X7, mRNA	Nucleus	other	XM_003360276	PREDICTED: Sus scrofa lysine (K)-specific demethylase 6A (KDM6A), transcript variant 4, mRNA
two	218750	PLIN1	XM_005254934	PREDICTED: Homo sapiens perilipin 1 (PLIN1), transcript variant X1, mRNA	Cytoplasm	other	XM_005653525	PREDICTED: Sus scrofa perilipin 1 (PLIN1), transcript variant X1, mRNA
two	218767	NCAPG2	NM_001281933	Homo sapiens non-SMC condensin II complex, subunit G2 (NCAPG2), transcript variant 3, mRNA	Nucleus	other	XM_005658403	PREDICTED: Sus scrofa non-SMC condensin II complex, subunit G2 (NCAPG2), mRNA
two	218772	RAMP1	DQ891905	Synthetic construct clone IMAGE:100004535; FLH181288,01X; RZPDo839B10136D receptor (calcitonin) activity modifying protein 1 (RAMP1) gene, encodes complete protein	Plasma Membrane	transporter	AK238056	Sus scrofa mRNA, clone:TCH010035F08, expressed in trachea
two	218798	UBXN2A	AC066692	Homo sapiens BAC clone RP11-424C23 from 2, complete sequence			XM_003125368	PREDICTED: Sus scrofa UBX domain protein 2A (UBXN2A), mRNA
two	218821	TMX2	AY358501	Homo sapiens clone DNA39510 AVLA237 (UNQ237) mRNA, complete cds	Nucleus	enzyme	AY609872	Sus scrofa clone Clu_3705,scr,msk,p1,Contig2, mRNA sequence
two	218822	NFKB2	NM_002502	Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100) (NFKB2), transcript variant 2, mRNA	Nucleus	transcription regulator	AK351644	Sus scrofa mRNA, clone:THY010053G02, expressed in thymus
two	218834	NEDD4L	AF385931	Homo sapiens ubiquitin ligase NEDD4Lb (NEDD4L) mRNA, complete cds; alternatively spliced	Cytoplasm	enzyme	XM_001926056	PREDICTED: Sus scrofa E3 ubiquitin-protein ligase NEDD4-like (LOC100154192), mRNA
two	218844	HIPK1	NM_152696	Homo sapiens homeodomain interacting protein kinase 1 (HIPK1), transcript variant 2, mRNA	Nucleus	kinase	XM_005655420	PREDICTED: Sus scrofa homeodomain interacting protein kinase 1 (HIPK1), transcript variant X3, mRNA

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two	218866	GPIHBP1	NM_178172	Homo sapiens glycosylphosphatidylinositol anchored high density lipoprotein binding protein 1 (GPIHBP1), mRNA	Plasma Membrane	transporter	XM_003125941	PREDICTED: Sus scrofa glycosylphosphatidylinositol anchored high density lipoprotein binding protein 1 (GPIHBP1), mRNA
two	218885	OPA3	NG_013332	Homo sapiens optic atrophy 3 (autosomal recessive, with chorea and spastic paraplegia) (OPA3), RefSeqGene on chromosome 19	Cytoplasm	other	XM_003127238	PREDICTED: Sus scrofa solute carrier family 1 (neutral amino acid transporter), member 5 (SLC1A5), transcript variant 2, mRNA
two	218886	SF3B4P1	NG_002536	Homo sapiens splicing factor 3b, subunit 4 pseudogene 1 (SF3B4P1) on chromosome 14			XM_001926489	PREDICTED: Sus scrofa splicing factor 3b, subunit 4, 49kDa (SF3B4), mRNA
two	218976		FM206294	Cloning vector pchilGHG1			AK391295	Sus scrofa mRNA, clone: DCI010031E12, expressed in dendritic cells (immature)
two	218993	ATPIF1	AF114836	Homo sapiens ATP synthase inhibitor protein mRNA, complete cds	Cytoplasm	other	XM_003480700	PREDICTED: Sus scrofa proteoglycan 3 (PRG3), mRNA
two	218995	POMT2	NG_008897	Homo sapiens protein-O-mannosyltransferase 2 (POMT2), RefSeqGene on chromosome 14	Cytoplasm	enzyme	XM_005656436	PREDICTED: Sus scrofa protein-O-mannosyltransferase 2 (POMT2), transcript variant X3, mRNA
two	218996	CBX3	FM206294	Cloning vector pchilGHG1			XM_005673314	PREDICTED: Sus scrofa chromobox homolog 3 (CBX3), transcript variant X6, mRNA
two	219006	TJP3	AK091118	Homo sapiens cDNA FLJ33799 fis, clone CTONG2000201, highly similar to Tight junction protein ZO-3	Cytoplasm	other	XM_005661351	PREDICTED: Sus scrofa tight junction protein 3 (TJP3), transcript variant X3, mRNA
two	219014	FANCA	NM_000135	Homo sapiens Fanconi anemia, complementation group A (FANCA), transcript variant 1, mRNA	Nucleus	other	XM_005653229	PREDICTED: Sus scrofa Fanconi anemia, complementation group A (FANCA), mRNA
two	219029	PAF1	BC013402	Homo sapiens Paf1, RNA polymerase II associated factor, homolog (S, cerevisiae), mRNA (cDNA clone MGC:4224 IMAGE:2960015), complete cds	Nucleus	other	XM_005657495	PREDICTED: Sus scrofa RNA polymerase II-associated factor 1 homolog-like (LOC100514194), transcript variant X2, mRNA
two	219039	DAPK3	FM206294	Cloning vector pchilGHG1			XM_005661344	PREDICTED: Sus scrofa death-associated protein kinase 3 (DAPK3), mRNA
two	219042	PARP16	XM_006720592	PREDICTED: Homo sapiens poly (ADP-ribose) polymerase family, member 16 (PARP16), transcript variant X7, mRNA	Cytoplasm	enzyme	XM_005654484	PREDICTED: Sus scrofa poly (ADP-ribose) polymerase family, member 16 (PARP16), partial mRNA
two	219046		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			FP017298	Pig DNA sequence from clone CH242-217M1 on chromosome X, complete sequence
two	219066	ADD2	NG_029481	Homo sapiens adducin 2 (beta) (ADD2), RefSeqGene on chromosome 2	Cytoplasm	other	XM_003354777	PREDICTED: Sus scrofa adducin 2 (beta) (ADD2), transcript variant 1, mRNA

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two	219069		LOC101929031 XR_243387	PREDICTED: Homo sapiens uncharacterized LOC101929031 (LOC101929031), transcript variant X1, ncRNA >gi 578839154 ref XR_430589.1 PREDICTED: Homo sapiens uncharacterized LOC102723890 (LOC102723890), transcript variant X1, ncRNA >gi 578846025 ref XR_433248.1 PREDICTED: Homo sapiens uncharacterized LOC101929031 (LOC101929031), transcript variant X1, ncRNA	Other	other	AK343982	Sus scrofa mRNA, clone:AMP010097F06, expressed in alveolar macrophages
two	219075	STS	XM_006724488	PREDICTED: Homo sapiens steroid sulfatase (microsomal), isozyme S (STS), transcript variant X2, mRNA	Cytoplasm	enzyme	XM_003360223	PREDICTED: Sus scrofa steroid sulfatase (microsomal), isozyme S (STS), transcript variant X1, mRNA
two	219090	MRPL48	XM_005274050	PREDICTED: Homo sapiens mitochondrial ribosomal protein L48 (MRPL48), transcript variant X1, mRNA	Cytoplasm	other	XM_005667102	PREDICTED: Sus scrofa mitochondrial ribosomal protein L48 (MRPL48), transcript variant X3, mRNA
two	219100	MGLL	AC117480	Homo sapiens 3 BAC RP11-491D10 (Roswell Park Cancer Institute Human BAC Library) complete sequence	Plasma Membrane	enzyme	CU207321	Pig DNA sequence from clone CH242-186C11 on chromosome X, complete sequence
two	219114		AL592314	Human DNA sequence from clone RP11-192B7 on chromosome 1, complete sequence			CU469085	Pig DNA sequence from clone CH242-4214 on chromosome 4, complete sequence
two	219138	PYCR2	NM_001271681	Homo sapiens pyrroline-5-carboxylate reductase family, member 2 (PYCR2), transcript variant 2, mRNA	Cytoplasm	enzyme	XM_005653787	PREDICTED: Sus scrofa pyrroline-5-carboxylate reductase family, member 2 (PYCR2), transcript variant X5, mRNA
two	219209	AP2S1	XM_006723004	PREDICTED: Homo sapiens adaptor-related protein complex 2, sigma 1 subunit (AP2S1), transcript variant X3, mRNA	Cytoplasm	transporter	AK392084	Sus scrofa mRNA, clone: HTMT10048H03, expressed in hypothalamus
two	219210	GPSM2	XM_006710589	PREDICTED: Homo sapiens G-protein signaling modulator 2 (GPSM2), transcript variant X4, mRNA	Nucleus	other	XM_003481495	PREDICTED: Sus scrofa G-protein signaling modulator 2 (GPSM2), mRNA
two	219218	MAN1A2	AK098129	Homo sapiens cDNA FLJ40810 fis, clone TRACH2009743	Cytoplasm	enzyme	CU468990	Pig DNA sequence from clone CH242-233E2 on chromosome X, complete sequence
two	219228	ZNF865	NM_001195605	Homo sapiens zinc finger protein 865 (ZNF865), mRNA	Other	other	XM_005674490	PREDICTED: Sus scrofa zinc finger protein 865 (ZNF865), partial mRNA

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two	219233	PTPLA	EF445016	Homo sapiens protein tyrosine phosphatase-like, member A (PTPLA) gene, complete cds, alternatively spliced	Other	phosphatase	XM_005668108	PREDICTED: Sus scrofa protein tyrosine phosphatase-like (proline instead of catalytic arginine), member A (PTPLA), mRNA
two	219258	IFNAR2	FM206294	Cloning vector pchIHGH1			NM_001204775	Sus scrofa interferon (alpha, beta and omega) receptor 2 (IFNAR2), mRNA >gi 333069451 gb HQ603084.1 Sus scrofa interferon receptor 2 (IFNAR2) mRNA, complete cds
two	219270	LOX	NG_008722	Homo sapiens lysyl oxidase (LOX), RefSeqGene on chromosome 5	Extracellular Space	enzyme	FP101991	Pig DNA sequence from clone CH242-127F22 on chromosome X, complete sequence
two	219299	UBE2M	BC058924	Homo sapiens ubiquitin-conjugating enzyme E2M (UBC12 homolog, yeast), mRNA (cDNA clone MGC:65116 IMAGE:6162220), complete cds	Cytoplasm	enzyme	AK346893	Sus scrofa mRNA, clone:MLN010071A09, expressed in mesenteric lymph nodes
two	219303	SLC16A5	XM_005257791	PREDICTED: Homo sapiens solute carrier family 16 (monocarboxylate transporter), member 5 (SLC16A5), transcript variant X2, mRNA	Plasma Membrane	transporter	XM_005668614	PREDICTED: Sus scrofa solute carrier family 16 (monocarboxylate transporter), member 5 (SLC16A5), transcript variant X4, mRNA
two	219318	RRP1B	NM_015056	Homo sapiens ribosomal RNA processing 1B (RRP1B), mRNA	Nucleus	other	XM_003358984	PREDICTED: Sus scrofa ribosomal RNA processing 1B (RRP1B), mRNA
two	219326	CLDN3	NG_012023	Homo sapiens claudin 3 (CLDN3), RefSeqGene on chromosome 7	Plasma Membrane	transmembrane receptor	FJ887980	Sus scrofa claudin 3 variant 1 (CLDN3) mRNA, complete cds
two	219333		AL513320	Human DNA sequence from clone RP11-46F15 on chromosome 1, complete sequence			XR_309144	PREDICTED: Sus scrofa uncharacterized LOC100621301 (LOC100621301), transcript variant X3, misc_RNA
two	219339	HDLBP	BC001179	Homo sapiens high density lipoprotein binding protein, mRNA (cDNA clone MGC:2301 IMAGE:3528704), complete cds	Nucleus	transporter	AK351020	Sus scrofa mRNA, clone:TCH010077D08, expressed in trachea
two	219349	WDR55	BC068485	Homo sapiens WD repeat domain 55, mRNA (cDNA clone MGC:87143 IMAGE:30334628), complete cds	Nucleus	other	XM_003480931	PREDICTED: Sus scrofa WD repeat domain 55 (WDR55), mRNA
two	219350	MUC5AC	FO680660	Human DNA sequence from clone WI2-2955H9 on chromosome 11, complete sequence	Cytoplasm	peptidase	XM_003354188	PREDICTED: Sus scrofa ADP-ribosylation factor-like 10 (ARL10), mRNA
two	219355	TIFA	AK292900	Homo sapiens cDNA FLJ75832 complete cds, highly similar to Homo sapiens TRAF-interacting protein with a forkhead-associated domain (TIFA), mRNA	Other	other	XM_005666930	PREDICTED: Sus scrofa TRAF-interacting protein with forkhead-associated domain (TIFA), transcript variant X7, mRNA

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two	219357	SLC38A6	XM_006720050	PREDICTED: Homo sapiens solute carrier family 38, member 6 (SLC38A6), transcript variant X5, mRNA	Other	transporter	NM_001267849	Sus scrofa solute carrier family 38, member 6 (SLC38A6), mRNA
two	219406	LINC00674	NR_027418	Homo sapiens long intergenic non-protein coding RNA 674 (LINC00674), long non-coding RNA	Other	other	XM_005668882	PREDICTED: Sus scrofa leucine-rich repeat-containing protein 37A2-like (LOC100514982), mRNA
two	219410	MMP11	NG_029443	Homo sapiens matrix metalloproteinase 11 (stromelysin 3) (MMP11), RefSeqGene on chromosome 22	Extracellular Space	peptidase	XM_005670909	PREDICTED: Sus scrofa matrix metalloproteinase 11 (stromelysin 3) (MMP11), transcript variant X2, mRNA
two	219423	TUSC3	NG_012141	Homo sapiens tumor suppressor candidate 3 (TUSC3), RefSeqGene on chromosome 8			FP089551	Pig DNA sequence from clone CH242-338K18 on chromosome 2, complete sequence
two	219437	PLEKHG5	NM_001265593	Homo sapiens pleckstrin homology domain containing, family G (with RhoGef domain) member 5 (PLEKHG5), transcript variant 7, mRNA	Cytoplasm	other	XM_005656003	PREDICTED: Sus scrofa pleckstrin homology domain containing, family G (with RhoGef domain) member 5 (PLEKHG5), transcript variant X5, mRNA
two	219516	HO2	AC007606	Homo sapiens chromosome 16 clone RP11-35P16, complete sequence			XM_005662158	PREDICTED: Sus scrofa heme oxygenase 2 (HO2), transcript variant X2, mRNA
two	219521	MAFK	XM_006715773	PREDICTED: Homo sapiens v-maf avian musculoaponeurotic fibrosarcoma oncogene homolog K (MAFK), transcript variant X2, mRNA	Nucleus	transcription regulator	XM_003124249	PREDICTED: Sus scrofa v-maf avian musculoaponeurotic fibrosarcoma oncogene homolog K (MAFK), transcript variant 1, mRNA
two	219535	CPSF7	XM_005274303	PREDICTED: Homo sapiens cleavage and polyadenylation specific factor 7, 59kDa (CPSF7), transcript variant X6, mRNA	Nucleus	other	AK393559	Sus scrofa mRNA, clone: KDN010072F01, expressed in kidney
two	219539	PSMD5-AS1	HG502389	TPA: Homo sapiens RP11-2711,2 gene for long non-coding RNA OTTHUMT00000053820,1, antisense	Other	other	XM_005660390	PREDICTED: Sus scrofa protein CutA homolog (LOC102164650), mRNA
two	219545	COL11A2	NG_011589	Homo sapiens collagen, type XI, alpha 2 (COL11A2), RefSeqGene on chromosome 6	Extracellular Space	other	BX324144	Pig DNA sequence from clone PigI-1044B7, complete sequence
two	219560	EIF2S2	NM_003908	Homo sapiens eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa (EIF2S2), mRNA	Cytoplasm	translation regulator	AK350795	Sus scrofa mRNA, clone:TCH010030H10, expressed in trachea
two	219579		AL445195	Human DNA sequence from clone RP11-427O13 on chromosome 13, complete sequence			NM_001190239	Sus scrofa actin related protein 2/3 complex, subunit 2, 34kDa (ARPC2), mRNA >gi 52350745 gb AY609460.1 Sus scrofa clone Clu_1225,scr,msk,p1,Contig4, mRNA sequence

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two	219580	ULK3	XR_429447	PREDICTED: Homo sapiens unc-51 like kinase 3 (ULK3), transcript variant X3, misc_RNA	Cytoplasm	kinase	XM_005666149	PREDICTED: Sus scrofa unc-51 like kinase 3 (ULK3), transcript variant X3, mRNA
two	219589	DGAT1	NM_012079	Homo sapiens diacylglycerol O-acyltransferase 1 (DGAT1), mRNA	Cytoplasm	enzyme	XM_005655311	PREDICTED: Sus scrofa diacylglycerol acyltransferase (DGAT), transcript variant X1, mRNA
two	219593		AL049767	Human DNA sequence from clone RP1-172H20 on chromosome 20q12-13,12, complete sequence			XM_005672965	PREDICTED: Sus scrofa trappin 8 (LOC396757), transcript variant X1, mRNA
two	219612	DPYSL5	NM_001253724	Homo sapiens dihydropyrimidinase-like 5 (DPYSL5), transcript variant 3, mRNA	Cytoplasm	enzyme	XM_003125320	PREDICTED: Sus scrofa dihydropyrimidinase-like 5 (DPYSL5), mRNA
two	219613	NOP10	NG_029150	Homo sapiens NOP10 ribonucleoprotein homolog (yeast) pseudogene (LOC100289143) on chromosome 12			XM_001925450	PREDICTED: Sus scrofa NOP10 ribonucleoprotein (NOP10), mRNA
two	219713	DMKN	NM_001190347	Homo sapiens dermokine (DMKN), transcript variant 8, mRNA	Extracellular Space	other	AK397206	Sus scrofa mRNA, clone: SKNB10020H01, expressed in skin
two	219738	RANGAP1	AK303524	Homo sapiens cDNA FLJ61018 complete cds, highly similar to Ran GTPase-activating protein 1	Nucleus	other	XM_005653112	PREDICTED: Sus scrofa Ran GTPase activating protein 1 (RANGAP1), transcript variant X2, mRNA
two	219758	SSR2	AK300678	Homo sapiens cDNA FLJ56303 complete cds, highly similar to Translocon-associated protein subunit beta precursor	Cytoplasm	other	XM_005663298	PREDICTED: Sus scrofa signal sequence receptor, beta (translocon-associated protein beta) (SSR2), transcript variant X3, mRNA
two	219778	EFNB1	NG_008887	Homo sapiens ephrin-B1 (EFNB1), RefSeqGene on chromosome X	Plasma Membrane	other	CU469158	Pig DNA sequence from clone CH242-3P11 on chromosome X, complete sequence
two	219784	UCP3	NG_011515	Homo sapiens uncoupling protein 3 (mitochondrial, proton carrier) (UCP3), RefSeqGene on chromosome 11	Cytoplasm	transporter	NM_214049	Sus scrofa uncoupling protein 3 (mitochondrial, proton carrier) (UCP3), mRNA >gi 4165891 gb AF095744.1 AF095744 Sus scrofa uncoupling protein 3 (UCP3) mRNA, complete cds
two	219790	PAQR8	NM_133367	Homo sapiens progesterin and adiponectin receptor family member VIII (PAQR8), mRNA	Plasma Membrane	other	XM_005666468	PREDICTED: Sus scrofa membrane progesterin receptor beta-like (LOC100153743), mRNA
two	219835	SOWAHB	BC137255	Homo sapiens ankyrin repeat domain 56, mRNA (cDNA clone MGC:168875 IMAGE:9021252), complete cds	Nucleus	transcription regulator	XM_005666780	PREDICTED: Sus scrofa sosondowah ankyrin repeat domain family member B (SOWAHB), mRNA
two	219857	SESN2	NM_031459	Homo sapiens sestrin 2 (SESN2), mRNA	Cytoplasm	other	XM_003356238	PREDICTED: Sus scrofa sestrin 2 (SESN2), transcript variant X1, mRNA
two	219924	TNIP1	D30755	Homo sapiens KIAA0113 mRNA, partial cds	Nucleus	other	AK350243	Sus scrofa mRNA, clone:SPL010019G01, expressed in spleen

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two	219977	ACTG1	XM_006722048	PREDICTED: Homo sapiens actin, gamma 1 (ACTG1), transcript variant X1, mRNA	Cytoplasm	other	AK240355	Sus scrofa mRNA, clone:UTR010058D07, expressed in uterus
two	219998	RSBN1L	NM_198467	Homo sapiens round spermatid basic protein 1-like (RSBN1L), mRNA	Other	other	CU856555	Pig DNA sequence from clone CH242-143G17 on chromosome X, complete sequence
two	220071	FCN2	XM_006717015	PREDICTED: Homo sapiens ficolin (collagen/fibrinogen domain containing lectin) 2 (FCN2), transcript variant X1, mRNA	Extracellular Space	other	AK232513	Sus scrofa mRNA, clone:LVR010059H08, expressed in liver
two	220073	CCDC183	BC137317	Homo sapiens KIAA1984, mRNA (cDNA clone MGC:168937 IMAGE:9021314), complete cds	Other	other	XM_003122334	PREDICTED: Sus scrofa KIAA1984 ortholog (KIAA1984), mRNA
two	220090	AFTPH	XM_005264380	PREDICTED: Homo sapiens aftiphilin (AFTPH), transcript variant X1, mRNA	Cytoplasm	other	XR_302431	PREDICTED: Sus scrofa aftiphilin (AFTPH), transcript variant X4, misc_RNA
two	220195	PDCD6	AF035606	Homo sapiens calcium binding protein (ALG-2) mRNA, complete cds	Cytoplasm	other	AY610332	Sus scrofa clone rebs05c_e19,y1,abd, mRNA sequence
two	220207	SFTPC	XM_006716380	PREDICTED: Homo sapiens surfactant protein C (SFTPC), transcript variant X3, mRNA	Extracellular Space	other	NM_001044533	Sus scrofa surfactant protein C (SFTPC), mRNA >gi 76150417 emb AJ891123,1 Sus scrofa mRNA for surfactant protein C (SP-C gene), long variant
two	220263	DCAF7	FM206294	Cloning vector pchiIGHG1			XM_003131294	PREDICTED: Sus scrofa DDB1 and CUL4 associated factor 7 (DCAF7), transcript variant X1, mRNA
two	220272		AC091633	Homo sapiens 3 BAC RP11-506F8 (Roswell Park Cancer Institute Human BAC Library) complete sequence			CU928334	Pig DNA sequence from clone CH242-162E4 on chromosome X, complete sequence
two	220301	TMEM112B	AB587524	Synthetic construct DNA, clone: pF1KE0344, Homo sapiens TMEM112B gene for lipase maturation factor 2, without stop codon, in Flexi system			JN797613	Sus scrofa lipase maturation factor 2 (Imf2) mRNA, complete cds
two	220357	TMEM184C	NM_018241	Homo sapiens transmembrane protein 184C (TMEM184C), mRNA	Other	other	AK391729	Sus scrofa mRNA, clone: HTMT10018H09, expressed in hypothalamus
two	220409	COL26A1	BC110393	Homo sapiens EMI domain containing 2, mRNA (cDNA clone MGC:117329 IMAGE:5195867), complete cds	Extracellular Space	other	XM_005661934	PREDICTED: Sus scrofa collagen alpha-1(XXVI) chain-like (LOC100519542), mRNA
two	220420	SHISA2	NG_016287	Homo sapiens ADAM metallopeptidase with thrombospondin type 1 motif, 17 (ADAMTS17), RefSeqGene on chromosome 15	Extracellular Space	other	XM_003482858	PREDICTED: Sus scrofa shisa family member 2 (SHISA2), mRNA

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two	220422		AL731566	Human DNA sequence from clone RP11-500G22 on chromosome 10, complete sequence			FN677242	Sus scrofa BAC clone CHORI242_375P3_Contig112
two	220474		HG507808	TPA: Homo sapiens RP11-626G11,3 gene for long non-coding RNA OTTHUMT00000435828,1, antisense			FQ790384	Pig DNA sequence from clone CH242-134116 on chromosome X, complete sequence
two	220479	FAM86C1	AK130709	Homo sapiens cDNA FLJ27199 fis, clone SYN03042	Other	other	XM_003481054	PREDICTED: Sus scrofa family with sequence similarity 86, member A (FAM86A), transcript variant X2, mRNA
two	220519	HS6ST1	NG_032966	Homo sapiens heparan sulfate 6-O-sulfotransferase 1 (HS6ST1), RefSeqGene on chromosome 2	Plasma Membrane	enzyme	XM_003133399	PREDICTED: Sus scrofa heparan sulfate 6-O-sulfotransferase 1 (HS6ST1), mRNA
two	220625	MYOM2	XM_006716237	PREDICTED: Homo sapiens myomesin 2 (MYOM2), transcript variant X1, mRNA	Cytoplasm	other	XM_005657526	PREDICTED: Sus scrofa myomesin 2 (MYOM2), mRNA
two	220657	GNG8	BC095514	Homo sapiens guanine nucleotide binding protein (G protein), gamma 8, mRNA (cDNA clone MGC:111728 IMAGE:6519176), complete cds	Plasma Membrane	enzyme	XM_003355954	PREDICTED: Sus scrofa guanine nucleotide binding protein (G protein), gamma 8 (GNG8), transcript variant X1, mRNA
two	220658		FM206294	Cloning vector pchilGHG1			AK391761	Sus scrofa mRNA, clone: HTMT10020G12, expressed in hypothalamus
two	220670	USP2	XM_005271721	PREDICTED: Homo sapiens ubiquitin specific peptidase 2 (USP2), transcript variant X1, mRNA	Cytoplasm	peptidase	XM_003357325	PREDICTED: Sus scrofa ubiquitin specific peptidase 2 (USP2), transcript variant X2, mRNA
two	220719	TUBA4A	NG_029913	Homo sapiens tubulin, alpha 4a (TUBA4A), RefSeqGene on chromosome 2	Cytoplasm	other	CU928986	Pig DNA sequence from clone CH242-250G21 on chromosome 2, complete sequence
two	220721		AC010130	Homo sapiens BAC clone RP11-95O9 from 2, complete sequence			CU928922	Pig DNA sequence from clone CH242-65D18 on chromosome X, complete sequence
two	220733	SRL	NM_001098814	Homo sapiens sarcalumenin (SRL), mRNA	Cytoplasm	other	XM_005653036	PREDICTED: Sus scrofa sarcalumenin-like (LOC100514098), mRNA
two	220740	CYB561D2	NM_001291284	Homo sapiens cytochrome b561 family, member D2 (CYB561D2), transcript variant 2, mRNA	Other	enzyme	XM_005669599	PREDICTED: Sus scrofa cytochrome b561 domain-containing protein 2-like (LOC100517372), transcript variant X3, mRNA
two	220741	ACTN2	NM_001278344	Homo sapiens actinin, alpha 2 (ACTN2), transcript variant 3, mRNA	Nucleus	transcription regulator	XM_005654125	PREDICTED: Sus scrofa actinin, alpha 2 (ACTN2), transcript variant X2, mRNA
two	220756	CPSF3L	XM_005244763	PREDICTED: Homo sapiens cleavage and polyadenylation specific factor 3-like (CPSF3L), transcript variant X3, mRNA	Nucleus	other	XM_005653338	PREDICTED: Sus scrofa cleavage and polyadenylation specific factor 3-like (CPSF3L), transcript variant X3, mRNA
two	220793	CAV3	FM206294	Cloning vector pchilGHG1			AY731093	Sus scrofa CAV3 (CAV3) mRNA, complete cds

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two	220812	KLK1	AK293363	Homo sapiens cDNA FLJ53859 complete cds, highly similar to Kallikrein-1 precursor (EC 3,4,21,35)	Other	peptidase	AK349951	Sus scrofa mRNA, clone:SMG010001C07, expressed in submaxillary gland
two	220829		FM206294	Cloning vector pchilGHG1			XM_003483046	PREDICTED: Sus scrofa mediator of RNA polymerase II transcription subunit 13-like (LOC100739605), mRNA
two	220841	SAL1	AL139041	Human DNA sequence from clone RP11-408O19 on chromosome 9p11,2-21, complete sequence			XM_005660327	PREDICTED: Sus scrofa salivary lipocalin (SAL1), transcript variant X1, mRNA
two	220846	FXYD2	NM_021603	Homo sapiens FXYD domain containing ion transport regulator 2 (FXYD2), transcript variant b, mRNA	Plasma Membrane	ion channel	XM_005656629	PREDICTED: Sus scrofa FXYD domain containing ion transport regulator 2 (FXYD2), transcript variant X2, mRNA
two	220852	DUSP15	NM_001012644	Homo sapiens dual specificity phosphatase 15 (DUSP15), transcript variant 3, mRNA	Cytoplasm	phosphatase	XM_003359940	PREDICTED: Sus scrofa dual specificity protein phosphatase 15-like (LOC100525721), mRNA
two	220889	PNKP	NM_007254	Homo sapiens polynucleotide kinase 3-phosphatase (PNKP), mRNA	Nucleus	kinase	XM_005664749	PREDICTED: Sus scrofa polynucleotide kinase 3-phosphatase (PNKP), transcript variant X4, mRNA
two	220932		AC009542	Homo sapiens clone RP11-260N14 from 7q31, complete sequence			XM_003134657	PREDICTED: Sus scrofa solute carrier family 23 member 2-like (LOC100525318), mRNA
two	220933		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CU929828	Pig DNA sequence from clone CH242-51F15 on chromosome X, complete sequence
two	220942	MUC7	NG_012348	Homo sapiens mucin 7, secreted (MUC7), RefSeqGene on chromosome 4	Cytoplasm	other	AK397621	Sus scrofa mRNA, clone: SMG010101A11, expressed in submaxillary gland
two	220943	MEA1	XM_005249122	PREDICTED: Homo sapiens male-enhanced antigen 1 (MEA1), transcript variant X2, mRNA	Cytoplasm	other	XM_005665985	PREDICTED: Sus scrofa male-enhanced antigen 1 (MEA1), transcript variant X2, mRNA
two	220959	FAM184B	CR936688	Homo sapiens mRNA; cDNA DKFZp686F09227 (from clone DKFZp686F09227)			XM_005674541	PREDICTED: Sus scrofa family with sequence similarity 184, member B (FAM184B), mRNA
two	220960	LOC101927988	XR_250878	PREDICTED: Homo sapiens uncharacterized LOC101927988 (LOC101927988), ncRNA	Other	other	XM_003358188	PREDICTED: Sus scrofa active breakpoint cluster region-related protein-like (LOC100621549), mRNA
two	220966	PER3	XM_005263528	PREDICTED: Homo sapiens period circadian clock 3 (PER3), transcript variant X9, mRNA	Nucleus	other	XM_005658375	PREDICTED: Sus scrofa period circadian clock 3 (PER3), mRNA
two	220971	KRT8P5	NG_007003	Homo sapiens keratin 8 pseudogene 5 (KRT8P5) on chromosome 18			XM_005652515	PREDICTED: Sus scrofa keratin 8 (KRT8), transcript variant X2, mRNA
two	220992	CHID1	XM_005253073	PREDICTED: Homo sapiens chitinase domain containing 1 (CHID1), transcript variant X3, mRNA	Extracellular Space	other	NM_001243810	Sus scrofa chitinase domain containing 1 (CHID1), mRNA

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two	221000	NUSAP1	XM_006720560	PREDICTED: Homo sapiens nucleolar and spindle associated protein 1 (NUSAP1), transcript variant X6, mRNA	Nucleus	other	XM_005659722	PREDICTED: Sus scrofa nucleolar and spindle associated protein 1 (NUSAP1), transcript variant X1, mRNA
two	221022		AL513550	Human DNA sequence from clone RP11-9819 on chromosome 6, complete sequence			FP245395	Pig DNA sequence from clone CH242-121G9 on chromosome X, complete sequence
two	221028	GNA11	NG_033852	Homo sapiens guanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11), RefSeqGene on chromosome 19	Plasma Membrane	enzyme	AK392340	Sus scrofa mRNA, clone: HTMT10067A05, expressed in hypothalamus
two	221041	ABC13-480469(AC242549		Homo sapiens FOSMID clone ABC13-48046900N3 from chromosome 7, complete sequence			XR_303884	PREDICTED: Sus scrofa zinc finger protein 350-like (LOC100626048), misc_RNA
two	221043	SFRP5	NM_003015	Homo sapiens secreted frizzled-related protein 5 (SFRP5), mRNA	Plasma Membrane	transmembrane receptor	AK397123	Sus scrofa mRNA, clone: PTG010094H05, expressed in pituitary gland
two	221045		AP003385	Homo sapiens genomic DNA, chromosome 11q clone:RP11-655M14, complete sequences			XM_001927729	PREDICTED: Sus scrofa uncharacterized LOC100153150 (LOC100153150), mRNA
two	221046		HG509301	TPA: Homo sapiens CTD-2319I12,2 gene for long non-coding RNA OTTHUMT00000449177,1, lincRNA cloning vector pchilGHG1			AK391093	Sus scrofa mRNA, clone: CLNT10063A02, expressed in colon
two	221068	BAG6	XM_006725930		Nucleus	enzyme	XM_005665777	PREDICTED: Sus scrofa BCL2-associated athanogene 6 (BAG6), transcript variant X9, mRNA
two	221083	IL5RA	NG_029547	Homo sapiens interleukin 5 receptor, alpha (IL5RA), RefSeqGene on chromosome 3	Plasma Membrane	transmembrane receptor	AK239285	Sus scrofa mRNA, clone:THY010088H12, expressed in thymus
two	221094	CGREF1	NM_001166239	Homo sapiens cell growth regulator with EF-hand domain 1 (CGREF1), transcript variant 2, mRNA	Extracellular Space	other	AK238498	Sus scrofa mRNA, clone:TES010043A10, expressed in testis
two	221105	TBC1D20	NM_144628	Homo sapiens TBC1 domain family, member 20 (TBC1D20), transcript variant 1, mRNA	Nucleus	other	CU914573	Pig DNA sequence from clone CH242-129O21 on chromosome 1, complete sequence
two	221107		AC005548	Homo sapiens chromosome 17, clone hRPK,756_K_11, complete sequence			AK394136	Sus scrofa mRNA, clone: LVRM10039C12, expressed in liver
two	221161	RPP25	NM_017793	Homo sapiens ribonuclease P/MRP 25kDa subunit (RPP25), mRNA	Nucleus	other	AK390222	Sus scrofa mRNA, clone: BFLT10040A12, expressed in brain (frontal lobe)
two	221242	DBNL	AC006369	Homo sapiens BAC clone RP11-278G12 from 2, complete sequence			XM_003134860	PREDICTED: Sus scrofa drebrin-like (DBNL), transcript variant X1, mRNA
two	221248	KPNA6	XM_005270711	PREDICTED: Homo sapiens karyopherin alpha 6 (importin alpha 7) (KPNA6), transcript variant X1, mRNA	Nucleus	transporter	XM_003126407	PREDICTED: Sus scrofa kelch-like family member 42 (KLHL42), mRNA

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two	221284	UQCRFS1P1	NG_009458	Homo sapiens ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1 pseudogene 1 (UQCRFS1P1) on chromosome 22			XM_003127002	PREDICTED: Sus scrofa cytochrome b-c1 complex subunit Rieske, mitochondrial-like (LOC100522678), mRNA
two	221317	OLFM1	AL159992	Human DNA sequence from clone RP11-166H7 on chromosome 9q34,13-34,3, complete sequence	Cytoplasm	other	CU468601	Pig DNA sequence from clone CH242-237A4 on chromosome 7, complete sequence
two	221319	KRT23	XM_005257200	PREDICTED: Homo sapiens keratin 23 (histone deacetylase inducible) (KRT23), transcript variant X3, mRNA >gi 578840293 ref XM_005277791,2	Other	other	XM_003131459	PREDICTED: Sus scrofa keratin 23 (histone deacetylase inducible) (KRT23), mRNA
two	221332		not available	not available			AK347346	Sus scrofa mRNA, clone:OVR010013C05, expressed in ovary
two	221345	ZC4H2	NR_045044	Homo sapiens zinc finger, C4H2 domain containing (ZC4H2), transcript variant 5, long non-coding RNA	Other	other	XM_005673690	PREDICTED: Sus scrofa zinc finger, C4H2 domain containing (ZC4H2), transcript variant X1, mRNA
two	221358	ITGA1	AC025180	Homo sapiens chromosome 5 clone CTD-2175A23, complete sequence	Plasma Membrane	other	CU550726	Pig DNA sequence from clone CH242-445N23 on chromosome X, complete sequence
two	221371	GPALPP1	XM_005266443	PREDICTED: Homo sapiens GPALPP motifs containing 1 (GPALPP1), transcript variant X1, mRNA	Other	other	XM_005668433	PREDICTED: Sus scrofa GPALPP motifs containing 1 (GPALPP1), transcript variant X2, mRNA
two	221376	PRSS8	AK296656	Homo sapiens cDNA FLJ53017 complete cds, moderately similar to Prostatic precursor (EC 3,4,21,-)	Extracellular Space	peptidase	XM_003124472	PREDICTED: Sus scrofa protease, serine, 8 (PRSS8), mRNA
two	221405	CCDC89	NM_152723	Homo sapiens coiled-coil domain containing 89 (CCDC89), mRNA >gi 21754740 dbj AK095478,1 Homo sapiens cDNA FLJ38159 fis, clone DFNES2001404	Nucleus	other	XM_003129723	PREDICTED: Sus scrofa coiled-coil domain containing 89 (CCDC89), mRNA
two	221413	TACSTD2	J04152	Human gastrointestinal tumor-associated antigen GA733-1 protein gene, complete cds, clone 05516	Plasma Membrane	other	XM_003127967	PREDICTED: Sus scrofa tumor-associated calcium signal transducer 2 (TACSTD2), mRNA
two	221447	BEND3P2	NG_011923	Homo sapiens BEN domain containing 3 pseudogene 2 (BEND3P2) on chromosome 9			NM_001129848	Sus scrofa uteroferrin-associated protein (UFBP), mRNA >gi 164715 gb M30315,1 PIGUFBP Pig uteroferrin-associated protein (UFBP) mRNA, complete cds
two	221450	LYPD6	NM_194317	Homo sapiens LY6/PLAUR domain containing 6 (LYPD6), transcript variant 2, mRNA	Extracellular Space	other	XM_003133259	PREDICTED: Sus scrofa LY6/PLAUR domain containing 6 (LYPD6), transcript variant X1, mRNA
two	221491		FM206294	Cloning vector pchiGHG1			L36913	Pig microsatellite DNA (CA repeat)

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two	215471	FNIP2	XM_006714281	PREDICTED: Homo sapiens folliculin interacting protein 2 (FNIP2), transcript variant X7, mRNA	Cytoplasm	other	CU313307	Pig DNA sequence from clone CH242-264E8 on chromosome 7, complete sequence
three	100542	YBX1	XM_005270904	PREDICTED: Homo sapiens Y box binding protein 1 (YBX1), transcript variant X1, mRNA	Nucleus	transcription regulator	XM_003356500	PREDICTED: Sus scrofa Y box binding protein 1 (YBX1), mRNA
three	100578	STRAP	AK312295	Homo sapiens cDNA, FLJ92599, highly similar to Homo sapiens serine/threonine kinase receptor associated protein (STRAP), mRNA	Plasma Membrane	other	AK346516	Sus scrofa mRNA, clone:MLN010002C04, expressed in mesenteric lymph nodes
three	100710	KCMF1	AK314761	Homo sapiens cDNA, FLJ95630, highly similar to Homo sapiens potassium channel modulatory factor (PCMF), mRNA	Other	enzyme	XM_005655223	PREDICTED: Sus scrofa uncharacterized LOC100524080 (LOC100524080), mRNA
three	100715	STMN1	NM_203401	Homo sapiens stathmin 1 (STMN1), transcript variant 1, mRNA	Cytoplasm	other	AK392289	Sus scrofa mRNA, clone: HTMT10063B10, expressed in hypothalamus
three	100788	PEBP4	AY359109	Homo sapiens clone DNA92274 GWTM1933 (UNQ1933) mRNA, complete cds	Cytoplasm	other	AK349916	Sus scrofa mRNA, clone:SKNB10087H02, expressed in skin
three	100872	TNNC1	NM_003280	Homo sapiens troponin C type 1 (slow) (TNNC1), mRNA	Cytoplasm	other	AK394678	Sus scrofa mRNA, clone: MLTL10049B04, expressed in longissimus muscle
three	100874		AB590273	Synthetic construct DNA, clone: pFN21AE1471, Homo sapiens CDC34 gene for cell division cycle 34 homolog, without stop codon, in Flexi system			AK391588	Sus scrofa mRNA, clone: HTMT10003H11, expressed in hypothalamus
three	100885	MPC2	AK290126	Homo sapiens cDNA FLJ78095 complete cds, highly similar to Homo sapiens brain protein 44 (BRP44), mRNA	Plasma Membrane	other	XM_005663140	PREDICTED: Sus scrofa mitochondrial pyruvate carrier 2 (MPC2), transcript variant X4, mRNA
three	100887	TAX1BP1	AK309757	Homo sapiens cDNA, FLJ99798	Cytoplasm	other	XM_005673288	PREDICTED: Sus scrofa Tax1 (human T-cell leukemia virus type I) binding protein 1 (TAX1BP1), partial mRNA
three	100947	PFKM	U24183	Human phosphofructokinase (PFKM) mRNA, complete cds	Cytoplasm	kinase	AK400833	Sus scrofa mRNA, clone: PST010050E03, expressed in prostate
three	101020	PGAM2	NM_000290	Homo sapiens phosphoglycerate mutase 2 (muscle) (PGAM2), mRNA	Cytoplasm	phosphatase	NM_001134968	Sus scrofa phosphoglycerate mutase 2 (muscle) (PGAM2), mRNA >gi 157093849 gb EF620916.1 Sus scrofa phosphoglycerate mutase 2 (PGAM2) mRNA, complete cds
three	101021	TDRD7	XM_006717026	PREDICTED: Homo sapiens tudor domain containing 7 (TDRD7), transcript variant X2, mRNA	Cytoplasm	other	XM_001924680	PREDICTED: Sus scrofa tudor domain containing 7 (TDRD7), mRNA

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three	101146	NRD1	XM_005270903	PREDICTED: Homo sapiens nardilysin (N-arginine dibasic convertase) (NRD1), transcript variant X1, mRNA	Cytoplasm	peptidase	XM_003127978	PREDICTED: Sus scrofa nardilysin (N-arginine dibasic convertase) (NRD1), transcript variant X1, mRNA
three	101266	CDO1	XR_427700	PREDICTED: Homo sapiens cysteine dioxygenase type 1 (CDO1), transcript variant X1, misc_RNA	Cytoplasm	enzyme	AY609406	Sus scrofa clone Clu_1053.scr.msk.p1.Contig1, mRNA sequence
three	101364	ZNF706	BC068524	Homo sapiens zinc finger protein 706, mRNA (cDNA clone MGC:87329 IMAGE:5263977), complete cds	Other	other	XM_003481371	PREDICTED: Sus scrofa zinc finger protein 706 (ZNF706), transcript variant X1, mRNA
three	101367	BUD31	XM_005250674	PREDICTED: Homo sapiens BUD31 homolog (S, cerevisiae) (BUD31), transcript variant X5, mRNA	Nucleus	transcription regulator	XM_003124312	PREDICTED: Sus scrofa BUD31 homolog (S, cerevisiae) (BUD31), transcript variant 2, mRNA
three	101386	RNF138	XR_430075	PREDICTED: Homo sapiens ring finger protein 138, E3 ubiquitin protein ligase (RNF138), transcript variant X4, misc_RNA	Nucleus	other	CU606860	Pig DNA sequence from clone CH242-330B23 on chromosome X, complete sequence
three	101395	AIMP1	NM_001142416	Homo sapiens aminoacyl tRNA synthetase complex-interacting multifunctional protein 1 (AIMP1), transcript variant 3, mRNA	Extracellular Space	cytokine	AK392450	Sus scrofa mRNA, clone: HTMT10075C05, expressed in hypothalamus
three	101504	CSNK1A1	NM_001271741	Homo sapiens casein kinase 1, alpha 1 (CSNK1A1), transcript variant 3, mRNA	Cytoplasm	kinase	XM_005661801	PREDICTED: Sus scrofa casein kinase 1, alpha 1 (CSNK1A1), transcript variant X6, mRNA
three	101552	NEBL	XR_242691	PREDICTED: Homo sapiens nebullette (NEBL), transcript variant X5, misc_RNA	Plasma Membrane	other	XM_003357763	PREDICTED: Sus scrofa nebullette (NEBL), transcript variant X2, mRNA
three	101655	CYP51A1P2	NG_002766	Homo sapiens cytochrome P450, family 51, subfamily A, polypeptide 1 pseudogene 2 (CYP51A1P2) on chromosome 13			AK235908	Sus scrofa mRNA, clone:OVRM10124E10, expressed in ovary
three	101666	PCDH18	BC022227	Homo sapiens protocadherin 18, mRNA (cDNA clone IMAGE:4401355), with apparent retained intron	Extracellular Space	other	FQ377577	Pig DNA sequence from clone CH242-326H11 on chromosome X, complete sequence
three	101689	MFF	XM_006712639	PREDICTED: Homo sapiens mitochondrial fission factor (MFF), transcript variant X11, mRNA	Cytoplasm	other	AK391131	Sus scrofa mRNA, clone: CLNT10072G05, expressed in colon
three	101770	CDK13	NM_031267	Homo sapiens cyclin-dependent kinase 13 (CDK13), transcript variant 2, mRNA	Nucleus	kinase	XM_005673366	PREDICTED: Sus scrofa cyclin-dependent kinase 13 (CDK13), partial mRNA
three	101945	CUL3	AK299644	Homo sapiens cDNA FLJ53180 complete cds, highly similar to Cullin-3	Nucleus	enzyme	XM_005674396	PREDICTED: Sus scrofa cullin-3-like (LOC100622580), mRNA
three	102061	KTN1	XM_006720141	PREDICTED: Homo sapiens kinectin 1 (kinesin receptor) (KTN1), transcript variant X4, mRNA	Plasma Membrane	transmembrane receptor	NM_001258303	Sus scrofa kinectin 1 (kinesin receptor) (KTN1), mRNA

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three	102076	SSR3	NM_007107	Homo sapiens signal sequence receptor, gamma (translocon-associated protein gamma) (SSR3), mRNA	Cytoplasm	other	AK232862	Sus scrofa mRNA, clone:LVRM10041G01, expressed in liver
three	102197	ZNF709	BC136746	Homo sapiens zinc finger protein 709, mRNA (cDNA clone MGC:168359 IMAGE:9020736), complete cds	Other	other	XM_005652828	PREDICTED: Sus scrofa zinc finger protein 709-like (LOC102167351), mRNA
three	102357	BMPR1A	AP002959	Homo sapiens genomic DNA, chromosome 11q clone:RP11-158K18, complete sequence			XM_005671180	PREDICTED: Sus scrofa bone morphogenetic protein receptor, type IA (BMPR1A), transcript variant X1, mRNA
three	102387	DENR	AC011611	Homo sapiens 12 BAC RP11-290L1 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_001928848	PREDICTED: Sus scrofa density-regulated protein (DENR), mRNA
three	102520	G2E3	AC020633	Homo sapiens 3 BAC RP11-65E22 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_005656305	PREDICTED: Sus scrofa G2/M-phase specific E3 ubiquitin protein ligase (G2E3), transcript variant X2, mRNA
three	102527	PPAP2A	NR_103485	Homo sapiens phosphatidic acid phosphatase type 2A (PPAP2A), transcript variant 3, long non-coding RNA	Plasma Membrane	phosphatase	XM_003133951	PREDICTED: Sus scrofa phosphatidic acid phosphatase type 2A (PPAP2A), transcript variant X1, mRNA
three	102597	GGNBP2	XM_005257689	PREDICTED: Homo sapiens gametogenetin binding protein 2 (GGNBP2), transcript variant X1, mRNA >gi 578840410 ref XM_005276909.2 PREDICTED: Homo sapiens gametogenetin binding protein 2 (GGNBP2), transcript variant X1, mRNA	Other	other	XM_003131703	PREDICTED: Sus scrofa gametogenetin binding protein 2 (GGNBP2), transcript variant X1, mRNA
three	102823	TFAM	NR_073073	Homo sapiens transcription factor A, mitochondrial (TFAM), transcript variant 3, long non-coding RNA	Cytoplasm	transcription regulator	AK230853	Sus scrofa mRNA, clone:AMP010054A02, expressed in alveolar macrophage
three	102892	ETFDH	NM_001281738	Homo sapiens electron-transferring-flavoprotein dehydrogenase (ETFDH), transcript variant 3, mRNA	Cytoplasm	enzyme	XM_005666669	PREDICTED: Sus scrofa electron-transferring-flavoprotein dehydrogenase (ETFDH), transcript variant X3, mRNA
three	102926	IGFBP1	BC035263	Homo sapiens insulin-like growth factor binding protein 1, mRNA (cDNA clone MGC:30041 IMAGE:4800940), complete cds	Extracellular Space	other	AB053605	Sus scrofa IGFBP1 mRNA for insulin-like growth factor binding protein 1, partial cds
three	102938	CYP7B1	NM_004820	Homo sapiens cytochrome P450, family 7, subfamily B, polypeptide 1 (CYP7B1), mRNA	Cytoplasm	enzyme	XM_005663061	PREDICTED: Sus scrofa cytochrome P450, family 7, subfamily B, polypeptide 1 (CYP7B1), partial mRNA

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three	103103	C14orf1	AF134159	Homo sapiens potential membrane protein C14orf1 mRNA, complete cds	Cytoplasm	other	AK350719	Sus scrofa mRNA, clone:TCH010016F11, expressed in trachea
three	103131	ALKBH8	AC069236	Homo sapiens 3 BAC RP11-392O18 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_005667297	PREDICTED: Sus scrofa alkB, alkylation repair homolog 8 (E. coli) (ALKBH8), transcript variant X4, mRNA
three	103220	ADK	NG_030484	Homo sapiens adenosine kinase (ADK), RefSeqGene on chromosome 10			AK391452	Sus scrofa mRNA, clone: DCI010081D10, expressed in dendritic cells (immature)
three	103238	TBXAS1	AF233625	Homo sapiens thromboxane synthase (CYP5A1) gene, CYP5A1*9 allele, complete cds	Plasma Membrane	enzyme	EF625355	Sus scrofa cytochrome P450 (CYP5A1v2) mRNA, partial cds
three	103306	TDO2	NM_005651	Homo sapiens tryptophan 2,3-dioxygenase (TDO2), mRNA	Cytoplasm	enzyme	XM_003128997	PREDICTED: Sus scrofa tryptophan 2,3-dioxygenase (TDO), mRNA
three	103307	APOF	NM_001638	Homo sapiens apolipoprotein F (APOF), mRNA	Extracellular Space	transporter	XM_003481623	PREDICTED: Sus scrofa apolipoprotein F-like (LOC100156757), mRNA
three	103387	RBBP8	XM_006722522	PREDICTED: Homo sapiens retinoblastoma binding protein 8 (RBBP8), transcript variant X6, mRNA	Nucleus	enzyme	XM_005674225	PREDICTED: Sus scrofa DNA endonuclease RBBP8-like (LOC100624332), mRNA
three	103393	SERPINA6	AK290821	Homo sapiens cDNA FLJ78214 complete cds, highly similar to Human corticosteroid binding globulin mRNA	Extracellular Space	other	NM_213812	Sus scrofa serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 6 (SERPINA6), mRNA >gi 12018163 gb AF324155.1 Sus scrofa corticosteroid binding globulin precursor mRNA, complete cds
three	103397	SDAD1	BC107895	Homo sapiens SDA1 domain containing 1, mRNA (cDNA clone IMAGE:6717512), partial cds	Nucleus	other	XM_003129088	PREDICTED: Sus scrofa SDA1 domain containing 1 (SDAD1), transcript variant X1, mRNA
three	103405	IMP3	NM_018285	Homo sapiens IMP3, U3 small nucleolar ribonucleoprotein (IMP3), mRNA	Cytoplasm	other	NM_001243292	Sus scrofa IMP3, U3 small nucleolar ribonucleoprotein, homolog (yeast) (IMP3), mRNA
three	103427	PLRG1	NM_001201564	Homo sapiens pleiotropic regulator 1 (PLRG1), transcript variant 2, mRNA	Nucleus	transcription regulator	AK391393	Sus scrofa mRNA, clone: DCI010068E09, expressed in dendritic cells (immature)
three	103784		AP001266	Homo sapiens genomic DNA, chromosome 11 clone:RP11-770G2, complete sequence			AK232061	Sus scrofa mRNA, clone:LNG010073F02, expressed in lung
three	103864	AKAP6	BC137233	Homo sapiens A kinase (PRKA) anchor protein 6, mRNA (cDNA clone MGC:168853 IMAGE:9021230), complete cds	Nucleus	other	XM_005658463	PREDICTED: Sus scrofa A-kinase anchor protein 6-like (LOC100627899), partial mRNA
three	103887	SP110	XM_006712489	PREDICTED: Homo sapiens SP110 nuclear body protein (SP110), transcript variant X7, mRNA	Nucleus	other	KF898045	Sus scrofa SP110 nuclear body protein transcript variant 26 (SP110) mRNA, complete cds, alternatively spliced

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three	103907	ACHE	FM206294	Cloning vector pchilGHG1			XM_003354481	PREDICTED: Sus scrofa acetylcholinesterase (ACHE), mRNA
three	103912	FABP6	NM_001445	Homo sapiens fatty acid binding protein 6, ileal (FABP6), transcript variant 2, mRNA	Cytoplasm	transporter	XM_005672574	PREDICTED: Sus scrofa fatty acid binding protein 6, ileal (FABP6), transcript variant X1, mRNA
three	103916	HLA-DRA	NM_019111	Homo sapiens major histocompatibility complex, class II, DR alpha (HLA-DRA), mRNA	Plasma Membrane	transmembrane receptor	AK398242	Sus scrofa mRNA, clone: TES010067E10, expressed in testis
three	103982	IGF1R	XM_005254897	PREDICTED: Homo sapiens insulin-like growth factor 1 receptor (IGF1R), transcript variant X2, mRNA	Plasma Membrane	transmembrane receptor	XR_309485	PREDICTED: Sus scrofa insulin-like growth factor 1 receptor-like (LOC100622436), misc_RNA
three	104076	ZMYND19	XM_006716950	PREDICTED: Homo sapiens zinc finger, MYND-type containing 19 (ZMYND19), transcript variant X2, mRNA	Plasma Membrane	other	AY609576	Sus scrofa clone Clu_193940.scr.msk.p1.Contig1, mRNA sequence
three	104128	HNF1A	XM_005253931	PREDICTED: Homo sapiens HNF1 homeobox A (HNF1A), transcript variant X1, mRNA	Nucleus	transcription regulator	FJ973575	Sus scrofa HNF1A (HNF1A) gene, exons 1, 2, 8 and partial cds
three	104225	GPI	XM_006723148	PREDICTED: Homo sapiens glucose-6-phosphate isomerase (GPI), transcript variant X3, mRNA	Extracellular Space	enzyme	AK389378	Sus scrofa mRNA, clone: ADR010057D10, expressed in adrenal gland
three	104234	RHOU	NM_021205	Homo sapiens ras homolog family member U (RHOU), transcript variant 1, mRNA	Cytoplasm	enzyme	AK392538	Sus scrofa mRNA, clone: HTMT10084G11, expressed in hypothalamus
three	104243	PFN1	NM_005022	Homo sapiens profilin 1 (PFN1), mRNA	Cytoplasm	other	NM_001244416	Sus scrofa profilin 1 (PFN1), mRNA
three	104245	SRSF1	NR_034041	Homo sapiens serine/arginine-rich splicing factor 1 (SRSF1), transcript variant 3, long non-coding RNA	Nucleus	other	DQ098951	Sus scrofa splicing factor arginine/serine-rich 1 gene, complete cds
three	104379	CIB1	NM_006384	Homo sapiens calcium and integrin binding 1 (calmyrin) (CIB1), transcript variant b, mRNA	Nucleus	other	AY610471	Sus scrofa clone rnc01932b_n10.y1.abd, mRNA sequence
three	104436	PRMT1	NM_198318	Homo sapiens protein arginine methyltransferase 1 (PRMT1), transcript variant 3, mRNA	Nucleus	enzyme	XM_003355999	PREDICTED: Sus scrofa protein arginine methyltransferase 1 (PRMT1), transcript variant X1, mRNA
three	104603	TRIM27	AB528391	Synthetic construct DNA, clone: pF1KB5957, Homo sapiens TRIM27 gene for tripartite motif-containing 27, without stop codon, in Flexi system			XM_003128235	PREDICTED: Sus scrofa tripartite motif containing 27 (TRIM27), mRNA
three	104621	PFDN4	NM_002623	Homo sapiens prefoldin subunit 4 (PFDN4), mRNA	Cytoplasm	other	XM_005673027	PREDICTED: Sus scrofa prefoldin subunit 4 (PFDN4), transcript variant X1, mRNA
three	104679	HSPD1	BC073746	Homo sapiens heat shock 60kDa protein 1 (chaperonin), mRNA (cDNA clone MGC:88749 IMAGE:6372068), complete cds	Cytoplasm	enzyme	AK230584	Sus scrofa mRNA, clone:AMP010012A11, expressed in alveolar macrophage

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three	104738	SPATS2L	XM_006712410	PREDICTED: Homo sapiens spermatogenesis associated, serine-rich 2-like (SPATS2L), transcript variant X9, mRNA	Nucleus	other	NM_001177916	Sus scrofa spermatogenesis associated, serine-rich 2-like (SPATS2L), mRNA >gi 292485835 gb GU474997.1 Sus scrofa spermatogenesis associated serine-rich 2-like protein (SPATS2L) mRNA, complete cds
three	104746	EXOC6	BC028395	Homo sapiens exocyst complex component 6, mRNA (cDNA clone MGC:33397 IMAGE:4820245), complete cds	Plasma Membrane	transporter	XM_003361565	PREDICTED: Sus scrofa exocyst complex component 6 (EXOC6), partial mRNA
three	104753	ATP5F1	XM_005270929	PREDICTED: Homo sapiens ATP synthase, H+ transporting, mitochondrial Fo complex, subunit B1 (ATP5F1), transcript variant X1, mRNA	Cytoplasm	transporter	XM_003355244	PREDICTED: Sus scrofa ATP synthase, H+ transporting, mitochondrial Fo complex, subunit B1 (ATP5F1), mRNA
three	104794	CNTN3	XM_005264759	PREDICTED: Homo sapiens contactin 3 (plasmacytoma associated) (CNTN3), transcript variant X3, mRNA	Plasma Membrane	other	NM_001038000	Sus scrofa FKBP1A-like (LOC654323), mRNA >gi 61098746 gb AY820760.1 Sus scrofa FKBP1A-like mRNA, complete cds
three	104827	TAC1	NM_013997	Homo sapiens tachykinin, precursor 1 (TAC1), transcript variant gamma, mRNA	Extracellular Space	other	XM_003130163	PREDICTED: Sus scrofa tachykinin, precursor 1 (TAC1), transcript variant X1, mRNA
three	104856	FGF12	XM_006713539	PREDICTED: Homo sapiens fibroblast growth factor 12 (FGF12), transcript variant X3, mRNA	Extracellular Space	other	AK392105	Sus scrofa mRNA, clone: HTMT10050B09, expressed in hypothalamus
three	104997	NCBP2	NM_007362	Homo sapiens nuclear cap binding protein subunit 2, 20kDa (NCBP2), transcript variant 1, mRNA	Nucleus	other	XM_003358764	PREDICTED: Sus scrofa nuclear cap binding protein subunit 2, 20kDa (NCBP2), transcript variant 1, mRNA
three	105014	PHB	NM_002634	Homo sapiens prohibitin (PHB), transcript variant 2, mRNA	Nucleus	transcription regulator	AK397887	Sus scrofa mRNA, clone: TCH010020C08, expressed in trachea
three	105060	THBS3	XM_006711502	PREDICTED: Homo sapiens thrombospondin 3 (THBS3), transcript variant X5, mRNA	Extracellular Space	other	AK397970	Sus scrofa mRNA, clone: TCH010045E02, expressed in trachea
three	105088	WNT7A	NG_008088	Homo sapiens wntless-type MMTV integration site family, member 7A (WNT7A), RefSeqGene on chromosome 3	Extracellular Space	cytokine	XM_003132396	PREDICTED: Sus scrofa wntless-type MMTV integration site family, member 7A (WNT7A), mRNA
three	105286	ZBTB7A	XM_005259570	PREDICTED: Homo sapiens zinc finger and BTB domain containing 7A (ZBTB7A), transcript variant X1, mRNA	Nucleus	transcription regulator	XM_003354008	PREDICTED: Sus scrofa zinc finger and BTB domain containing 7A (ZBTB7A), transcript variant X1, mRNA
three	200061	ATG12	NR_073603	Homo sapiens autophagy related 12 (ATG12), transcript variant 4, long non-coding RNA	Cytoplasm	other	FQ456872	Pig DNA sequence from clone XX-Y30N20 on chromosome Y, complete sequence
three	200343	MARCH1	AC098867	Homo sapiens BAC clone RP11-493C20 from 4, complete sequence	Cytoplasm	enzyme	CU914427	Pig DNA sequence from clone CH242-377L5 on chromosome X, complete sequence

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three	200444	TBC1D23	NM_001199198	Homo sapiens TBC1 domain family, member 23 (TBC1D23), transcript variant 1, mRNA	Other	other	AK230932	Sus scrofa mRNA, clone:AMP010066C10, expressed in alveolar macrophage
three	200582	TMEM44	XM_006713824	PREDICTED: Homo sapiens transmembrane protein 44 (TMEM44), transcript variant X5, mRNA	Other	other	XM_005670082	PREDICTED: Sus scrofa transmembrane protein 44 (TMEM44), transcript variant X6, mRNA
three	200594		AC233297	Homo sapiens BAC clone RP11-795L23 from chromosome x, complete sequence			FP015856	Pig DNA sequence from clone CH242-13J4 on chromosome X, complete sequence
three	200779	ARHGAP21	NG_008602	Homo sapiens Rho GTPase activating protein 21 pseudogene (LOC643562) on chromosome 6			XM_005656819	PREDICTED: Sus scrofa Rho GTPase activating protein 21 (ARHGAP21), transcript variant X3, mRNA
three	200798	MSANTD3	NM_001198807	Homo sapiens Myb/SANT-like DNA-binding domain containing 3 (MSANTD3), transcript variant 4, mRNA	Other	other	XM_005660297	PREDICTED: Sus scrofa Myb/SANT-like DNA-binding domain containing 3 (MSANTD3), transcript variant X4, mRNA
three	200812	PRMT8	XM_006718986	PREDICTED: Homo sapiens protein arginine methyltransferase 8 (PRMT8), transcript variant X1, mRNA	Nucleus	enzyme	XM_005664075	PREDICTED: Sus scrofa protein arginine methyltransferase 8 (PRMT8), transcript variant X5, mRNA
three	200826	INTS8	XM_006716603	PREDICTED: Homo sapiens integrator complex subunit 8 (INTS8), transcript variant X2, mRNA	Nucleus	other	XM_003125559	PREDICTED: Sus scrofa integrator complex subunit 8 (INTS8), mRNA
three	200842	HIST1H2AK	AK311941	Homo sapiens cDNA, FLJ92208, Homo sapiens histone 1, H2ak (HIST1H2AK), mRNA	Other	other	AK351913	Sus scrofa mRNA, clone:THY010109C03, expressed in thymus
three	200865	USP33	FM206294	Cloning vector pchilGHG1			XM_005653413	PREDICTED: Sus scrofa ubiquitin specific peptidase 33 (USP33), mRNA
three	200868	GMFB	XM_005267541	PREDICTED: Homo sapiens glia maturation factor, beta (GMFB), transcript variant X1, mRNA	Cytoplasm	growth factor	CU207357	Pig DNA sequence from clone CH242-478E14 on chromosome X, complete sequence
three	200870	INVS	NG_008316	Homo sapiens inversin (INVS), RefSeqGene on chromosome 9			CU914277	Pig DNA sequence from clone CH242-408B4 on chromosome 2, complete sequence
three	200872	GLOD4	XM_006721540	PREDICTED: Homo sapiens glyoxalase domain containing 4 (GLOD4), transcript variant X1, mRNA	Cytoplasm	enzyme	XM_003131815	PREDICTED: Sus scrofa glyoxalase domain containing 4 (GLOD4), mRNA
three	200886	CAB39L	NM_001287339	Homo sapiens calcium binding protein 39-like (CAB39L), transcript variant 4, mRNA	Cytoplasm	kinase	AK390103	Sus scrofa mRNA, clone: BFLT10027A08, expressed in brain (frontal lobe)
three	200898	DYNLL2	NM_080677	Homo sapiens dynein, light chain, LC8-type 2 (DYNLL2), mRNA	Cytoplasm	other	XM_005668971	PREDICTED: Sus scrofa dynein light chain 2, cytoplasmic-like (LOC100512860), transcript variant X2, mRNA

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three	200924	PARP4P2	NG_011399	Homo sapiens poly (ADP-ribose) polymerase family, member 4 pseudogene 2 (PARP4P2) on chromosome 13			AY803118	Sus scrofa chromosome 17 clone pkmCon89, mRNA sequence
three	200931	RAB14	NM_016322	Homo sapiens RAB14, member RAS oncogene family (RAB14), mRNA	Cytoplasm	enzyme	XM_005660403	PREDICTED: Sus scrofa RAB14, member RAS oncogene family (RAB14), transcript variant X1, mRNA
three	200940	MINOS1	BC070388	Homo sapiens chromosome 1 open reading frame 151, mRNA (cDNA clone MGC:88402 IMAGE:30407082), complete cds	Cytoplasm	other	XM_005656034	PREDICTED: Sus scrofa uncharacterized LOC100623381 (LOC100623381), transcript variant X2, mRNA
three	200945	TBC1D16	XM_006721694	PREDICTED: Homo sapiens TBC1 domain family, member 16 (TBC1D16), transcript variant X5, mRNA	Extracellular Space	other	CU464073	Pig DNA sequence from clone CH242-396G1 on chromosome 12, complete sequence
three	200947	MTDH	AP003114	Homo sapiens genomic DNA, chromosome 8q23, clone:KB746F1	Cytoplasm	transcription regulator	DQ104838	Sus scrofa solute carrier organic anion transporter family member 2A1 (SLCO2A1) gene, exon 6
three	200963		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CU468205	Pig DNA sequence from clone CH242-6A14 on chromosome X, complete sequence
three	200973	LAMB4	XM_005250232	PREDICTED: Homo sapiens laminin, beta 4 (LAMB4), transcript variant X1, mRNA	Other	other	XM_003482701	PREDICTED: Sus scrofa laminin, beta 4 (LAMB4), mRNA
three	200975	YIPF5	AB014733	Homo sapiens mRNA for SMAP-5, partial cds	Other	other	AK400864	Sus scrofa mRNA, clone: PST010080D10, expressed in prostate
three	200990	EGLN1	KC554048	Homo sapiens isolate Tib030 hypoxia-inducible factor prolyl hydroxylase 2 (EGLN1) gene, complete cds	Cytoplasm	other	CU151872	Pig DNA sequence from clone CH242-290P9 on chromosome 4, complete sequence
three	200994	ETV1	XM_005249636	PREDICTED: Homo sapiens ets variant 1 (ETV1), transcript variant X2, mRNA	Nucleus	transcription regulator	XM_005667658	PREDICTED: Sus scrofa ets variant 1 (ETV1), transcript variant X4, mRNA
three	201008	GLB1	AK300753	Homo sapiens cDNA FLJ54553 complete cds, highly similar to Beta-galactosidase precursor (EC 3,2,1,23)	Cytoplasm	enzyme	AK235267	Sus scrofa mRNA, clone:OVRM10063F06, expressed in ovary
three	201019	BTRC	BC063673	Homo sapiens cDNA clone IMAGE:3904185, partial cds	Cytoplasm	enzyme	XM_003483546	PREDICTED: Sus scrofa beta-transducin repeat containing E3 ubiquitin protein ligase (BTRC), transcript variant 3, mRNA
three	201044	GLTSCR1	XM_005258833	PREDICTED: Homo sapiens glioma tumor suppressor candidate region gene 1 (GLTSCR1), transcript variant X1, mRNA	Extracellular Space	other	NM_001243614	Sus scrofa ceroid-lipofuscinosis, neuronal 6, late infantile, variant (CLN6), mRNA >gi 115554110 dbj AK233319.1 Sus scrofa mRNA, clone:LVRM10120F04, expressed in liver
three	201051	DPT	NM_001937	Homo sapiens dermatopontin (DPT), mRNA	Extracellular Space	other	XM_003125649	PREDICTED: Sus scrofa dermatopontin (DPT), mRNA

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three	201055		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AK351049	Sus scrofa mRNA, clone:TCH010084E12, expressed in trachea
three	201067	LRRC49	NM_001199018	Homo sapiens leucine rich repeat containing 49 (LRRC49), transcript variant 3, mRNA	Other	other	XM_005659892	PREDICTED: Sus scrofa leucine-rich repeat-containing protein 49-like (LOC100739186), transcript variant X8, mRNA
three	201069		AL031446	Human DNA sequence from clone RP3-482L3 on chromosome 6q15-16.3, complete sequence			AK391100	Sus scrofa mRNA, clone: CLNT10065E10, expressed in colon
three	201070	ZNF512B	XM_005260226	PREDICTED: Homo sapiens zinc finger protein 512B (ZNF512B), transcript variant X1, mRNA	Nucleus	other	XM_005668919	PREDICTED: Sus scrofa calcium channel, voltage-dependent, T type, alpha 1G subunit (CACNA1G), transcript variant X29, mRNA
three	201077	RPL34P16	NG_009837	Homo sapiens ribosomal protein L34 pseudogene 16 (RPL34P16) on chromosome 6			XM_005666943	PREDICTED: Sus scrofa ribosomal protein L34 (RPL34), transcript variant X2, mRNA
three	201085	PANK2	AL031670	Human DNA sequence from clone RP4-681N20 on chromosome 20p12.1-13, complete sequence			XM_005672770	PREDICTED: Sus scrofa pantothenate kinase 2 (PANK2), transcript variant X3, mRNA
three	201113	TRAPPC9	AC021636	Homo sapiens chromosome 8, clone RP11-637F16, complete sequence	Plasma Membrane	other	CU915478	Pig DNA sequence from clone CH242-29L4 on chromosome X, complete sequence
three	201119	PTPRD	NG_033963	Homo sapiens protein tyrosine phosphatase, receptor type, D (PTPRD), RefSeqGene on chromosome 9			FP565156	Pig DNA sequence from clone CH242-401O13 on chromosome X, complete sequence
three	201120	PDE4D	XM_005248541	PREDICTED: Homo sapiens phosphodiesterase 4D, cAMP-specific (PDE4D), transcript variant X5, mRNA	Cytoplasm	enzyme	XM_003359786	PREDICTED: Sus scrofa phosphodiesterase 4D (LOC100037967), transcript variant 8, mRNA
three	201128	PCDHB2	NM_018936	Homo sapiens protocadherin beta 2 (PCDHB2), mRNA	Plasma Membrane	other	XM_003124050	PREDICTED: Sus scrofa protocadherin beta-5-like (LOC100521612), mRNA
three	201153	PRKG1	NG_029982	Homo sapiens protein kinase, cGMP-dependent, type I (PRKG1), RefSeqGene on chromosome 10			CU638862	Pig DNA sequence from clone CH242-477H4 on chromosome X, complete sequence
three	201165	ANK1	NM_001142446	Homo sapiens ankyrin 1, erythrocytic (ANK1), transcript variant 9, mRNA	Plasma Membrane	other	AK396810	Sus scrofa mRNA, clone: PST010095F07, expressed in prostate
three	201250	GTF2IRD2	XM_005277612	PREDICTED: Homo sapiens GTF2I repeat domain containing 2 (GTF2IRD2), transcript variant X1, mRNA	Other	other	AC091404	Sus scrofa clone RP44-74O11, complete sequence
three	201271	LINC01125	HG494355	TPA: Homo sapiens AC017099.3 gene for long non-coding RNA OTTHUMT00000461963.1, antisense	Other	other	XR_302341	PREDICTED: Sus scrofa uncharacterized LOC102167341 (LOC102167341), transcript variant X2, misc_RNA

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three	201392	UBR2	AL136223	Human DNA sequence from clone RP1-242G1 on chromosome 6p21,1-21,2, complete sequence	Nucleus	enzyme	CU694546	Pig DNA sequence from clone CH242-145J20 on chromosome X, complete sequence
three	201441		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CU480790	Pig DNA sequence from clone CH242-209C11 on chromosome X, complete sequence
three	201448	CTAGE13P	NG_025892	Homo sapiens CTAGE family, member 13, pseudogene (CTAGE13P) on chromosome 6			XM_003353471	PREDICTED: Sus scrofa CTAGE family, member 5 (CTAGE5), transcript variant X3, mRNA
three	201503	CTAGE5	AC240555	Homo sapiens FOSMID clone ABC27-593F23 from chromosome 16, complete sequence			XM_003126975	PREDICTED: Sus scrofa liver carboxylesterase-like (LOC100517530), mRNA
three	201732		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			FP015882	Pig DNA sequence from clone CH242-127F11 on chromosome X, complete sequence
three	202027	TAF3	AL390294	Human DNA sequence from clone RP11-379F12 on chromosome 10, complete sequence			XM_003357771	PREDICTED: Sus scrofa TAF3 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 140kDa (TAF3), partial mRNA
three	202117	PHC1	BC073964	Homo sapiens polyhomeotic homolog 1 (Drosophila), mRNA (cDNA clone MGC:87926 IMAGE:5788132), complete cds	Nucleus	transcription regulator	XM_005655685	PREDICTED: Sus scrofa mannose-6-phosphate receptor (cation dependent) (M6PR), transcript variant X3, mRNA
three	202223		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CU468216	Pig DNA sequence from clone CH242-85C7 on chromosome 2, complete sequence
three	202274		FM206294	Cloning vector pchilGHG1			CR956413	Pig DNA sequence from clone CH242-178F16 on chromosome 17, complete sequence
three	202507		AC007488	Homo sapiens 3q27 BAC RP11-246B7 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XR_299321	PREDICTED: Sus scrofa uncharacterized LOC100519216 (LOC100519216), transcript variant X1, misc_RNA
three	202532	LOC152586	XM_006714108	PREDICTED: Homo sapiens glycosyltransferase 54 domain-containing protein (LOC152586), transcript variant X1, mRNA	Other	other	XM_003129181	PREDICTED: Sus scrofa glycosyltransferase 54 domain-containing protein-like (LOC100512242), transcript variant X1, mRNA
three	202541	TTBK2	XM_006720403	PREDICTED: Homo sapiens tau tubulin kinase 2 (TTBK2), transcript variant X5, mRNA	Cytoplasm	kinase	CU210923	Pig DNA sequence from clone CH242-498A9 on chromosome X, complete sequence
three	202719	DYNC1LI2	NM_001286157	Homo sapiens dynein, cytoplasmic 1, light intermediate chain 2 (DYNC1LI2), transcript variant 2, mRNA	Cytoplasm	other	FN673828	Sus scrofa BAC clone KNP_1812D2

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three	202916	SLC30A6	XM_006712048	PREDICTED: Homo sapiens solute carrier family 30 (zinc transporter), member 6 (SLC30A6), transcript variant X3, mRNA	Cytoplasm	transporter	XM_005655251	PREDICTED: Sus scrofa zinc transporter 6-like (LOC100737960), mRNA
three	203004	C7orf60	NM_152556	Homo sapiens chromosome 7 open reading frame 60 (C7orf60), mRNA	Other	other	XM_005673236	PREDICTED: Sus scrofa uncharacterized LOC100621338 (LOC100621338), mRNA
three	203088	SATB1	XM_006713280	PREDICTED: Homo sapiens SATB homeobox 1 (SATB1), transcript variant X1, mRNA	Nucleus	transcription regulator	XM_003358325	PREDICTED: Sus scrofa SATB homeobox 1 (SATB1), transcript variant X1, mRNA
three	203101	XKR4	AC090200	Homo sapiens chromosome 8, clone RP11-628E19, complete sequence	Other	other	FP085529	Pig DNA sequence from clone CH242-373123 on chromosome X, complete sequence
three	203237	ITGB8	XM_005249752	PREDICTED: Homo sapiens integrin, beta 8 (ITGB8), transcript variant X3, mRNA	Plasma Membrane	other	XM_005656679	PREDICTED: Sus scrofa integrin, beta 8 (ITGB8), transcript variant X1, mRNA
three	203305	CSPP1	XM_006716477	PREDICTED: Homo sapiens centrosome and spindle pole associated protein 1 (CSPP1), transcript variant X16, mRNA	Cytoplasm	other	XM_005663041	PREDICTED: Sus scrofa centrosome and spindle pole associated protein 1 (CSPP1), transcript variant X5, mRNA
three	203737		AL590115	Human DNA sequence from clone RP11-255O17 on chromosome 1, complete sequence			CU914643	Pig DNA sequence from clone CH242-228L8 on chromosome X, complete sequence
three	203960		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CU914693	Pig DNA sequence from clone CH242-146E2 on chromosome X, complete sequence
three	204033	RASGRP3	AB020653	Homo sapiens mRNA for KIAA0846 protein, partial cds	Cytoplasm	other	XM_003125250	PREDICTED: Sus scrofa RAS guanyl releasing protein 3 (calcium and DAG-regulated) (RASGRP3), transcript variant 1, mRNA
three	204043	YBX3P1	NR_027011	Homo sapiens Y box binding protein 3 pseudogene 1 (YBX3P1), non-coding RNA	Other	other	XM_003355575	PREDICTED: Sus scrofa Y box binding protein 3 (YBX3), transcript variant X2, mRNA
three	204150		AC013251	Homo sapiens 3 BAC RP11-38P22 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XR_306991	PREDICTED: Sus scrofa uncharacterized LOC100511157 (LOC100511157), transcript variant X1, misc_RNA
three	204331	ZMAT3	XM_006713726	PREDICTED: Homo sapiens zinc finger, matrin-type 3 (ZMAT3), transcript variant X4, mRNA	Nucleus	other	AK234697	Sus scrofa mRNA, clone:OVRM10008G04, expressed in ovary
three	204649		NG_004751	Homo sapiens ras-related C3 botulinum toxin substrate 1 pseudogene 4 (RAC1P4) on chromosome X			AK391982	Sus scrofa mRNA, clone: HTMT10039G06, expressed in hypothalamus

cluster	array id	gene symbols	HSA accession	HSA description	location	property	SSC accession	SSC description
three	204711		AC068985	Homo sapiens 3 BAC RP11-217E22 (Roswell Park Cancer Institute Human BAC Library) complete sequence			CU457723	Pig DNA sequence from clone CH242-28L6 on chromosome 4, complete sequence
three	204823	FGG	AF118092	Homo sapiens PRO2061 mRNA, complete cds	Extracellular Space	other	XM_003361190	PREDICTED: Sus scrofa fibrinogen gamma chain-like (LOC100627396), transcript variant X1, mRNA
three	204824		AL591610	Human DNA sequence from clone RP1-133117 on chromosome 6, complete sequence			FN673789	Sus scrofa BAC clone KNP_1219A4
three	204870	LOC646214	NR_027053	Homo sapiens p21 protein (Cdc42/Rac)-activated kinase 2 pseudogene (LOC646214), non-coding RNA	Other	other	XR_307120	PREDICTED: Sus scrofa uncharacterized LOC102158008 (LOC102158008), misc_RNA
three	205130	RAD18	NM_020165	Homo sapiens RAD18 homolog (S, cerevisiae) (RAD18), mRNA	Nucleus	other	NM_001142833	Sus scrofa RAD18 homolog (S, cerevisiae) (RAD18), mRNA >gi 213688826 gb FJ236699.1 Sus scrofa RAD18-like protein (RAD18) mRNA, complete cds
three	205160	ARV1	BC016309	Homo sapiens ARV1 homolog (S. cerevisiae), mRNA (cDNA clone MGC:22705 IMAGE:4047121), complete cds	Other	other	AK391940	Sus scrofa mRNA, clone: HTMT10035C06, expressed in hypothalamus
three	205290	SON	NR_103798	Homo sapiens SON DNA binding protein (SON), transcript variant e, long non-coding RNA	Nucleus	other	XM_003358932	PREDICTED: Sus scrofa son3 protein (DBP-5), transcript variant X1, mRNA
three	205297	KPNA2	BC146905	Homo sapiens karyopherin alpha 2 (RAG cohort 1, importin alpha 1), mRNA (cDNA clone MGC:182008 IMAGE:9056833), complete cds	Nucleus	transporter	AK399443	Sus scrofa mRNA, clone: AMP010053A12, expressed in alveolar macrophage
three	205412	TUBB2B	HQ447903	Synthetic construct Homo sapiens clone IMAGE:100071259; CCSB005347_02 tubulin, beta 2B (TUBB2B) gene, encodes complete protein	Cytoplasm	other	XM_005652746	PREDICTED: Sus scrofa tubulin, beta 4B class IVb (TUBB4B), transcript variant X7, mRNA
three	205499	HIST1H2BD	XM_005249039	PREDICTED: Homo sapiens histone cluster 1, H2bd (HIST1H2BD), transcript variant X1, mRNA	Nucleus	other	XR_298743	PREDICTED: Sus scrofa histone cluster 1, H2bd (HIST1H2BD), transcript variant X1, misc_RNA
three	205700	SLC9A5	BC150207	Homo sapiens cDNA clone IMAGE:40148878	Plasma Membrane	transporter	XM_003126931	PREDICTED: Sus scrofa sodium/hydrogen exchanger (NHE5), transcript variant X1, mRNA
three	205759	RRP36	AK313816	Homo sapiens cDNA, FLJ94435	Nucleus	other	AK399384	Sus scrofa mRNA, clone: THY010117A12, expressed in thymus
three	205819	COG1	AB037802	Homo sapiens mRNA for KIAA1381 protein, partial cds	Cytoplasm	transporter	XM_003131245	PREDICTED: Sus scrofa component of oligomeric golgi complex 1 (COG1), mRNA

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three	205855	MTCH2	XM_006718173	PREDICTED: Homo sapiens mitochondrial carrier 2 (MTCH2), transcript variant X3, mRNA	Cytoplasm	other	XM_003353877	PREDICTED: Sus scrofa mitochondrial carrier 2 (MTCH2), mRNA
three	205967	CGA	AL138827	Human DNA sequence from clone RP11-156F23 on chromosome 6, complete sequence	Extracellular Space	other	AK349136	Sus scrofa mRNA, clone:PTG010008A01, expressed in pituitary gland
three	205981	GPA33	AB527693	Synthetic construct DNA, clone: pF1KB6786, Homo sapiens PFDN5 gene for prefoldin subunit 5, without stop codon, in Flexi system			XM_005652565	PREDICTED: Sus scrofa UPF0160 protein MYG1, mitochondrial-like (LOC100516439), transcript variant X2, mRNA
three	206006	HIST1H2BD	NM_138720	Homo sapiens histone cluster 1, H2bd (HIST1H2BD), transcript variant 2, mRNA	Nucleus	other	AK392937	Sus scrofa mRNA, clone: ITT010047E10, expressed in intestine
three	206118		AL158837	Human DNA sequence from clone RP11-102C16 on chromosome 1, complete sequence			XM_005663142	PREDICTED: Sus scrofa glycoprotein A33 (transmembrane) (GPA33), mRNA
three	206259	MLANA	XM_006716742	PREDICTED: Homo sapiens melan-A (MLANA), transcript variant X1, mRNA	Plasma Membrane	other	XM_003121916	PREDICTED: Sus scrofa melan-A (MLANA), mRNA
three	206318	ALDH1A2	AL137418	Homo sapiens mRNA; cDNA DKFZp434P012 (from clone DKFZp434P012)	Cytoplasm	enzyme	AK343340	Sus scrofa mRNA, clone:ADR010041B01, expressed in adrenal gland
three	206437	CHML	NM_001821	Homo sapiens choroideremia-like (Rab escort protein 2) (CHML), mRNA	Cytoplasm	enzyme	XM_003357636	PREDICTED: Sus scrofa choroideremia-like (Rab escort protein 2) (CHML), mRNA
three	206564		AC130454	Homo sapiens chromosome 16 clone CTA-345G4, complete sequence			FP015983	Pig DNA sequence from clone CH242-74L12 on chromosome 2, complete sequence
three	206584	C10orf118	XM_005269937	PREDICTED: Homo sapiens chromosome 10 open reading frame 118 (C10orf118), transcript variant X2, mRNA	Other	other	XM_001927027	PREDICTED: Sus scrofa chromosome 14 open reading frame, human C10orf118 (C14H10orf118), mRNA
three	206620	SPATA24	NM_194296	Homo sapiens spermatogenesis associated 24 (SPATA24), mRNA	Other	other	XM_005661705	PREDICTED: Sus scrofa spermatogenesis associated 24 (SPATA24), transcript variant X1, mRNA
three	206692	C3orf38	XM_005264745	PREDICTED: Homo sapiens chromosome 3 open reading frame 38 (C3orf38), transcript variant X1, mRNA	Other	peptidase	AK389709	Sus scrofa mRNA, clone: AMP010047D07, expressed in alveolar macrophage
three	206707	PITX2	XM_006714235	PREDICTED: Homo sapiens paired-like homeodomain 2 (PITX2), transcript variant X1, mRNA	Nucleus	transcription regulator	XM_005666934	PREDICTED: Sus scrofa paired-like homeodomain 2 (PITX2), transcript variant X2, mRNA
three	206731	PAX9	NG_013357	Homo sapiens paired box 9 (PAX9), RefSeqGene on chromosome 14	Nucleus	transcription regulator	CT757474	Pig DNA sequence from clone CH242-197D7 on chromosome 7, complete sequence

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three	206737	GKAP1	AJ420456	Homo sapiens mRNA full length insert cDNA clone EUROIMAGE 1521749	Cytoplasm	other	XM_005668031	PREDICTED: Sus scrofa G kinase anchoring protein 1 (GKAP1), transcript variant X4, mRNA
three	206767	ALG9	NG_009210	Homo sapiens ALG9, alpha-1,2-mannosyltransferase (ALG9), RefSeqGene on chromosome 11			XR_305340	PREDICTED: Sus scrofa uncharacterized LOC102159095 (LOC102159095), misc_RNA
three	206876	GNAQ	NG_027904	Homo sapiens guanine nucleotide binding protein (G protein), q polypeptide (GNAQ), RefSeqGene on chromosome 9	Plasma Membrane	enzyme	CU462995	Pig DNA sequence from clone CH242-81M14 on chromosome X, complete sequence
three	206917	BCAP29	NR_027830	Homo sapiens B-cell receptor-associated protein 29 (BCAP29), transcript variant 3, non-coding RNA	Cytoplasm	transporter	XM_005667735	PREDICTED: Sus scrofa B-cell receptor associated protein 29 (BCAP29), mRNA
three	206953		AL031407	Human DNA sequence from clone RP3-436K10 on chromosome 6p22,1-23, complete sequence			FN673761	Sus scrofa BAC clone KNP_828H7
three	206996	ADCY10P1	NR_026938	Homo sapiens adenylate cyclase 10 (soluble) pseudogene 1 (ADCY10P1), non-coding RNA	Other	other	AK391266	Sus scrofa mRNA, clone: DCI010022G04, expressed in dendritic cells (immature)
three	207131	AHCTF1	XR_426916	PREDICTED: Homo sapiens AT hook containing transcription factor 1 (AHCTF1), transcript variant X3, misc_RNA	Nucleus	transcription regulator	XM_003130551	PREDICTED: Sus scrofa AT hook containing transcription factor 1 (AHCTF1), mRNA
three	207201	PRPF40A	XM_005246679	PREDICTED: Homo sapiens PRP40 pre-mRNA processing factor 40 homolog A (S, cerevisiae) (PRPF40A), transcript variant X5, mRNA	Nucleus	other	XM_005671846	PREDICTED: Sus scrofa PRP40 pre-mRNA processing factor 40 homolog A (S, cerevisiae) (PRPF40A), transcript variant X8, mRNA
three	207320	PTGFR	NM_001039585	Homo sapiens prostaglandin F receptor (FP) (PTGFR), transcript variant 2, mRNA	Plasma Membrane	G-protein coupled receptor	XM_005665359	PREDICTED: Sus scrofa prostaglandin F receptor (FP) (PTGFR), transcript variant X1, mRNA
three	207401	ST7L	NM_138729	Homo sapiens suppression of tumorigenicity 7 like (ST7L), transcript variant 4, mRNA	Other	other	XM_003355240	PREDICTED: Sus scrofa suppression of tumorigenicity 7 like (ST7L), transcript variant X1, mRNA
three	207404	CALCB	BC092468	Homo sapiens calcitonin-related polypeptide beta, mRNA (cDNA clone MGC:104570 IMAGE:5313089), complete cds	Extracellular Space	other	NM_001102473	Sus scrofa calcitonin-related polypeptide beta (CALCB), mRNA >gi 151302627 dbj AB331640.1 Sus scrofa mRNA for preprocalcitonin gene-related peptide, complete cds
three	207466	KLRC1	NM_213658	Homo sapiens killer cell lectin-like receptor subfamily C, member 1 (KLRC1), transcript variant 3, mRNA	Plasma Membrane	transmembrane receptor	XM_003126503	PREDICTED: Sus scrofa NKG2-A/NKG2-B type II integral membrane protein-like (LOC100523789), mRNA
three	207475	HIST1H2BD	NM_138720	Homo sapiens histone cluster 1, H2bd (HIST1H2BD), transcript variant 2, mRNA	Nucleus	other	AK392937	Sus scrofa mRNA, clone: ITT010047E10, expressed in intestine

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three	207541	TEX9	XM_005254359	PREDICTED: Homo sapiens testis expressed 9 (TEX9), transcript variant X1, mRNA	Other	other	XR_300961	PREDICTED: Sus scrofa uncharacterized LOC100621762 (LOC100621762), misc_RNA
three	207642	RAB21	NM_014999	Homo sapiens RAB21, member RAS oncogene family (RAB21), mRNA	Cytoplasm	enzyme	XM_003481659	PREDICTED: Sus scrofa RAB21, member RAS oncogene family (RAB21), mRNA
three	207668	MRPL40	AF034091	Homo sapiens nuclear localization signal containing protein deleted in Velo-Cardio-Facial syndrome (Nlvcf) mRNA, complete cds	Cytoplasm	other	NM_001243560	Sus scrofa mitochondrial ribosomal protein L40 (MRPL40), transcript variant 2, mRNA
three	207805	MRPL11	XM_006718666	PREDICTED: Homo sapiens mitochondrial ribosomal protein L11 (MRPL11), transcript variant X1, mRNA	Cytoplasm	other	XM_003353756	PREDICTED: Sus scrofa mitochondrial ribosomal protein L11 (MRPL11), transcript variant X2, mRNA
three	208157	C11orf58	NM_014267	Homo sapiens chromosome 11 open reading frame 58 (C11orf58), mRNA	Other	other	NM_001244873	Sus scrofa chromosome 11 open reading frame 58 ortholog (C2H11orf58), mRNA
three	208161	ZBTB17	AL034555	Human DNA sequence from clone RP1-134O19 on chromosome 1p36,11-36,33, complete sequence			XM_003360556	PREDICTED: Sus scrofa zinc finger and BTB domain containing 17 (ZBTB17), mRNA
three	208184		AC093648	Homo sapiens BAC clone RP11-360A10 from 4, complete sequence			AB699688	Sus scrofa genes for immunoglobulin heavy chain constant region, clone: L380J14
three	208297	ZNF804B	AC002382	Homo sapiens BAC clone CTB-22J17 from 7, complete sequence	Other	other	NM_001244176	Sus scrofa coiled-coil-helix-coiled-coil-helix domain containing 3 (CHCHD3), mRNA >gj 52351722 gb AY610152,1 Sus scrofa clone Clu_81,scr,msk,p1,Contig3, mRNA sequence
three	208311	PHKB	NG_016598	Homo sapiens phosphorylase kinase, beta (PHKB), RefSeqGene on chromosome 16	Cytoplasm	kinase	XM_003134727	PREDICTED: Sus scrofa NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5 (NDUFA5), transcript variant X1, mRNA
three	208400	ABHD17B	XM_006717134	PREDICTED: Homo sapiens abhydrolase domain containing 17B (ABHD17B), transcript variant X1, mRNA	Other	peptidase	XM_005660158	PREDICTED: Sus scrofa family with sequence similarity 108, member B1 (FAM108B1), transcript variant X1, mRNA
three	208451	SLC7A7	NG_012851	Homo sapiens solute carrier family 7 (amino acid transporter light chain, y+L system), member 7 (SLC7A7), RefSeqGene on chromosome 14	Plasma Membrane	transporter	XM_005666273	PREDICTED: Sus scrofa mitochondrial inner membrane protein OXA1L-like (LOC100154992), mRNA
three	208468	BARD1	NR_104216	Homo sapiens BRCA1 associated RING domain 1 (BARD1), transcript variant 8, long non-coding RNA	Nucleus	transcription regulator	XM_005672164	PREDICTED: Sus scrofa BRCA1 associated RING domain 1 (BARD1), mRNA

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three	208526	GSG1	AK027894	Homo sapiens cDNA FLJ14988 fis, clone Y79AA1001323, moderately similar to Mus musculus mRNA for GSG1	Cytoplasm	other	XM_003481686	PREDICTED: Sus scrofa germ cell-specific gene 1 protein-like (LOC100739189), mRNA
three	208529	ZBBX	XM_006713747	PREDICTED: Homo sapiens zinc finger, B-box domain containing (ZBBX), transcript variant X4, mRNA	Other	other	XM_005669977	PREDICTED: Sus scrofa zinc finger, B-box domain containing (ZBBX), transcript variant X10, mRNA
three	208554	EFCAB1	XM_005251304	PREDICTED: Homo sapiens EF-hand calcium binding domain 1 (EFCAB1), transcript variant X2, mRNA	Other	other	XM_005667600	PREDICTED: Sus scrofa EF-hand calcium-binding domain-containing protein 1-like (LOC100519264), transcript variant X2, mRNA
three	208557	ARIH1	XM_006720460	PREDICTED: Homo sapiens ariadne RBR E3 ubiquitin protein ligase 1 (ARIH1), transcript variant X1, mRNA	Cytoplasm	enzyme	XM_003128506	PREDICTED: Sus scrofa ariadne homolog, ubiquitin-conjugating enzyme E2 binding protein, 1 (Drosophila) (ARIH1), mRNA
three	208566	C2orf42	BC005079	Homo sapiens chromosome 2 open reading frame 42, mRNA (cDNA clone MGC:13036 IMAGE:3615724), complete cds >gi 33877223 gb BC002825.2 Homo sapiens chromosome 2 open reading frame 42, mRNA (cDNA clone MGC:3447 IMAGE:3635986), complete cds	Other	other	NM_001243818	Sus scrofa chromosome 2 open reading frame 42 (C3H2orf42), mRNA >gi 115553280 dbj AK233078.1 Sus scrofa mRNA, clone:LVRM10078D07, expressed in liver
three	208570		AC129803	Homo sapiens 3 BAC RP11-15N24 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_003132712	PREDICTED: Sus scrofa cell cycle control protein 50C-like (LOC100524713), mRNA
three	208571	HIST2H2BF	NG_033089	Homo sapiens histone cluster 2, H2bf (HIST2H2BF), RefSeqGene on chromosome 1			XM_003355209	PREDICTED: Sus scrofa histone H2B type 2-F-like (LOC100155404), transcript variant 2, mRNA
three	208573	NOX5	NG_030464	Homo sapiens NADPH oxidase, EF-hand calcium binding domain 5 (NOX5), RefSeqGene on chromosome 15			NM_001177931	Sus scrofa sperm equatorial segment protein 1 (SPESP1), mRNA >gi 292485831 gb GU474995.1 Sus scrofa sperm equatorial segment protein 1 (SPESP1) mRNA, complete cds
three	208584		AL138899	Human DNA sequence from clone RP11-404O13 on chromosome 1, complete sequence			AB221037	Sus scrofa cd1d, cd1b, cd1e, or10t1 genes for CD1D antigen, CD1B antigen, CD1E antigen, putative olfactory receptor 10T1, complete cds
three	208587	ASRGL1	XM_005274306	PREDICTED: Homo sapiens asparaginase like 1 (ASRGL1), transcript variant X3, mRNA	Cytoplasm	enzyme	AK392582	Sus scrofa mRNA, clone: HTMT10087G03, expressed in hypothalamus

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three	208589		AL513128	Human DNA sequence from clone RP11-301N24 on chromosome 10, complete sequence			NM_001038000	Sus scrofa FKBP1A-like (LOC654323), mRNA >gi 61098746 gb AY820760.1 Sus scrofa FKBP1A-like mRNA, complete cds
three	208590	HIST2H2BE	HQ447538	Synthetic construct Homo sapiens clone IMAGE:100070877; CCSB014881_01 histone cluster 2, H2be (HIST2H2BE) gene, encodes complete protein	Nucleus	other	XM_005665645	PREDICTED: Sus scrofa histone H2B type 1-A-like (LOC100152878), mRNA
three	208610	SLCO2A1	FM206294	Cloning vector pchlGHG1			DQ104838	Sus scrofa solute carrier organic anion transporter family member 2A1 (SLCO2A1) gene, exon 6
three	208612	LRR1C1	NM_018214	Homo sapiens leucine rich repeat containing 1 (LRR1C1), mRNA	Cytoplasm	other	XM_001927688	PREDICTED: Sus scrofa leucine rich repeat containing 1 (LRR1C1), mRNA
three	208616	PSMA8	XM_005258199	PREDICTED: Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 8 (PSMA8), transcript variant X1, mRNA	Nucleus	peptidase	XM_003127873	PREDICTED: Sus scrofa proteasome (prosome, macropain) subunit, alpha type, 8 (PSMA8), transcript variant X2, mRNA
three	208638	SPATA18	XM_005265718	PREDICTED: Homo sapiens spermatogenesis associated 18 (SPATA18), transcript variant X5, mRNA	Cytoplasm	other	XM_005666638	PREDICTED: Sus scrofa spermatogenesis associated 18 (SPATA18), transcript variant X1, mRNA
three	208639	TNNI3K	NG_032939	Homo sapiens TNNI3 interacting kinase (TNNI3K), RefSeqGene on chromosome 1			FN677051	Sus scrofa BAC clone CHOR1242_259G13_Contig11
three	208661	TEX35	NM_032126	Homo sapiens testis expressed 35 (TEX35), transcript variant 1, mRNA	Nucleus	other	NM_001038000	Sus scrofa FKBP1A-like (LOC654323), mRNA >gi 61098746 gb AY820760.1 Sus scrofa FKBP1A-like mRNA, complete cds
three	208679	CETN1	AP001178	Homo sapiens genomic DNA, chromosome 18 clone:RP11-806L2, complete sequence			XM_003360781	PREDICTED: Sus scrofa centrin, EF-hand protein, 1 (CETN1), mRNA
three	208684	ART3	XM_005262999	PREDICTED: Homo sapiens ADP-ribosyltransferase 3 (ART3), transcript variant X5, mRNA	Plasma Membrane	enzyme	NM_001244205	Sus scrofa ADP-ribosyltransferase 3 (ART3), mRNA
three	208695	STAT4	XM_006712719	PREDICTED: Homo sapiens signal transducer and activator of transcription 4 (STAT4), transcript variant X2, mRNA	Nucleus	transcription regulator	XM_005674331	PREDICTED: Sus scrofa signal transducer and activator of transcription 4-like (LOC100736717), mRNA
three	208697	ALS2CR11	XM_006712331	PREDICTED: Homo sapiens amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 11 (ALS2CR11), transcript variant X2, mRNA	Other	other	XM_005654190	PREDICTED: Sus scrofa putative leucine-rich repeat-containing protein DDB_G0290503-like (LOC100625576), mRNA

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three	208732	FAM122C	XR_430543	PREDICTED: Homo sapiens family with sequence similarity 122C (FAM122C), transcript variant X11, misc_RNA	Other	other	XR_297877	PREDICTED: Sus scrofa protein FAM122C-like (LOC100516891), misc_RNA
three	208737	GLIPR1L1	XM_005268772	PREDICTED: Homo sapiens GLI pathogenesis-related 1 like 1 (GLIPR1L1), transcript variant X2, mRNA	Cytoplasm	other	XM_003355522	PREDICTED: Sus scrofa GLI pathogenesis-related 1 like 1 (GLIPR1L1), mRNA
three	208738	HSF5	NM_001080439	Homo sapiens heat shock transcription factor family member 5 (HSF5), mRNA	Other	other	XM_003131648	PREDICTED: Sus scrofa heat shock transcription factor family member 5 (HSF5), mRNA
three	208766	VWA3B	XM_006712360	PREDICTED: Homo sapiens von Willebrand factor A domain containing 3B (VWA3B), transcript variant X7, mRNA	Other	other	CU633325	Pig DNA sequence from clone CH242-9L4 on chromosome X, complete sequence
three	208783		AC008586	Homo sapiens chromosome 5 clone CTC-568N24, complete sequence			XR_307971	PREDICTED: Sus scrofa uncharacterized LOC102165375 (LOC102165375), misc_RNA
three	208814	FKBP6	XM_006716153	PREDICTED: Homo sapiens FK506 binding protein 6, 36kDa (FKBP6), transcript variant X3, mRNA	Nucleus	enzyme	XM_003124401	PREDICTED: Sus scrofa FK506 binding protein 6, 36kDa (FKBP6), transcript variant X1, mRNA
three	208825		FM206294	Cloning vector pchilGHG1			XR_308489	PREDICTED: Sus scrofa uncharacterized LOC102158760 (LOC102158760), transcript variant X2, misc_RNA
three	208837	PRSS37	AK172866	Homo sapiens cDNA FLJ29002 fis, clone TST01896	Extracellular Space	peptidase	XM_005657728	PREDICTED: Sus scrofa probable inactive serine protease 37-like (LOC100624076), transcript variant X3, mRNA
three	208845	ERO1LB	NM_019891	Homo sapiens ERO1-like beta (S, cerevisiae) (ERO1LB), mRNA	Cytoplasm	enzyme	XM_005654128	PREDICTED: Sus scrofa ERO1-like beta (S, cerevisiae) (ERO1LB), mRNA
three	208855	KLHL10	XM_005257274	PREDICTED: Homo sapiens kelch-like family member 10 (KLHL10), transcript variant X2, mRNA	Nucleus	other	XM_003134979	PREDICTED: Sus scrofa kelch-like family member 15 (KLHL15), mRNA
three	208856	SNX29	AC092365	Homo sapiens chromosome 16 clone RP11-450B4, complete sequence	Other	other	FQ976865	Pig DNA sequence from clone WTSI_1005-636G22 on chromosome X, complete sequence
three	208893	ASB17	XM_006710346	PREDICTED: Homo sapiens ankyrin repeat and SOCS box containing 17 (ASB17), transcript variant X2, mRNA	Other	other	XM_003482068	PREDICTED: Sus scrofa ankyrin repeat and SOCS box containing 17 (ASB17), partial mRNA
three	208899	TEX40	AB590987	Synthetic construct DNA, clone: pFN21AE1116, Homo sapiens C11orf20 gene for chromosome 11 open reading frame 20, without stop codon, in Flexi system			XM_003122571	PREDICTED: Sus scrofa testis expressed 40 (TEX40), mRNA

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three	208929		AL157756	Human chromosome 14 DNA sequence BAC C-2184C24 of library CalTech-D from chromosome 14 of Homo sapiens (Human), complete sequence			XR_301249	PREDICTED: Sus scrofa uncharacterized LOC102157689 (LOC102157689), transcript variant X2, misc_RNA
three	208936	LYAR	NM_017816	Homo sapiens Ly1 antibody reactive (LYAR), transcript variant 1, mRNA	Plasma Membrane	other	XM_003128852	PREDICTED: Sus scrofa apoptosis-related protein (PNAS-5), mRNA
three	208939	TMEM202	NM_001080462	Homo sapiens transmembrane protein 202 (TMEM202), mRNA	Other	other	XM_005666174	PREDICTED: Sus scrofa transmembrane protein 202 (TMEM202), transcript variant X1, mRNA
three	209033	MLXIP	NG_033995	Homo sapiens MLX interacting protein (MLXIP), RefSeqGene on chromosome 12	Nucleus	other	XM_005653026	PREDICTED: Sus scrofa chromosome 3 open reading frame, human C16orf82 (C3H16orf82), mRNA
three	209037	STX18	XM_005247972	PREDICTED: Homo sapiens syntaxin 18 (STX18), transcript variant X2, mRNA	Cytoplasm	transporter	AK345940	Sus scrofa mRNA, clone: LVR010063B07, expressed in liver
three	209043	PRKCQ	XM_006717465	PREDICTED: Homo sapiens protein kinase C, theta (PRKCQ), transcript variant X3, mRNA	Cytoplasm	kinase	AK389847	Sus scrofa mRNA, clone: AMP010093B05, expressed in alveolar macrophage
three	209078	GPR108	AK291968	Homo sapiens cDNA FLJ75847 complete cds, highly similar to Homo sapiens G protein-coupled receptor 108 (GPR108), mRNA	Plasma Membrane	G-protein coupled receptor	AK401010	Sus scrofa mRNA, clone: TES010088G11, expressed in testis
three	209079	PSMD2	U18247	Human p67 mRNA, complete cds	Cytoplasm	other	XM_005662295	PREDICTED: Sus scrofa BUB1 mitotic checkpoint serine/threonine kinase (BUB1), transcript variant X3, mRNA
three	209095		AL442128	Human DNA sequence from clone RP11-365P13 on chromosome 13, complete sequence			XM_005653828	PREDICTED: Sus scrofa uncharacterized LOC102157411 (LOC102157411), transcript variant X1, mRNA
three	209135	FAM81B	XM_005271906	PREDICTED: Homo sapiens family with sequence similarity 81, member B (FAM81B), transcript variant X2, mRNA	Nucleus	other	XM_003123794	PREDICTED: Sus scrofa family with sequence similarity 81, member B (FAM81B), mRNA
three	209175	PADI2	AK295783	Homo sapiens cDNA FLJ61278 complete cds, highly similar to Protein-arginine deiminase type-2 (EC 3,5,3,15)	Cytoplasm	enzyme	XM_003356166	PREDICTED: Sus scrofa peptidyl arginine deiminase, type II (PADI2), mRNA
three	209273		AC073073	Homo sapiens BAC clone RP11-251G23 from 7, complete sequence			AK395330	Sus scrofa mRNA, clone: OVRM10191F05, expressed in ovary
three	209347	ROPN1	XM_005247551	PREDICTED: Homo sapiens rhopilin associated tail protein 1 (ROPN1), transcript variant X3, mRNA	Cytoplasm	other	NM_001172369	Sus scrofa rhopilin associated tail protein 1 (ROPN1), mRNA >gi 285818395 gb GU373671.1 Sus scrofa rhopilin associated protein 1 (ROPN1) mRNA, complete cds

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three	209368	PSIP1P1	NG_002792	Homo sapiens PC4 and SFRS1 interacting protein 1 pseudogene 1 (PSIP1P1) on chromosome 9			NM_001243670	Sus scrofa PC4 and SFRS1 interacting protein 1 (PSIP1), mRNA
three	209420	CCDC110	AK302815	Homo sapiens cDNA FLJ52074 complete cds, highly similar to Homo sapiens KM-HN-1 protein (KM-HN-1), mRNA	Nucleus	other	XM_005671723	PREDICTED: Sus scrofa coiled-coil domain containing 110 (CCDC110), transcript variant X2, mRNA
three	209527	VAMP4	XR_426805	PREDICTED: Homo sapiens vesicle-associated membrane protein 4 (VAMP4), transcript variant X1, misc_RNA	Cytoplasm	other	AK395657	Sus scrofa mRNA, clone: OVRT10043G11, expressed in ovary
three	210099		FM206294	Cloning vector pchilGHG1			AK390860	Sus scrofa mRNA, clone: CLNT10010A03, expressed in colon
three	210100	DUS2	NM_001271763	Homo sapiens dihydrouridine synthase 2 (DUS2), transcript variant 3, mRNA	Cytoplasm	other	XM_005655778	PREDICTED: Sus scrofa dihydrouridine synthase 2 (DUS2), mRNA
three	210116		AC208105	Homo sapiens FOSMID clone ABC9-43348300J12 from chromosome 1, complete sequence			XM_003126975	PREDICTED: Sus scrofa liver carboxylesterase-like (LOC100517530), mRNA
three	210473	TUBA3C	NM_080386	Homo sapiens tubulin, alpha 3d (TUBA3D), mRNA	Nucleus	other	XM_003133000	PREDICTED: Sus scrofa tubulin alpha-3 chain-like (LOC100510930), mRNA
three	210683	ACTB	AC105339	Homo sapiens chromosome 15, clone RP11-752G15, complete sequence			XM_003357928	PREDICTED: Sus scrofa actin, beta (ACTB), mRNA
three	210812	RHOC	FM206294	Cloning vector pchilGHG1			XM_003125846	PREDICTED: Sus scrofa ras homolog family member C (RHOC), mRNA
three	210956	STX16	NR_037943	Homo sapiens syntaxin 16 (STX16), transcript variant 8, long non-coding RNA	Cytoplasm	transporter	CR956405	Pig DNA sequence from clone CH242-240K6 on chromosome 17, complete sequence
three	211180	L3MBTL2	CR456482	Homo sapiens dJ756G23.3 full length open reading frame (ORF) cDNA clone (cDNA clone C22ORF:pGEM.dJ756G23.3.V3)	Nucleus	transcription regulator	XM_001929185	PREDICTED: Sus scrofa I(3)mbt-like 2 (Drosophila) (L3MBTL2), transcript variant X1, mRNA
three	211280	GMPPB	NG_033731	Homo sapiens GDP-mannose pyrophosphorylase B (GMPPB), RefSeqGene on chromosome 3	Cytoplasm	enzyme	XM_003358441	PREDICTED: Sus scrofa adhesion molecule with Ig-like domain 3 (AMIGO3), mRNA
three	211531	ACCS	XM_006718348	PREDICTED: Homo sapiens 1-aminocyclopropane-1-carboxylate synthase homolog (Arabidopsis)(non-functional) (ACCS), transcript variant X5, mRNA	Other	enzyme	AK350870	Sus scrofa mRNA, clone:TCH010047E05, expressed in trachea
three	211543	mir-4510	AC100828	Homo sapiens chromosome 15, clone RP11-184D12, complete sequence	Cytoplasm	microRNA	AK396037	Sus scrofa mRNA, clone: PBL010028G06, expressed in peripheral blood lymphocytes
three	212021	mir-302	AC115100	Homo sapiens chromosome 18, clone RP11-237L15, complete sequence	Cytoplasm	microRNA	XM_003122994	PREDICTED: Sus scrofa methyl-CpG binding domain protein 3 (MBD3), transcript variant X1, mRNA

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three	212198	DIRAS1	BC030660	Homo sapiens DIRAS family, GTP-binding RAS-like 1, mRNA (cDNA clone MGC:33391 IMAGE:4814337), complete cds	Plasma Membrane	enzyme	XM_005652819	PREDICTED: Sus scrofa DIRAS family, GTP-binding RAS-like 1 (DIRAS1), mRNA
three	212318		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CT737259	Pig DNA sequence from clone CH242-127E12 on chromosome 14, complete sequence
three	212464	LRFN1	FM206294	Cloning vector pchilGHG1			XM_005657499	PREDICTED: Sus scrofa leucine rich repeat and fibronectin type III domain containing 1 (LRFN1), transcript variant X4, mRNA
three	213015	FAM57B	AF370365	Homo sapiens FP1188 mRNA, complete cds	Cytoplasm	enzyme	AK397159	Sus scrofa mRNA, clone: PTG010109C09, expressed in pituitary gland
three	213090	LYPLA2	BC017034	Homo sapiens lysophospholipase II, mRNA (cDNA clone MGC:9106 IMAGE:3845764), complete cds	Cytoplasm	enzyme	XM_003356203	PREDICTED: Sus scrofa lysophospholipase II (LYPLA2), transcript variant X1, mRNA
three	213186	SEPT7	XM_006715810	PREDICTED: Homo sapiens septin 7 (SEPT7), transcript variant X5, mRNA	Cytoplasm	other	XM_005657776	PREDICTED: Sus scrofa septin 7 (SEPT7), transcript variant X4, mRNA
three	213200	ZNF836	NM_001102657	Homo sapiens zinc finger protein 836 (ZNF836), mRNA	Other	other	XM_005658610	PREDICTED: Sus scrofa zinc finger protein 677-like (LOC100624495), mRNA
three	213392	LGALS2	CU687385	Synthetic construct Homo sapiens gateway clone IMAGE:100021547 3 read LGALS2 mRNA			AK231447	Sus scrofa mRNA, clone:ITT010065C03, expressed in intestine
three	213567	EFTUD2	AK296367	Homo sapiens cDNA FLJ59627 complete cds, highly similar to 116 kDa U5 small nuclear ribonucleoprotein component	Nucleus	enzyme	XM_003131332	PREDICTED: Sus scrofa elongation factor Tu GTP binding domain containing 2 (EFTUD2), transcript variant 1, mRNA
three	213703	SMURF2	XM_005257585	PREDICTED: Homo sapiens SMAD specific E3 ubiquitin protein ligase 2 (SMURF2), transcript variant X1, mRNA	Cytoplasm	enzyme	CU462851	Pig DNA sequence from clone CH242-125O4 on chromosome X, complete sequence
three	213833	TRIM54	XM_005264435	PREDICTED: Homo sapiens tripartite motif containing 54 (TRIM54), transcript variant X1, mRNA	Cytoplasm	other	NM_001244359	Sus scrofa tripartite motif-containing protein 54 (MURF3), mRNA >gi 305678541 gb HM449001.1 Sus scrofa breed Tongcheng RING finger protein 3 (murf3) mRNA, complete cds
three	213925	RCN3	AF183423	Homo sapiens reticulocabin precursor mRNA, complete cds	Cytoplasm	other	XM_003127328	PREDICTED: Sus scrofa reticulocalbin 3, EF-hand calcium binding domain (RCN3), mRNA
three	213943	NAGLU	NG_011552	Homo sapiens N-acetylglucosaminidase, alpha (NAGLU), RefSeqGene on chromosome 17			XM_003131388	PREDICTED: Sus scrofa N-acetylglucosaminidase, alpha (NAGLU), mRNA

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three	213966		KC951413	Homo sapiens clone FOS_0048, complete sequence			CU694867	Pig DNA sequence from clone CH242-269H19 on chromosome 6, complete sequence
three	214226	STIP1P3	NG_022615	Homo sapiens stress-induced phosphoprotein 1 pseudogene 3 (STIP1P3) on chromosome X			XM_003353794	PREDICTED: Sus scrofa stress-induced-phosphoprotein 1 (STIP1), mRNA
three	214742	NUDCD3	not available	not available			XM_005673341	PREDICTED: Sus scrofa NudC domain containing 3 (NUDCD3), transcript variant X2, mRNA
three	214790	LIFR	NG_011817	Homo sapiens leukemia inhibitory factor receptor alpha (LIFR), RefSeqGene on chromosome 5	Plasma Membrane	transmembrane receptor	XM_005672428	PREDICTED: Sus scrofa leukemia inhibitory factor receptor alpha (LIFR), transcript variant X3, mRNA
three	214881	C1orf192	NM_001013625	Homo sapiens chromosome 1 open reading frame 192 (C1orf192), mRNA	Other	other	AK231912	Sus scrofa mRNA, clone:LNG010045C06, expressed in lung
three	215240	ABCF1	BC112923	Homo sapiens ATP-binding cassette, sub-family F (GCN20), member 1, mRNA (cDNA clone MGC:131563 IMAGE:7470309), complete cds	Cytoplasm	transporter	XM_005653454	PREDICTED: Sus scrofa ATP-binding cassette, sub-family F (GCN20), member 1 (ABCF1), transcript variant X2, mRNA
three	215311	BCAN	BC035457	Homo sapiens brevican, mRNA (cDNA clone IMAGE:4156034)	Extracellular Space	other	XM_003481432	PREDICTED: Sus scrofa brevican (BCAN), mRNA
three	215499		FM206294	Cloning vector pchilGHG1			AK345882	Sus scrofa mRNA, clone:LVR010044A12, expressed in liver
three	215971	TCRA	NG_001332	Homo sapiens T cell receptor alpha delta locus (TCRA/TCRD) on chromosome 14			XM_001929118	PREDICTED: Sus scrofa TOX high mobility group box family member 4 (TOX4), transcript variant 1, mRNA
three	216151	FMO4	XM_005245046	PREDICTED: Homo sapiens flavin containing monooxygenase 4 (FMO4), transcript variant X2, mRNA	Cytoplasm	enzyme	XM_005656648	PREDICTED: Sus scrofa flavin containing monooxygenase 4 (FMO4), transcript variant X3, mRNA
three	216158	LAMTOR2	FM206294	Cloning vector pchilGHG1			NM_001243627	Sus scrofa late endosomal/lysosomal adaptor, MAPK and MTOR activator 2 (LAMTOR2), mRNA
three	216174	UTRN	AL513184	Human DNA sequence from clone RP11-386H19 on chromosome 6, complete sequence	Plasma Membrane	transmembrane receptor	KF971862	Sus scrofa domesticus breed Min mitochondrion, complete genome
three	216235	TMEM123	NM_052932	Homo sapiens transmembrane protein 123 (TMEM123), mRNA	Plasma Membrane	other	XM_005667282	PREDICTED: Sus scrofa transmembrane protein 123 (TMEM123), mRNA
three	216246	SYNJ1	XM_005261081	PREDICTED: Homo sapiens synaptojanin 1 (SYNJ1), transcript variant X7, mRNA	Cytoplasm	phosphatase	XM_003132754	PREDICTED: Sus scrofa synaptojanin 1 (SYNJ1), transcript variant X1, mRNA
three	216342	ADCK5	FM206294	Cloning vector pchilGHG1			XM_005662813	PREDICTED: Sus scrofa aarF domain containing kinase 5 (ADCK5), transcript variant X3, mRNA

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three	216349	NCKAP5L	XM_006719525	PREDICTED: Homo sapiens NCK-associated protein 5-like (NCKAP5L), transcript variant X3, mRNA	Other	other	XM_005663847	PREDICTED: Sus scrofa NCK-associated protein 5-like (NCKAP5L), transcript variant X4, mRNA
three	216387		AC007859	Homo sapiens, clone RP11-41A1, complete sequence			XM_001925281	PREDICTED: Sus scrofa ER membrane protein complex subunit 2-like (LOC100155040), mRNA
three	216452	PPDPF	NM_024299	Homo sapiens pancreatic progenitor cell differentiation and proliferation factor (PPDPF), mRNA >gi 33876824 gb BC002531.2 Homo sapiens chromosome 20 open reading frame 149, mRNA (cDNA clone MGC:2479 IMAGE:3140372), complete cds	Other	other	AK392259	Sus scrofa mRNA, clone: HTMT10061D10, expressed in hypothalamus
three	216464	SLC8A1	XM_006712085	PREDICTED: Homo sapiens solute carrier family 8 (sodium/calcium exchanger), member 1 (SLC8A1), transcript variant X9, mRNA	Plasma Membrane	transporter	XM_003354853	PREDICTED: Sus scrofa solute carrier family 8 (sodium/calcium exchanger), member 1 (SLC8A1), transcript variant X1, mRNA
three	216566	SLC30A3	U76010	Human putative zinc transporter ZnT-3 (ZnT-3) mRNA, complete cds	Plasma Membrane	transporter	XM_003122624	PREDICTED: Sus scrofa inner centromere protein antigens 135/155kDa (INCENP), mRNA
three	216584	ULK1	NM_003565	Homo sapiens unc-51 like autophagy activating kinase 1 (ULK1), mRNA	Cytoplasm	kinase	XM_005670527	PREDICTED: Sus scrofa unc-51 like autophagy activating kinase 1 (ULK1), transcript variant X3, mRNA
three	216596	SRCIN1	XM_006722122	PREDICTED: Homo sapiens SRC kinase signaling inhibitor 1 (SRCIN1), transcript variant X6, mRNA >gi 578840435 ref XM_006725361.1 PREDICTED: Homo sapiens SRC kinase signaling inhibitor 1 (SRCIN1), transcript variant X6, mRNA	Cytoplasm	other	AK344140	Sus scrofa mRNA, clone: BKFL10070A02, expressed in back fat
three	216775	CCDC136	XM_006716091	PREDICTED: Homo sapiens coiled-coil domain containing 136 (CCDC136), transcript variant X10, mRNA	Cytoplasm	other	XM_005657767	PREDICTED: Sus scrofa coiled-coil domain containing 136 (CCDC136), transcript variant X2, mRNA
three	216807		AP003774	Homo sapiens genomic DNA, chromosome 11 clone: RP11-147G6, complete sequence			XR_309518	PREDICTED: Sus scrofa chondroitin sulfate proteoglycan 4-like (LOC100736763), misc_RNA
three	216956	MBD3	NG_029897	Homo sapiens methyl-CpG binding domain protein 3 (MBD3), RefSeqGene on chromosome 19	Nucleus	other	XM_003122994	PREDICTED: Sus scrofa methyl-CpG binding domain protein 3 (MBD3), transcript variant X1, mRNA
three	216968	HLA-J	NR_024240	Homo sapiens major histocompatibility complex, class I, J (pseudogene) (HLA-J), non-coding RNA	Other	other	AK352165	Sus scrofa mRNA, clone: UTR010015D07, expressed in uterus

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three	217054	UBA52	NM_003333	Homo sapiens ubiquitin A-52 residue ribosomal protein fusion product 1 (UBA52), transcript variant 2, mRNA	Cytoplasm	enzyme	XM_005652916	PREDICTED: Sus scrofa ubiquitin A-52 residue ribosomal protein fusion product 1 (UBA52), transcript variant X1, mRNA
three	217058	LINC00959	NR_034125	Homo sapiens long intergenic non-protein coding RNA 959 (LINC00959), long non-coding RNA	Other	other	AK236710	Sus scrofa mRNA, clone:OVRM10218G02, expressed in ovary
three	217122	AAMP	NG_033036	Homo sapiens angio-associated, migratory cell protein (AAMP), RefSeqGene on chromosome 2	Plasma Membrane	other	CT827801	Pig DNA sequence from clone CH242-209H21 on chromosome 14, complete sequence
three	217158	ZNF524	BC014666	Homo sapiens zinc finger protein 524, mRNA (cDNA clone MGC:23143 IMAGE:4864278), complete cds	Other	other	XM_005664851	PREDICTED: Sus scrofa zinc finger protein 524-like (LOC100621678), mRNA
three	217192	UGT1A9 (includ DQ364251		Homo sapiens UDP-glucuronosyltransferase 1 family polypeptide A8s (UGT1A8S) mRNA, partial cds	Cytoplasm	enzyme	XM_003133742	PREDICTED: Sus scrofa UDP glucuronosyltransferase 1 family, polypeptide A10 (UGT1A10), transcript variant 1, mRNA
three	217229	ERI3	XM_006710891	PREDICTED: Homo sapiens ERI1 exoribonuclease family member 3 (ERI3), transcript variant X8, mRNA	Plasma Membrane	other	AK396546	Sus scrofa mRNA, clone: PST010050D06, expressed in prostate
three	217298	RAB13	NR_073553	Homo sapiens RAB13, member RAS oncogene family (RAB13), transcript variant 3, long non-coding RNA	Plasma Membrane	enzyme	AK394897	Sus scrofa mRNA, clone: OVR010053G01, expressed in ovary
three	217316	ADAMDEC1	FM206294	Cloning vector pchIHGHG1			XM_003132811	PREDICTED: Sus scrofa ADAM-like, decysin 1 (ADAMDEC1), mRNA
three	217358	CCL25	NM_001201359	Homo sapiens chemokine (C-C motif) ligand 25 (CCL25), transcript variant 2, mRNA	Extracellular Space	cytokine	XM_005661259	PREDICTED: Sus scrofa chemokine (C-C motif) ligand 25 (CCL25), transcript variant X3, mRNA
three	217439	UBB	NM_001281720	Homo sapiens ubiquitin B (UBB), transcript variant 6, mRNA	Cytoplasm	enzyme	AK394470	Sus scrofa mRNA, clone: MLN010049D03, expressed in mesenteric lymph node
three	217508	IGLJ3	AB064141	Homo sapiens IGL mRNA for immunoglobulin lambda light chain VLJ region, partial cds, clone:L1	Other	other	AK233830	Sus scrofa mRNA, clone:MLN010043B11, expressed in mesenteric lymph node
three	217518	OSR2	XM_006716505	PREDICTED: Homo sapiens odd-skipped related transcription factor 2 (OSR2), transcript variant X5, mRNA	Nucleus	transcription regulator	XM_005655349	PREDICTED: Sus scrofa odd-skipped related 2 (Drosophila) (OSR2), transcript variant X2, mRNA
three	217529	THRAP3	XM_005271371	PREDICTED: Homo sapiens thyroid hormone receptor associated protein 3 (THRAP3), transcript variant X2, mRNA	Nucleus	transcription regulator	FP102115	Pig DNA sequence from clone CH242-508O11 on chromosome X, complete sequence
three	217532	CCHCR1	XM_006726004	PREDICTED: Homo sapiens coiled-coil alpha-helical rod protein 1 (CCHCR1), transcript variant X4, mRNA	Cytoplasm	other	XM_003128305	PREDICTED: Sus scrofa coiled-coil alpha-helical rod protein 1 (CCHCR1), mRNA

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three	217659		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CU469041	Pig DNA sequence from clone CH242-483E7 on chromosome 4, complete sequence
three	217675	CYP3A4	J04449	Homo sapiens (clone NF 10) cytochrome P-450 nifedipine oxidase mRNA, complete cds	Cytoplasm	enzyme	AK399559	Sus scrofa mRNA, clone: DCI010061A11, expressed in dendritic cells (immature)
three	217719		FM206294	Cloning vector pchilGHG1			AC091403	Sus scrofa clone RP44-431F19, complete sequence
three	217724	MGAT4A	NM_001160154	Homo sapiens mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase, isozyme A (MGAT4A), transcript variant 2, mRNA	Cytoplasm	enzyme	AK399578	Sus scrofa mRNA, clone: DCI010073D06, expressed in dendritic cells (immature)
three	217736	NTHL1	NM_002528	Homo sapiens nth endonuclease III-like 1 (E, coli) (NTHL1), mRNA	Nucleus	enzyme	XM_003124729	PREDICTED: Sus scrofa nth endonuclease III-like 1 (E, coli) (NTHL1), transcript variant X1, mRNA
three	218119	IGKC	BC095490	Homo sapiens immunoglobulin kappa constant, mRNA (cDNA clone IMAGE:30350264)	Extracellular Space	other	AK231507	Sus scrofa mRNA, clone:ITT010083D04, expressed in intestine
three	218156	IKZF1	JX459579	Homo sapiens IKAROS family zinc finger 1 isoform 14 (IKZF1) mRNA, complete cds, alternatively spliced	Nucleus	transcription regulator	AK239368	Sus scrofa mRNA, clone:THY010097A09, expressed in thymus
three	218166	DNM1	XM_006716994	PREDICTED: Homo sapiens dynamin 1 (DNM1), transcript variant X15, mRNA	Cytoplasm	enzyme	XM_005660470	PREDICTED: Sus scrofa dynamin 1 (DNM1), transcript variant X7, mRNA
three	218192	DEDD2	NR_073052	Homo sapiens death effector domain containing 2 (DEDD2), transcript variant 10, non-coding RNA	Nucleus	other	XR_298571	PREDICTED: Sus scrofa death effector domain containing 2 (DEDD2), transcript variant X2, misc_RNA
three	218437	ACAD9	AK024012	Homo sapiens cDNA FLJ13950 fis, clone Y79AA1001048, weakly similar to ACYL-COA DEHYDROGENASE, VERY-LONG-CHAIN SPECIFIC PRECURSOR (EC 1,3,99,-)	Cytoplasm	enzyme	XM_005657086	PREDICTED: Sus scrofa acyl-CoA dehydrogenase family, member 9 (ACAD9), mRNA
three	218648	HNRNPA1	BC075845	Homo sapiens heterogeneous nuclear ribonucleoprotein A1, mRNA (cDNA clone IMAGE:4903024), **** WARNING: chimeric clone ****			XM_005663855	PREDICTED: Sus scrofa heterogeneous nuclear ribonucleoprotein A1 (HNRNPA1), transcript variant X2, mRNA
three	218744	WRNIP1	AB209723	Homo sapiens mRNA for Werner helicase interacting protein isoform 1 variant protein	Nucleus	enzyme	XM_005665532	PREDICTED: Sus scrofa Werner helicase interacting protein 1 (WRNIP1), mRNA
three	218960	CYP2J2	NG_007931	Homo sapiens cytochrome P450, family 2, subfamily J, polypeptide 2 (CYP2J2), RefSeqGene on chromosome 1	Cytoplasm	enzyme	XR_308711	PREDICTED: Sus scrofa uncharacterized LOC100624586 (LOC100624586), misc_RNA

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three	218984	SMARCD1	XM_005269107	PREDICTED: Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 1 (SMARCD1), transcript variant X1, mRNA	Nucleus	transcription regulator	NM_001244613	Sus scrofa SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 1 (SMARCD1), mRNA >gi 288576945 dbj AK347540.1 Sus scrofa mRNA, clone:OVR010053B10, expressed in ovary
three	219019	OSR1	XM_006711942	PREDICTED: Homo sapiens odd-skipped related transcription factor 1 (OSR1), transcript variant X1, mRNA	Nucleus	other	XM_003361026	PREDICTED: Sus scrofa protein odd-skipped-related 1-like (LOC100625781), partial mRNA
three	219020	ANKRD35	NM_001280799	Homo sapiens ankyrin repeat domain 35 (ANKRD35), transcript variant 2, mRNA	Other	other	XM_003125791	PREDICTED: Sus scrofa ankyrin repeat domain 35 (ANKRD35), mRNA
three	219068	RPA1	AY599563	Homo sapiens replication protein A1, 70kDa (RPA1) gene, complete cds	Nucleus	other	XM_003131822	PREDICTED: Sus scrofa replication protein A1, 70kDa (RPA1), mRNA
three	219092		FM206294	Cloning vector pchilGHG1			XM_003132403	PREDICTED: Sus scrofa histone H1x-like (LOC100516295), mRNA
three	219152	RABIF	NM_002871	Homo sapiens RAB interacting factor (RABIF), mRNA	Other	transporter	XM_005668014	PREDICTED: Sus scrofa RAB interacting factor (RABIF), mRNA
three	219188	ALG14	NM_144988	Homo sapiens ALG14, UDP-N-acetylglucosaminyltransferase subunit (ALG14), mRNA >gi 158259812 dbj AK289395.1 Homo sapiens cDNA FLJ75238 complete cds, highly similar to Homo sapiens asparagine-linked glycosylation 14 homolog (yeast) (ALG14), mRNA	Cytoplasm	enzyme	XM_001924706	PREDICTED: Sus scrofa ALG14, UDP-N-acetylglucosaminyltransferase subunit (ALG14), transcript variant X1, mRNA
three	219404	NME4	FM206294	Cloning vector pchilGHG1			XM_005655106	PREDICTED: Sus scrofa NME/NM23 nucleoside diphosphate kinase 4 (NME4), transcript variant X1, mRNA
three	219415	HAPLN1	NM_001884	Homo sapiens hyaluronan and proteoglycan link protein 1 (HAPLN1), mRNA	Extracellular Space	other	XM_005661539	PREDICTED: Sus scrofa hyaluronan and proteoglycan link protein 1 (HAPLN1), transcript variant X2, mRNA
three	219428	PRKCZ	XM_006710768	PREDICTED: Homo sapiens protein kinase C, zeta (PRKCZ), transcript variant X5, mRNA	Cytoplasm	kinase	NM_001204374	Sus scrofa protein kinase C, zeta (PRKCZ), mRNA >gi 115550647 dbj AK232477.1 Sus scrofa mRNA, clone:LVR010052A08, expressed in liver
three	219463	PIGO	XR_242515	PREDICTED: Homo sapiens phosphatidylinositol glycan anchor biosynthesis, class O (PIGO), transcript variant X4, misc_RNA	Cytoplasm	enzyme	XM_005654519	PREDICTED: Sus scrofa phosphatidylinositol glycan anchor biosynthesis, class O (PIGO), transcript variant X4, mRNA

cluster	array id	gene symbols	HSA accession	HSA description	location	property	SSC accession	SSC description
three	219464	TPRA1	XM_006713497	PREDICTED: Homo sapiens transmembrane protein, adipocyte associated 1 (TPRA1), transcript variant X3, mRNA	Plasma Membrane	G-protein coupled receptor	XM_003358548	PREDICTED: Sus scrofa transmembrane protein adipocyte-associated 1-like (LOC100518934), mRNA
three	219492	JPH2	NM_020433	Homo sapiens junctophilin 2 (JPH2), transcript variant 1, mRNA	Cytoplasm	enzyme	XM_003134451	PREDICTED: Sus scrofa junctophilin-2-like (LOC100155350), mRNA
three	219512	NEO1	XM_005254416	PREDICTED: Homo sapiens neogenin 1 (NEO1), transcript variant X9, mRNA	Plasma Membrane	transcription regulator	XM_005656290	PREDICTED: Sus scrofa neogenin-like (LOC100510914), partial mRNA
three	219617	PAN2	NM_001127460	Homo sapiens PAN2 poly(A) specific ribonuclease subunit (PAN2), transcript variant 1, mRNA	Cytoplasm	peptidase	XM_005655619	PREDICTED: Sus scrofa PAN2 poly(A) specific ribonuclease subunit homolog (S. cerevisiae) (PAN2), transcript variant X4, mRNA
three	219620	FBLN1	NG_023308	Homo sapiens fibulin 1 (FBLN1), RefSeqGene on chromosome 22	Extracellular Space	other	XM_003125955	PREDICTED: Sus scrofa fibulin 1 (FBLN1), transcript variant X1, mRNA
three	219836	FAM83C	NM_178468	Homo sapiens family with sequence similarity 83, member C (FAM83C), mRNA	Other	other	XM_005657955	PREDICTED: Sus scrofa family with sequence similarity 83, member C (FAM83C), mRNA
three	220094	GARNL3	XM_006717302	PREDICTED: Homo sapiens GTPase activating Rap/RanGAP domain-like 3 (GARNL3), transcript variant X3, mRNA	Other	other	XM_005660437	PREDICTED: Sus scrofa GTPase activating Rap/RanGAP domain-like 3 (GARNL3), transcript variant X3, mRNA
three	220196		FM206294	Cloning vector pchilGHG1			CU151846	Pig DNA sequence from clone CH242-183K23 on chromosome 4, complete sequence
three	220236	ELN	XM_006715878	PREDICTED: Homo sapiens elastin (ELN), transcript variant X7, mRNA	Extracellular Space	other	XM_003354509	PREDICTED: Sus scrofa elastin (ELN), mRNA
three	220280		AC024566	Homo sapiens chromosome 5 clone CTD-2135M18, complete sequence			AK395301	Sus scrofa mRNA, clone: OVRM10179A08, expressed in ovary
three	220285	UBALD1	NM_145253	Homo sapiens UBA-like domain containing 1 (UBALD1), mRNA	Other	other	XM_003124631	PREDICTED: Sus scrofa UBA-like domain containing 1 (UBALD1), mRNA
three	220663	ALDH1L1	XM_006713482	PREDICTED: Homo sapiens aldehyde dehydrogenase 1 family, member L1 (ALDH1L1), transcript variant X2, mRNA	Cytoplasm	enzyme	AK232474	Sus scrofa mRNA, clone:LVR010051H05, expressed in liver
three	220891	BPIFA1	AP000354	Homo sapiens genomic DNA, chromosome 22q11,2, clone KB1674E1			XR_308742	PREDICTED: Sus scrofa BPI fold containing family A, member 1 (BPIFA1), transcript variant X3, misc_RNA
three	220903	DCAF12L2	NG_021265	Homo sapiens DDB1 and CUL4 associated factor 12-like 2 (DCAF12L2), RefSeqGene on chromosome X	Other	other	XM_003135360	PREDICTED: Sus scrofa DDB1 and CUL4 associated factor 12-like 2 (DCAF12L2), mRNA
three	220964		FM206294	Cloning vector pchilGHG1			CU407138	Pig DNA sequence from clone CH242-137P15 on chromosome 5, complete sequence

cluster	array id	gene symbols	HSA accession	HSA description	location	property	SSC accession	SSC description
three	221009	CARS	FM206294	Cloning vector pchilGHG1			XM_005660588	PREDICTED: Sus scrofa cysteinyl-tRNA synthetase (CARS), mRNA
three	221053	VPS4A	AC026474	Homo sapiens chromosome 16 clone RP11-70O5, complete sequence			XM_005655767	PREDICTED: Sus scrofa vacuolar protein sorting 4 homolog A (S, cerevisiae) (VPS4A), transcript variant X1, mRNA
three	221132	TARDBP	NG_008734	Homo sapiens TAR DNA binding protein (TARDBP), RefSeqGene on chromosome 1	Nucleus	transcription regulator	XM_005674507	PREDICTED: Sus scrofa TAR DNA binding protein (TARDBP), mRNA
three	221175	STX8	NR_033656	Homo sapiens syntaxin 8 (STX8), transcript variant 2, long non-coding RNA	Plasma Membrane	other	AK346763	Sus scrofa mRNA, clone:MLN010051C07, expressed in mesenteric lymph nodes
three	221384	PCDH1	XM_005268456	PREDICTED: Homo sapiens protocadherin 1 (PCDH1), transcript variant X5, mRNA	Plasma Membrane	other	XM_005661772	PREDICTED: Sus scrofa protocadherin 1 (PCDH1), mRNA
three	221395	GGA2	XR_429674	PREDICTED: Homo sapiens golgi-associated, gamma adaptin ear containing, ARF binding protein 2 (GGA2), transcript variant X1, misc_RNA	Cytoplasm	transporter	XM_005656770	PREDICTED: Sus scrofa golgi-associated, gamma adaptin ear containing, ARF binding protein 2 (GGA2), transcript variant X3, mRNA
three	221442	PDGFA	FM206294	Cloning vector pchilGHG1			XM_005655046	PREDICTED: Sus scrofa platelet-derived growth factor alpha polypeptide (PDGFA), transcript variant X3, mRNA
three	221480	PGA5	NM_014224	Homo sapiens pepsinogen 5, group I (pepsinogen A) (PGA5), mRNA	Extracellular Space	peptidase	XM_003122654	PREDICTED: Sus scrofa pregnancy-associated glycoprotein 2-like (LOC100522849), transcript variant X1, mRNA
four	100094	PABPC1	XM_005250861	PREDICTED: Homo sapiens poly(A) binding protein, cytoplasmic 1 (PABPC1), transcript variant X1, mRNA	Cytoplasm	translation regulator	XR_302887	PREDICTED: Sus scrofa poly(A) binding protein, cytoplasmic 1 (PABPC1), transcript variant X3, misc_RNA
four	100306	TUBA8	NG_023429	Homo sapiens tubulin, alpha 8 (TUBA8), RefSeqGene on chromosome 22	Cytoplasm	other	XM_005664135	PREDICTED: Sus scrofa tubulin, alpha 8 (TUBA8), transcript variant X2, mRNA
four	100365	VDAC2	XM_006717961	PREDICTED: Homo sapiens voltage-dependent anion channel 2 (VDAC2), transcript variant X1, mRNA	Cytoplasm	ion channel	AK351997	Sus scrofa mRNA, clone:THY010123C06, expressed in thymus
four	100449	MED31	NM_016060	Homo sapiens mediator complex subunit 31 (MED31), mRNA	Nucleus	other	XM_005669137	PREDICTED: Sus scrofa mediator complex subunit 31 (MED31), transcript variant X2, mRNA

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four	100456	HSP90AA1	NM_005348	Homo sapiens heat shock protein 90kDa alpha (cytosolic), class A member 1 (HSP90AA1), transcript variant 2, mRNA >gi 291010568 gb GQ149083.1 Homo sapiens epididymis luminal secretory protein 52 (EL52) mRNA, complete cds	Cytoplasm	enzyme	AK392141	Sus scrofa mRNA, clone: HTMT10052F11, expressed in hypothalamus
four	100487	ICT1	BC015335	Homo sapiens immature colon carcinoma transcript 1, mRNA (cDNA clone MGC:21251 IMAGE:4418983), complete cds	Cytoplasm	enzyme	NM_001244295	Sus scrofa mitochondrial ribosomal protein L58 (MRPL58), mRNA
four	100514	KIAA0196	XM_005251120	PREDICTED: Homo sapiens KIAA0196 (KIAA0196), transcript variant X1, mRNA	Cytoplasm	other	XM_005662863	PREDICTED: Sus scrofa WASH complex subunit strumpellin (KIAA0196), mRNA
four	100523	RPN2	XM_006723850	PREDICTED: Homo sapiens ribophorin II (RPN2), transcript variant X3, mRNA	Cytoplasm	enzyme	AK399150	Sus scrofa mRNA, clone: PTG010032A08, expressed in pituitary gland
four	100549	CETN2	AK311940	Homo sapiens cDNA, FLJ92207, Homo sapiens centrin, EF-hand protein, 2 (CETN2), mRNA	Nucleus	enzyme	XM_005673970	PREDICTED: Sus scrofa centrin 2 (LOC606742), mRNA
four	100563	RNF10	XM_006719717	PREDICTED: Homo sapiens ring finger protein 10 (RNF10), transcript variant X8, mRNA	Cytoplasm	enzyme	XM_003483436	PREDICTED: Sus scrofa ring finger protein 10 (RNF10), mRNA
four	100580		BC071877	Homo sapiens cDNA clone IMAGE:5087581, **** WARNING: chimeric clone ****			AK234557	Sus scrofa mRNA, clone:OVR010084G10, expressed in ovary
four	100615	UBC	AK026846	Homo sapiens cDNA: FLJ23193 fis, clone REC00306, highly similar to AF052164 Homo sapiens clone 24683 mRNA sequence	Cytoplasm	enzyme	XM_005657304	PREDICTED: Sus scrofa ubiquitin C (UBC), transcript variant X6, mRNA
four	100634	LYPLA1	XR_428339	PREDICTED: Homo sapiens lysophospholipase I (LYPLA1), transcript variant X3, misc_RNA	Cytoplasm	enzyme	XM_005653065	PREDICTED: Sus scrofa lysophospholipase I (LYPLA1), transcript variant X2, mRNA
four	100639	COPA	NM_001098398	Homo sapiens coatomer protein complex, subunit alpha (COPA), transcript variant 1, mRNA	Cytoplasm	transporter	XM_001928707	PREDICTED: Sus scrofa coatomer protein complex, subunit alpha (COPA), transcript variant 2, mRNA
four	100642	RTN4	NM_007008	Homo sapiens reticulon 4 (RTN4), transcript variant 3, mRNA	Cytoplasm	other	NM_001129963	Sus scrofa reticulon 4 (RTN4), mRNA >gi 38327589 tpg BK001795.1 TPA_inf: Sus scrofa RTN4-C (RTN4) mRNA, complete cds

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four	100671	PAFAH1B1	NM_000430	Homo sapiens platelet-activating factor acetylhydrolase 1b, regulatory subunit 1 (45kDa) (PAFAH1B1), mRNA	Cytoplasm	enzyme	NM_214250	Sus scrofa platelet-activating factor acetylhydrolase 1b, regulatory subunit 1 (45kDa) (PAFAH1B1), mRNA >gi 11276041 gb AF319658.1 AF319658.8 Sus scrofa platelet-activating factor acetylhydrolase 1b-alpha subunit mRNA, complete cds
four	100846	MTCH2	XM_006718173	PREDICTED: Homo sapiens mitochondrial carrier 2 (MTCH2), transcript variant X3, mRNA	Cytoplasm	other	AK233903	Sus scrofa mRNA, clone:MLN010064C09, expressed in mesenteric lymph node
four	100898	SH3GLB1	NM_001206653	Homo sapiens SH3-domain GRB2-like endophilin B1 (SH3GLB1), transcript variant 4, mRNA	Cytoplasm	enzyme	NM_001168421	Sus scrofa SH3-domain GRB2-like endophilin B1 (SH3GLB1), mRNA >gi 262263198 dbj AB530154.1 Sus scrofa SH3GLB1 mRNA for SH3-domain GRB2-like endophilin B1, complete cds
four	100999	ETF1	BC014269	Homo sapiens eukaryotic translation termination factor 1, mRNA (cDNA clone MGC:10451 IMAGE:3677482), complete cds	Cytoplasm	translation regulator	CT971577	Pig DNA sequence from clone CH242-239H1 on chromosome 7, complete sequence
four	101013		AC080128	Homo sapiens 3 BAC RP11-404G16 (Roswell Park Cancer Institute Human BAC Library) complete sequence			AK389833	Sus scrofa mRNA, clone: AMP010088F06, expressed in alveolar macrophage
four	101028	RIOK3	AK303938	Homo sapiens cDNA FLJ54233 complete cds, highly similar to Serine/threonine-protein kinase RIO3 (EC 2,7,11,1)	Other	kinase	AK396033	Sus scrofa mRNA, clone: PBL010025D03, expressed in peripheral blood lymphocytes
four	101104	NUP50	XM_006724103	PREDICTED: Homo sapiens nucleoporin 50kDa (NUP50), transcript variant X5, mRNA	Nucleus	transporter	XM_005658503	PREDICTED: Sus scrofa nuclear pore complex protein Nup50-like (LOC100519657), transcript variant X1, mRNA
four	101187	ANXA4	XM_006712000	PREDICTED: Homo sapiens annexin A4 (ANXA4), transcript variant X1, mRNA	Plasma Membrane	other	AK389820	Sus scrofa mRNA, clone: AMP010084A10, expressed in alveolar macrophage
four	101202	TUBA4A	XM_005246832	PREDICTED: Homo sapiens tubulin, alpha 4a (TUBA4A), transcript variant X1, mRNA	Cytoplasm	other	AK398820	Sus scrofa mRNA, clone: ITT010010A04, expressed in intestine
four	101203	UBE2L1	NG_002490	Homo sapiens ubiquitin-conjugating enzyme E2L 1 (pseudogene) (UBE2L1) on chromosome 14			AK392192	Sus scrofa mRNA, clone: HTMT10055F07, expressed in hypothalamus
four	101215	EIF2S2P4	NG_005660	Homo sapiens eukaryotic translation initiation factor 2, subunit 2 beta pseudogene 4 (EIF2S2P4) on chromosome 2			XM_001929150	PREDICTED: Sus scrofa eukaryotic translation initiation factor 2 subunit 2-like (LOC100155889), mRNA

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four	101221	BCAS2	AK222637	Homo sapiens mRNA for breast carcinoma amplified sequence 2 variant, clone: CBL04884	Nucleus	other	AY609901	Sus scrofa clone Clu_4134,scr,msk,p1,Contig1, mRNA sequence
four	101261	CEP57	XM_006718946	PREDICTED: Homo sapiens centrosomal protein 57kDa (CEP57), transcript variant X2, mRNA	Cytoplasm	other	XR_305292	PREDICTED: Sus scrofa uncharacterized LOC102163796 (LOC102163796), misc_RNA
four	101290	ZC3H14	XM_005268069	PREDICTED: Homo sapiens zinc finger CCCH-type containing 14 (ZC3H14), transcript variant X3, mRNA	Nucleus	other	XM_005666370	PREDICTED: Sus scrofa zinc finger CCCH-type containing 14 (ZC3H14), transcript variant X4, mRNA
four	101339	HSP90AA1	AK291115	Homo sapiens cDNA FLJ78691 complete cds, highly similar to Homo sapiens heat shock 90kDa protein 1, alpha (HSPCA), transcript variant 2, mRNA	Cytoplasm	enzyme	AK392141	Sus scrofa mRNA, clone: HTMT10052F11, expressed in hypothalamus
four	101350	AP2B1	XM_005257938	PREDICTED: Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), transcript variant X2, mRNA	Plasma Membrane	transporter	AK394319	Sus scrofa mRNA, clone: LVRM10167F11, expressed in liver
four	101366	UBB	NM_018955	Homo sapiens ubiquitin B (UBB), transcript variant 1, mRNA	Cytoplasm	enzyme	AK399439	Sus scrofa mRNA, clone: AMP010051A07, expressed in alveolar macrophage
four	101450	TENM1	NG_013249	Homo sapiens teneurin transmembrane protein 1 (TENM1), RefSeqGene on chromosome X			CU466524	Pig DNA sequence from clone CH242-95O23 on chromosome X, complete sequence
four	101570	SNX3	NM_003795	Homo sapiens sorting nexin 3 (SNX3), transcript variant 1, mRNA	Cytoplasm	transporter	XM_005659361	PREDICTED: Sus scrofa sorting nexin 3 (SNX3), mRNA
four	101827	KPNA2	BC146905	Homo sapiens karyopherin alpha 2 (RAG cohort 1, importin alpha 1), mRNA (cDNA clone MGC:182008 IMAGE:9056833), complete cds	Nucleus	transporter	AK399443	Sus scrofa mRNA, clone: AMP010053A12, expressed in alveolar macrophage
four	101833	COL1A2	AB384984	Synthetic construct DNA, clone: pF1KB4737, Homo sapiens COL1A2 gene for collagen alpha-2(I) chain precursor, complete cds, without stop codon, in Flexi system			NM_001243655	Sus scrofa collagen, type I, alpha 2 (COL1A2), mRNA
four	101845	ABCB1	AK308467	Homo sapiens cDNA, FLJ98508	Plasma Membrane	transporter	XM_003130205	PREDICTED: Sus scrofa ATP-binding cassette, sub-family B (MDR/TAP), member 1 (ABCB1), transcript variant 2, mRNA
four	101856	AKAP12	XM_005267234	PREDICTED: Homo sapiens A kinase (PRKA) anchor protein 12 (AKAP12), transcript variant X2, mRNA	Cytoplasm	transporter	XM_005659145	PREDICTED: Sus scrofa A kinase (PRKA) anchor protein 12 (AKAP12), transcript variant X5, mRNA
four	101882		AC254825	Homo sapiens chromosome 17 clone CH17-157L1, complete sequence			FP085547	Pig DNA sequence from clone CH242-56C19 on chromosome X, complete sequence

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four	101891	VTI1BP1	NG_022260	Homo sapiens vesicle transport through interaction with t-SNAREs 1B pseudogene 1 (VTI1BP1) on chromosome 3			AK238994	Sus scrofa mRNA, clone:THY010054C12, expressed in thymus
four	101954	MMADHC	NM_015702	Homo sapiens methylmalonic aciduria (cobalamin deficiency) cblD type, with homocystinuria (MMADHC), mRNA	Cytoplasm	other	AY609463	Sus scrofa clone Clu_12475,scr,msk,p1,Contig2, mRNA sequence
four	102065		BC013020	Homo sapiens cDNA clone IMAGE:3349652, **** WARNING: chimeric clone ****			XM_003131194	PREDICTED: Sus scrofa histone H3,3-like (LOC100521680), mRNA
four	102143	SERINC3	AK309993	Homo sapiens cDNA, FLJ17035	Cytoplasm	transporter	AK233037	Sus scrofa mRNA, clone:LVRM10071E08, expressed in liver
four	102154	TGFBR2	XM_006713316	PREDICTED: Homo sapiens transforming growth factor, beta receptor II (70/80kDa) (TGFBR2), transcript variant X1, mRNA	Plasma Membrane	kinase	FP016027	Pig DNA sequence from clone CH242-202P13 on chromosome X, complete sequence
four	102172	SMC4	XM_006713459	PREDICTED: Homo sapiens structural maintenance of chromosomes 4 (SMC4), transcript variant X1, mRNA	Nucleus	transporter	XM_005669953	PREDICTED: Sus scrofa structural maintenance of chromosomes 4 (SMC4), transcript variant X2, mRNA
four	102221	ARPP19	NM_006628	Homo sapiens cAMP-regulated phosphoprotein, 19kDa (ARPP19), mRNA	Cytoplasm	transporter	AK239939	Sus scrofa mRNA, clone:UTR010013F03, expressed in uterus
four	102251	YWHAE	NG_009233	Homo sapiens tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon (YWHAE), RefSeqGene on chromosome 17	Cytoplasm	other	AK391178	Sus scrofa mRNA, clone: CLNT10095E01, expressed in colon
four	102261	SUMO2	AK024823	Homo sapiens cDNA: FLJ21170 fis, clone CAS10946, highly similar to HSSMT3B Homo sapiens mRNA for SMT3B protein	Nucleus	enzyme	AK394578	Sus scrofa mRNA, clone: MLN010104A03, expressed in mesenteric lymph node
four	102378	ZNF852	NM_001287349	Homo sapiens zinc finger protein 852 (ZNF852), mRNA	Other	other	XM_005657071	PREDICTED: Sus scrofa zinc finger protein with KRAB and SCAN domains 7-like (LOC100626731), mRNA
four	102388	UBXN4	AK292829	Homo sapiens cDNA FLJ77280 complete cds, highly similar to Homo sapiens UBX domain containing 2 (UBXD2), mRNA	Extracellular Space	other	AK234533	Sus scrofa mRNA, clone:OVR010076H11, expressed in ovary
four	102411	UBQLN1	NG_011519	Homo sapiens ubiquilin 1 (UBQLN1), RefSeqGene on chromosome 9	Cytoplasm	other	XM_005668033	PREDICTED: Sus scrofa ubiquilin 1 (UBQLN1), transcript variant X2, mRNA
four	102430	HSD17B11	XM_006714232	PREDICTED: Homo sapiens hydroxysteroid (17-beta) dehydrogenase 11 (HSD17B11), transcript variant X1, mRNA	Cytoplasm	enzyme	AK344700	Sus scrofa mRNA, clone:DCI010112B11, expressed in dendritic cells (immature)

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four	102440	MBIP	NM_016586	Homo sapiens MAP3K12 binding inhibitory protein 1 (MBIP), transcript variant 1, mRNA	Nucleus	other	XM_003128514	PREDICTED: Sus scrofa MAP3K12 binding inhibitory protein 1 (MBIP), transcript variant X1, mRNA
four	102445	FAM213A	XM_005270221	PREDICTED: Homo sapiens family with sequence similarity 213, member A (FAM213A), transcript variant X1, mRNA	Extracellular Space	other	XM_005671142	PREDICTED: Sus scrofa chromosome 10 open reading frame 58 ortholog (C14H10orf58), transcript variant X6, mRNA
four	102450	PPP1CC	NM_002710	Homo sapiens protein phosphatase 1, catalytic subunit, gamma isozyme (PPP1CC), transcript variant 1, mRNA	Nucleus	phosphatase	AK392314	Sus scrofa mRNA, clone: HTMT10065C07, expressed in hypothalamus
four	102493	HNRNPF	NM_001098206	Homo sapiens heterogeneous nuclear ribonucleoprotein F (HNRNPF), transcript variant 5, mRNA	Nucleus	other	AK394170	Sus scrofa mRNA, clone: LVRM10071C07, expressed in liver
four	102547	POLG2	NG_013029	Homo sapiens polymerase (DNA directed), gamma 2, accessory subunit (POLG2), RefSeqGene on chromosome 17			AK391249	Sus scrofa mRNA, clone: DCI010018C02, expressed in dendritic cells (immature)
four	102563	RNF146	XM_006715571	PREDICTED: Homo sapiens ring finger protein 146 (RNF146), transcript variant X1, mRNA	Cytoplasm	enzyme	XM_003480254	PREDICTED: Sus scrofa ring finger protein 146 (RNF146), transcript variant X3, mRNA
four	102592	ODC1	NM_001287190	Homo sapiens ornithine decarboxylase 1 (ODC1), transcript variant 4, mRNA	Cytoplasm	enzyme	AB529865	Sus scrofa ODC1 mRNA for ornithine decarboxylase 1, complete cds
four	102649	C18orf21	NM_031446	Homo sapiens chromosome 18 open reading frame 21 (C18orf21), transcript variant 1, mRNA	Other	other	XM_003356410	PREDICTED: Sus scrofa chromosome 6 open reading frame, human C18orf21 (C6H18orf21), mRNA
four	102652	FBXO11	BC043258	Homo sapiens F-box protein 11, mRNA (cDNA clone IMAGE:5296581), partial cds	Cytoplasm	enzyme	AK392613	Sus scrofa mRNA, clone: HTMT10089F11, expressed in hypothalamus
four	102798	PTPLAD1	AC027220	Homo sapiens chromosome 15, clone 731_G_9, complete sequence			XM_001929134	PREDICTED: Sus scrofa protein tyrosine phosphatase-like A domain containing 1 (PTPLAD1), transcript variant 1, mRNA
four	102802	HOOK3	NM_032410	Homo sapiens hook microtubule-tethering protein 3 (HOOK3), mRNA	Cytoplasm	other	AK349591	Sus scrofa mRNA, clone:SKNB10001G12, expressed in skin
four	103174	RCAN2	AK090990	Homo sapiens cDNA FLJ33671 fis, clone BRAWH2001459, highly similar to Rattus norvegicus regulator of calcineurin 2 (Rcan2), mRNA	Other	other	CT009503	Pig DNA sequence from clone CH242-137E23 on chromosome 7, complete sequence
four	103311	COQ2	XM_005262927	PREDICTED: Homo sapiens coenzyme Q2 4-hydroxybenzoate polyprenyltransferase (COQ2), transcript variant X2, mRNA	Cytoplasm	enzyme	XM_003129357	PREDICTED: Sus scrofa coenzyme Q2 4-hydroxybenzoate polyprenyltransferase (COQ2), mRNA

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four	103498	PCK2	XM_006720157	PREDICTED: Homo sapiens phosphoenolpyruvate carboxykinase 2 (mitochondrial) (PCK2), transcript variant X2, mRNA	Cytoplasm	kinase	NM_001161753	Sus scrofa phosphoenolpyruvate carboxykinase 2 (mitochondrial) (PCK2), mRNA
four	103739	GSTM1	NM_000561	Homo sapiens glutathione S-transferase mu 1 (GSTM1), transcript variant 1, mRNA	Cytoplasm	enzyme	AK233626	Sus scrofa mRNA, clone:LVRM10191D05, expressed in liver
four	103850	GHRH	FM206294	Cloning vector pchilGHG1			XM_005672915	PREDICTED: Sus scrofa growth hormone releasing hormone (GHRH), transcript variant X1, mRNA
four	103856	CYP46A1	XM_005267274	PREDICTED: Homo sapiens cytochrome P450, family 46, subfamily A, polypeptide 1 (CYP46A1), transcript variant X1, mRNA	Cytoplasm	enzyme	XM_005666441	PREDICTED: Sus scrofa cholesterol 24-hydroxylase-like (LOC100512793), mRNA
four	103860		FM206294	Cloning vector pchilGHG1			AK345164	Sus scrofa mRNA, clone:ITT010072E04, expressed in small intestine
four	103972	HLA-B	U04244	Human MHC class I antigen HLA-B (HLA-B-0802 allele) mRNA, complete cds	Plasma Membrane	transmembrane receptor	AK399277	Sus scrofa mRNA, clone: SPL010048D11, expressed in spleen
four	104044	PSMA2	AK290654	Homo sapiens cDNA FLJ76388 complete cds, highly similar to Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2), mRNA	Cytoplasm	peptidase	XM_003360207	PREDICTED: Sus scrofa proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2), mRNA
four	104197	PRODH	NG_008226	Homo sapiens proline dehydrogenase (oxidase) 1 (PRODH), RefSeqGene on chromosome 22	Cytoplasm	enzyme	AK231562	Sus scrofa mRNA, clone:ITT010095H05, expressed in intestine
four	104230	MFAP2	NM_002403	Homo sapiens microfibrillar-associated protein 2 (MFAP2), transcript variant 2, mRNA	Extracellular Space	other	XM_003127644	PREDICTED: Sus scrofa microfibrillar-associated protein 2 (MFAP2), transcript variant X1, mRNA
four	104351	RPL18A	NM_000980	Homo sapiens ribosomal protein L18a (RPL18A), mRNA	Cytoplasm	other	XM_003123511	PREDICTED: Sus scrofa ribosomal protein L18a (RPL18A), transcript variant X1, mRNA
four	104451	HSD17B12	AK075011	Homo sapiens cDNA FLJ90530 fis, clone NT2RP4002187, highly similar to Homo sapiens hydroxysteroid (17-beta) dehydrogenase 12 (HSD17B12), mRNA	Cytoplasm	enzyme	AK233024	Sus scrofa mRNA, clone:LVRM10070C08, expressed in liver
four	104470		AB528585	Synthetic construct DNA, clone: pF1KE0200, Homo sapiens MYC gene for v-myc myelocytomatosis viral oncogene homolog, without stop codon, in Flexi system			CU468566	Pig DNA sequence from clone CH242-289H21 on chromosome 4, complete sequence
four	104532	LMNA	NM_001282626	Homo sapiens lamin A/C (LMNA), transcript variant 7, mRNA	Nucleus	other	XM_005663274	PREDICTED: Sus scrofa lamin A/C (LMNA), transcript variant X3, mRNA

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four	104580	FAU	X65923	H,sapiens fau mRNA	Cytoplasm	other	AK392123	Sus scrofa mRNA, clone: HTMT10051D06, expressed in hypothalamus
four	104626	NME7	XM_005245106	PREDICTED: Homo sapiens NME/NM23 family member 7 (NME7), transcript variant X1, mRNA	Cytoplasm	kinase	AK392662	Sus scrofa mRNA, clone: HTMT10093C09, expressed in hypothalamus
four	104687		AC008068	Homo sapiens BAC clone RP11-334F17 from 2, complete sequence			FP340301	Pig DNA sequence from clone CH242-201L14 on chromosome X, complete sequence
four	104735	BCHE	XM_005247685	PREDICTED: Homo sapiens butyrylcholinesterase (BCHE), transcript variant X1, mRNA	Plasma Membrane	enzyme	XM_003358664	PREDICTED: Sus scrofa butyrylcholinesterase (BCHE), transcript variant X1, mRNA
four	104750	REV3L	XM_006715544	PREDICTED: Homo sapiens REV3-like, polymerase (DNA directed), zeta, catalytic subunit (REV3L), transcript variant X6, mRNA	Nucleus	enzyme	XM_005659390	PREDICTED: Sus scrofa REV3-like, polymerase (DNA directed), zeta, catalytic subunit (REV3L), mRNA
four	105020	PAPSS1	AK292774	Homo sapiens cDNA FLJ76465 complete cds, highly similar to Homo sapiens 3-phosphoadenosine 5-phosphosulfate synthase 1 (PAPSS1), mRNA	Cytoplasm	enzyme	AK396711	Sus scrofa mRNA, clone: PST010078F02, expressed in prostate
four	105229	CLDN5	AK222466	Homo sapiens mRNA for claudin 5 variant, clone: adKA02848	Plasma Membrane	other	NM_001161636	Sus scrofa claudin 5 (CLDN5), mRNA >gj 227955734 gb FJ873112.1 Sus scrofa claudin 5 (CLDN5) mRNA, complete cds
four	105351	EEF1G	AK300203	Homo sapiens cDNA FLJ56389 complete cds, highly similar to Elongation factor 1-gamma	Cytoplasm	translation regulator	AK391341	Sus scrofa mRNA, clone: DCI010048F10, expressed in dendritic cells (immature)
four	200118	MZT1	NM_001071775	Homo sapiens mitotic spindle organizing protein 1 (MZT1), mRNA	Cytoplasm	other	XM_003131018	PREDICTED: Sus scrofa mitotic spindle organizing protein 1 (MZT1), mRNA
four	200132	KITLG	NM_000899	Homo sapiens KIT ligand (KITLG), transcript variant b, mRNA	Extracellular Space	growth factor	CU207339	Pig DNA sequence from clone CH242-223P6 on chromosome X, complete sequence
four	200162	PRKG1	XM_005269972	PREDICTED: Homo sapiens protein kinase, cGMP-dependent, type I (PRKG1), transcript variant X3, mRNA	Cytoplasm	kinase	XM_005674479	PREDICTED: Sus scrofa zinc finger protein 19 (ZNF19), mRNA
four	200249	NCOA1	XM_006712126	PREDICTED: Homo sapiens nuclear receptor coactivator 1 (NCOA1), transcript variant X5, mRNA	Nucleus	transcription regulator	EU346671	Sus scrofa steroid receptor coactivator 1 isoform 2 (SRC1) mRNA, complete cds, alternatively spliced
four	200299	MTMR1	XM_006724856	PREDICTED: Homo sapiens myotubularin related protein 1 (MTMR1), transcript variant X9, mRNA	Cytoplasm	phosphatase	XM_005657942	PREDICTED: Sus scrofa myotubularin related protein 1 (MTMR1), transcript variant X5, mRNA
four	200308	DSC3	NM_024423	Homo sapiens desmocollin 3 (DSC3), transcript variant Dsc3b, mRNA	Plasma Membrane	other	AK397278	Sus scrofa mRNA, clone: SKNB10047B08, expressed in skin

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four	200540	EIF3H	AC023520	Homo sapiens, clone RP11-16M22, complete sequence	Cytoplasm	other	XR_297576	PREDICTED: Sus scrofa uncharacterized LOC102162671 (LOC102162671), misc_RNA
four	200609	IRS1	NG_015830	Homo sapiens insulin receptor substrate 1 (IRS1), RefSeqGene on chromosome 2	Cytoplasm	enzyme	XM_005662993	PREDICTED: Sus scrofa regulator of microtubule dynamics 1 (RMDN1), transcript variant X3, mRNA
four	200727	CLCN3	XM_005262726	PREDICTED: Homo sapiens chloride channel, voltage-sensitive 3 (CLCN3), transcript variant X1, mRNA	Plasma Membrane	ion channel	XM_003483404	PREDICTED: Sus scrofa chloride channel, voltage-sensitive 3 (CLCN3), transcript variant X2, mRNA
four	200739	DYNC2H1	XM_006718903	PREDICTED: Homo sapiens dynein, cytoplasmic 2, heavy chain 1 (DYNC2H1), transcript variant X1, mRNA	Cytoplasm	other	CU695050	Pig DNA sequence from clone CH242-282H24 on chromosome 2, complete sequence
four	200808	NMNAT2	NM_170706	Homo sapiens nicotinamide nucleotide adenyltransferase 2 (NMNAT2), transcript variant 2, mRNA	Cytoplasm	enzyme	XM_003130367	PREDICTED: Sus scrofa nicotinamide nucleotide adenyltransferase 2 (NMNAT2), transcript variant X1, mRNA
four	200822		HG496155	TPA: Homo sapiens RP11-71N10,1 gene for long non-coding RNA OTTHUMT00000355799,1, lincRNA			CU606916	Pig DNA sequence from clone CH242-141C7 on chromosome 5, complete sequence
four	200839	DOK6	AC026585	Homo sapiens, clone RP11-17E3, complete sequence	Other	other	XR_301120	PREDICTED: Sus scrofa uncharacterized LOC102163810 (LOC102163810), misc_RNA
four	200884	MEGF11	XM_006720722	PREDICTED: Homo sapiens multiple EGF-like-domains 11 (MEGF11), transcript variant X1, mRNA	Other	other	FP102148	Pig DNA sequence from clone CH242-200J22 on chromosome X, complete sequence
four	200896		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AK395938	Sus scrofa mRNA, clone: OVRT10089G04, expressed in ovary
four	200899	DHCR24	BC004375	Homo sapiens 24-dehydrocholesterol reductase, mRNA (cDNA clone MGC:10569 IMAGE:3638639), complete cds	Cytoplasm	enzyme	NM_001243354	Sus scrofa 24-dehydrocholesterol reductase (DHCR24), mRNA
four	200923	GGH	NG_028126	Homo sapiens gamma-glutamyl hydrolase (conjugase, foylpolypolygammaglutamyl hydrolase) (GGH), RefSeqGene on chromosome 8	Cytoplasm	peptidase	XM_001926703	PREDICTED: Sus scrofa gamma-glutamyl hydrolase (conjugase, foylpolypolygammaglutamyl hydrolase) (GGH), mRNA
four	200981		AC244625	Homo sapiens BAC clone CH17-155D14 from chromosome 7, complete sequence			KF971862	Sus scrofa domesticus breed Min mitochondrion, complete genome
four	200988	AAK1	HG494120	TPA: Homo sapiens RP11-427H3,3 gene for long non-coding RNA OTTHUMT00000472126,1, lincRNA	Cytoplasm	kinase	XM_005662494	PREDICTED: Sus scrofa uncharacterized LOC100627082 (LOC100627082), mRNA

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four	201079	PCM1	XM_006716349	PREDICTED: Homo sapiens pericentriolar material 1 (PCM1), transcript variant X27, mRNA	Cytoplasm	other	XM_003134192	PREDICTED: Sus scrofa pericentriolar material 1 (PCM1), transcript variant X1, mRNA
four	201097		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CR956379	Pig DNA sequence from clone CH242-196P11 on chromosome 7, complete sequence
four	201101	SNX19	AP000824	Homo sapiens genomic DNA, chromosome 11 clone:RP11-678L3, complete sequence	Cytoplasm	transporter	CU639476	Pig DNA sequence from clone CH242-48A17 on chromosome X, complete sequence
four	201186	UMOD	XM_006721088	PREDICTED: Homo sapiens uromodulin (UMOD), transcript variant X4, mRNA	Extracellular Space	other	AK393440	Sus scrofa mRNA, clone: KDN010056F08, expressed in kidney
four	201198		DQ193231	Homo sapiens 278_5 foamy virus integration site genomic sequence			AK395517	Sus scrofa mRNA, clone: OVRT10023E02, expressed in ovary
four	201268	PLEKHA8	XM_005249898	PREDICTED: Homo sapiens pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 8 (PLEKHA8), transcript variant X2, mRNA	Extracellular Space	transporter	XM_005673281	PREDICTED: Sus scrofa pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 8 (PLEKHA8), transcript variant X2, mRNA
four	201294	MCTS1	NM_001137554	Homo sapiens malignant T cell amplified sequence 1 (MCTS1), transcript variant 2, mRNA	Cytoplasm	other	AK233082	Sus scrofa mRNA, clone:LVRM10078G11, expressed in liver
four	201354		X73004	H,sapiens EWS gene, exon 17			NM_213799	Sus scrofa blood group A transferase-like (A), mRNA >gi 3513515 gb AF050177.1 AF050177 Sus scrofa putative blood group A transferase (A) mRNA, complete cds
four	201711	GPR155	NM_001267051	Homo sapiens G protein-coupled receptor 155 (GPR155), transcript variant 4, mRNA	Plasma Membrane	G-protein coupled receptor	CU207266	Pig DNA sequence from clone CH242-467E16 on chromosome 4, complete sequence
four	201823	PARVB	NG_029743	Homo sapiens parvin, beta (PARVB), RefSeqGene on chromosome 22	Cytoplasm	other	AK236522	Sus scrofa mRNA, clone:OVRM10199H04, expressed in ovary
four	201872	TMEM67	XM_006716687	PREDICTED: Homo sapiens transmembrane protein 67 (TMEM67), transcript variant X3, mRNA	Plasma Membrane	other	XM_005662971	PREDICTED: Sus scrofa meckelin-like (LOC102157609), partial mRNA
four	202315	SLC35E3	AC124890	Homo sapiens 12 BAC RP11-450G15 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_003126366	PREDICTED: Sus scrofa solute carrier family 35, member E3 (SLC35E3), mRNA
four	202326	TMEM183A	XR_241106	PREDICTED: Homo sapiens transmembrane protein 183A (TMEM183A), transcript variant X2, misc_RNA	Other	other	AK234299	Sus scrofa mRNA, clone:OVR010041A06, expressed in ovary

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four	202551	FSCN3	NM_020369	Homo sapiens fascin actin-bundling protein 3, testicular (FSCN3), mRNA	Cytoplasm	other	XM_005673185	PREDICTED: Sus scrofa fascin homolog 3, actin-bundling protein, testicular (Strongylocentrotus purpuratus) (FSCN3), transcript variant X1, mRNA
four	202696	HNRNPA1	XR_245923	PREDICTED: Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRNPA1), transcript variant X2, misc_RNA	Nucleus	other	XM_005663854	PREDICTED: Sus scrofa heterogeneous nuclear ribonucleoprotein A1 (HNRNPA1), transcript variant X1, mRNA
four	202946	RPL36AP51	NG_010444	Homo sapiens ribosomal protein L36a pseudogene 51 (RPL36AP51) on chromosome 19			AK233333	Sus scrofa mRNA, clone:LVRM10123B12, expressed in liver
four	202982	IGSF10	XM_006713600	PREDICTED: Homo sapiens immunoglobulin superfamily, member 10 (IGSF10), transcript variant X6, mRNA	Other	other	FN677185	Sus scrofa BAC clone CHORI242_72M21_Contig41
four	203018	SLC25A16	XM_005270183	PREDICTED: Homo sapiens solute carrier family 25 (mitochondrial carrier; Graves disease autoantigen), member 16 (SLC25A16), transcript variant X3, mRNA	Cytoplasm	transporter	XM_003483489	PREDICTED: Sus scrofa solute carrier family 25 (mitochondrial carrier; Graves disease autoantigen), member 16 (SLC25A16), mRNA
four	203043	PDE10A	XM_006715321	PREDICTED: Homo sapiens phosphodiesterase 10A (PDE10A), transcript variant X1, mRNA	Cytoplasm	enzyme	XM_005659110	PREDICTED: Sus scrofa phosphodiesterase 10A (PDE10A), mRNA
four	203103	ITM2A	NG_016412	Homo sapiens integral membrane protein 2A (ITM2A), RefSeqGene on chromosome X	Plasma Membrane	other	AK392729	Sus scrofa mRNA, clone: HTMT10096G11, expressed in hypothalamus
four	203240	ING5	XR_427116	PREDICTED: Homo sapiens inhibitor of growth family, member 5 (ING5), transcript variant X4, misc_RNA	Nucleus	other	CU463080	Pig DNA sequence from clone CH242-269N20 on chromosome 18, complete sequence
four	204259	NNT	BC032370	Homo sapiens nicotinamide nucleotide transhydrogenase, mRNA (cDNA clone IMAGE:4421427), partial cds	Cytoplasm	enzyme	XM_003133930	PREDICTED: Sus scrofa nicotinamide nucleotide transhydrogenase (NNT), mRNA
four	204433	ZFAND6	XM_006720574	PREDICTED: Homo sapiens zinc finger, AN1-type domain 6 (ZFAND6), transcript variant X1, mRNA	Other	other	XM_001928180	PREDICTED: Sus scrofa zinc finger, AN1-type domain 6 (ZFAND6), transcript variant X1, mRNA
four	204439	HNRNPD	AK300149	Homo sapiens cDNA FLJ54150 complete cds, highly similar to Heterogeneous nuclear ribonucleoprotein D0	Nucleus	transcription regulator	AK389907	Sus scrofa mRNA, clone: BFLT10004F03, expressed in brain (frontal lobe)
four	204495	TIMD4	JX049980	Homo sapiens T-cell immunoglobulin and mucin domain-containing protein 4 mRNA, complete cds	Plasma Membrane	other	AK346958	Sus scrofa mRNA, clone:MLN010081H04, expressed in mesenteric lymph nodes
four	204536	SNX3	XM_005267192	PREDICTED: Homo sapiens sorting nexin 3 (SNX3), transcript variant X2, mRNA	Cytoplasm	transporter	AK231595	Sus scrofa mRNA, clone:ITT010103F05, expressed in intestine

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four	204637		AC096645	Homo sapiens chromosome 1 clone RP11-450D21, complete sequence			AY803118	Sus scrofa chromosome 17 clone pkmCon89, mRNA sequence
four	204674		AC109583	Homo sapiens chromosome 3 clone RP11-427P5, complete sequence			CU467668	Pig DNA sequence from clone CH242-13A16 on chromosome X, complete sequence
four	204721	SC5D	AF069469	Homo sapiens sterol-C5-desaturase incompletely processed mRNA	Cytoplasm	enzyme	XM_003129944	PREDICTED: Sus scrofa sterol-C5-desaturase (SC5D), mRNA
four	204771	ZC3H11A	XM_006711673	PREDICTED: Homo sapiens zinc finger CCCH-type containing 11A (ZC3H11A), transcript variant X6, mRNA	Nucleus	other	XM_005656665	PREDICTED: Sus scrofa zinc finger CCCH-type containing 11A (ZC3H11A), transcript variant X16, mRNA
four	204817	ALDOB	NG_012387	Homo sapiens aldolase B, fructose-bisphosphate (ALDOB), RefSeqGene on chromosome 9	Cytoplasm	enzyme	AK393675	Sus scrofa mRNA, clone: KDN010088H09, expressed in kidney
four	204968		AC115540	Homo sapiens BAC clone RP11-629I23 from 4, complete sequence			XR_305826	PREDICTED: Sus scrofa uncharacterized LOC100519166 (LOC100519166), transcript variant X2, misc_RNA
four	205102	CCDC62	XM_006719647	PREDICTED: Homo sapiens coiled-coil domain containing 62 (CCDC62), transcript variant X5, mRNA	Other	other	XM_005670604	PREDICTED: Sus scrofa coiled-coil domain containing 62 (CCDC62), transcript variant X2, mRNA
four	205107	ACSL6	XM_006714581	PREDICTED: Homo sapiens acyl-CoA synthetase long-chain family member 6 (ACSL6), transcript variant X3, mRNA	Cytoplasm	enzyme	XM_003354270	PREDICTED: Sus scrofa acyl-CoA synthetase long-chain family member 6 (ACSL6), transcript variant X2, mRNA
four	205166		AP003392	Homo sapiens genomic DNA, chromosome 11 clone:RP11-110I1, complete sequence			AK400318	Sus scrofa mRNA, clone: BFLT10152C08, expressed in brain (frontal lobe)
four	205220	ARRDC4	NM_183376	Homo sapiens arrestin domain containing 4 (ARRDC4), mRNA	Other	other	XM_005656327	PREDICTED: Sus scrofa arrestin domain containing 4 (ARRDC4), mRNA
four	205398	CALM1	NM_006888	Homo sapiens calmodulin 1 (phosphorylase kinase, delta) (CALM1), mRNA	Cytoplasm	other	NM_001244210	Sus scrofa calmodulin 1 (phosphorylase kinase, delta) (CALM1), mRNA
four	205406	HEATR2	AK096700	Homo sapiens cDNA FLJ39381 fis, clone PERIC2000422, highly similar to HEAT repeat-containing protein 2	Other	other	XM_005661818	PREDICTED: Sus scrofa HEAT repeat-containing protein 2-like (LOC100738140), partial mRNA
four	205514	SETDB1	XM_005245641	PREDICTED: Homo sapiens SET domain, bifurcated 1 (SETDB1), transcript variant X1, mRNA	Nucleus	enzyme	XM_005663488	PREDICTED: Sus scrofa SET domain, bifurcated 1 (SETDB1), transcript variant X3, mRNA
four	205634	GSTZ1	AC007954	Homo sapiens chromosome 14 clone RP11-493G17 and CTD-2516D11 map 14q24,3, complete sequence			XM_005656432	PREDICTED: Sus scrofa glutathione S-transferase zeta 1 (GSTZ1), transcript variant X3, mRNA
four	205764	SUMF1	NG_016225	Homo sapiens sulfatase modifying factor 1 (SUMF1), RefSeqGene on chromosome 3			AK400781	Sus scrofa mRNA, clone: PST010013B02, expressed in prostate

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four	205767	C9orf135	BC136709	Homo sapiens chromosome 9 open reading frame 135, mRNA (cDNA clone MGC:168322 IMAGE:9020699), complete cds	Other	other	XM_005654502	PREDICTED: Sus scrofa chromosome 1 open reading frame, human C9orf135 (C1H9orf135), transcript variant X5, mRNA
four	206053	AGBL2	XM_006718329	PREDICTED: Homo sapiens ATP/GTP binding protein-like 2 (AGBL2), transcript variant X11, mRNA	Cytoplasm	enzyme	XM_005660912	PREDICTED: Sus scrofa uncharacterized LOC100514151 (LOC100514151), mRNA
four	206117	AKAP12	XM_005267234	PREDICTED: Homo sapiens A kinase (PRKA) anchor protein 12 (AKAP12), transcript variant X2, mRNA	Cytoplasm	transporter	XM_005659145	PREDICTED: Sus scrofa A kinase (PRKA) anchor protein 12 (AKAP12), transcript variant X5, mRNA
four	206439		AC006026	Homo sapiens BAC clone GS1-96J14 from 7, complete sequence			EF133074	Sus scrofa clone KVL3330 microsatellite sequence
four	206536	BRD7	AC007493	Homo sapiens chromosome 16 clone RP11-21B23, complete sequence	Nucleus	transcription regulator	FP102434	Pig DNA sequence from clone CH242-204A1 on chromosome X, complete sequence
four	206621	CEP44	XM_006714328	PREDICTED: Homo sapiens centrosomal protein 44kDa (CEP44), transcript variant X4, mRNA	Cytoplasm	other	AK394664	Sus scrofa mRNA, clone: MLTL10039D06, expressed in longissimus muscle
four	206811	PRPF4B	XR_241936	PREDICTED: Homo sapiens pre-mRNA processing factor 4B (PRPF4B), transcript variant X9, misc_RNA	Nucleus	kinase	XM_005665540	PREDICTED: Sus scrofa PRP4 pre-mRNA processing factor 4 homolog B (yeast) (PRPF4B), transcript variant X1, mRNA
four	206898	COL5A2	AY016295	Homo sapiens type V procollagen alpha 2 chain (COL5A2) gene, exons 34 through 52 and partial cds; and type III procollagen alpha 1 chain (COL3A1) gene, exons 2 through 52			AK400928	Sus scrofa mRNA, clone: SKNB10063D11, expressed in skin
four	207205	TEX2	NM_001288733	Homo sapiens testis expressed 2 (TEX2), transcript variant 3, mRNA	Other	other	XM_003131281	PREDICTED: Sus scrofa testis expressed 2 (TEX2), transcript variant X1, mRNA
four	207211	BBX	XM_006713709	PREDICTED: Homo sapiens bobby sox homolog (Drosophila) (BBX), transcript variant X10, mRNA	Nucleus	other	XM_003483326	PREDICTED: Sus scrofa bobby sox homolog (Drosophila) (BBX), transcript variant X2, mRNA
four	207215	ZNF268	NM_001165884	Homo sapiens zinc finger protein 268 (ZNF268), transcript variant 6, mRNA	Nucleus	other	XM_005670505	PREDICTED: Sus scrofa zinc finger protein 268 (ZNF268), transcript variant X8, mRNA
four	207262	KRT222	BK004052	TPA_exp: Homo sapiens truncated type I keratin KA21 (KA21) gene, complete cds	Other	other	FP015882	Pig DNA sequence from clone CH242-127F11 on chromosome X, complete sequence

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four	207305	ELF2	Z70273	Human DNA sequence from clone LLOXNC01-116E7 on chromosome X Contains an E74-like factor 2 (ELF2) pseudogene, a novel gene, the 5 end of a novel gene, a solute carrier family 25 (mitochondrial oxodicarboxylate carrier) member 21 (SLC25A21) pseudogene and a CpG island, complete sequence			FP085370	Pig DNA sequence from clone CH242-209D19 on chromosome X, complete sequence
four	207446	UBE2L1	NG_002490	Homo sapiens ubiquitin-conjugating enzyme E2L 1 (pseudogene) (UBE2L1) on chromosome 14			XM_005670877	PREDICTED: Sus scrofa ubiquitin-conjugating enzyme E2L 3 (UBE2L3), transcript variant X2, mRNA
four	207447	VSIG1	NG_016264	Homo sapiens V-set and immunoglobulin domain containing 1 (VSIG1), RefSeqGene on chromosome X	Plasma Membrane	other	XM_005658775	PREDICTED: Sus scrofa V-set and immunoglobulin domain-containing protein 1-like (LOC100626662), mRNA
four	207483	GPR82	JQ308170	Homo sapiens G protein-coupled receptor 82 gene, complete cds	Plasma Membrane	G-protein coupled receptor	NM_001243706	Sus scrofa G protein-coupled receptor 82 (GPR82), mRNA
four	207600		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			FN674572	Sus scrofa contig sequence, clone KNP_1001D9_Contig24
four	208011	USP4	NM_003363	Homo sapiens ubiquitin specific peptidase 4 (proto-oncogene) (USP4), transcript variant 1, mRNA	Nucleus	peptidase	XM_005669509	PREDICTED: Sus scrofa ubiquitin specific peptidase 4 (proto-oncogene) (LOC100512072), transcript variant X5, mRNA
four	208243	WRB	XM_005261061	PREDICTED: Homo sapiens tryptophan rich basic protein (WRB), transcript variant X3, mRNA	Extracellular Space	other	XM_005670345	PREDICTED: Sus scrofa tryptophan rich basic protein (WRB), transcript variant X2, mRNA
four	208246	ARF1	AK297792	Homo sapiens cDNA FLJ51902 complete cds, highly similar to ADP-ribosylation factor 1	Cytoplasm	enzyme	XM_005661142	PREDICTED: Sus scrofa ADP-ribosylation factor 1 (ARF1), transcript variant X7, mRNA
four	208256	TM2D3	XM_005254981	PREDICTED: Homo sapiens TM2 domain containing 3 (TM2D3), transcript variant X2, mRNA	Other	other	XM_003122300	PREDICTED: Sus scrofa TM2 domain containing 3 (TM2D3), transcript variant X2, mRNA
four	208344		AC104831	Homo sapiens 3 BAC RP11-451G4 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_005663738	PREDICTED: Sus scrofa family with sequence similarity 118, member A (FAM118A), transcript variant X3, mRNA
four	208375	NSMCE2	XM_005250876	PREDICTED: Homo sapiens non-SMC element 2, MMS21 homolog (S, cerevisiae) (NSMCE2), transcript variant X2, mRNA	Nucleus	enzyme	CU856065	Pig DNA sequence from clone CH242-85110 on chromosome 2, complete sequence
four	208485	C2orf69	NM_153689	Homo sapiens chromosome 2 open reading frame 69 (C2orf69), mRNA	Other	other	XM_005674350	PREDICTED: Sus scrofa UPF0565 protein C2orf69-like (LOC102166461), mRNA

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four	208489		AC003029	Homo sapiens 12 PAC RP3-462E2 (Roswell Park Cancer institute Human PAC Library) complete sequence			XM_005657332	PREDICTED: Sus scrofa disintegrin and metalloproteinase domain-containing protein 1a-like (LOC100737404), mRNA
four	208496	CCDC176	XM_005268098	PREDICTED: Homo sapiens coiled-coil domain containing 176 (CCDC176), transcript variant X7, mRNA	Other	other	XM_005656403	PREDICTED: Sus scrofa coiled-coil domain containing 176 (CCDC176), transcript variant X3, mRNA
four	208508	KPNA2	AB527522	Synthetic construct DNA, clone: pF1KB5912, Homo sapiens KPNA2 gene for karyopherin alpha 2, without stop codon, in Flexi system			NM_001163404	Sus scrofa karyopherin alpha 2 (RAG cohort 1, importin alpha 1) (KPNA2), mRNA >gi 239923312 gb GQ166956.1 Sus scrofa karyopherin alpha 2 mRNA, complete cds
four	208580	TPK1	AC074384	Homo sapiens BAC clone RP11-374N8 from 7, complete sequence	Cytoplasm	kinase	XR_305659	PREDICTED: Sus scrofa uncharacterized LOC100524389 (LOC100524389), transcript variant X3, misc_RNA
four	208591	PPP1R36	XM_005267355	PREDICTED: Homo sapiens protein phosphatase 1, regulatory subunit 36 (PPP1R36), transcript variant X2, mRNA	Other	other	XM_001926455	PREDICTED: Sus scrofa uncharacterized protein C14orf50 homolog (C7H14orf50), mRNA
four	208634	C4orf45	BC172327	Synthetic construct Homo sapiens clone IMAGE:100069021, MGC:199032 chromosome 4 open reading frame 45 (C4orf45) mRNA, encodes complete protein	Other	other	XM_003129008	PREDICTED: Sus scrofa chromosome 8 open reading frame, human C4orf45 (C8H4orf45), transcript variant X1, mRNA
four	208636	PTCHD3	BC107139	Homo sapiens patched domain containing 3, mRNA (cDNA clone MGC:129888 IMAGE:40026539), complete cds	Other	other	XR_305914	PREDICTED: Sus scrofa patched domain-containing protein 3-like (LOC102165733), misc_RNA
four	208646	TSSK2	AB463309	Synthetic construct DNA, clone: pF1KB8726, Homo sapiens TSSK2 gene for testis-specific serine kinase 2, without stop codon, in Flexi system			NM_001287413	Sus scrofa testis-specific serine kinase 2 (TSSK2), mRNA >gi 559148877 gb KF640092.1 Sus scrofa testis-specific serine kinase 2 (TSSK2) mRNA, complete cds
four	208769	C9orf40	NM_017998	Homo sapiens chromosome 9 open reading frame 40 (C9orf40), mRNA	Other	other	XM_003121960	PREDICTED: Sus scrofa chromosome 1 open reading frame, human C9orf40 (C1H9orf40), mRNA
four	208771	ABHD2	XM_005254833	PREDICTED: Homo sapiens abhydrolase domain containing 2 (ABHD2), transcript variant X2, mRNA	Other	enzyme	XM_001925989	PREDICTED: Sus scrofa abhydrolase domain containing 2 (ABHD2), mRNA
four	208816	TTC25	NR_110662	Homo sapiens tetratricopeptide repeat domain 25 (TTC25), transcript variant 2, long non-coding RNA	Cytoplasm	other	XM_005668834	PREDICTED: Sus scrofa tetratricopeptide repeat domain 25 (TTC25), transcript variant X2, mRNA

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four	208839	DDI1	AB464506	Synthetic construct DNA, clone: pF1KB9857, Homo sapiens DDI1 gene for DDI1, DNA-damage inducible 1, homolog 1, without stop codon, in Flexi system			XM_003482610	PREDICTED: Sus scrofa DNA-damage inducible 1 homolog 1 (S, cerevisiae) (DDI1), mRNA
four	208844	DNAJC5B	NM_033105	Homo sapiens DnaJ (Hsp40) homolog, subfamily C, member 5 beta (DNAJC5B), mRNA	Other	transporter	XR_302960	PREDICTED: Sus scrofa DnaJ (Hsp40) homolog, subfamily C, member 5 beta (DNAJC5B), transcript variant X4, misc_RNA
four	208891	SLC9B1	XM_006714093	PREDICTED: Homo sapiens solute carrier family 9, subfamily B (NHA1, cation proton antiporter 1), member 1 (SLC9B1), transcript variant X2, mRNA	Plasma Membrane	other	XM_005674650	PREDICTED: Sus scrofa solute carrier family 9, subfamily B (NHA1, cation proton antiporter 1), member 1 (SLC9B1), mRNA
four	208901	LOC100506944	XM_005276236	PREDICTED: Homo sapiens chitinase-like protein PB1E7,04c-like (LOC100506944), mRNA	Nucleus	other	XM_005652381	PREDICTED: Sus scrofa uncharacterized LOC100738961 (LOC100738961), transcript variant X7, mRNA
four	208904	NXT2	NG_029691	Homo sapiens nuclear transport factor 2-like export factor 2 (NXT2), RefSeqGene on chromosome X	Nucleus	transporter	XM_005673825	PREDICTED: Sus scrofa nuclear transport factor 2-like export factor 2 (NXT2), transcript variant X3, mRNA
four	208937	C3orf30	NM_152539	Homo sapiens chromosome 3 open reading frame 30 (C3orf30), mRNA	Other	other	XM_005670194	PREDICTED: Sus scrofa chromosome 13 open reading frame, human C3orf30 (C13H3orf30), transcript variant X5, mRNA
four	208941	PDZD9	XM_006721029	PREDICTED: Homo sapiens PDZ domain containing 9 (PDZD9), transcript variant X2, mRNA	Other	other	XM_003124550	PREDICTED: Sus scrofa PDZ domain containing 9 (PDZD9), transcript variant X1, mRNA
four	208948	SKP1	NM_170679	Homo sapiens S-phase kinase-associated protein 1 (SKP1), transcript variant 2, mRNA	Nucleus	transcription regulator	AK392736	Sus scrofa mRNA, clone: HTMT10097C07, expressed in hypothalamus
four	208949	LDHC	HQ386001	Homo sapiens lactate dehydrogenase c variant 1 (LDHC) mRNA, complete cds, alternatively spliced	Cytoplasm	enzyme	JQ173121	Sus scrofa lactate dehydrogenase C isoform 1-like (LDHC) mRNA, complete sequence, alternatively spliced
four	208951	CYLC2	NM_001340	Homo sapiens cylicin, basic protein of sperm head cytoskeleton 2 (CYLC2), mRNA	Other	other	XM_005660306	PREDICTED: Sus scrofa cylicin, basic protein of sperm head cytoskeleton 2 (CYLC2), mRNA
four	208999		AC007566	Homo sapiens BAC clone CTB-10G5 from 7q21-7q22, complete sequence			XM_003357436	PREDICTED: Sus scrofa protein lifeguard 2-like (LOC100626054), mRNA
four	209025	MARCH11	NM_001102562	Homo sapiens membrane-associated ring finger (C3HC4) 11 (MARCH11), mRNA	Other	other	XM_003133851	PREDICTED: Sus scrofa membrane-associated ring finger (C3HC4) 11 (MARCH11), mRNA

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four	209028		AL133153	Human chromosome 14 DNA sequence BAC R-895M11 of library RPCI-11 from chromosome 14 of Homo sapiens (Human), complete sequence			AK395808	Sus scrofa mRNA, clone: OVRT10066D03, expressed in ovary
four	209035	TMEM190	NM_139172	Homo sapiens transmembrane protein 190 (TMEM190), mRNA >gi 17064173 gb AF442729.1 AF442729 9 Homo sapiens MDAC1 (MDAC1) mRNA, complete cds >gi 118764204 gb BC128189.1 Homo sapiens transmembrane protein 190, mRNA (cDNA clone MGC:149301 IMAGE:40113868), complete cds >gi 118764304 gb BC128190.1 Homo sapiens transmembrane protein 190, mRNA (cDNA clone MGC:149302 IMAGE:40113870), complete cds	Cytoplasm	other	NM_001038000	Sus scrofa FKBP1A-like (LOC654323), mRNA >gi 61098746 gb AY820760.1 Sus scrofa FKBP1A-like mRNA, complete cds
four	209041	HSFY1	JF432762	Synthetic construct Homo sapiens clone IMAGE:100074006 heat shock transcription factor, Y-linked 1 (HSFY1) gene, encodes complete protein	Nucleus	transcription regulator	FQ976728	Pig DNA sequence from clone WTSI_1061-70020 on chromosome Y, complete sequence
four	209047	SPAG6	XM_005252645	PREDICTED: Homo sapiens sperm associated antigen 6 (SPAG6), transcript variant X1, mRNA	Cytoplasm	other	XM_005668150	PREDICTED: Sus scrofa sperm associated antigen 6 (SPAG6), transcript variant X2, mRNA
four	209113		AC017076	Homo sapiens BAC clone RP11-439M11 from 2, complete sequence			FQ073833	Pig DNA sequence from clone CH242-268H11 on chromosome 1, complete sequence
four	209127	RAB28	NM_001017979	Homo sapiens RAB28, member RAS oncogene family (RAB28), transcript variant 1, mRNA	Plasma Membrane	enzyme	AK396301	Sus scrofa mRNA, clone: PST010005F09, expressed in prostate
four	209159	SPDL1	AY517557	Homo sapiens hypothetical rhabdomyosarcoma antigen MU-RMS-40,4A mRNA, complete cds	Nucleus	other	XM_003134063	PREDICTED: Sus scrofa spindle apparatus coiled-coil protein 1 (CCDC99), transcript variant X1, mRNA
four	209313	CEP290	XM_006719609	PREDICTED: Homo sapiens centrosomal protein 290kDa (CEP290), transcript variant X5, mRNA	Cytoplasm	transcription regulator	AK344961	Sus scrofa mRNA, clone:ITT010023C02, expressed in small intestine
four	209376	CPEB2	NM_001177383	Homo sapiens cytoplasmic polyadenylation element binding protein 2 (CPEB2), transcript variant E, mRNA	Cytoplasm	translation regulator	HM037344	Sus scrofa cytoplasmic polyadenylation element binding protein 2 variant A (CPEB2) mRNA, complete cds
four	209441	FANCM	XM_005267929	PREDICTED: Homo sapiens Fanconi anemia, complementation group M (FANCM), transcript variant X1, mRNA	Nucleus	enzyme	XM_005659931	PREDICTED: Sus scrofa Fanconi anemia, complementation group M (FANCM), transcript variant X2, mRNA

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four	209487	ADCYAP1R1	AC006466	Homo sapiens BAC clone CTA-471E18 from 7p11,2-p21, complete sequence	Plasma Membrane	G-protein coupled receptor	XR_130794	PREDICTED: Sus scrofa uncharacterized LOC100627474 (LOC100627474), misc_RNA
four	209515	ADAD1	XM_005262745	PREDICTED: Homo sapiens adenosine deaminase domain containing 1 (testis-specific) (ADAD1), transcript variant X5, mRNA	Nucleus	peptidase	XM_005666894	PREDICTED: Sus scrofa adenosine deaminase domain containing 1 (testis-specific) (ADAD1), transcript variant X4, mRNA
four	209575		AC008009	Homo sapiens 3 BAC RP11-436A20 (Roswell Park Cancer Institute Human BAC Library) complete sequence			FQ790392	Pig DNA sequence from clone CH242-19D10 on chromosome X, complete sequence
four	209899	COL1A2	NG_007405	Homo sapiens collagen, type I, alpha 2 (COL1A2), RefSeqGene (LRG_2) on chromosome 7	Extracellular Space	other	XM_005674281	PREDICTED: Sus scrofa collagen alpha 2(I) chain-like (LOC100738989), mRNA
four	209924	XBP1P1	NG_003037	Homo sapiens X-box binding protein 1 pseudogene 1 (XBP1P1) on chromosome 5			AK392484	Sus scrofa mRNA, clone: HTMT10079B12, expressed in hypothalamus
four	210194	MAGEA4	NG_013245	Homo sapiens melanoma antigen family A, 4 (MAGEA4), RefSeqGene on chromosome X	Cytoplasm	other	XM_003482330	PREDICTED: Sus scrofa MAX dimerization protein 4 (MXD4), transcript variant X1, mRNA
four	210608		BC019028	Homo sapiens cDNA clone IMAGE:4554675, **** WARNING: chimeric clone ****			AY610130	Sus scrofa clone Clu_77293,scr,msk,p1,Contig1, mRNA sequence
four	210630		FM206294	Cloning vector pchiLGHG1			AK392635	Sus scrofa mRNA, clone: HTMT10091H01, expressed in hypothalamus
four	210699	UBA52	AF348700	Homo sapiens ubiquitin A-52 residue ribosomal protein fusion product 1 (UBA52), mRNA, complete cds	Cytoplasm	enzyme	AK392700	Sus scrofa mRNA, clone: HTMT10095C04, expressed in hypothalamus
four	210989	NTMT1	NM_001286799	Homo sapiens N-terminal Xaa-Pro-Lys N-methyltransferase 1 (NTMT1), transcript variant 5, mRNA	Nucleus	enzyme	XM_005654569	PREDICTED: Sus scrofa N-terminal Xaa-Pro-Lys N-methyltransferase 1 (METTL11A), transcript variant X3, mRNA
four	211003	RAB4B-EGLN2	NR_037791	Homo sapiens RAB4B-EGLN2 readthrough (NMD candidate) (RAB4B-EGLN2), long non-coding RNA	Other	other	XM_005655854	PREDICTED: Sus scrofa egl-9 family hypoxia-inducible factor 2 (EGLN2), transcript variant X5, mRNA
four	211440	MS4A1	NG_023388	Homo sapiens membrane-spanning 4-domains, subfamily A, member 1 (MS4A1), RefSeqGene (LRG_140) on chromosome 11	Plasma Membrane	other	NM_001243394	Sus scrofa membrane-spanning 4-domains, subfamily A, member 1 (MS4A1), mRNA
four	212572	PRKCG	FM206294	Cloning vector pchiLGHG1			XM_003356041	PREDICTED: Sus scrofa protein kinase C, gamma (PRKCG), transcript variant X1, mRNA
four	213077	PALLD	NG_013376	Homo sapiens palladin, cytoskeletal associated protein (PALLD), RefSeqGene on chromosome 4			XM_003127264	PREDICTED: Sus scrofa kaptin (actin binding protein) (KPTN), mRNA

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four	213378	EIF4B	BC098437	Homo sapiens eukaryotic translation initiation factor 4B, mRNA (cDNA clone MGC:104867 IMAGE:6459393), complete cds	Cytoplasm	translation regulator	AK398835	Sus scrofa mRNA, clone: ITT010032H02, expressed in intestine
four	213961	SBF1	FO681517	Human DNA sequence from clone ABC12-46660900L7 on chromosome 22, complete sequence			NM_001206370	Sus scrofa SET binding factor 1 (SBF1), mRNA
four	214158	YEATS2	XR_427369	PREDICTED: Homo sapiens YEATS domain containing 2 (YEATS2), transcript variant X4, misc_RNA	Nucleus	transcription regulator	XM_005652353	PREDICTED: Sus scrofa YEATS domain containing 2 (YEATS2), transcript variant X3, mRNA
four	214338	UCP2	U94592	Human uncoupling protein homolog (UCPH) mRNA, complete cds	Cytoplasm	transporter	XM_005654010	PREDICTED: Sus scrofa COP9 constitutive photomorphogenic homolog subunit 3 (Arabidopsis) (COPS3), transcript variant X1, mRNA
four	214434	TPI1P4	NG_011550	Homo sapiens triosephosphate isomerase 1 pseudogene 4 (TPI1P4) on chromosome 4			AK390187	Sus scrofa mRNA, clone: BFLT10036H03, expressed in brain (frontal lobe)
four	214479	UQCC2	NM_032340	Homo sapiens ubiquinol-cytochrome c reductase complex assembly factor 2 (UQCC2), mRNA	Cytoplasm	other	NM_001243451	Sus scrofa uncharacterized protein C6orf125 homolog (C7H6orf125), mRNA
four	214797	IFT140	FM206294	Cloning vector pchILGHG1			XM_003124715	PREDICTED: Sus scrofa intraflagellar transport 140 homolog (Chlamydomonas) (IFT140), mRNA
four	215609		AP002905	Homo sapiens genomic DNA, chromosome 8q23, clone:KB1672E10			AK392876	Sus scrofa mRNA, clone: ITT010024B07, expressed in intestine
four	216390	CCL22	NM_002990	Homo sapiens chemokine (C-C motif) ligand 22 (CCL22), mRNA	Extracellular Space	cytokine	AK344316	Sus scrofa mRNA, clone:DCI010006E11, expressed in dendritic cells (immature)
four	216486	ATP13A2	XM_006710513	PREDICTED: Homo sapiens ATPase type 13A2 (ATP13A2), transcript variant X9, mRNA	Cytoplasm	transporter	XM_005665054	PREDICTED: Sus scrofa probable cation-transporting ATPase 13A2-like (LOC102165725), transcript variant X3, mRNA
four	216614	PDE10A	XM_006715321	PREDICTED: Homo sapiens phosphodiesterase 10A (PDE10A), transcript variant X1, mRNA	Cytoplasm	enzyme	XM_005659110	PREDICTED: Sus scrofa phosphodiesterase 10A (PDE10A), mRNA
four	216639	BRMS1L	XM_006720275	PREDICTED: Homo sapiens breast cancer metastasis-suppressor 1-like (BRMS1L), transcript variant X3, mRNA	Other	other	XM_001926256	PREDICTED: Sus scrofa breast cancer metastasis-suppressor 1-like (BRMS1L), mRNA
four	216665	NICN2P	NG_005534	Homo sapiens nicolin 2, pseudogene (NICN2P) on chromosome X			XM_003360722	PREDICTED: Sus scrofa nicolin 1 (NICN1), partial mRNA
four	216869		AC002467	Homo sapiens BAC clone CTA-364P16 from 7, complete sequence			XM_005665764	PREDICTED: Sus scrofa MHC class I antigen 6 (SLA-6), transcript variant X5, mRNA

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four	217088	SNX9	XM_005267015	PREDICTED: Homo sapiens sorting nexin 9 (SNX9), transcript variant X1, mRNA	Cytoplasm	transporter	XM_003353171	PREDICTED: Sus scrofa sorting nexin 9 (SNX9), transcript variant X1, mRNA
four	217097	HAPLN2	AB049061	Homo sapiens BRAL1 gene for brain link protein-1, complete cds	Extracellular Space	other	XM_003355142	PREDICTED: Sus scrofa hyaluronan and proteoglycan link protein 2 (HAPLN2), mRNA
four	217176		FM206294	Cloning vector pchilGHG1			XM_005655856	PREDICTED: Sus scrofa numb homolog (Drosophila)-like (NUMBL), mRNA
four	217227	MYO1B	AC068056	Homo sapiens BAC clone RP11-84M3 from 2, complete sequence	Cytoplasm	other	CT797454	Pig DNA sequence from clone CH242-173D7 on chromosome 7, complete sequence
four	217334	DMAP1	AK298793	Homo sapiens cDNA FLJ54124 complete cds, highly similar to DNA methyltransferase 1-associated protein 1	Nucleus	transcription regulator	NM_001243640	Sus scrofa DNA methyltransferase 1 associated protein 1 (DMAP1), mRNA >gij 115552734 dbj AK232939,1 Sus scrofa mRNA, clone:LVRM10053C08, expressed in liver
four	217417	CD200R1	BC143393	Homo sapiens CD200 receptor 1, mRNA (cDNA clone MGC:176916 IMAGE:9051899), complete cds	Plasma Membrane	other	AK230725	Sus scrofa mRNA, clone:AMP010032C06, expressed in alveolar macrophage
four	217568	ZNF358	XM_005272460	PREDICTED: Homo sapiens zinc finger protein 358 (ZNF358), transcript variant X1, mRNA	Nucleus	other	XM_005674492	PREDICTED: Sus scrofa zinc finger protein 358 (ZNF358), mRNA
four	217890	PAX5	XM_005251481	PREDICTED: Homo sapiens paired box 5 (PAX5), transcript variant X2, mRNA	Nucleus	transcription regulator	XM_003354000	PREDICTED: Sus scrofa transducin-like enhancer of split 6 (E(sp1) homolog, Drosophila) (TLE6), mRNA
four	218197	EBF1	NM_001290360	Homo sapiens early B-cell factor 1 (EBF1), transcript variant 1, mRNA	Nucleus	transcription regulator	XM_003359401	PREDICTED: Sus scrofa early B-cell factor 3 (EBF3), transcript variant X3, mRNA
four	218239	RHOJ	AF309563	Homo sapiens GTPase ARHJ mRNA, complete cds	Cytoplasm	enzyme	AK236185	Sus scrofa mRNA, clone:OVRM10162A04, expressed in ovary
four	218476	CD7	AK298096	Homo sapiens cDNA FLJ57491 complete cds, moderately similar to T-cell antigen CD7 precursor	Plasma Membrane	other	AK346550	Sus scrofa mRNA, clone:MLN010009F06, expressed in mesenteric lymph nodes
four	218727	CALM1	NM_001743	Homo sapiens calmodulin 2 (phosphorylase kinase, delta) (CALM2), mRNA	Cytoplasm	other	XM_003125163	PREDICTED: Sus scrofa calmodulin-like (LOC100522926), mRNA
four	218792	TCF7	X59871	Human TCF-1 mRNA for T cell factor 1 (splice form C)	Nucleus	transcription regulator	XR_298143	PREDICTED: Sus scrofa transcription factor 7-like (LOC100512951), misc_RNA
four	218864		FM206294	Cloning vector pchilGHG1			L36913	Pig microsatellite DNA (CA repeat)
four	219354		FM206294	Cloning vector pchilGHG1			AK392608	Sus scrofa mRNA, clone: HTMT10089D05, expressed in hypothalamus

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four	219462	EWSR1	FM206294	Cloning vector pchilGHG1			XM_005657343	PREDICTED: Sus scrofa Ewing sarcoma breakpoint region 1 (EWSR1), transcript variant X5, mRNA
four	220639	MRPS26	NM_030811	Homo sapiens mitochondrial ribosomal protein S26 (MRPS26), mRNA	Cytoplasm	other	AK231624	Sus scrofa mRNA, clone:LNG010002E09, expressed in lung
four	220748	KRT18	BC072017	Homo sapiens keratin 18, mRNA (cDNA clone MGC:88728 IMAGE:6251574), complete cds	Cytoplasm	other	XM_005652579	PREDICTED: Sus scrofa keratin 18 (KRT18), partial mRNA
four	221162	MORF4L1	AC087207	Homo sapiens chromosome 11, clone RP11-677N16, complete sequence			XM_001927741	PREDICTED: Sus scrofa mortality factor 4 like 1 (MORF4L1), transcript variant 1, mRNA
four	221322	LGALS4	NM_006149	Homo sapiens lectin, galactoside-binding, soluble, 4 (LGALS4), mRNA	Extracellular Space	other	AK391165	Sus scrofa mRNA, clone: CLNT10090C01, expressed in colon
five	100041	MYL12A	XM_005258077	PREDICTED: Homo sapiens myosin, light chain 12A, regulatory, non-sarcomeric (MYL12A), transcript variant X2, mRNA	Cytoplasm	other	NM_001044572	Sus scrofa myosin regulatory light chain 2 protein (LOC733637), transcript variant 1, mRNA
five	100171	C14orf166	NM_016039	Homo sapiens chromosome 14 open reading frame 166 (C14orf166), mRNA	Nucleus	other	AK398046	Sus scrofa mRNA, clone: TCH010076E08, expressed in trachea
five	100177	COPS4	NM_001258006	Homo sapiens COP9 signalosome subunit 4 (COPS4), transcript variant 2, mRNA	Cytoplasm	other	XM_005656564	PREDICTED: Sus scrofa COP9 constitutive photomorphogenic homolog subunit 4 (Arabidopsis) (COPS4), transcript variant X2, mRNA
five	100287	SYNM	FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			XM_003353420	PREDICTED: Sus scrofa synemin, intermediate filament protein (SYNM), mRNA
five	100328	FAM53C	NM_016605	Homo sapiens family with sequence similarity 53, member C (FAM53C), transcript variant 2, mRNA	Other	other	XM_003354290	PREDICTED: Sus scrofa family with sequence similarity 53, member C (FAM53C), transcript variant X2, mRNA
five	100393	ACADSB	AB527625	Synthetic construct DNA, clone: pF1KB3574, Homo sapiens ACADSB gene for acyl-Coenzyme A dehydrogenase, short/branched chain, without stop codon, in Flexi system			XM_001926297	PREDICTED: Sus scrofa acyl-CoA dehydrogenase, short/branched chain (ACADSB), mRNA
five	100404	SPTBN1	BC009640	Homo sapiens cDNA clone IMAGE:3897439, partial cds	Plasma Membrane	other	X91850	S,scrofa mRNA for spectrin beta protein (pAZSP 5 end)
five	100594	BRD7	AJ271881	Homo sapiens mRNA for bromodomain containing protein (BP465 gene)	Nucleus	transcription regulator	AK395749	Sus scrofa mRNA, clone: OVRT10057D10, expressed in ovary
five	100703	CFL2	NG_012740	Homo sapiens cofilin 2 (muscle) (CFL2), RefSeqGene (LRG_213) on chromosome 14	Extracellular Space	other	EU561660	Sus scrofa CFL2b variant 1 (CFL2b) mRNA, complete cds
five	100752		AP000648	Homo sapiens genomic DNA, chromosome 11 clone:CMB9-76D16, complete sequence			XR_305265	PREDICTED: Sus scrofa uncharacterized LOC102164238 (LOC102164238), misc_RNA

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five	100876	PRKRA	NM_003690	Homo sapiens protein kinase, interferon-inducible double stranded RNA dependent activator (PRKRA), transcript variant 1, mRNA	Cytoplasm	other	AK348559	Sus scrofa mRNA, clone:OVRM10203G11, expressed in ovary
five	100932	RPS3A	NM_001006	Homo sapiens ribosomal protein S3A (RPS3A), transcript variant 1, mRNA	Nucleus	other	AK231452	Sus scrofa mRNA, clone:ITT010067E09, expressed in intestine
five	100990	RPS8	HQ447510	Synthetic construct Homo sapiens clone IMAGE:100070849; CCSCB014625_01 ribosomal protein S8 (RPS8) gene, encodes complete protein	Cytoplasm	other	AK392546	Sus scrofa mRNA, clone: HTMT10085B08, expressed in hypothalamus
five	101008		AC007249	Homo sapiens BAC clone RP11-320M2 from 2, complete sequence			AK351798	Sus scrofa mRNA, clone:THY010088G10, expressed in thymus
five	101092	DIMT1	AK299480	Homo sapiens cDNA FLJ56719 complete cds, highly similar to Probable dimethyladenosine transferase (EC 2,1,1,-)	Cytoplasm	enzyme	AY609935	Sus scrofa clone Clu_4538,scr,msk,p1,Contig1, mRNA sequence
five	101255	TMEM14C	NM_001165258	Homo sapiens transmembrane protein 14C (TMEM14C), transcript variant 1, mRNA	Plasma Membrane	other	XM_005665565	PREDICTED: Sus scrofa transmembrane protein 14C (TMEM14C), mRNA
five	101265	CS	AK296249	Homo sapiens cDNA FLJ56094 complete cds, highly similar to Citrate synthase, mitochondrial precursor (EC 2,3,3,1)	Cytoplasm	enzyme	AK396408	Sus scrofa mRNA, clone: PST010024B02, expressed in prostate
five	101312	LAMB1	AB384752	Synthetic construct DNA, clone: pF1KB3109, Homo sapiens LAMB1 gene for laminin subunit beta-1 precursor, complete cds, without stop codon, in Flexi system			XM_003130269	PREDICTED: Sus scrofa laminin, beta 1 (LAMB1), transcript variant X1, mRNA
five	101354	STOML2	BC002442	Homo sapiens stomatin (EPB72)-like 2, mRNA (cDNA clone MGC:1179 IMAGE:3346384), complete cds	Plasma Membrane	other	XM_005654520	PREDICTED: Sus scrofa stomatin (EPB72)-like 2 (STOML2), mRNA
five	101369	SNRPD1	BC072427	Homo sapiens small nuclear ribonucleoprotein D1 polypeptide 16kDa, mRNA (cDNA clone MGC:87720 IMAGE:6464946), complete cds	Nucleus	other	XM_003127854	PREDICTED: Sus scrofa small nuclear ribonucleoprotein Sm D1-like (LOC100524872), transcript variant X1, mRNA
five	101416	HNRNPA2B1	NG_029680	Homo sapiens heterogeneous nuclear ribonucleoprotein A2/B1 (HNRNPA2B1), RefSeqGene on chromosome 7	Nucleus	other	XM_003133379	PREDICTED: Sus scrofa heterogeneous nuclear ribonucleoproteins A2/B1-like (LOC100511785), mRNA
five	101471	NFIA	NG_011787	Homo sapiens nuclear factor I/A (NFIA), RefSeqGene on chromosome 1	Nucleus	transcription regulator	XM_005656159	PREDICTED: Sus scrofa nuclear factor I/A (NFIA), transcript variant X3, mRNA

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five	101529	SCP2	NM_001193617	Homo sapiens sterol carrier protein 2 (SCP2), transcript variant 8, mRNA	Cytoplasm	transporter	AK399920	Sus scrofa mRNA, clone: HTMT10072H07, expressed in hypothalamus
five	101638	PDGFC	XM_006714273	PREDICTED: Homo sapiens platelet derived growth factor C (PDGFC), transcript variant X1, mRNA	Extracellular Space	growth factor	XM_003129000	PREDICTED: Sus scrofa platelet derived growth factor C (PDGFC), mRNA
five	101679	CLK1	NR_027856	Homo sapiens CDC-like kinase 1 (CLK1), transcript variant 4, non-coding RNA	Nucleus	kinase	EU435141	Sus scrofa CDC-like kinase 1 (CLK1) mRNA, complete cds, alternatively spliced
five	101879	EIF4A2	AB209021	Homo sapiens mRNA for BM-010 variant protein	Cytoplasm	translation regulator	DQ351284	Sus scrofa eukaryotic translation initiation factor 4A isoform 2 (EIF4A2) gene, complete cds
five	101883	USP33	XM_005270648	PREDICTED: Homo sapiens ubiquitin specific peptidase 33 (USP33), transcript variant X2, mRNA	Cytoplasm	peptidase	XM_005653413	PREDICTED: Sus scrofa ubiquitin specific peptidase 33 (USP33), mRNA
five	101901	CAT	X04076	Human kidney mRNA for catalase	Cytoplasm	enzyme	AK233269	Sus scrofa mRNA, clone:LVRM10115A08, expressed in liver
five	101974	CTNNAL1	NM_003798	Homo sapiens catenin (cadherin-associated protein), alpha-like 1 (CTNNAL1), transcript variant 1, mRNA	Plasma Membrane	other	XM_003353601	PREDICTED: Sus scrofa catenin (cadherin-associated protein), alpha-like 1 (CTNNAL1), transcript variant 1, mRNA
five	102013	GPBP1L1	BC068578	Homo sapiens GC-rich promoter binding protein 1-like 1, mRNA (cDNA clone IMAGE:4829660)	Other	other	AK391547	Sus scrofa mRNA, clone: DCI010110D07, expressed in dendritic cells (immature)
five	102024	MORF4L2	AK095298	Homo sapiens cDNA FLJ37979 fis, clone CTONG2010408, highly similar to TRANSCRIPTION FACTOR-LIKE PROTEIN MRGX	Nucleus	other	XM_005657898	PREDICTED: Sus scrofa mortality factor 4 like 2 (MORF4L2), transcript variant X3, mRNA
five	102025	EPS8	XM_006719057	PREDICTED: Homo sapiens epidermal growth factor receptor pathway substrate 8 (EPS8), transcript variant X3, mRNA	Plasma Membrane	peptidase	XM_005664051	PREDICTED: Sus scrofa epidermal growth factor receptor pathway substrate 8 (EPS8), transcript variant X2, mRNA
five	102027	ADAM9	NG_016335	Homo sapiens ADAM metallopeptidase domain 9 (ADAM9), RefSeqGene on chromosome 8	Plasma Membrane	peptidase	XM_001925664	PREDICTED: Sus scrofa cellular disintegrin precursor (ADAM-9), mRNA
five	102131	ITM2B	NM_021999	Homo sapiens integral membrane protein 2B (ITM2B), mRNA	Plasma Membrane	other	XM_005652339	PREDICTED: Sus scrofa integral membrane protein 2B (ITM2B), transcript variant X1, mRNA
five	102175	COL3A1	NM_000090	Homo sapiens collagen, type III, alpha 1 (COL3A1), mRNA	Extracellular Space	other	AK390703	Sus scrofa mRNA, clone: BKFL10049D04, expressed in backfat
five	102219	SAT1	NG_012929	Homo sapiens spermidine/spermine N1-acetyltransferase 1 (SAT1), RefSeqGene on chromosome X	Cytoplasm	enzyme	AK230590	Sus scrofa mRNA, clone:AMP010013D11, expressed in alveolar macrophage

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five	102244		AL391259	Human DNA sequence from clone RP11-469E19 on chromosome Xp11,4-21,2, complete sequence			XM_003356207	PREDICTED: Sus scrofa chloride intracellular channel protein 4-like (LOC100622787), mRNA
five	102412	PDE4B	NG_029038	Homo sapiens phosphodiesterase 4B, cAMP-specific (PDE4B), RefSeqGene on chromosome 1	Cytoplasm	enzyme	FN673799	Sus scrofa BAC clone KNP_1295F6
five	102567	ITGB1	BC020057	Homo sapiens integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12), mRNA (cDNA clone MGC:17220 IMAGE:3924411), complete cds	Plasma Membrane	transmembrane receptor	NM_213968	Sus scrofa integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12) (ITGB1), mRNA >gi 10336838 gb AF192528.1 AF192528.1 Sus scrofa integrin beta-1 subunit (CD29) mRNA, complete cds
five	102580	SERPINA5	AK298279	Homo sapiens cDNA FLJ55124 complete cds, highly similar to Plasma serine protease inhibitor precursor	Extracellular Space	other	XM_005666421	PREDICTED: Sus scrofa serpin peptidase inhibitor, clade A (alpha-1 antitrypsin), member 5 (SERPINA5), transcript variant X3, mRNA
five	102672	CYB5A	NM_148923	Homo sapiens cytochrome b5 type A (microsomal) (CYB5A), transcript variant 1, mRNA	Cytoplasm	enzyme	AK236522	Sus scrofa mRNA, clone:OVRM10199H04, expressed in ovary
five	102723	FGB	NM_001184741	Homo sapiens fibrinogen beta chain (FGB), transcript variant 2, mRNA	Extracellular Space	other	XR_135291	PREDICTED: Sus scrofa fibrinogen beta chain-like (LOC100739222), misc_RNA
five	102757	PBLD	XM_005270028	PREDICTED: Homo sapiens phenazine biosynthesis-like protein domain containing (PBLD), transcript variant X1, mRNA	Cytoplasm	enzyme	AK345190	Sus scrofa mRNA, clone:ITT010078A06, expressed in small intestine
five	102759	RNF38	AK025466	Homo sapiens cDNA: FLJ21813 fis, clone HEP01047	Nucleus	enzyme	XM_005660247	PREDICTED: Sus scrofa ring finger protein 38 (RNF38), transcript variant X10, mRNA
five	103021	HSD17B13	NM_178135	Homo sapiens hydroxysteroid (17-beta) dehydrogenase 13 (HSD17B13), transcript variant A, mRNA	Extracellular Space	enzyme	NM_001243622	Sus scrofa hydroxysteroid (17-beta) dehydrogenase 13 (HSD17B13), mRNA >gi 115552604 dbj AK232809.1 Sus scrofa mRNA, clone:LVRM10030B09, expressed in liver
five	103456	FABP1	NM_001443	Homo sapiens fatty acid binding protein 1, liver (FABP1), mRNA	Cytoplasm	transporter	AY960623	Sus scrofa liver fatty acid binding protein (FABP) mRNA, complete cds
five	103491	PTK2B	XM_005273448	PREDICTED: Homo sapiens protein tyrosine kinase 2 beta (PTK2B), transcript variant X2, mRNA	Cytoplasm	kinase	XM_003132818	PREDICTED: Sus scrofa protein tyrosine kinase 2 beta (PTK2B), transcript variant X2, mRNA
five	103563	STAT5B	U48730	Homo sapiens transcription factor Stat5b (stat5b) mRNA, complete cds	Nucleus	transcription regulator	XM_005668817	PREDICTED: Sus scrofa signal transducer and activator of transcription 5B (STAT5B), transcript variant X2, mRNA

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five	103571	ECH1	XM_005258610	PREDICTED: Homo sapiens enoyl CoA hydratase 1, peroxisomal (ECH1), transcript variant X1, mRNA	Cytoplasm	enzyme	AK389559	Sus scrofa mRNA, clone: ADR010094F09, expressed in adrenal gland
five	103587	PSME3	NM_005789	Homo sapiens proteasome (prosome, macropain) activator subunit 3 (PA28 gamma; Ki) (PSME3), transcript variant 1, mRNA	Cytoplasm	peptidase	AK234898	Sus scrofa mRNA, clone: OVRM10027H06, expressed in ovary
five	103700	BAG1	NM_004323	Homo sapiens BCL2-associated athanogene (BAG1), transcript variant 1, mRNA >gij288915526 ref NM_001172415,1 Homo sapiens BCL2-associated athanogene (BAG1), transcript variant 1, mRNA	Cytoplasm	other	NM_001244791	Sus scrofa BCL2-associated athanogene (BAG1), mRNA >gij288778808 dbj AK348633,1 Sus scrofa mRNA, clone: OVRM10219A04, expressed in ovary
five	103875	HLA-DRB1	BC024269	Homo sapiens major histocompatibility complex, class II, DR beta 1, mRNA (cDNA clone MGC:39133 IMAGE:4852401), complete cds	Cytoplasm	other	AY135578	Sus scrofa clone SSC16A03 MHC class II antigen (SLA-DRB) mRNA, SLA-DRB*C16A03 allele, complete cds
five	103919	NR1D1	NG_033084	Homo sapiens nuclear receptor subfamily 1, group D, member 1 (NR1D1), RefSeqGene on chromosome 17	Nucleus	ligand-dependent nuclear receptor	AJ005798	Sus scrofa mRNA for thyroid hormone receptor alpha 2 (c-erbA-alpha 2)
five	104242	ZNF143	NM_003442	Homo sapiens zinc finger protein 143 (ZNF143), transcript variant 1, mRNA	Nucleus	transcription regulator	AK351532	Sus scrofa mRNA, clone: THY010030H04, expressed in thymus
five	104374	ACTG2	AK312955	Homo sapiens cDNA, FLJ93411, Homo sapiens actin, gamma 2, smooth muscle, enteric (ACTG2), mRNA	Cytoplasm	other	AK393030	Sus scrofa mRNA, clone: ITT010071C04, expressed in intestine
five	104399	GRK6	NM_001004105	Homo sapiens G protein-coupled receptor kinase 6 (GRK6), transcript variant 3, mRNA	Plasma Membrane	kinase	AK392194	Sus scrofa mRNA, clone: HTMT10055G08, expressed in hypothalamus
five	104463	EIF3F	NM_003754	Homo sapiens eukaryotic translation initiation factor 3, subunit F (EIF3F), mRNA	Cytoplasm	translation regulator	AK345709	Sus scrofa mRNA, clone: LNG010091D11, expressed in lung
five	104578	MCAM	XM_005271551	PREDICTED: Homo sapiens melanoma cell adhesion molecule (MCAM), transcript variant X1, mRNA	Plasma Membrane	other	XM_005667431	PREDICTED: Sus scrofa melanoma cell adhesion molecule (MCAM), transcript variant X4, mRNA
five	104895	MTM1	XM_006724822	PREDICTED: Homo sapiens myotubularin 1 (MTM1), transcript variant X5, mRNA	Cytoplasm	phosphatase	XM_005657938	PREDICTED: Sus scrofa myotubularin 1 (MTM1), transcript variant X2, mRNA
five	104908	ENY2	NR_036472	Homo sapiens enhancer of yellow 2 homolog (Drosophila) (ENY2), transcript variant 4, non-coding RNA	Nucleus	transcription regulator	XM_003481358	PREDICTED: Sus scrofa enhancer of yellow 2 transcription factor homolog (LOC100739513), transcript variant X2, mRNA

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five	105231	KLF7	NM_001270944	Homo sapiens Kruppel-like factor 7 (ubiquitous) (KLF7), transcript variant 4, mRNA	Nucleus	transcription regulator	AK237548	Sus scrofa mRNA, clone:SPL010059F12, expressed in spleen
five	105276	CNOT1	NR_049763	Homo sapiens CCR4-NOT transcription complex, subunit 1 (CNOT1), transcript variant 4, long non-coding RNA	Cytoplasm	other	XM_005664404	PREDICTED: Sus scrofa CCR4-NOT transcription complex, subunit 1 (CNOT1), transcript variant X5, mRNA
five	105334	KIAA0020	AK225953	Homo sapiens mRNA for KIAA0020 isoform 1 variant, clone: FCC114H06	Nucleus	other	XM_005660136	PREDICTED: Sus scrofa KIAA0020 ortholog (KIAA0020), transcript variant X3, mRNA
five	105374	PDLIM1	NM_020992	Homo sapiens PDZ and LIM domain 1 (PDLIM1), mRNA	Cytoplasm	transcription regulator	XM_003483534	PREDICTED: Sus scrofa PDZ and LIM domain 1 (PDLIM1), mRNA
five	200143	ZNF770	NM_014106	Homo sapiens zinc finger protein 770 (ZNF770), mRNA	Other	other	XM_003121632	PREDICTED: Sus scrofa zinc finger protein 770-like (LOC100514616), mRNA
five	200197	DUSP12	FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			XM_003361344	PREDICTED: Sus scrofa dual specificity phosphatase 12 (DUSP12), mRNA
five	200228	ZUFSP	NM_145062	Homo sapiens zinc finger with UFM1-specific peptidase domain (ZUFSP), mRNA	Other	other	NM_001243033	Sus scrofa zinc finger with UFM1-specific peptidase domain (ZUFSP), mRNA
five	200330	ACAP2	XM_006713557	PREDICTED: Homo sapiens ArfGAP with coiled-coil, ankyrin repeat and PH domains 2 (ACAP2), transcript variant X1, mRNA	Nucleus	other	XM_003358759	PREDICTED: Sus scrofa ArfGAP with coiled-coil, ankyrin repeat and PH domains 2 (ACAP2), mRNA
five	200456	INO80C	XM_005258197	PREDICTED: Homo sapiens INO80 complex subunit C (INO80C), transcript variant X3, mRNA	Nucleus	other	XM_003356408	PREDICTED: Sus scrofa INO80 complex subunit C (INO80C), mRNA
five	200468	ENPP5	NG_033986	Homo sapiens ectonucleotide pyrophosphatase/phosphodiesterase 5 (putative) (ENPP5), RefSeqGene on chromosome 6	Extracellular Space	enzyme	CT009503	Pig DNA sequence from clone CH242-137E23 on chromosome 7, complete sequence
five	200530		AC009362	Homo sapiens chromosome 7 clone RP11-256C6, complete sequence			AK394589	Sus scrofa mRNA, clone: MLTL10005H06, expressed in longissimus muscle
five	201350	LCT	X07994	Human mRNA for lactase-phlorizin hydrolase LPH (EC 3,2,1,23-62)	Plasma Membrane	enzyme	XM_005654162	PREDICTED: Sus scrofa lactase-phlorizin hydrolase-like (LOC100625807), partial mRNA
five	201362	IGSF6	NM_005849	Homo sapiens immunoglobulin superfamily, member 6 (IGSF6), mRNA	Plasma Membrane	transmembrane receptor	XM_005655100	PREDICTED: Sus scrofa immunoglobulin superfamily, member 6 (IGSF6), transcript variant X1, mRNA
five	201460	DQX1	NM_133637	Homo sapiens DEAQ box RNA-dependent ATPase 1 (DQX1), mRNA	Other	enzyme	XM_003125016	PREDICTED: Sus scrofa ATP-dependent RNA helicase DQX1-like (LOC100518366), mRNA

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five	201757	EARS2	NG_027752	Homo sapiens glutamyl-tRNA synthetase 2, mitochondrial (EARS2), RefSeqGene on chromosome 16			XR_299096	PREDICTED: Sus scrofa glutamyl-tRNA synthetase 2, mitochondrial (EARS2), transcript variant X2, misc_RNA
five	202028	CD9	NM_001769	Homo sapiens CD9 molecule (CD9), mRNA	Plasma Membrane	other	XM_005653164	PREDICTED: Sus scrofa CD9 antigen-like (LOC100623380), mRNA
five	202063	C2	NG_011730	Homo sapiens complement component 2 (C2), RefSeqGene (LRG_26) on chromosome 6	Extracellular Space	peptidase	CU694867	Pig DNA sequence from clone CH242-269H19 on chromosome 6, complete sequence
five	202166	FOSL2	XM_006711977	PREDICTED: Homo sapiens FOS-like antigen 2 (FOSL2), transcript variant X3, mRNA	Nucleus	transcription regulator	XM_003354883	PREDICTED: Sus scrofa fos-related antigen 2-like (LOC100623777), mRNA
five	202214		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AK400542	Sus scrofa mRNA, clone: KDN010080H06, expressed in kidney
five	202226	TBC1D14	XM_006713896	PREDICTED: Homo sapiens TBC1 domain family, member 14 (TBC1D14), transcript variant X5, mRNA	Extracellular Space	other	XM_005656495	PREDICTED: Sus scrofa TBC1 domain family, member 14 (TBC1D14), transcript variant X6, mRNA
five	202230	PSMG4	NM_001128591	Homo sapiens proteasome (prosome, macropain) assembly chaperone 4 (PSMG4), transcript variant 2, mRNA	Other	transcription regulator	XM_001927667	PREDICTED: Sus scrofa proteasome (prosome, macropain) assembly chaperone 4 (PSMG4), mRNA
five	202243	RRS1	BC001811	Homo sapiens RRS1 ribosome biogenesis regulator homolog (S, cerevisiae), mRNA (cDNA clone MGC:2755 IMAGE:2824034), complete cds	Nucleus	other	AY610063	Sus scrofa clone Clu_61614,scr,msk,p1,Contig1, mRNA sequence
five	202352	SMCO2	NM_001145010	Homo sapiens single-pass membrane protein with coiled-coil domains 2 (SMCO2), mRNA	Other	other	XM_005664031	PREDICTED: Sus scrofa single-pass membrane protein with coiled-coil domains 2 (SMCO2), transcript variant X4, mRNA
five	202424	ZNF25	BC036038	Homo sapiens zinc finger protein 25, mRNA (cDNA clone MGC:33240 IMAGE:5272655), complete cds	Nucleus	other	XM_005670993	PREDICTED: Sus scrofa zinc finger protein 25 (ZNF25), transcript variant X2, mRNA
five	202544	PDE10A	XM_006715321	PREDICTED: Homo sapiens phosphodiesterase 10A (PDE10A), transcript variant X1, mRNA	Cytoplasm	enzyme	XM_005659110	PREDICTED: Sus scrofa phosphodiesterase 10A (PDE10A), mRNA
five	202663	C2orf15	NM_144706	Homo sapiens chromosome 2 open reading frame 15 (C2orf15), mRNA >gi 33879131 gb BC021264.2 Homo sapiens chromosome 2 open reading frame 15, mRNA (cDNA clone MGC:29762 IMAGE:4542657), complete cds	Other	other	AK233592	Sus scrofa mRNA, clone:LVRM10181G09, expressed in liver
five	202700	INPP1	XM_006712498	PREDICTED: Homo sapiens inositol polyphosphate-1-phosphatase (INPP1), transcript variant X2, mRNA	Cytoplasm	phosphatase	XM_005672033	PREDICTED: Sus scrofa inositol polyphosphate-1-phosphatase (INPP1), transcript variant X2, mRNA

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five	202712	RAB35	BC015931	Homo sapiens RAB35, member RAS oncogene family, mRNA (cDNA clone MGC:8924 IMAGE:3907209), complete cds	Cytoplasm	enzyme	AK239158	Sus scrofa mRNA, clone:THY010069B04, expressed in thymus
five	202732	ANGPTL4	NM_001039667	Homo sapiens angiopoietin-like 4 (ANGPTL4), transcript variant 3, mRNA	Extracellular Space	other	XM_005654765	PREDICTED: Sus scrofa angiopoietin-like 4 (ANGPTL4), transcript variant X1, mRNA
five	202795	SF3B2	XM_005273726	PREDICTED: Homo sapiens splicing factor 3b, subunit 2, 145kDa (SF3B2), transcript variant X1, mRNA	Nucleus	other	XM_005660668	PREDICTED: Sus scrofa splicing factor 3b, subunit 2, 145kDa (SF3B2), transcript variant X4, mRNA
five	202891		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AK396789	Sus scrofa mRNA, clone: PST010091G06, expressed in prostate
five	202947	PID1	AC006375	Homo sapiens BAC clone RP11-362A15 from 2, complete sequence	Cytoplasm	other	CR974431	Pig DNA sequence from clone CH242-511J12 on chromosome 17, complete sequence
five	202983	CEP89	XM_005259345	PREDICTED: Homo sapiens centrosomal protein 89kDa (CEP89), transcript variant X3, mRNA	Cytoplasm	other	XM_005655810	PREDICTED: Sus scrofa centrosomal protein 89kDa (CEP89), transcript variant X6, mRNA
five	202999	C15orf57	NM_001080792	Homo sapiens chromosome 15 open reading frame 57 (C15orf57), transcript variant 3, mRNA	Other	other	AK239441	Sus scrofa mRNA, clone:THY010104G12, expressed in thymus
five	203273	RAB39B	NG_012626	Homo sapiens RAB39B, member RAS oncogene family (RAB39B), RefSeqGene on chromosome X	Plasma Membrane	enzyme	XM_003135517	PREDICTED: Sus scrofa RAB39B, member RAS oncogene family (RAB39B), mRNA
five	203275		AC018754	Homo sapiens chromosome 5 clone CTC-428H11, complete sequence			CU633273	Pig DNA sequence from clone CH242-313H19 on chromosome X, complete sequence
five	203283	PLAG1	NG_023310	Homo sapiens pleiomorphic adenoma gene 1 (PLAG1), RefSeqGene on chromosome 8	Nucleus	transcription regulator	CR974432	Pig DNA sequence from clone PigE-204L22 on chromosome 6, complete sequence
five	203348	NUP160	XM_006718170	PREDICTED: Homo sapiens nucleoporin 160kDa (NUP160), transcript variant X1, mRNA	Nucleus	transporter	CU607014	Pig DNA sequence from clone CH242-405P18 on chromosome 2, complete sequence
five	203367	CNTN4	XM_006713004	PREDICTED: Homo sapiens contactin 4 (CNTN4), transcript variant X2, mRNA	Plasma Membrane	enzyme	XM_005669733	PREDICTED: Sus scrofa contactin 4 (CNTN4), partial mRNA
five	203384	FOXG1	NM_005249	Homo sapiens forkhead box G1 (FOXG1), mRNA	Nucleus	transcription regulator	CU928845	Pig DNA sequence from clone CH242-521K21 on chromosome X, complete sequence
five	203416	GRIA2	NM_001083620	Homo sapiens glutamate receptor, ionotropic, AMPA 2 (GRIA2), transcript variant 3, mRNA	Plasma Membrane	ion channel	XM_005656505	PREDICTED: Sus scrofa glutamate receptor, ionotropic, AMPA 2 (GRIA2), transcript variant X5, mRNA
five	204135	SIKE1	NR_049742	Homo sapiens suppressor of IKBKE 1 (SIKE1), transcript variant 4, long non-coding RNA	Cytoplasm	other	CT737281	Pig DNA sequence from clone CH242-102G9 on chromosome 7, complete sequence

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five	204355	ITGB1	BC020057	Homo sapiens integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12), mRNA (cDNA clone MGC:17220 IMAGE:3924411), complete cds	Plasma Membrane	transmembrane receptor	NM_213968	Sus scrofa integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12) (ITGB1), mRNA >gi 10336838 gb AF192528.1 AF192528.8 Sus scrofa integrin beta-1 subunit (CD29) mRNA, complete cds
five	204619	CYB5A	AK026310	Homo sapiens cDNA: FLJ22657 fis, clone HSI07791, highly similar to HUMCYB5 Human cytochrome b5 mRNA	Cytoplasm	enzyme	AY609822	Sus scrofa clone Clu_3292,scr,msk,p1,Contig4, mRNA sequence
five	204625	CCDC152	NM_001134848	Homo sapiens coiled-coil domain containing 152 (CCDC152), mRNA	Other	other	AK344476	Sus scrofa mRNA, clone:DCI010060D06, expressed in dendritic cells (immature)
five	204708	PIK3C2G	FM206294	Cloning vector pchiLGHG1			XM_003126450	PREDICTED: Sus scrofa phosphatidylinositol-4-phosphate 3-kinase, catalytic subunit type 2 gamma (PIK3C2G), mRNA
five	204857		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AK393991	Sus scrofa mRNA, clone: LVR010031A12, expressed in liver
five	205177	GEN1	XM_006712006	PREDICTED: Homo sapiens GEN1 Holliday junction 5 flap endonuclease (GEN1), transcript variant X4, mRNA	Cytoplasm	enzyme	XM_005655265	PREDICTED: Sus scrofa GEN1 Holliday junction 5 flap endonuclease (GEN1), transcript variant X3, mRNA
five	205531	CCDC88A	NG_031944	Homo sapiens coiled-coil domain containing 88A (CCDC88A), RefSeqGene on chromosome 2	Cytoplasm	other	XM_005662552	PREDICTED: Sus scrofa coiled-coil domain containing 88A (CCDC88A), mRNA
five	205600		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CU915478	Pig DNA sequence from clone CH242-29L4 on chromosome X, complete sequence
five	205603	TATDN2	EU789553	Homo sapiens clone TATDN2-T1 TATDN2/GHRLOS fusion mRNA, complete sequence			XR_306903	PREDICTED: Sus scrofa TatD DNase domain containing 2 (TATDN2), transcript variant X3, misc_RNA
five	205672		AC040977	Homo sapiens chromosome 17, clone RP11-589P10, complete sequence			AK347798	Sus scrofa mRNA, clone:OVR010100C08, expressed in ovary
five	205841	ZNF77	BC043354	Homo sapiens zinc finger protein 77, mRNA (cDNA clone MGC:49956 IMAGE:6014754), complete cds	Nucleus	other	XM_003123028	PREDICTED: Sus scrofa zinc finger protein 77-like (LOC100516179), mRNA
five	206059	PTBP3	XM_006717346	PREDICTED: Homo sapiens polypyrimidine tract binding protein 3 (PTBP3), transcript variant X5, mRNA	Nucleus	other	XM_005660329	PREDICTED: Sus scrofa polypyrimidine tract binding protein 3 (ROD1), transcript variant X1, mRNA
five	206130		AC226135	Homo sapiens FOSMID clone ABC13-47674200A7 from chromosome 1, complete sequence			NM_001038000	Sus scrofa FKBP1A-like (LOC654323), mRNA >gi 61098746 gb AY820760.1 Sus scrofa FKBP1A-like mRNA, complete cds

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five	206403	FASTKD2	NG_008984	Homo sapiens FAST kinase domains 2 (FASTKD2), RefSeqGene on chromosome 2	Cytoplasm	other	XM_005672125	PREDICTED: Sus scrofa FAST kinase domains 2 (FASTKD2), transcript variant X2, mRNA
five	206428	PPARGC1A	XM_005248134	PREDICTED: Homo sapiens peroxisome proliferator-activated receptor gamma, coactivator 1 alpha (PPARGC1A), transcript variant X5, mRNA	Nucleus	transcription regulator	EU088376	Sus scrofa peroxisome proliferator-activated receptor gamma coactivator 1 alpha (PPARGC1A) gene, exons 1 and 13, promoter region and partial cds
five	206648	PIN4	NG_016328	Homo sapiens protein (peptidylprolyl cis/trans isomerase) NIMA-interacting, 4 (parvulin) (PIN4), RefSeqGene on chromosome X			AK391214	Sus scrofa mRNA, clone: DCI010008F10, expressed in dendritic cells (immature)
five	206693	SMARCA2	NM_001289400	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 (SMARCA2), transcript variant 7, mRNA	Nucleus	transcription regulator	XM_005660138	PREDICTED: Sus scrofa SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 (SMARCA2), mRNA
five	206896	GLG1	NR_027265	Homo sapiens golgi glycoprotein 1 (GLG1), transcript variant 5, long non-coding RNA	Cytoplasm	other	XM_005664351	PREDICTED: Sus scrofa golgi glycoprotein 1 (GLG1), transcript variant X3, mRNA
five	206930		AC083902	Homo sapiens BAC clone RP11-766F14 from 4, complete sequence			XR_297508	PREDICTED: Sus scrofa uncharacterized LOC102162335 (LOC102162335), misc_RNA
five	207031	RBMS3	XM_005265065	PREDICTED: Homo sapiens RNA binding motif, single stranded interacting protein 3 (RBMS3), transcript variant X6, mRNA	Other	other	CU151871	Pig DNA sequence from clone CH242-290E19 on chromosome 4, complete sequence
five	207117	TBK1	XM_005268810	PREDICTED: Homo sapiens TANK-binding kinase 1 (TBK1), transcript variant X2, mRNA	Cytoplasm	kinase	XR_300440	PREDICTED: Sus scrofa uncharacterized LOC100622970 (LOC100622970), misc_RNA
five	207208	PFKFB3	BC042656	Homo sapiens, clone IMAGE:4776440, mRNA	Cytoplasm	kinase	XR_309555	PREDICTED: Sus scrofa uncharacterized LOC102167022 (LOC102167022), misc_RNA
five	207727	HLTF	AC013401	Homo sapiens BAC clone RP11-98N11 from 2, complete sequence			XM_005652402	PREDICTED: Sus scrofa helicase-like transcription factor (HLTF), transcript variant X2, mRNA
five	207836	CIT	XM_006719206	PREDICTED: Homo sapiens citron (rho-interacting, serine/threonine kinase 21) (CIT), transcript variant X4, mRNA	Cytoplasm	kinase	XM_005670667	PREDICTED: Sus scrofa citron (rho-interacting, serine/threonine kinase 21) (CIT), mRNA
five	208076		FM206294	Cloning vector pchiLGHG1			NM_214194	Sus scrofa CD40 molecule, TNF receptor superfamily member 5 (CD40), mRNA >gi 19697103 gb AF248545.1 Sus scrofa CD40 mRNA, complete cds

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five	208240	MYBPH	AC105940	Homo sapiens chromosome 1 clone RP11-335O13, complete sequence			XM_005653726	PREDICTED: Sus scrofa myosin binding protein H (MYBPH), transcript variant X1, mRNA
five	208338	DCAF13	NM_015420	Homo sapiens DDB1 and CUL4 associated factor 13 (DCAF13), mRNA	Nucleus	other	XM_005662912	PREDICTED: Sus scrofa DDB1 and CUL4 associated factor 13 (DCAF13), mRNA
five	208340	CD36	S60720	85 kda protein {3 region, clone C-3} [human, adriamycin-resistant tumor cells, K562/ADM, mRNA Partial, 660 nt]	Plasma Membrane	transmembrane receptor	XM_005667695	PREDICTED: Sus scrofa CD36 molecule (thrombospondin receptor) (CD36), transcript variant X5, mRNA
five	208374	DCAF8	NR_028104	Homo sapiens DDB1 and CUL4 associated factor 8 (DCAF8), transcript variant 3, long non-coding RNA	Other	other	XR_303075	PREDICTED: Sus scrofa uncharacterized LOC100737839 (LOC100737839), misc_RNA
five	208627	BRAF	AC006481	Homo sapiens BAC clone RP11-174K5 from 7, complete sequence			XM_005654268	PREDICTED: Sus scrofa v-raf murine sarcoma viral oncogene homolog B (BRAF), transcript variant X3, mRNA
five	209403		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CU468312	Pig DNA sequence from clone CH242-149K13 on chromosome X, complete sequence
five	209528		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CU463287	Pig DNA sequence from clone CH242-124N9 on chromosome X, complete sequence
five	209612	EEF1A1P11	NG_008817	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 pseudogene 11 (EEF1A1P11) on chromosome 1			XM_005654402	PREDICTED: Sus scrofa eukaryotic translation elongation factor 1 alpha 1 (EEF1A1), transcript variant X2, mRNA
five	209647	TPP1	NG_008653	Homo sapiens tripeptidyl peptidase I (TPP1), RefSeqGene on chromosome 11			XM_003357132	PREDICTED: Sus scrofa tripeptidyl peptidase I (TPP1), mRNA
five	210076	UQCRFS1P1	NG_009458	Homo sapiens ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1 pseudogene 1 (UQCRFS1P1) on chromosome 22			XM_003127002	PREDICTED: Sus scrofa cytochrome b-c1 complex subunit Rieske, mitochondrial-like (LOC100522678), mRNA
five	212012	NCAM1	NM_001242607	Homo sapiens neural cell adhesion molecule 1 (NCAM1), transcript variant 5, mRNA	Plasma Membrane	other	XM_005667344	PREDICTED: Sus scrofa neural cell adhesion molecule 1 (NCAM1), transcript variant X5, mRNA
five	212288	ZNF25	FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			XM_005670993	PREDICTED: Sus scrofa zinc finger protein 25 (ZNF25), transcript variant X2, mRNA
five	213448	SLC22A23	FM206294	Cloning vector pchilGHG1			XM_001927653	PREDICTED: Sus scrofa solute carrier family 22, member 23 (SLC22A23), mRNA
five	213514		FM206294	Cloning vector pchilGHG1			AK393431	Sus scrofa mRNA, clone: KDN010054G03, expressed in kidney

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five	214719	RIT1	NG_033885	Homo sapiens Ras-like without CAAX 1 (RIT1), RefSeqGene on chromosome 1	Plasma Membrane	enzyme	XM_001928648	PREDICTED: Sus scrofa KIAA0907 ortholog (KIAA0907), transcript variant X1, mRNA
five	214829		FM206294	Cloning vector pchilGHG1			KF971862	Sus scrofa domesticus breed Min mitochondrion, complete genome
five	214864	NAM432	KC346223	Homo sapiens isolate NAM432 mitochondrion, complete genome			EU090703	Sus scrofa isolate KS14 mitochondrion, complete genome
five	215588	RNF122	NM_024787	Homo sapiens ring finger protein 122 (RNF122), mRNA	Other	other	FN673798	Sus scrofa BAC clone KNP_1293H1
five	215647	MAPK4	XM_005258299	PREDICTED: Homo sapiens mitogen-activated protein kinase 4 (MAPK4), transcript variant X2, mRNA	Cytoplasm	kinase	XM_005659461	PREDICTED: Sus scrofa mitogen-activated protein kinase 4 (MAPK4), transcript variant X2, mRNA
five	215864	GABARAPL1	AK124150	Homo sapiens cDNA FLJ42156 fis, clone THYMU2003907	Cytoplasm	other	NM_001190287	Sus scrofa GABA(A) receptor-associated protein like 1 (GABARAPL1), mRNA >gi 296874493 gb HM046513.1 Sus scrofa GABA(A) receptor-associated protein-like protein 1 (GABARAPL1) mRNA, complete cds
five	217375	SIK3	XM_005271484	PREDICTED: Homo sapiens SIK family kinase 3 (SIK3), transcript variant X4, mRNA	Cytoplasm	kinase	XR_305371	PREDICTED: Sus scrofa uncharacterized LOC102161555 (LOC102161555), transcript variant X1, misc_RNA
five	217405	CTTN	XM_006718447	PREDICTED: Homo sapiens cortactin (CTTN), transcript variant X1, mRNA	Plasma Membrane	other	AK350977	Sus scrofa mRNA, clone:TCH010069D07, expressed in trachea
five	218047	ARHGAP22	XM_006717934	PREDICTED: Homo sapiens Rho GTPase activating protein 22 (ARHGAP22), transcript variant X3, mRNA	Cytoplasm	other	AK350158	Sus scrofa mRNA, clone:SPL010003E08, expressed in spleen
five	218431		NG_011656	Homo sapiens glucuronidase, beta pseudogene (LOC653435) on chromosome 7			KF569218	Sus scrofa breed DLY mitochondrion, complete genome
five	218815	HCRTR1	AK290521	Homo sapiens cDNA FLJ77063 complete cds, highly similar to Homo sapiens hypocretin (orexin) receptor 1, mRNA	Plasma Membrane	G-protein coupled receptor	XM_005665154	PREDICTED: Sus scrofa hypocretin (orexin) receptor 1 (HCRTR1), transcript variant X2, mRNA
five	218896	S100A8	NM_002964	Homo sapiens S100 calcium binding protein A8 (S100A8), mRNA	Cytoplasm	other	AK399753	Sus scrofa mRNA, clone: BMWN10066D02, expressed in bone marrow
five	219202	SCAND1	NM_033630	Homo sapiens SCAN domain containing 1 (SCAND1), transcript variant 2, mRNA	Nucleus	transcription regulator	XM_003134419	PREDICTED: Sus scrofa SCAN domain containing 1 (SCAND1), mRNA
five	219235	CD43	FM206294	Cloning vector pchilGHG1			HM446267	Sus scrofa sialoglycoprotein (CD43) gene, complete cds

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five	220724	FADS2	NM_001281502	Homo sapiens fatty acid desaturase 2 (FADS2), transcript variant 3, mRNA	Plasma Membrane	enzyme	FJ263686	Sus scrofa clone PigE-219E3 fatty acid desaturase 3 (FADS3) gene, complete cds
five	221059	SLIT2	XM_005248214	PREDICTED: Homo sapiens slit homolog 2 (Drosophila) (SLIT2), transcript variant X4, mRNA	Extracellular Space	other	FP102814	Pig DNA sequence from clone CH242-151C9 on chromosome X, complete sequence
five	221108	KRT14	3J3F_5	Chain 5, Structure Of The H, Sapiens 60s Rrna			XM_003482985	PREDICTED: Sus scrofa keratin 14 (KRT14), transcript variant X1, mRNA
six	100044	TTN	NG_011618	Homo sapiens titin (TTN), RefSeqGene (LRG_391) on chromosome 2	Cytoplasm	kinase	FP102183	Pig DNA sequence from clone CH242-29J1 on chromosome X, complete sequence
six	100059	AKAP11	CR627087	Homo sapiens mRNA; cDNA DKFZp781112161 (from clone DKFZp781112161)	Cytoplasm	other	XM_005656849	PREDICTED: Sus scrofa A kinase (PRKA) anchor protein 11 (AKAP11), mRNA
six	100067	CBR3	AB124847	Homo sapiens hCBR3 mRNA for carbonyl reductase 3, complete cds	Cytoplasm	enzyme	NM_001244732	Sus scrofa carbonyl reductase 3 (CBR3), mRNA >gi 288786563 dbj AK347045.1 Sus scrofa mRNA, clone:MLN010096F02, expressed in mesenteric lymph nodes
six	100089	CMYA5	XR_427707	PREDICTED: Homo sapiens cardiomyopathy associated 5 (CMYA5), transcript variant X1, misc_RNA	Other	other	XR_309627	PREDICTED: Sus scrofa cardiomyopathy-associated protein 5-like (LOC100738205), misc_RNA
six	100091	SLC40A1	XM_005246505	PREDICTED: Homo sapiens solute carrier family 40 (iron-regulated transporter), member 1 (SLC40A1), transcript variant X2, mRNA	Plasma Membrane	transporter	XR_308149	PREDICTED: Sus scrofa solute carrier family 40 member 1-like (LOC100512258), misc_RNA
six	100104	DGKG	NM_001080745	Homo sapiens diacylglycerol kinase, gamma 90kDa (DGKG), transcript variant 3, mRNA	Cytoplasm	kinase	XM_005652367	PREDICTED: Sus scrofa diacylglycerol kinase gamma-like (LOC100623391), mRNA
six	100105	HADHB	NG_007294	Homo sapiens hydroxyacyl-CoA dehydrogenase/3-ketoacyl-CoA thiolase/enoyl-CoA hydratase (trifunctional protein), beta subunit (HADHB), RefSeqGene on chromosome 2	Cytoplasm	enzyme	AK400872	Sus scrofa mRNA, clone: PST010085E08, expressed in prostate
six	100106	PCSK2	NM_002594	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2), transcript variant 1, mRNA	Extracellular Space	peptidase	FN673792	Sus scrofa BAC clone KNP_1253B1
six	100128	HEBP1	NM_015987	Homo sapiens heme binding protein 1 (HEBP1), mRNA	Cytoplasm	other	AK235495	Sus scrofa mRNA, clone:OVRM10087D02, expressed in ovary
six	100150	SUCLG2	BC047024	Homo sapiens succinate-CoA ligase, GDP-forming, beta subunit, mRNA (cDNA clone MGC:52082 IMAGE:5415743), complete cds	Cytoplasm	enzyme	XR_306850	PREDICTED: Sus scrofa uncharacterized LOC100739668 (LOC100739668), misc_RNA

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six	100165	PSMB8	XM_005275000	PREDICTED: Homo sapiens proteasome (prosome, macropain) subunit, beta type, 8 (PSMB8), transcript variant X1, mRNA	Cytoplasm	peptidase	XM_001924119	PREDICTED: Sus scrofa proteasome (prosome, macropain) subunit, beta type, 8 (large multifunctional peptidase 7) (PSMB8), mRNA
six	100170		AF268619	Homo sapiens chromosome 8 clone RP11-122C21 map q21.3, complete sequence			AK232293	Sus scrofa mRNA, clone:LVR010014A04, expressed in liver
six	100178	CHAMP1	XM_005266197	PREDICTED: Homo sapiens chromosome alignment maintaining phosphoprotein 1 (CHAMP1), transcript variant X1, mRNA	Nucleus	other	XM_005655832	PREDICTED: Sus scrofa zinc finger protein 546 (ZNF546), transcript variant X2, mRNA
six	100179	GLO1	NM_006708	Homo sapiens glyoxalase I (GLO1), mRNA	Cytoplasm	enzyme	XM_001927957	PREDICTED: Sus scrofa glyoxalase I (GLO1), transcript variant 1, mRNA
six	100186	DUT	U90223	Human deoxyuridine triphosphate nucleotidohydrolase precursor mRNA, nuclear gene encoding mitochondrial protein, complete cds	Nucleus	enzyme	XM_003353371	PREDICTED: Sus scrofa deoxyuridine triphosphatase (DUT), transcript variant 2, mRNA
six	100188	PHTF2	XM_006716063	PREDICTED: Homo sapiens putative homeodomain transcription factor 2 (PHTF2), transcript variant X3, mRNA	Cytoplasm	other	XM_005667703	PREDICTED: Sus scrofa putative homeodomain transcription factor 2 (PHTF2), transcript variant X2, mRNA
six	100189	VPS13A	NM_033305	Homo sapiens vacuolar protein sorting 13 homolog A (S. cerevisiae) (VPS13A), transcript variant A, mRNA	Cytoplasm	transporter	XR_298026	PREDICTED: Sus scrofa vacuolar protein sorting-associated protein 13A-like (LOC100521355), misc_RNA
six	100210	ABHD5	NM_016006	Homo sapiens abhydrolase domain containing 5 (ABHD5), mRNA	Cytoplasm	enzyme	NM_001012407	Sus scrofa abhydrolase domain containing 5 (ABHD5), mRNA >gi 58802555 gb AY902463.1 Sus scrofa lipid droplet binding protein (CGI-58) mRNA, complete cds
six	100213	UGT2B7	XM_005265702	PREDICTED: Homo sapiens UDP glucuronosyltransferase 2 family, polypeptide B7 (UGT2B7), transcript variant X1, mRNA	Cytoplasm	enzyme	XM_005656507	PREDICTED: Sus scrofa UDP-glucuronosyltransferase 2B18-like (LOC100516628), transcript variant X2, mRNA
six	100227	MRPL39	NM_017446	Homo sapiens mitochondrial ribosomal protein L39 (MRPL39), transcript variant 1, mRNA	Cytoplasm	other	XM_003132745	PREDICTED: Sus scrofa mitochondrial ribosomal protein L39 (MRPL39), transcript variant X1, mRNA
six	100228	SGPP1	XM_006720264	PREDICTED: Homo sapiens sphingosine-1-phosphate phosphatase 1 (SGPP1), transcript variant X1, mRNA	Cytoplasm	phosphatase	XR_301264	PREDICTED: Sus scrofa uncharacterized LOC102163814 (LOC102163814), misc_RNA
six	100230	PDE4D	XM_005248541	PREDICTED: Homo sapiens phosphodiesterase 4D, cAMP-specific (PDE4D), transcript variant X5, mRNA	Cytoplasm	enzyme	XM_003359786	PREDICTED: Sus scrofa phosphodiesterase 4D (LOC100037967), transcript variant 8, mRNA

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six	100236	PDZRN3	XM_005264718	PREDICTED: Homo sapiens PDZ domain containing ring finger 3 (PDZRN3), transcript variant X2, mRNA	Extracellular Space	enzyme	XM_003132326	PREDICTED: Sus scrofa PDZ domain containing ring finger 3 (PDZRN3), partial mRNA
six	100247	CYP4A11	L04751	Human cytochrome p-450 4A (CYP4A) mRNA, complete cds	Cytoplasm	enzyme	AK393683	Sus scrofa mRNA, clone: KDN010091E04, expressed in kidney
six	100248	SH3TC2	AC116312	Homo sapiens chromosome 5 clone RP11-44B19, complete sequence	Cytoplasm	other	AK237368	Sus scrofa mRNA, clone:SPL010029D12, expressed in spleen
six	100260	UBA2	XM_006722962	PREDICTED: Homo sapiens ubiquitin-like modifier activating enzyme 2 (UBA2), transcript variant X3, mRNA	Cytoplasm	enzyme	AK390575	Sus scrofa mRNA, clone: BFLT10095A07, expressed in brain (frontal lobe)
six	100268		AL137790	Human DNA sequence from clone RP5-1003J2 on chromosome 1p12-13.3, complete sequence			AY610039	Sus scrofa clone Clu_5946.scr.msk.p1.Contig3, mRNA sequence
six	100331		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AK396219	Sus scrofa mRNA, clone: PCT010004C05, expressed in placenta
six	100360	5175715	KF162319	Homo sapiens isolate 5175715 mitochondrion, complete genome			JN601069	Sus scrofa isolate Mangalitsa swallow belly breed 2 mitochondrion, complete genome
six	100362	QKI	XR_427978	PREDICTED: Homo sapiens QKI, KH domain containing, RNA binding (QKI), transcript variant X6, misc_RNA	Nucleus	other	CU633361	Pig DNA sequence from clone CH242-1G8 on chromosome X, complete sequence
six	100378	RGS5	AF176919	Homo sapiens MSTP129 (MST129) mRNA, complete cds	Plasma Membrane	other	CU695129	Pig DNA sequence from clone CH242-218P14 on chromosome X, complete sequence
six	100380	MSRB3	NG_023441	Homo sapiens methionine sulfoxide reductase B3 (MSRB3), RefSeqGene on chromosome 12	Cytoplasm	other	AK394662	Sus scrofa mRNA, clone: MLTL10039A02, expressed in longissimus muscle
six	100399	RPL6	D17554	Homo sapiens mRNA for DNA-binding protein TAXREB107, complete cds	Cytoplasm	other	AK394384	Sus scrofa mRNA, clone: MLN010012B10, expressed in mesenteric lymph node
six	100413	NUCKS1	NM_022731	Homo sapiens nuclear casein kinase and cyclin-dependent kinase substrate 1 (NUCKS1), mRNA	Nucleus	kinase	NM_001244237	Sus scrofa nuclear casein kinase and cyclin-dependent kinase substrate 1 (NUCKS1), mRNA
six	100463	GNPNAT1	NM_198066	Homo sapiens glucosamine-phosphate N-acetyltransferase 1 (GNPNAT1), mRNA	Cytoplasm	enzyme	NM_001243376	Sus scrofa glucosamine-phosphate N-acetyltransferase 1 (GNPNAT1), mRNA
six	100488	ZFAND6	NM_001242911	Homo sapiens zinc finger, AN1-type domain 6 (ZFAND6), transcript variant 2, mRNA	Other	other	AK393802	Sus scrofa mRNA, clone: LNG010021A03, expressed in lung
six	100515	TMBIM6	XM_005269126	PREDICTED: Homo sapiens transmembrane BAX inhibitor motif containing 6 (TMBIM6), transcript variant X1, mRNA	Nucleus	other	AK391074	Sus scrofa mRNA, clone: CLNT10056E07, expressed in colon

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six	100534	ANP32E	XM_005245514	PREDICTED: Homo sapiens acidic (leucine-rich) nuclear phosphoprotein 32 family, member E (ANP32E), transcript variant X2, mRNA	Nucleus	other	AK343979	Sus scrofa mRNA, clone:AMP010096E10, expressed in alveolar macrophages
six	100539	MRFAP1	NM_001272053	Homo sapiens Morf4 family associated protein 1 (MRFAP1), transcript variant 2, mRNA	Nucleus	other	AK396995	Sus scrofa mRNA, clone: PTG010048E02, expressed in pituitary gland
six	100540	GLULP2	NG_009859	Homo sapiens glutamate-ammonia ligase (glutamine synthetase) pseudogene 2 (GLULP2) on chromosome 11			AK397634	Sus scrofa mRNA, clone: SPL010004H05, expressed in spleen
six	100556	UTP20	NM_014503	Homo sapiens UTP20, small subunit (SSU) processome component, homolog (yeast) (UTP20), mRNA	Nucleus	other	XM_005664203	PREDICTED: Sus scrofa UTP20, small subunit (SSU) processome component, homolog (yeast) (UTP20), mRNA
six	100559	TPT1	JF432827	Synthetic construct Homo sapiens clone IMAGE:100074146 tumor protein, translationally-controlled 1 (TPT1) gene, encodes complete protein	Cytoplasm	other	AK397982	Sus scrofa mRNA, clone: TCH010051G09, expressed in trachea
six	100575	HSD17B4	NM_001199291	Homo sapiens hydroxysteroid (17-beta) dehydrogenase 4 (HSD17B4), transcript variant 1, mRNA	Cytoplasm	enzyme	AK343905	Sus scrofa mRNA, clone:AMP010078D04, expressed in alveolar macrophages
six	100576		AP000725	Homo sapiens genomic DNA, chromosome 11 clone:CMB9-2O12, complete sequence			AK392735	Sus scrofa mRNA, clone: HTMT10097C06, expressed in hypothalamus
six	100579	TBX15	BX537778	Homo sapiens mRNA; cDNA DKFZp779A1451 (from clone DKFZp779A1451)	Nucleus	transcription regulator	XM_001926903	PREDICTED: Sus scrofa T-box transcription factor TBX15-like (LOC100158194), partial mRNA
six	100607	JUN	NM_002228	Homo sapiens jun proto-oncogene (JUN), mRNA	Nucleus	transcription regulator	XM_005665430	PREDICTED: Sus scrofa coiled-coil and C2 domain-containing protein 1B-like (LOC100622838), transcript variant X2, mRNA
six	100622	PRKAR1A	AK124586	Homo sapiens cDNA FLJ42595 fis, clone BRACE3010221, highly similar to cAMP-dependent protein kinase type I-alpha regulatory chain	Cytoplasm	kinase	XM_005656932	PREDICTED: Sus scrofa protein kinase, cAMP-dependent, regulatory, type I, alpha (PRKAR1A), transcript variant X1, mRNA
six	100630		BC015682	Homo sapiens cDNA clone IMAGE:4651465, **** WARNING: chimeric clone ****			AK348520	Sus scrofa mRNA, clone:OVRM10190D06, expressed in ovary
six	100635	GSN	XM_005251945	PREDICTED: Homo sapiens gelsolin (GSN), transcript variant X6, mRNA	Extracellular Space	other	M36927	Pig plasma gelsolin mRNA, 3' end >gij 1951 embj X13871.1 Pig mRNA for plasma gelsolin
six	100636	ADAM10	NG_033876	Homo sapiens ADAM metallopeptidase domain 10 (ADAM10), RefSeqGene on chromosome 15			AK239210	Sus scrofa mRNA, clone:THY010075C03, expressed in thymus

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six	100650	BEX1	NM_018476	Homo sapiens brain expressed, X-linked 1 (BEX1), mRNA	Other	other	AK399959	Sus scrofa mRNA, clone: HTMT10106B10, expressed in hypothalamus
six	100652	NPTN	NM_001161364	Homo sapiens neuroplastin (NPTN), transcript variant d, mRNA	Plasma Membrane	other	AK391934	Sus scrofa mRNA, clone: HTMT10035B07, expressed in hypothalamus
six	100669	MYLK	NG_029111	Homo sapiens myosin light chain kinase (MYLK), RefSeqGene on chromosome 3	Cytoplasm	kinase	XM_005670160	PREDICTED: Sus scrofa myosin light chain kinase, smooth muscle-like (LOC100152091), transcript variant X2, mRNA
six	100679	RPS3	NM_001260507	Homo sapiens ribosomal protein S3 (RPS3), transcript variant 4, mRNA	Cytoplasm	enzyme	AK390990	Sus scrofa mRNA, clone: CLNT10036D10, expressed in colon
six	100702	ADH5	NM_000671	Homo sapiens alcohol dehydrogenase 5 (class III), chi polypeptide (ADH5), mRNA	Cytoplasm	enzyme	AK390254	Sus scrofa mRNA, clone: BFLT10046E01, expressed in brain (frontal lobe)
six	100718		AC091981	Homo sapiens chromosome 5 clone RP11-549L3, complete sequence			XM_003353525	PREDICTED: Sus scrofa adenylate kinase 3 (AK3), transcript variant 2, mRNA
six	100737	PGK1	AK301740	Homo sapiens cDNA FLJ52414 complete cds, highly similar to Phosphoglycerate kinase 1 (EC 2,7,2,3)	Cytoplasm	kinase	AK399879	Sus scrofa mRNA, clone: HTMT10035G11, expressed in hypothalamus
six	100768	EEF1A1	AK315827	Homo sapiens cDNA, FLJ79476 complete cds, highly similar to Elongation factor 1-alpha 1	Cytoplasm	translation regulator	XM_005654401	PREDICTED: Sus scrofa eukaryotic translation elongation factor 1 alpha 1 (EEF1A1), transcript variant X1, mRNA
six	100812	UNC45B	AL833281	Homo sapiens mRNA; cDNA DKFZp451I048 (from clone DKFZp451I048)	Cytoplasm	other	NM_001113442	Sus scrofa unc-45 homolog B (C. elegans) (UNC45B), mRNA
six	100829	CBX3	XM_005249611	PREDICTED: Homo sapiens chromobox homolog 3 (CBX3), transcript variant X1, mRNA	Nucleus	transcription regulator	XM_005673314	PREDICTED: Sus scrofa chromobox homolog 3 (CBX3), transcript variant X6, mRNA
six	100837		AL450311	Human DNA sequence from clone RP11-343J3 on chromosome 10, complete sequence			JN601075	Sus scrofa isolate 1-37-193 breed Yorkshire mitochondrion, complete genome
six	100870	DCN	AK291309	Homo sapiens cDNA FLJ75936 complete cds, highly similar to Homo sapiens decorin (DCN), transcript variant A1, mRNA	Extracellular Space	other	AK395892	Sus scrofa mRNA, clone: OVRT10082H03, expressed in ovary
six	100873	GNB2L1	NM_006098	Homo sapiens guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1 (GNB2L1), mRNA	Cytoplasm	enzyme	AK398072	Sus scrofa mRNA, clone: TCH010087G06, expressed in trachea
six	100880	KANSL3	XR_427101	PREDICTED: Homo sapiens KAT8 regulatory NSL complex subunit 3 (KANSL3), transcript variant X20, misc_RNA	Nucleus	other	CU928462	Pig DNA sequence from clone CH242-228K3 on chromosome X, complete sequence

cluster	array id	gene symbols	HSA accession	HSA description	location	property	SSC accession	SSC description
six	100899	SLC25A3	NM_005888	Homo sapiens solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 3 (SLC25A3), transcript variant 1, mRNA	Cytoplasm	transporter	AK390363	Sus scrofa mRNA, clone: BFLT10063A04, expressed in brain (frontal lobe)
six	100912	RPL26	XM_005256750	PREDICTED: Homo sapiens ribosomal protein L26 (RPL26), transcript variant X2, mRNA	Cytoplasm	other	AK392102	Sus scrofa mRNA, clone: HTMT10049H09, expressed in hypothalamus
six	100916	COL6A3	XM_006712253	PREDICTED: Homo sapiens collagen, type VI, alpha 3 (COL6A3), transcript variant X3, mRNA	Extracellular Space	other	XM_005672310	PREDICTED: Sus scrofa collagen, type VI, alpha 3 (COL6A3), transcript variant X3, mRNA
six	100917	NAM176	KC346119	Homo sapiens isolate NAM176 mitochondrion, complete genome			AK392158	Sus scrofa mRNA, clone: HTMT10053G04, expressed in hypothalamus
six	100918	SMPDL3B	AK316500	Homo sapiens cDNA, FLJ79399 complete cds, highly similar to Acid sphingomyelinase-like phosphodiesterase 3b precursor (EC 3.1.4.-)	Extracellular Space	enzyme	AK396998	Sus scrofa mRNA, clone: PTG010049G03, expressed in pituitary gland
six	100923	SYN3	NG_029545	Homo sapiens synapsin III (SYN3), RefSeqGene on chromosome 22			XM_003126073	PREDICTED: Sus scrofa tissue inhibitor of metalloproteinase-3 (TIMP-3), mRNA
six	100929	H2AFV	NM_012412	Homo sapiens H2A histone family, member V (H2AFV), transcript variant 1, mRNA	Nucleus	other	AK351623	Sus scrofa mRNA, clone:THY010048G07, expressed in thymus
six	100936	PPP1CB	AK312329	Homo sapiens cDNA, FLJ92643, Homo sapiens protein phosphatase 1, catalytic subunit, beta isoform(PPP1CB), mRNA	Cytoplasm	phosphatase	AK239060	Sus scrofa mRNA, clone:THY010060A09, expressed in thymus
six	100952	UBE2D1	NM_001204880	Homo sapiens ubiquitin-conjugating enzyme E2D 1 (UBE2D1), transcript variant 2, mRNA	Cytoplasm	enzyme	AK234981	Sus scrofa mRNA, clone:OVRM10038A07, expressed in ovary
six	100957		AL392172	Human DNA sequence from clone RP11-452F19 on chromosome 1, complete sequence			AK230888	Sus scrofa mRNA, clone:AMP010059F08, expressed in alveolar macrophage
six	100960	KIF5B	AK299542	Homo sapiens cDNA FLJ51288 complete cds, highly similar to Kinesin heavy chain	Cytoplasm	other	XM_005668098	PREDICTED: Sus scrofa kinesin family member 5B (KIF5B), mRNA
six	100965	COL15A1	NM_001855	Homo sapiens collagen, type XV, alpha 1 (COL15A1), mRNA	Extracellular Space	other	AK390645	Sus scrofa mRNA, clone: BKFL10024B10, expressed in backfat
six	100966	CAPN3	NG_008660	Homo sapiens calpain 3, (p94) (CAPN3), RefSeqGene on chromosome 15	Cytoplasm	peptidase	AK395461	Sus scrofa mRNA, clone: OVRT10010G12, expressed in ovary

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six	100967	RPL10A	DQ891130	Synthetic construct clone IMAGE:100003760; FLH169573.01X; RZPDo839D1096D ribosomal protein L10a (RPL10A) gene, encodes complete protein	Nucleus	other	XM_005665908	PREDICTED: Sus scrofa ribosomal protein L10a (RPL10A), transcript variant X7, mRNA
six	100968	AK2	XR_246248	PREDICTED: Homo sapiens adenylate kinase 2 (AK2), transcript variant X7, misc_RNA	Cytoplasm	kinase	AK346409	Sus scrofa mRNA, clone:LVRM10168B01, expressed in liver
six	100979	NDUFB10	AK311744	Homo sapiens cDNA, FLJ92003, Homo sapiens NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 10,22kDa (NDUFB10), mRNA	Cytoplasm	enzyme	AK392464	Sus scrofa mRNA, clone: HTMT10076D06, expressed in hypothalamus
six	100981	RPL10	AK026568	Homo sapiens cDNA: FLJ22915 fis, clone KAT06354, highly similar to HUMQM Human Wilm's tumor-related protein (QM) mRNA	Cytoplasm	other	AK240170	Sus scrofa mRNA, clone:UTR010037G05, expressed in uterus
six	100994	VCPIP1	NM_025054	Homo sapiens valosin containing protein (p97)/p47 complex interacting protein 1 (VCPIP1), mRNA	Cytoplasm	peptidase	FQ976736	Pig DNA sequence from clone WTSI_1061-79K4 on chromosome Y, complete sequence
six	100995	MARCKS	FO393415	Human DNA sequence from clone RP11- 544L8 on chromosome 6, complete sequence			XM_003121373	PREDICTED: Sus scrofa myristoylated alanine-rich protein kinase C substrate (MARCKS), mRNA
six	100998	HOXD8	NM_001199746	Homo sapiens homeobox D8 (HOXD8), transcript variant 2, mRNA	Nucleus	transcription regulator	XM_003133496	PREDICTED: Sus scrofa homeobox D8 (HOXD8), mRNA
six	101003	FAM120A	BC098584	Homo sapiens family with sequence similarity 120A, mRNA (cDNA clone MGC:111527 IMAGE:30531603), complete cds	Cytoplasm	other	XM_005662264	PREDICTED: Sus scrofa family with sequence similarity 120A (FAM120A), transcript variant X2, mRNA
six	101016	MDFIC	NM_199072	Homo sapiens MyoD family inhibitor domain containing (MDFIC), transcript variant 1, mRNA >gi 261599041 ref NM_001166345.1 Homo sapiens MyoD family inhibitor domain containing (MDFIC), transcript variant 1, mRNA	Nucleus	other	AY609586	Sus scrofa clone Clu_20020.scr.msk.p1.Contig2, mRNA sequence
six	101027	NPRL2	XM_006712937	PREDICTED: Homo sapiens nitrogen permease regulator-like 2 (S. cerevisiae) (NPRL2), transcript variant X4, mRNA	Cytoplasm	kinase	XM_005669600	PREDICTED: Sus scrofa nitrogen permease regulator-like 2 (S. cerevisiae) (NPRL2), transcript variant X2, mRNA
six	101034	PDCD6IP	NG_033961	Homo sapiens programmed cell death 6 interacting protein (PDCD6IP), RefSeqGene on chromosome 3	Cytoplasm	other	XM_005669330	PREDICTED: Sus scrofa programmed cell death 6 interacting protein (PDCD6IP), mRNA

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six	101035	NEAT1	GQ859162	Homo sapiens MEN beta, complete sequence >gi 551871245 tpe HG503867.1 TPA: Homo sapiens NEAT1 gene for long non-coding RNA OTTHUMT00000389142.3, lincRNA	Other	other	EF397601	Sus scrofa trophoblast-derived noncoding RNA, complete sequence
six	101036	ICA1L	NM_001288623	Homo sapiens islet cell autoantigen 1,69kDa-like (ICA1L), transcript variant 4, mRNA	Other	other	NM_001271968	Sus scrofa PIGY upstream reading frame (PYURF), mRNA
six	101051	LOC440514	NG_005325	Homo sapiens citrate synthase, mitochondrial-like (LOC440514) pseudogene on chromosome 19			XM_005655641	PREDICTED: Sus scrofa citrate synthase, mitochondrial-like (LOC100738034), mRNA
six	101088	RAB18	AF136974	Homo sapiens ras-related protein 18 mRNA, complete cds	Cytoplasm	enzyme	XM_003357752	PREDICTED: Sus scrofa ras-related protein Rab-18-like (LOC100620478), transcript variant X1, mRNA
six	101093	TMEM126A	NM_032273	Homo sapiens transmembrane protein 126A (TMEM126A), transcript variant 1, mRNA	Cytoplasm	other	XM_005667190	PREDICTED: Sus scrofa transmembrane protein 126A (TMEM126A), transcript variant X1, mRNA
six	101144	MYOM1	BC116184	Homo sapiens cDNA clone IMAGE:40073729, containing frame-shift errors	Cytoplasm	other	XM_005665300	PREDICTED: Sus scrofa myomesin 1 (MYOM1), transcript variant X2, mRNA
six	101148		BC013095	Homo sapiens WW domain binding protein 11, mRNA (cDNA clone IMAGE:3863933), **** WARNING: chimeric clone ****			AK399841	Sus scrofa mRNA, clone: HTMT10008C04, expressed in hypothalamus
six	101158	CDH2	XM_005258182	PREDICTED: Homo sapiens cadherin 2, type 1, N-cadherin (neuronal) (CDH2), transcript variant X2, mRNA	Plasma Membrane	other	XR_304087	PREDICTED: Sus scrofa uncharacterized LOC100736946 (LOC100736946), misc_RNA
six	101167	UQCRC2	AB587386	Synthetic construct DNA, clone: pF1KB5481, Homo sapiens UQCRC2 gene for ubiquinol-cytochrome c reductase core protein II, without stop codon, in Flexi system			XM_003124555	PREDICTED: Sus scrofa cytochrome b-c1 complex subunit 2, mitochondrial-like (LOC100524613), mRNA
six	101192	TXNIP	NM_006472	Homo sapiens thioredoxin interacting protein (TXNIP), mRNA	Cytoplasm	other	AK395910	Sus scrofa mRNA, clone: OVRT10085B03, expressed in ovary
six	101194	HNRNPDL	NG_029681	Homo sapiens heterogeneous nuclear ribonucleoprotein D-like (HNRNPDL), RefSeqGene on chromosome 4	Nucleus	other	AK239107	Sus scrofa mRNA, clone: THY010064B01, expressed in thymus
six	101197	PDLIM5	XM_005262698	PREDICTED: Homo sapiens PDZ and LIM domain 5 (PDLIM5), transcript variant X6, mRNA	Cytoplasm	other	XM_005666981	PREDICTED: Sus scrofa PDZ and LIM domain 5 (PDLIM5), transcript variant X17, mRNA
six	101199	ENTPD4	NG_030021	Homo sapiens ectonucleoside triphosphate diphosphohydrolase 4 (ENTPD4), RefSeqGene on chromosome 8	Cytoplasm	enzyme	XM_001926801	PREDICTED: Sus scrofa ectonucleoside triphosphate diphosphohydrolase 4 (ENTPD4), transcript variant 1, mRNA

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six	101227	LIPA	X76488	H.sapiens mRNA for lysosomal acid lipase	Cytoplasm	enzyme	XM_005671253	PREDICTED: Sus scrofa lipase A, lysosomal acid, cholesterol esterase (LIPA), transcript variant X1, mRNA
six	101232	PDGFD	NM_025208	Homo sapiens platelet derived growth factor D (PDGFD), transcript variant 1, mRNA	Extracellular Space	growth factor	XR_305317	PREDICTED: Sus scrofa uncharacterized LOC100738546 (LOC100738546), misc_RNA
six	101240	APLP2	AC078874	Homo sapiens 12 BAC RP11-781C15 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_005664180	PREDICTED: Sus scrofa amyloid beta (A4) precursor-like protein 2 (APLP2), transcript variant X1, mRNA
six	101254	RPL26L1	XM_005265922	PREDICTED: Homo sapiens ribosomal protein L26-like 1 (RPL26L1), transcript variant X2, mRNA	Cytoplasm	other	NM_001141990	Sus scrofa ribosomal protein L26-like 1 (RPL26L1), mRNA
six	101258		AC013437	Homo sapiens BAC clone RP11-190J23 from 2, complete sequence			KF767443	Sus scrofa breed Wuzhishan mitochondrion, complete genome
six	101322	FDX1	NM_004109	Homo sapiens ferredoxin 1 (FDX1), mRNA	Cytoplasm	transporter	AK400648	Sus scrofa mRNA, clone: OVRT10097G04, expressed in ovary
six	101355	ITGAV	BC047454	Homo sapiens integrin, alpha V (vitronectin receptor, alpha polypeptide, antigen CD51), mRNA (cDNA clone IMAGE:5294976)	Plasma Membrane	ion channel	AK347912	Sus scrofa mRNA, clone:OVRM10017B04, expressed in ovary
six	101388	FNDC3B	NM_001135095	Homo sapiens fibronectin type III domain containing 3B (FNDC3B), transcript variant 2, mRNA	Cytoplasm	other	CR956382	Pig DNA sequence from clone CH242-231E9 on chromosome 6, complete sequence
six	101389	TMEM251	NM_001098621	Homo sapiens transmembrane protein 251 (TMEM251), transcript variant 1, mRNA	Other	other	AK350059	Sus scrofa mRNA, clone:SMG010057E04, expressed in submaxillary gland
six	101391	NSA2	NM_014886	Homo sapiens NSA2 ribosome biogenesis homolog (S. cerevisiae) (NSA2), transcript variant 1, mRNA	Nucleus	other	XM_003123703	PREDICTED: Sus scrofa NSA2 ribosome biogenesis homolog (S. cerevisiae) (NSA2), mRNA
six	101408		AC011031	Homo sapiens chromosome 8, clone RP11-345I19, complete sequence			XR_302957	PREDICTED: Sus scrofa uncharacterized LOC100524619 (LOC100524619), misc_RNA
six	101415	ATP6V1E1	NM_001696	Homo sapiens ATPase, H+ transporting, lysosomal 31kDa, V1 subunit E1 (ATP6V1E1), transcript variant 1, mRNA	Cytoplasm	transporter	XM_003126593	PREDICTED: Sus scrofa ATPase, H+ transporting, lysosomal 31kDa, V1 subunit E1 (ATP6V1E1), transcript variant X2, mRNA
six	101420	ZNF608	XM_006714662	PREDICTED: Homo sapiens zinc finger protein 608 (ZNF608), transcript variant X6, mRNA	Other	other	XM_005661600	PREDICTED: Sus scrofa zinc finger protein 608 (ZNF608), transcript variant X3, mRNA
six	101421	ARRDC3	NM_020801	Homo sapiens arrestin domain containing 3 (ARRDC3), mRNA	Plasma Membrane	other	XM_003123783	PREDICTED: Sus scrofa arrestin domain containing 3 (ARRDC3), mRNA
six	101435	VIM	XM_006717500	PREDICTED: Homo sapiens vimentin (VIM), transcript variant X1, mRNA	Cytoplasm	other	XM_005668106	PREDICTED: Sus scrofa vimentin (VIM), transcript variant X1, mRNA

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six	101457	CHMP5	BC006974	Homo sapiens chromatin modifying protein 5, mRNA (cDNA clone MGC:12180 IMAGE:3996277), complete cds	Cytoplasm	other	AK391770	Sus scrofa mRNA, clone: HTMT10021D10, expressed in hypothalamus
six	101493	EEF1B2	AB529032	Synthetic construct DNA, clone: pF1KB3431, Homo sapiens EEF1B2 gene for eukaryotic translation elongation factor 1 beta 2, without stop codon, in Flexi system			AK392577	Sus scrofa mRNA, clone: HTMT10087E02, expressed in hypothalamus
six	101497	RWDD4	XM_006714132	PREDICTED: Homo sapiens RWD domain containing 4 (RWDD4), transcript variant X1, mRNA	Other	other	XM_003133341	PREDICTED: Sus scrofa RWD domain containing 4 (RWDD4), transcript variant X1, mRNA
six	101498	PDCD6IP	NG_033961	Homo sapiens programmed cell death 6 interacting protein (PDCD6IP), RefSeqGene on chromosome 3	Cytoplasm	other	XM_005669330	PREDICTED: Sus scrofa programmed cell death 6 interacting protein (PDCD6IP), mRNA
six	101499	FAM3C	AC006364	Homo sapiens BAC clone GS1-146J4 from 7, complete sequence			XM_003134737	PREDICTED: Sus scrofa family with sequence similarity 3, member C (FAM3C), mRNA
six	101503	MSI2	XM_005257016	PREDICTED: Homo sapiens musashi RNA-binding protein 2 (MSI2), transcript variant X3, mRNA	Cytoplasm	other	XM_005657292	PREDICTED: Sus scrofa zinc finger protein 84 (ZNF84), transcript variant X5, mRNA
six	101505	ADSSL1	XM_006720026	PREDICTED: Homo sapiens adenylosuccinate synthase like 1 (ADSSL1), transcript variant X1, mRNA	Cytoplasm	enzyme	AK392100	Sus scrofa mRNA, clone: HTMT10049F05, expressed in hypothalamus
six	101514		CU633970	Human DNA sequence from clone CH507-32P2 on chromosome 21, complete sequence			XR_130393	PREDICTED: Sus scrofa uncharacterized LOC100525030 (LOC100525030), transcript variant 1, misc_RNA
six	101532	MAP3K2	NM_006609	Homo sapiens mitogen-activated protein kinase kinase kinase 2 (MAP3K2), mRNA	Cytoplasm	kinase	XM_005669956	PREDICTED: Sus scrofa tripartite motif containing 59 (TRIM59), transcript variant X5, mRNA
six	101557	IFI44L	XM_006710303	PREDICTED: Homo sapiens interferon-induced protein 44-like (IFI44L), transcript variant X4, mRNA	Other	other	AK230699	Sus scrofa mRNA, clone:AMP010027E08, expressed in alveolar macrophage
six	101580	USP6NL	XM_006717542	PREDICTED: Homo sapiens USP6 N-terminal like (USP6NL), transcript variant X1, mRNA	Plasma Membrane	other	XM_003130817	PREDICTED: Sus scrofa USP6 N-terminal like (USP6NL), mRNA
six	101581	PAM	AC025463	Homo sapiens chromosome 5 clone CTD-2252L7, complete sequence			XM_003123806	PREDICTED: Sus scrofa peptidylglycine alpha-amidating monooxygenase (PAM), transcript variant X1, mRNA
six	101594	ANKRD33B	HG497769	TPA: Homo sapiens RP11-215G15.5 gene for long non-coding RNA OTTHUMT00000470530.1, lincRNA	Other	other	AK389996	Sus scrofa mRNA, clone: BFLT10014G01, expressed in brain (frontal lobe)

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six	101597	LIMCH1	XM_006713997	PREDICTED: Homo sapiens LIM and calponin homology domains 1 (LIMCH1), transcript variant X21, mRNA	Other	other	XM_003356903	PREDICTED: Sus scrofa LIM and calponin homology domains 1 (LIMCH1), transcript variant X2, mRNA
six	101600	WASL	CR749438	Homo sapiens mRNA; cDNA DKFZp779G0847 (from clone DKFZp779G0847)	Cytoplasm	other	XM_003134725	PREDICTED: Sus scrofa Wiskott-Aldrich syndrome-like (WASL), mRNA
six	101607	CLIC5	NG_031965	Homo sapiens chloride intracellular channel 5 (CLIC5), RefSeqGene on chromosome 6	Cytoplasm	ion channel	CR974564	Pig DNA sequence from clone CH242-208O15 on chromosome 7, complete sequence
six	101616	SLTM	XM_006720690	PREDICTED: Homo sapiens SAFB-like, transcription modulator (SLTM), transcript variant X8, mRNA	Nucleus	other	XM_005659569	PREDICTED: Sus scrofa SAFB-like transcription modulator-like (LOC102161684), mRNA
six	101624	TMED7	BC107426	Homo sapiens transmembrane emp24 protein transport domain containing 7, mRNA (cDNA clone IMAGE:4770522), partial cds	Cytoplasm	transporter	AY609399	Sus scrofa clone Clu_10274.scr.msk.p1.Contig2, mRNA sequence
six	101625	HNRNPA2B1	XR_428077	PREDICTED: Homo sapiens heterogeneous nuclear ribonucleoprotein A2/B1 (HNRNPA2B1), transcript variant X6, misc_RNA	Nucleus	other	XR_309107	PREDICTED: Sus scrofa heterogeneous nuclear ribonucleoprotein A2/B1 (HNRNPA2B1), transcript variant X6, misc_RNA
six	101629	RPS23	AK291132	Homo sapiens cDNA FLJ77921 complete cds, highly similar to Homo sapiens ribosomal protein S23 (RPS23), mRNA	Cytoplasm	translation regulator	AK399717	Sus scrofa mRNA, clone: BMWN10042B11, expressed in bone marrow
six	101635		AC093311	Homo sapiens chromosome 5 clone RP11-461G12, complete sequence			KF767443	Sus scrofa breed Wuzhishan mitochondrion, complete genome
six	101649	C16orf72	NM_014117	Homo sapiens chromosome 16 open reading frame 72 (C16orf72), mRNA	Other	other	XM_003354616	PREDICTED: Sus scrofa chromosome 3 open reading frame, human C16orf72 (C3H16orf72), mRNA
six	101664	TTC14	NM_133462	Homo sapiens tetratricopeptide repeat domain 14 (TTC14), transcript variant 1, mRNA	Other	other	XM_001927185	PREDICTED: Sus scrofa tetratricopeptide repeat domain 14 (TTC14), mRNA
six	101691	MARCH7	NM_001282805	Homo sapiens membrane-associated ring finger (C3HC4) 7, E3 ubiquitin protein ligase (MARCH7), transcript variant 1, mRNA	Extracellular Space	other	AK230965	Sus scrofa mRNA, clone:AMP010069H08, expressed in alveolar macrophage
six	101715	PTMA	NM_001099285	Homo sapiens prothymosin, alpha (PTMA), transcript variant 1, mRNA	Nucleus	other	AK398489	Sus scrofa mRNA, clone: THY010105B02, expressed in thymus
six	101723	RPL23AP42	NG_010965	Homo sapiens ribosomal protein L23a pseudogene 42 (RPL23AP42) on chromosome 3			XM_003361281	PREDICTED: Sus scrofa 60S ribosomal protein L23a-like (LOC100623805), mRNA

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six	101726	IGJ	XM_006714212	PREDICTED: Homo sapiens immunoglobulin J polypeptide, linker protein for immunoglobulin alpha and mu polypeptides (IGJ), transcript variant X2, mRNA	Extracellular Space	other	XM_003356961	PREDICTED: Sus scrofa immunoglobulin J polypeptide, linker protein for immunoglobulin alpha and mu polypeptides (IGJ), transcript variant 1, mRNA
six	101728	COL4A1	NG_011544	Homo sapiens collagen, type IV, alpha 1 (COL4A1), RefSeqGene on chromosome 13	Extracellular Space	other	XM_003131091	PREDICTED: Sus scrofa collagen, type IV, alpha 1 (COL4A1), mRNA
six	101742		AB528451	Synthetic construct DNA, clone: pF1KB0487, Homo sapiens NOP5 gene for NOP58 ribonucleoprotein homolog, without stop codon, in Flexi system			AK393561	Sus scrofa mRNA, clone: KDN010072G09, expressed in kidney
six	101745	SERINC1	NM_020755	Homo sapiens serine incorporator 1 (SERINC1), mRNA >gj 34193576 gb BC033029.2 Homo sapiens serine incorporator 1, mRNA (cDNA clone MGC:33018 IMAGE:4831122), complete cds	Plasma Membrane	transporter	XM_005659233	PREDICTED: Sus scrofa serine incorporator 1-like (LOC102158514), mRNA
six	101753	CPE	AK294175	Homo sapiens cDNA FLJ53369 complete cds, highly similar to Carboxypeptidase E precursor (EC 3.4.17.10)	Cytoplasm	peptidase	AK392225	Sus scrofa mRNA, clone: HTMT10058D03, expressed in hypothalamus
six	101762	ICK	NG_012159	Homo sapiens intestinal cell (MAK-like) kinase (ICK), RefSeqGene on chromosome 6	Cytoplasm	kinase	CU914279	Pig DNA sequence from clone CH242-411E2 on chromosome 12, complete sequence
six	101783	ALDH9A1	BC151141	Homo sapiens aldehyde dehydrogenase 9 family, member A1, mRNA (cDNA clone MGC:184053 IMAGE:9057041), complete cds	Cytoplasm	enzyme	XM_005663148	PREDICTED: Sus scrofa aldehyde dehydrogenase 9 family, member A1 (ALDH9A1), mRNA

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six	101784	TWF1	AL356738	Human DNA sequence from clone RP13-228J13 on chromosome X Contains a pseudogene similar to part of trimethyllysine hydroxylase, epsilon (TMLHE), two novel genes, the CLIC2 gene for chloride intracellular channel 2, a pseudogene similar to part of steroid-5-alpha-reductase alpha polypeptide 2 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 2) (SRD5A2) a PHD finger protein pseudogene, a PTK9 protein tyrosine kinase 9 pseudogene (PTK9), the RAB39B gene for RAB39B member RAS oncogene family, the VBP1 gene for von Hippel-Lindau binding protein 1, a pseudogene similar to part of CD84 antigen (leukocyte antigen) (CD84) and three CpG islands, complete sequence			XM_005664155	PREDICTED: Sus scrofa twinfilin actin-binding protein 1 (TWF1), transcript variant X2, mRNA
six	101787	EPM2A	XM_006715565	PREDICTED: Homo sapiens epilepsy, progressive myoclonus type 2A, Lafora disease (laforin) (EPM2A), transcript variant X2, mRNA	Cytoplasm	phosphatase	AY609705	Sus scrofa clone Clu_26808.scr.msk.p1.Contig1, mRNA sequence
six	101791	MGAM	XM_006716169	PREDICTED: Homo sapiens maltase-glucoamylase (alpha-glucosidase) (MGAM), transcript variant X2, mRNA	Plasma Membrane	enzyme	XM_005658875	PREDICTED: Sus scrofa maltase-glucoamylase, intestinal-like (LOC100621130), partial mRNA
six	101797	ORC4	NM_001190879	Homo sapiens origin recognition complex, subunit 4 (ORC4), transcript variant 4, mRNA	Nucleus	other	XM_005671606	PREDICTED: Sus scrofa origin recognition complex, subunit 4 (ORC4), transcript variant X5, mRNA
six	101804	PARP8	NM_001178056	Homo sapiens poly (ADP-ribose) polymerase family, member 8 (PARP8), transcript variant 3, mRNA	Other	other	CU856398	Pig DNA sequence from clone CH242-155A2 on chromosome 2, complete sequence
six	101809	PLSCR4	BC028354	Homo sapiens phospholipid scramblase 4, mRNA (cDNA clone MGC:26053 IMAGE:4831340), complete cds	Plasma Membrane	enzyme	XM_005669924	PREDICTED: Sus scrofa phospholipid scramblase 4 (PLSCR4), transcript variant X2, mRNA
six	101811	RPS4X	NM_001007	Homo sapiens ribosomal protein S4, X-linked (RPS4X), mRNA	Cytoplasm	other	AK394418	Sus scrofa mRNA, clone: MLN010025H08, expressed in mesenteric lymph node
six	101815	ACAT1	XM_006718835	PREDICTED: Homo sapiens acetyl-CoA acetyltransferase 1 (ACAT1), transcript variant X2, mRNA	Cytoplasm	enzyme	XM_005667302	PREDICTED: Sus scrofa acetyl-CoA acetyltransferase 1 (ACAT1), transcript variant X2, mRNA
six	101816	C1orf27	NM_001164246	Homo sapiens chromosome 1 open reading frame 27 (C1orf27), transcript variant 3, mRNA	Other	other	XM_003130381	PREDICTED: Sus scrofa chromosome 9 open reading frame, human C1orf27 (C9H1orf27), transcript variant X1, mRNA

cluster	array id	gene symbols	HSA accession	HSA description	location	property	SSC accession	SSC description
six	101818	PRKAR2B	BC075800	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta, mRNA (cDNA clone MGC:87711 IMAGE:30331962), complete cds	Cytoplasm	kinase	AK390717	Sus scrofa mRNA, clone: BKFL10054H05, expressed in backfat
six	101822	LRG_517	NG_009009	Homo sapiens retinoblastoma 1 (RB1), RefSeqGene (LRG_517) on chromosome 13			CU862054	Pig DNA sequence from clone CH242-32D24 on chromosome X, complete sequence
six	101823	ACTR2	NM_005722	Homo sapiens ARP2 actin-related protein 2 homolog (yeast) (ACTR2), transcript variant 2, mRNA	Plasma Membrane	other	XM_005662508	PREDICTED: Sus scrofa ARP2 actin-related protein 2 homolog (yeast) (ACTR2), transcript variant X1, mRNA
six	101835	HPGD	NM_001256307	Homo sapiens hydroxyprostaglandin dehydrogenase 15-(NAD) (HPGD), transcript variant 6, mRNA	Cytoplasm	enzyme	AY609554	Sus scrofa clone Clu_17292.scr.msk.p1.Contig2, mRNA sequence
six	101838	CADM1	XM_005271494	PREDICTED: Homo sapiens cell adhesion molecule 1 (CADM1), transcript variant X4, mRNA	Plasma Membrane	other	FQ790387	Pig DNA sequence from clone PigE-4F11 on chromosome X, complete sequence
six	101840	RPL22L1	NM_001099645	Homo sapiens ribosomal protein L22-like 1 (RPL22L1), mRNA	Other	other	XM_003358680	PREDICTED: Sus scrofa ribosomal protein L22-like 1 (RPL22L1), mRNA
six	101842	UBL3	BC059385	Homo sapiens ubiquitin-like 3, mRNA (cDNA clone MGC:71681 IMAGE:5287541), complete cds	Cytoplasm	other	XM_003130919	PREDICTED: Sus scrofa ubiquitin-like protein 3-like (LOC100517418), mRNA
six	101857	DSTN	NM_001011546	Homo sapiens destrin (actin depolymerizing factor) (DSTN), transcript variant 2, mRNA	Cytoplasm	other	NM_001004031	Sus scrofa destrin (actin depolymerizing factor) (DSTN), mRNA >gi 217681 dbj D90053.1 PIGDESTN Sus scrofa mRNA for destrin, complete cds
six	101859	UBD	BC012472	Homo sapiens ubiquitin D, mRNA (cDNA clone MGC:21200 IMAGE:4517233), complete cds	Nucleus	other	AK231383	Sus scrofa mRNA, clone:ITT010051H04, expressed in intestine
six	101863	IFIT5	NM_012420	Homo sapiens interferon-induced protein with tetratricopeptide repeats 5 (IFIT5), mRNA	Plasma Membrane	other	XM_001925952	PREDICTED: Sus scrofa interferon-induced protein with tetratricopeptide repeats 5 (IFIT5), mRNA
six	101866	PAXBP1	NR_027873	Homo sapiens PAX3 and PAX7 binding protein 1 (PAXBP1), transcript variant 3, long non-coding RNA	Nucleus	other	XM_003132753	PREDICTED: Sus scrofa PAX3 and PAX7 binding protein 1 (PAXBP1), mRNA
six	101868	MOCS2	NM_176806	Homo sapiens molybdenum cofactor synthesis 2 (MOCS2), transcript variant 1, mRNA	Cytoplasm	enzyme	NM_001244725	Sus scrofa molybdenum cofactor synthesis 2 (MOCS2), mRNA
six	101875	TCF12	XM_005254613	PREDICTED: Homo sapiens transcription factor 12 (TCF12), transcript variant X1, mRNA	Nucleus	transcription regulator	XM_005659573	PREDICTED: Sus scrofa transcription factor 12-like (LOC100621557), mRNA
six	101878	KITLG	CR749222	Homo sapiens mRNA; cDNA DKFZp686F2250 (from clone DKFZp686F2250)	Extracellular Space	growth factor	CT737309	Pig DNA sequence from clone CH242-100L1 on chromosome 7, complete sequence

cluster	array id	gene symbols	HSA accession	HSA description	location	property	SSC accession	SSC description
six	101886	ZBTB44	XM_006718826	PREDICTED: Homo sapiens zinc finger and BTB domain containing 44 (ZBTB44), transcript variant X11, mRNA	Other	other	XR_305460	PREDICTED: Sus scrofa uncharacterized LOC102165515 (LOC102165515), misc_RNA
six	101889	BTG2	NM_006763	Homo sapiens BTG family, member 2 (BTG2), mRNA	Nucleus	transcription regulator	NM_001097505	Sus scrofa BTG family, member 2 (BTG2), mRNA
six	101894	SUCLG2	NM_003848	Homo sapiens succinate-CoA ligase, GDP-forming, beta subunit (SUCLG2), transcript variant 2, mRNA	Cytoplasm	enzyme	AK391394	Sus scrofa mRNA, clone: DCI010068F12, expressed in dendritic cells (immature)
six	101913	HSPD1	XM_005246518	PREDICTED: Homo sapiens heat shock 60kDa protein 1 (chaperonin) (HSPD1), transcript variant X1, mRNA	Cytoplasm	enzyme	AK239725	Sus scrofa mRNA, clone:THY010126A12, expressed in thymus
six	101915	GNG12	NM_018841	Homo sapiens guanine nucleotide binding protein (G protein), gamma 12 (GNG12), mRNA	Plasma Membrane	enzyme	FN673720	Sus scrofa BAC clone KNP_175E3
six	101926	RABGEF1	NM_001287062	Homo sapiens RAB guanine nucleotide exchange factor (GEF) 1 (RABGEF1), transcript variant 3, mRNA	Cytoplasm	enzyme	XM_003124438	PREDICTED: Sus scrofa RAB guanine nucleotide exchange factor (GEF) 1 (RABGEF1), transcript variant X1, mRNA
six	101931	PLEKHA1	XM_005270021	PREDICTED: Homo sapiens pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 1 (PLEKHA1), transcript variant X6, mRNA	Cytoplasm	other	XM_005654150	PREDICTED: Sus scrofa pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 1 (PLEKHA1), transcript variant X6, mRNA
six	101952	ING2	NM_001564	Homo sapiens inhibitor of growth family, member 2 (ING2), mRNA	Nucleus	transcription regulator	XM_003133342	PREDICTED: Sus scrofa inhibitor of growth family, member 2 (ING2), transcript variant X1, mRNA
six	101969	SSPN	NG_012011	Homo sapiens sarcospan (SSPN), RefSeqGene (LRG_209) on chromosome 12			XM_003355541	PREDICTED: Sus scrofa basic helix-loop-helix family, member e41 (BHLHE41), mRNA
six	101981	MME	XM_006713647	PREDICTED: Homo sapiens membrane metallo-endopeptidase (MME), transcript variant X2, mRNA	Plasma Membrane	peptidase	XM_003132501	PREDICTED: Sus scrofa membrane metallo-endopeptidase (MME), transcript variant 1, mRNA
six	101998	PIP4K2C	XM_006719604	PREDICTED: Homo sapiens phosphatidylinositol-5-phosphate 4-kinase, type II, gamma (PIP4K2C), transcript variant X2, mRNA	Cytoplasm	kinase	XM_005674385	PREDICTED: Sus scrofa phosphatidylinositol-5-phosphate 4-kinase, type II, gamma (PIP4K2C), mRNA
six	102000	RORA	XM_005254584	PREDICTED: Homo sapiens RAR-related orphan receptor A (RORA), transcript variant X1, mRNA	Nucleus	ligand-dependent nuclear receptor	XR_300947	PREDICTED: Sus scrofa uncharacterized LOC102165796 (LOC102165796), transcript variant X2, misc_RNA
six	102008	MAN2A1	NM_002372	Homo sapiens mannosidase, alpha, class 2A, member 1 (MAN2A1), mRNA	Cytoplasm	enzyme	XM_003123823	PREDICTED: Sus scrofa mannosidase, alpha, class 2A, member 1 (MAN2A1), mRNA

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six	102019	SPRY2	XM_006719753	PREDICTED: Homo sapiens sprouty homolog 2 (Drosophila) (SPRY2), transcript variant X3, mRNA	Plasma Membrane	other	XM_001927097	PREDICTED: Sus scrofa sprouty homolog 2 (Drosophila) (SPRY2), transcript variant 1, mRNA
six	102028	CAV2	NG_029920	Homo sapiens caveolin 2 (CAV2), RefSeqGene on chromosome 7	Plasma Membrane	other	NM_001123091	Sus scrofa caveolin 2 (CAV2), mRNA
six	102036	RPL7	AK313365	Homo sapiens cDNA, FLJ93893, Homo sapiens ribosomal protein L7 (RPL7), mRNA	Nucleus	transcription regulator	AK343747	Sus scrofa mRNA, clone:AMP010033F06, expressed in alveolar macrophages
six	102048	PTMA	AK314106	Homo sapiens cDNA, FLJ94794, highly similar to Homo sapiens prothymosin, alpha (gene sequence 28) (PTMA), mRNA	Nucleus	other	AK389459	Sus scrofa mRNA, clone: ADR010075D10, expressed in adrenal gland
six	102063	LMBRD2	BX647926	Homo sapiens mRNA; cDNA DKFZp686G221 (from clone DKFZp686G221)			XM_005657606	PREDICTED: Sus scrofa LMBR1 domain containing 2 (LMBRD2), transcript variant X3, mRNA
six	102070	TMEM27	AF229179	Homo sapiens collectrin mRNA, complete cds	Plasma Membrane	other	AK349208	Sus scrofa mRNA, clone:PTG010023H06, expressed in pituitary gland
six	102083	TPT1	NM_001286272	Homo sapiens tumor protein, translationally-controlled 1 (TPT1), transcript variant 1, mRNA	Cytoplasm	other	AK397472	Sus scrofa mRNA, clone: SMG010024A10, expressed in submaxillary gland
six	102087	CD200R1	AY358910	Homo sapiens clone DNA96866 CD200 Receptor (UNQ2522) mRNA, complete cds	Plasma Membrane	other	NM_001243546	Sus scrofa CD200 receptor 1 (CD200R1), mRNA
six	102096	MOB1A	AC092994	Homo sapiens 3 BAC RP11-656A15 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_005662457	>gij115552236 dbj AK230545.1 Sus scrofa mRNA, clone:AMP010008E12, expressed in alveolar macrophage
six	102109	TGIF1	XM_005258135	PREDICTED: Homo sapiens TGFB-induced factor homeobox 1 (TGIF1), transcript variant X2, mRNA	Nucleus	transcription regulator	AK238776	PREDICTED: Sus scrofa MOB kinase activator 1A (MOB1A), partial mRNA
six	102111	OMG	L05367	Human oligodendrocyte myelin glycoprotein (OMG) exons 1-2; neurofibromatosis 1 (NF1) exons 28-49; ecotropic viral integration site 2B (EVI2B) exons 1-2; ecotropic viral integration site 2A (EVI2A) exons 1-2; adenylate kinase (AK3) exons 1-2			XM_003131755	Sus scrofa mRNA, clone:THY010029D03, expressed in thymus
six	102112	SLC35F5	NM_025181	Human oligodendrocyte myelin glycoprotein (OMG) exons 1-2; neurofibromatosis 1 (NF1) exons 28-49; ecotropic viral integration site 2B (EVI2B) exons 1-2; ecotropic viral integration site 2A (EVI2A) exons 1-2; adenylate kinase (AK3) exons 1-2	Other	other	NM_001243692	PREDICTED: Sus scrofa neurofibromin 1 (NF1), mRNA
six	102115	B2M	NM_004048	Homo sapiens beta-2-microglobulin (B2M), mRNA	Plasma Membrane	transmembrane receptor	AK399280	Sus scrofa solute carrier family 35, member F5 (SLC35F5), mRNA
six	102115	B2M	NM_004048	Homo sapiens beta-2-microglobulin (B2M), mRNA	Plasma Membrane	transmembrane receptor	AK399280	Sus scrofa mRNA, clone: SPL010066H05, expressed in spleen

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six	102126	VPS4B	XM_006722582	PREDICTED: Homo sapiens vacuolar protein sorting 4 homolog B (S. cerevisiae) (VPS4B), transcript variant X1, mRNA	Cytoplasm	transporter	AK389854	Sus scrofa mRNA, clone: AMP010095C04, expressed in alveolar macrophage
six	102127	NFE2L2	NM_001145413	Homo sapiens nuclear factor, erythroid 2-like 2 (NFE2L2), transcript variant 3, mRNA	Nucleus	transcription regulator	XM_005671982	PREDICTED: Sus scrofa nuclear factor (erythroid-derived 2)-like 2 (NFE2L2), transcript variant X4, mRNA
six	102132	MGST1	NM_145791	Homo sapiens microsomal glutathione S-transferase 1 (MGST1), transcript variant 3, mRNA	Cytoplasm	enzyme	AK346900	Sus scrofa mRNA, clone:MLN010071H04, expressed in mesenteric lymph nodes
six	102133	CTGF	HM015591	Homo sapiens connective tissue growth factor (CTGF) gene, complete cds	Extracellular Space	growth factor	AK346093	Sus scrofa mRNA, clone:LVRM10045H08, expressed in liver
six	102160	GABPAP	NG_007342	Homo sapiens GA binding protein transcription factor, alpha subunit pseudogene (GABPAP) on chromosome 7			CT737356	Pig DNA sequence from clone CH242-131H21 on chromosome 14, complete sequence
six	102168	FAM199X	XM_005262079	PREDICTED: Homo sapiens family with sequence similarity 199, X-linked (FAM199X), transcript variant X1, mRNA	Other	other	XM_005673785	PREDICTED: Sus scrofa family with sequence similarity 199, X-linked (FAM199X), transcript variant X2, mRNA
six	102171	TMEM41B	BC064366	Homo sapiens transmembrane protein 41B, mRNA (cDNA clone IMAGE:5558689)	Other	other	XM_005667038	PREDICTED: Sus scrofa transmembrane protein 41B (TMEM41B), transcript variant X3, mRNA
six	102176	TMSB4XP6	NG_006508	Homo sapiens thymosin beta 4, X-linked pseudogene 6 (TMSB4XP6) on chromosome 20			XM_005673406	PREDICTED: Sus scrofa thymosin beta 4, X-linked (TMSB4X), transcript variant X1, mRNA
six	102205	KLHL7	XM_006715756	PREDICTED: Homo sapiens kelch-like family member 7 (KLHL7), transcript variant X4, mRNA	Nucleus	other	XM_003357476	PREDICTED: Sus scrofa kelch-like family member 7 (KLHL7), partial mRNA
six	102214	MSL1	XM_005257299	PREDICTED: Homo sapiens male-specific lethal 1 homolog (Drosophila) (MSL1), transcript variant X2, mRNA	Nucleus	other	XM_005653908	PREDICTED: Sus scrofa male-specific lethal 1 homolog (Drosophila) (MSL1), transcript variant X3, mRNA
six	102225	MUM1L1	XM_005262078	PREDICTED: Homo sapiens melanoma associated antigen (mutated) 1-like 1 (MUM1L1), transcript variant X3, mRNA	Cytoplasm	other	XM_005673808	PREDICTED: Sus scrofa PWWP domain-containing protein MUM1L1-like (LOC100739251), transcript variant X18, mRNA
six	102226	SPIN1	NM_006717	Homo sapiens spindlin 1 (SPIN1), mRNA	Nucleus	other	XM_005652665	PREDICTED: Sus scrofa spindlin-1-like (LOC102164268), mRNA
six	102243	CGGBP1	NM_001195308	Homo sapiens CGG triplet repeat binding protein 1 (CGGBP1), transcript variant 3, mRNA	Nucleus	other	AY803092	Sus scrofa chromosome 17 clone pkmCon19, mRNA sequence
six	102250	PCBP1	NG_029956	Homo sapiens poly(rC) binding protein 1 (PCBP1), RefSeqGene on chromosome 2	Nucleus	translation regulator	AK346714	Sus scrofa mRNA, clone:MLN010042F01, expressed in mesenteric lymph nodes

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six	102253	RNASE4	NM_002937	Homo sapiens ribonuclease, RNase A family, 4 (RNASE4), transcript variant 2, mRNA	Extracellular Space	enzyme	AK389332	Sus scrofa mRNA, clone: ADR010048D04, expressed in adrenal gland
six	102279	PRPF38B	XM_006710726	PREDICTED: Homo sapiens pre-mRNA processing factor 38B (PRPF38B), transcript variant X1, mRNA	Other	other	XM_001927806	PREDICTED: Sus scrofa PRP38 pre-mRNA processing factor 38 (yeast) domain containing B (PRPF38B), mRNA
six	102282	PJA1	XM_005262292	PREDICTED: Homo sapiens praja ring finger 1, E3 ubiquitin protein ligase (PJA1), transcript variant X2, mRNA	Cytoplasm	enzyme	XM_005673705	PREDICTED: Sus scrofa praja ring finger 1, E3 ubiquitin protein ligase (PJA1), transcript variant X6, mRNA
six	102284	SAMD8	XM_005269541	PREDICTED: Homo sapiens sterile alpha motif domain containing 8 (SAMD8), transcript variant X2, mRNA	Cytoplasm	other	XM_005671121	PREDICTED: Sus scrofa sterile alpha motif domain containing 8 (SAMD8), transcript variant X2, mRNA
six	102289		AC007494	Homo sapiens chromosome 16 clone RP11-329J18, complete sequence			XR_299711	PREDICTED: Sus scrofa uncharacterized LOC100624112 (LOC100624112), misc_RNA
six	102290	PGRMC2	NM_006320	Homo sapiens progesterone receptor membrane component 2 (PGRMC2), mRNA	Nucleus	other	AK399487	Sus scrofa mRNA, clone: BKFL10003B10, expressed in backfat
six	102293	GIMAP4	XM_005250018	PREDICTED: Homo sapiens GTPase, IMAP family member 4 (GIMAP4), transcript variant X2, mRNA	Nucleus	other	AK389750	Sus scrofa mRNA, clone: AMP010060C08, expressed in alveolar macrophage
six	102299	PEL11	XM_005264436	PREDICTED: Homo sapiens pellino E3 ubiquitin protein ligase 1 (PEL11), transcript variant X1, mRNA	Cytoplasm	enzyme	XM_003361087	PREDICTED: Sus scrofa E3 ubiquitin-protein ligase pellino homolog 1-like (LOC100627613), transcript variant 1, mRNA
six	102300	AHR	NM_001621	Homo sapiens aryl hydrocarbon receptor (AHR), mRNA	Nucleus	ligand-dependent nuclear receptor	XM_005667666	PREDICTED: Sus scrofa aryl hydrocarbon receptor (AHR), mRNA
six	102308	TWSG1	NM_020648	Homo sapiens twisted gastrulation BMP signaling modulator 1 (TWSG1), mRNA	Extracellular Space	other	XM_003127831	PREDICTED: Sus scrofa twisted gastrulation homolog 1 (Drosophila) (TWSG1), mRNA
six	102345	MDM4	AC019201	Homo sapiens BAC clone RP11-383I5 from 2, complete sequence			XM_005656675	PREDICTED: Sus scrofa Mdm4 p53 binding protein homolog (mouse) (MDM4), mRNA
six	102350	RPS25P6	NG_006648	Homo sapiens ribosomal protein S25 pseudogene 6 (RPS25P6) on chromosome 5			XM_005667415	PREDICTED: Sus scrofa ribosomal protein S25 (RPS25), transcript variant X3, mRNA
six	102352		AB590412	Synthetic construct DNA, clone: pFN21AE1314, Homo sapiens C9 gene for complement component 9, without stop codon, in Flexi system			NM_001097448	Sus scrofa complement component C9 (LOC100037951), mRNA >gi 86604372 gb DQ333198.1 Sus scrofa complement component C9 mRNA, complete cds
six	102366	A2M	XM_006719056	PREDICTED: Homo sapiens alpha-2-macroglobulin (A2M), transcript variant X1, mRNA	Extracellular Space	transporter	AK398806	Sus scrofa mRNA, clone: ADR010095B09, expressed in adrenal gland

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six	102369	SLC38A2	XM_005268983	PREDICTED: Homo sapiens solute carrier family 38, member 2 (SLC38A2), transcript variant X1, mRNA	Plasma Membrane	transporter	XM_005664159	PREDICTED: Sus scrofa sodium-coupled neutral amino acid transporter 2-like (LOC100738862), transcript variant X2, mRNA
six	102392	NUCKS1	XM_005245453	PREDICTED: Homo sapiens nuclear casein kinase and cyclin-dependent kinase substrate 1 (NUCKS1), transcript variant X1, mRNA	Nucleus	kinase	XM_005667533	PREDICTED: Sus scrofa nuclear casein kinase and cyclin-dependent kinase substrate 1 (NUCKS1), transcript variant X1, mRNA
six	102398		AC006270	Homo sapiens chromosome 17, clone hRPK.556_O_9, complete sequence			XR_299737	PREDICTED: Sus scrofa uncharacterized LOC100624113 (LOC100624113), transcript variant X1, misc_RNA
six	102402	HSPE1	NM_002157	Homo sapiens heat shock 10kDa protein 1 (HSPE1), mRNA	Cytoplasm	enzyme	AK344811	Sus scrofa mRNA, clone:HTMT10068H01, expressed in hypothalamus
six	102456	TMED10	NM_006827	Homo sapiens transmembrane emp24-like trafficking protein 10 (yeast) (TMED10), mRNA	Cytoplasm	transporter	XM_001926711	PREDICTED: Sus scrofa transmembrane emp24-like trafficking protein 10 (yeast) (TMED10), mRNA
six	102457	TPM4	NM_001145160	Homo sapiens tropomyosin 4 (TPM4), transcript variant 1, mRNA	Cytoplasm	other	XM_005661198	PREDICTED: Sus scrofa tropomyosin 4 (TPM4), transcript variant X1, mRNA
six	102459	PNN	NM_002687	Homo sapiens pinin, desmosome associated protein (PNN), mRNA	Plasma Membrane	other	NM_001244231	Sus scrofa pinin, desmosome associated protein (PNN), mRNA
six	102483	SPCS3	NM_021928	Homo sapiens signal peptidase complex subunit 3 homolog (S. cerevisiae) (SPCS3), mRNA	Cytoplasm	peptidase	XM_003133320	PREDICTED: Sus scrofa signal peptidase complex subunit 3 homolog (S. cerevisiae) (SPCS3), mRNA
six	102485	RPL5	AK314720	Homo sapiens cDNA, FLJ95579, Homo sapiens ribosomal protein L5 (RPL5), mRNA	Cytoplasm	other	AK393844	Sus scrofa mRNA, clone: LNG010045C12, expressed in lung
six	102491		AC117395	Homo sapiens 3 BAC RP11-651P23 (Roswell Park Cancer Institute Human BAC Library) complete sequence			AK391845	Sus scrofa mRNA, clone: HTMT10027F05, expressed in hypothalamus
six	102492		AC119673	Homo sapiens chromosome 1 clone RP11-212H11, complete sequence			CU207321	Pig DNA sequence from clone CH242-186C11 on chromosome X, complete sequence
six	102496	GLYAT	AB665285	Homo sapiens mRNA for glycine-N-acyltransferase, complete cds	Cytoplasm	enzyme	XM_005660882	PREDICTED: Sus scrofa glycine N-acyltransferase-like (LOC100518644), transcript variant X3, mRNA
six	102515	CTSC	AB527642	Synthetic construct DNA, clone: pF1KB5535, Homo sapiens CTSC gene for cathepsin C, without stop codon, in Flexi system			XM_003129741	PREDICTED: Sus scrofa cathepsin C (CTSC), mRNA
six	102519	LMO7	XM_006719826	PREDICTED: Homo sapiens LIM domain 7 (LMO7), transcript variant X40, mRNA	Cytoplasm	enzyme	AK393134	Sus scrofa mRNA, clone: KDN010009E07, expressed in kidney

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six	102543	ZKSCAN1	AK056630	Homo sapiens cDNA FLJ32068 fis, clone OCBBF1000114	Nucleus	transcription regulator	CU151871	Pig DNA sequence from clone CH242-290E19 on chromosome 4, complete sequence
six	102559	RPL17-C18orf3	NM_001199356	Homo sapiens RPL17-C18orf32 readthrough (RPL17-C18orf32), transcript variant 2, mRNA	Other	other	XM_005659459	PREDICTED: Sus scrofa chromosome 1 open reading frame, human C18orf32 (C1H18orf32), transcript variant X4, mRNA
six	102564	CXADR	NG_029458	Homo sapiens coxsackie virus and adenovirus receptor (CXADR), RefSeqGene on chromosome 21			XM_001924554	PREDICTED: Sus scrofa coxsackie-adenovirus-receptor homolog (CAR), transcript variant 1, mRNA
six	102578	GSTA1	NM_145740	Homo sapiens glutathione S-transferase alpha 1 (GSTA1), mRNA	Cytoplasm	enzyme	XM_005666466	PREDICTED: Sus scrofa glutathione S-transferase alpha 1 (GSTA1), transcript variant X3, mRNA
six	102646	PRKAR2B	BC075800	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta, mRNA (cDNA clone MGC:87711 IMAGE:30331962), complete cds	Cytoplasm	kinase	AK390717	Sus scrofa mRNA, clone: BKFL10054H05, expressed in backfat
six	102654	NFYB	AK291934	Homo sapiens cDNA FLJ75756 complete cds, highly similar to Homo sapiens nuclear transcription factor Y, beta (NFYB), mRNA	Nucleus	transcription regulator	XM_005664188	PREDICTED: Sus scrofa nuclear transcription factor Y, beta (NFYB), transcript variant X2, mRNA
six	102668	FMO1	AK296198	Homo sapiens cDNA FLJ57511 complete cds, highly similar to Dimethylaniline monooxygenase (N-oxide-forming) 1 (EC 1.14.13.8)	Cytoplasm	enzyme	XM_005656645	PREDICTED: Sus scrofa flavin containing monooxygenase 1 (FMO1), transcript variant X1, mRNA
six	102684	KNG1	NG_016009	Homo sapiens kininogen 1 (KNG1), RefSeqGene on chromosome 3	Extracellular Space	other	CT868688	Pig DNA sequence from clone CH242-510G16 on chromosome 7, complete sequence
six	102703		AL606465	Human DNA sequence from clone RP11-781D11 on chromosome 1, complete sequence			CR956385	Pig DNA sequence from clone CH242-177A17 on chromosome 6, complete sequence
six	102713	HP	NM_001126102	Homo sapiens haptoglobin (HP), transcript variant 2, mRNA	Extracellular Space	peptidase	XM_005664359	PREDICTED: Sus scrofa haptoglobin (HP), transcript variant X1, mRNA
six	102741	ABCC2	AL392107	Human DNA sequence from clone RP11-114F7 on chromosome 10, complete sequence			XM_001929359	PREDICTED: Sus scrofa ATP-binding cassette, sub-family C (CFTR/MRP), member 2 (ABCC2), mRNA
six	102747		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AK395369	Sus scrofa mRNA, clone: OVRM10210E02, expressed in ovary
six	102753	USP38	BC068975	Homo sapiens ubiquitin specific peptidase 38, mRNA (cDNA clone MGC:70375 IMAGE:6067501), complete cds	Other	peptidase	XM_003357011	PREDICTED: Sus scrofa ubiquitin carboxyl-terminal hydrolase 38-like (LOC100624340), partial mRNA
six	102784	PPHLN1	XM_006719452	PREDICTED: Homo sapiens periphilin 1 (PPHLN1), transcript variant X7, mRNA	Nucleus	other	XM_005664146	PREDICTED: Sus scrofa periphilin 1 (PPHLN1), transcript variant X4, mRNA

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six	102804	FIP1L1	XM_005265777	PREDICTED: Homo sapiens factor interacting with PAPOLA and CPSF1 (FIP1L1), transcript variant X10, mRNA	Nucleus	other	AK395642	Sus scrofa mRNA, clone: OVRT10042C05, expressed in ovary
six	102807	CTAGE5	BC064355	Homo sapiens CTAGE family, member 5, mRNA (cDNA clone MGC:75562 IMAGE:4803802), complete cds	Other	enzyme	AK237997	Sus scrofa mRNA, clone:TCH010026F06, expressed in trachea
six	102829	AGTR1	NM_032049	Homo sapiens angiotensin II receptor, type 1 (AGTR1), transcript variant 5, mRNA	Plasma Membrane	G-protein coupled receptor	XM_003132469	PREDICTED: Sus scrofa angiotensin II receptor, type 1 (AGTR1), mRNA
six	102834	NR1H4	NG_029843	Homo sapiens nuclear receptor subfamily 1, group H, member 4 (NR1H4), RefSeqGene on chromosome 12	Nucleus	ligand-dependent nuclear receptor	KF597011	Sus scrofa farnesoid X receptor protein variant 1 mRNA, complete cds
six	102844	METTL10	AK023081	Homo sapiens cDNA FLJ13019 fis, clone NT2RP3000736, highly similar to Protein FAM53B			XM_003133220	PREDICTED: Sus scrofa methyltransferase like 10 (METTL10), transcript variant X1, mRNA
six	102872	GLYAT	AB665285	Homo sapiens mRNA for glycine-N-acyltransferase, complete cds	Cytoplasm	enzyme	XM_003122702	PREDICTED: Sus scrofa glycine N-phenylacetyltransferase-like (LOC100517803), transcript variant X1, mRNA
six	102873	PIGAP1	NG_001174	Homo sapiens phosphatidylinositol glycan anchor biosynthesis, class A, pseudogene 1 (PIGAP1) on chromosome 12			CU463953	Pig DNA sequence from clone CH242-100L3 on chromosome X, complete sequence
six	102897	GYS2	XM_006719063	PREDICTED: Homo sapiens glycogen synthase 2 (liver) (GYS2), transcript variant X5, mRNA	Cytoplasm	enzyme	XM_005655656	PREDICTED: Sus scrofa glycogen synthase 2 (liver) (GYS2), transcript variant X2, mRNA
six	102905	SERPINA3	HQ448280	Synthetic construct Homo sapiens clone IMAGE:100071683; CCSD000391_04 serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 3 (SERPINA3) gene, encodes complete protein	Extracellular Space	other	AK394152	Sus scrofa mRNA, clone: LVRM10050F11, expressed in liver
six	102933		AB590492	Synthetic construct DNA, clone: pFN21AE2058, Homo sapiens TF gene for transferrin, without stop codon, in Flexi system			XM_005669839	PREDICTED: Sus scrofa transferrin (TF), transcript variant X2, mRNA
six	102945	KLKB1	AK292624	Homo sapiens cDNA FLJ77744 complete cds, highly similar to Homo sapiens kallikrein B, plasma (Fletcher factor) 1 (KLKB1), mRNA	Extracellular Space	peptidase	AK232948	Sus scrofa mRNA, clone:LVRM10054D07, expressed in liver
six	102950	SLC16A12	NG_021179	Homo sapiens solute carrier family 16, member 12 (SLC16A12), RefSeqGene on chromosome 10	Other	other	AK350115	Sus scrofa mRNA, clone:SMG010087F11, expressed in submaxillary gland

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six	102961	GHR	XM_005248288	PREDICTED: Homo sapiens growth hormone receptor (GHR), transcript variant X1, mRNA	Plasma Membrane	transmembrane receptor	AK233142	Sus scrofa mRNA, clone:LVRM10088G11, expressed in liver
six	102964		AC246972	Homo sapiens BAC clone CH17-203B2 from chromosome 1, complete sequence			CT827867	Pig DNA sequence from clone CH242-123K15 on chromosome 7, complete sequence
six	102996	NEK7	NM_133494	Homo sapiens NIMA-related kinase 7 (NEK7), mRNA	Nucleus	kinase	XM_005667990	PREDICTED: Sus scrofa NIMA-related kinase 7 (NEK7), transcript variant X2, mRNA
six	103044	PDHB	NM_001173468	Homo sapiens pyruvate dehydrogenase (lipoamide) beta (PDHB), transcript variant 2, mRNA	Cytoplasm	enzyme	AK393624	Sus scrofa mRNA, clone: KDN010079G05, expressed in kidney
six	103045	ZNF567	AB384923	Synthetic construct DNA, clone: pF1KB4274, Homo sapiens ZNF567 gene for zinc finger protein 567, complete cds, without stop codon, in Flexi system			XM_005664540	PREDICTED: Sus scrofa zinc finger protein 567 (ZNF567), mRNA
six	103116	METAP2	XM_005268583	PREDICTED: Homo sapiens methionyl aminopeptidase 2 (METAP2), transcript variant X1, mRNA	Cytoplasm	peptidase	XM_005664247	PREDICTED: Sus scrofa methionyl aminopeptidase 2 (METAP2), transcript variant X2, mRNA
six	103129	SYF2	AK303582	Homo sapiens cDNA FLJ58970 complete cds, highly similar to Homo sapiens SYF2 homolog, RNA splicing factor (SYF2), transcript variant 1, mRNA	Nucleus	other	AK234994	Sus scrofa mRNA, clone:OVRM10039C04, expressed in ovary
six	103130	IL1RAP	NG_029105	Homo sapiens interleukin 1 receptor accessory protein (IL1RAP), RefSeqGene on chromosome 3			XM_005670069	PREDICTED: Sus scrofa interleukin 1 receptor accessory protein (IL1RAP), transcript variant X4, mRNA
six	103133	HMGN3	XM_005248769	PREDICTED: Homo sapiens high mobility group nucleosomal binding domain 3 (HMGN3), transcript variant X2, mRNA	Nucleus	other	XM_005659423	PREDICTED: Sus scrofa high mobility group nucleosomal binding domain 3 (HMGN3), transcript variant X4, mRNA
six	103143		AB385005	Synthetic construct DNA, clone: pF1KB4969, Homo sapiens F5 gene for coagulation factor V precursor, complete cds, without stop codon, in Flexi system			XM_005663099	PREDICTED: Sus scrofa coagulation factor V (proaccelerin, labile factor) (F5), transcript variant X1, mRNA
six	103176	PLP1	NG_008863	Homo sapiens proteolipid protein 1 (PLP1), RefSeqGene on chromosome X	Plasma Membrane	other	AK400050	Sus scrofa mRNA, clone: HTMT10140A03, expressed in hypothalamus
six	103179	FAM198B	BC045710	Homo sapiens chromosome 4 open reading frame 18, mRNA (cDNA clone IMAGE:4798067)	Cytoplasm	other	XM_005666658	PREDICTED: Sus scrofa family with sequence similarity 198, member B (FAM198B), transcript variant X4, mRNA

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six	103197	ABC8-4299840	AC254564	Homo sapiens FOSMID clone ABC8-4299840D18 from chromosome 22, complete sequence			BX296515	Pig DNA sequence from clone PigE-121D21, complete sequence
six	103215	HIGD1A	NM_001099669	Homo sapiens HIG1 hypoxia inducible domain family, member 1A (HIGD1A), transcript variant 2, mRNA	Cytoplasm	other	XM_005669425	PREDICTED: Sus scrofa HIG1 hypoxia inducible domain family, member 1A (HIGD1A), transcript variant X3, mRNA
six	103217	ADH1C	NM_000669	Homo sapiens alcohol dehydrogenase 1C (class I), gamma polypeptide (ADH1C), mRNA	Cytoplasm	enzyme	AK394189	Sus scrofa mRNA, clone: LVRM10082B02, expressed in liver
six	103224	POLK	XR_427714	PREDICTED: Homo sapiens polymerase (DNA directed) kappa (POLK), transcript variant X11, misc_RNA	Nucleus	enzyme	AK391378	Sus scrofa mRNA, clone: DCI010065G08, expressed in dendritic cells (immature)
six	103227	CNTRL	AL137068	Human DNA sequence from clone RP11-165P4 on chromosome 9q34.11-34.13, complete sequence			XM_005660404	PREDICTED: Sus scrofa centriolin (CNTRL), mRNA
six	103236	CYP3A4	NM_017460	Homo sapiens cytochrome P450, family 3, subfamily A, polypeptide 4 (CYP3A4), transcript variant 1, mRNA	Cytoplasm	enzyme	EU918131	Sus scrofa breed Bama miniature cytochrome P450 CYP3A mRNA, complete cds
six	103240	CYP26B1	XM_005264433	PREDICTED: Homo sapiens cytochrome P450, family 26, subfamily B, polypeptide 1 (CYP26B1), transcript variant X1, mRNA	Cytoplasm	enzyme	AY609705	Sus scrofa clone Clu_26808,scr,msk,p1,Contig1, mRNA sequence
six	103249	COLEC10	AC080033	Homo sapiens chromosome 8, clone RP11-885J16, complete sequence	Cytoplasm	other	XM_003354985	PREDICTED: Sus scrofa collectin subfamily member 10 (C-type lectin) (COLEC10), mRNA
six	103267	CLINT1	NG_027820	Homo sapiens clathrin interactor 1 (CLINT1), RefSeqGene on chromosome 5	Cytoplasm	other	XM_005672588	PREDICTED: Sus scrofa clathrin interactor 1 (CLINT1), mRNA
six	103287	IGFBP3	NG_011508	Homo sapiens insulin-like growth factor binding protein 3 (IGFBP3), RefSeqGene on chromosome 7	Extracellular Space	other	AY464121	Sus scrofa insulin-like growth factor-binding protein 3 gene, complete cds
six	103320	BMPR2	BC043650	Homo sapiens bone morphogenetic protein receptor, type II (serine/threonine kinase), mRNA (cDNA clone IMAGE:5277612)	Plasma Membrane	kinase	FM995262	Sus scrofa partial mRNA for bone morphogenetic protein receptor type II (serine/threonine kinase) (BMPR2 gene), 3'UTR region
six	103323	FGL1	XM_005273450	PREDICTED: Homo sapiens fibrinogen-like 1 (FGL1), transcript variant X1, mRNA	Extracellular Space	other	AK394059	Sus scrofa mRNA, clone: LVR010085D10, expressed in liver
six	103328	DOCK3	NG_028012	Homo sapiens dedicator of cytokinesis 3 (DOCK3), RefSeqGene on chromosome 3			FO082712	Pig DNA sequence from clone WTSI_1061-78D9 on chromosome Y, complete sequence
six	103331	GRB10	XM_005271767	PREDICTED: Homo sapiens growth factor receptor-bound protein 10 (GRB10), transcript variant X8, mRNA	Cytoplasm	other	EF174199	Sus scrofa Grb10 splice variant 9 mRNA, complete cds, alternatively spliced

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six	103333	FANCF	AY928335	Homo sapiens Fanconi anemia, complementation group F (FANCF) gene, complete cds	Nucleus	other	AK389448	Sus scrofa mRNA, clone: ADR010073B09, expressed in adrenal gland
six	103340	ZNF514	XM_006712806	PREDICTED: Homo sapiens zinc finger protein 514 (ZNF514), transcript variant X3, mRNA	Nucleus	other	XM_005658596	PREDICTED: Sus scrofa zinc finger protein 514 (ZNF514), mRNA
six	103351	PTCH1	NG_007664	Homo sapiens patched 1 (PTCH1), RefSeqGene on chromosome 9	Plasma Membrane	transmembrane receptor	FP015816	Pig DNA sequence from clone CH242-60D3 on chromosome X, complete sequence
six	103352	GPHN	NG_008875	Homo sapiens gephyrin (GPHN), RefSeqGene on chromosome 14	Plasma Membrane	enzyme	AK394243	Sus scrofa mRNA, clone: LVRM10113D05, expressed in liver
six	103357	SYBU	AK000373	Homo sapiens cDNA FLJ20366 fis, clone HEP18008	Other	other	XM_003354993	PREDICTED: Sus scrofa syntabulin (syntaxin-interacting) (SYBU), transcript variant X2, mRNA
six	103358	FHIT	NG_007551	Homo sapiens fragile histidine triad (FHIT), RefSeqGene on chromosome 3	Cytoplasm	enzyme	XM_003126492	PREDICTED: Sus scrofa C-type lectin domain family 2 member H-like (LOC100521013), transcript variant 1, mRNA
six	103365		HG497923	TPA: Homo sapiens CTD-2636A23.2 gene for long non-coding RNA OTTHUMT00000429881.1, antisense			AK348174	Sus scrofa mRNA, clone:OVRM10087E07, expressed in ovary
six	103367	SLCO1B3	NG_032071	Homo sapiens solute carrier organic anion transporter family, member 1B3 (SLCO1B3), RefSeqGene on chromosome 12	Plasma Membrane	transporter	XM_005655661	PREDICTED: Sus scrofa solute carrier organic anion transporter family, member 1B3 (SLCO1B3), transcript variant X4, mRNA
six	103376	HSD17B13	NM_001136230	Homo sapiens hydroxysteroid (17-beta) dehydrogenase 13 (HSD17B13), transcript variant B, mRNA	Extracellular Space	enzyme	NM_001243622	Sus scrofa hydroxysteroid (17-beta) dehydrogenase 13 (HSD17B13), mRNA >gi 115552604 dbj AK232809.1 Sus scrofa mRNA, clone:LVRM10030B09, expressed in liver
six	103384	RNF114	BC066919	Homo sapiens ring finger protein 114, mRNA (cDNA clone MGC:87140 IMAGE:5264729), complete cds	Extracellular Space	other	AK398414	Sus scrofa mRNA, clone: THY010058G12, expressed in thymus
six	103395	FXYD5	AC002390	Human DNA from overlapping chromosome 19-specific cosmids R30072 and R28588, genomic sequence, complete sequence			XM_005664495	PREDICTED: Sus scrofa FXYP domain containing ion transport regulator 5 (FXYP5), mRNA
six	103408	CAPRIN1	NM_005898	Homo sapiens cell cycle associated protein 1 (CAPRIN1), transcript variant 1, mRNA	Plasma Membrane	other	XM_005661024	PREDICTED: Sus scrofa cell cycle associated protein 1 (CAPRIN1), transcript variant X5, mRNA
six	103442	C3	BC150299	Homo sapiens cDNA clone IMAGE:8860379, containing frame-shift errors	Extracellular Space	peptidase	AK394185	Sus scrofa mRNA, clone: LVRM10077G02, expressed in liver

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six	103452	PLA2G1B	NM_000928	Homo sapiens phospholipase A2, group IB (pancreas) (PLA2G1B), mRNA	Extracellular Space	enzyme	XM_005670709	PREDICTED: Sus scrofa phospholipase A2, group IB (pancreas) (PLA2G1B), transcript variant X1, mRNA
six	103461	IL11RA	NR_052010	Homo sapiens interleukin 11 receptor, alpha (IL11RA), transcript variant 4, non-coding RNA	Plasma Membrane	transmembrane receptor	AK234812	Sus scrofa mRNA, clone:OVRM10018E11, expressed in ovary
six	103474	ENO1	XM_006710433	PREDICTED: Homo sapiens enolase 1, (alpha) (ENO1), transcript variant X1, mRNA	Cytoplasm	enzyme	AK395106	Sus scrofa mRNA, clone: OVRM10065F01, expressed in ovary
six	103572	DPYD	XM_005270562	PREDICTED: Homo sapiens dihydropyrimidine dehydrogenase (DPYD), transcript variant X2, mRNA	Cytoplasm	enzyme	NM_214044	Sus scrofa dihydropyrimidine dehydrogenase (DPYD), mRNA
six	103581	SLC2A1	NM_006516	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 1 (SLC2A1), mRNA	Plasma Membrane	transporter	X17058	Sus scrofa mRNA for glucose transport protein
six	103657	TUFM	NM_003321	Homo sapiens Tu translation elongation factor, mitochondrial (TUFM), mRNA	Cytoplasm	translation regulator	AK392197	Sus scrofa mRNA, clone: HTMT10056A03, expressed in hypothalamus
six	103737	GSTM3	NM_000849	Homo sapiens glutathione S-transferase mu 3 (brain) (GSTM3), transcript variant 1, mRNA	Cytoplasm	enzyme	NM_001244939	Sus scrofa glutathione S-transferase Mu 3-like (LOC100514231), mRNA >gi 52351354 gb AY609784.1 Sus scrofa clone Clu_30933.scr.msk.p1.Contig9, mRNA sequence
six	103744		FM206294	Cloning vector pchilGHG1			AK399449	Sus scrofa mRNA, clone: AMP010057E04, expressed in alveolar macrophage
six	103857	ATP8A2	XM_006719834	PREDICTED: Homo sapiens ATPase, aminophospholipid transporter, class I, type 8A, member 2 (ATP8A2), transcript variant X4, mRNA	Plasma Membrane	transporter	AK398211	Sus scrofa mRNA, clone: TES010045C06, expressed in testis
six	103884		BC015682	Homo sapiens cDNA clone IMAGE:4651465, **** WARNING: chimeric clone ****			AK394458	Sus scrofa mRNA, clone: MLN010042F07, expressed in mesenteric lymph node
six	103931	PLA2G2A	NM_001161729	Homo sapiens phospholipase A2, group IIA (platelets, synovial fluid) (PLA2G2A), transcript variant 4, mRNA	Cytoplasm	enzyme	XM_005665062	PREDICTED: Sus scrofa phospholipase A2, group IIA (platelets, synovial fluid) (PLA2G2A), mRNA
six	103945	NR1I2	HQ709177	Homo sapiens pregnane X nuclear receptor (NR1I2) mRNA, complete cds	Nucleus	ligand-dependent nuclear receptor	XM_005670184	PREDICTED: Sus scrofa nuclear receptor subfamily 1, group I, member 2 (NR1I2), transcript variant X2, mRNA
six	103964	IL2RG	NM_000206	Homo sapiens interleukin 2 receptor, gamma (IL2RG), mRNA	Plasma Membrane	transmembrane receptor	AK390911	Sus scrofa mRNA, clone: CLNT10020B01, expressed in colon

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six	103991	EMR4P	NR_024075	Homo sapiens egf-like module containing, mucin-like, hormone receptor-like 4 pseudogene (EMR4P), non-coding RNA >gi 30017182 gb AF489700.1 Homo sapiens inactive EMR4 mRNA, complete sequence	Plasma Membrane	G-protein coupled receptor	XM_003361975	PREDICTED: Sus scrofa EGF-like module containing, mucin-like, hormone receptor-like sequence 4 (EMR4), partial mRNA
six	104006	PTGIS	NG_007940	Homo sapiens prostaglandin I2 (prostacyclin) synthase (PTGIS), RefSeqGene on chromosome 20	Cytoplasm	enzyme	EF167734	Sus scrofa clone KVL11642 microsatellite sequence
six	104016	CD52	BC000644	Homo sapiens CD52 molecule, mRNA (cDNA clone MGC:1783 IMAGE:3345325), complete cds	Plasma Membrane	other	AK399698	Sus scrofa mRNA, clone: BMWN10028E09, expressed in bone marrow
six	104017	CD79B	NM_001039933	Homo sapiens CD79b molecule, immunoglobulin-associated beta (CD79B), transcript variant 3, mRNA	Plasma Membrane	transmembrane receptor	XM_005668678	PREDICTED: Sus scrofa CD79b molecule, immunoglobulin-associated beta (CD79B), transcript variant X1, mRNA
six	104028	UGDH	BC013430	Homo sapiens, clone IMAGE:4051555, mRNA	Nucleus	enzyme	XM_003356899	PREDICTED: Sus scrofa UDP-glucose 6-dehydrogenase (UGDH), transcript variant 1, mRNA
six	104030	GDAP2	FM206294	Cloning vector pchiLGHG1			XM_001929181	PREDICTED: Sus scrofa ganglioside induced differentiation associated protein 2 (GDAP2), transcript variant X1, mRNA
six	104073	LHX1	NM_005568	Homo sapiens LIM homeobox 1 (LHX1), mRNA	Nucleus	transcription regulator	AK393211	Sus scrofa mRNA, clone: KDN010022D02, expressed in kidney
six	104120		FM206294	Cloning vector pchiLGHG1			L36913	Pig microsatellite DNA (CA repeat)
six	104121	ENO3	XM_005256521	PREDICTED: Homo sapiens enolase 3 (beta, muscle) (ENO3), transcript variant X1, mRNA	Cytoplasm	enzyme	AK390621	Sus scrofa mRNA, clone: BKFL10009D08, expressed in backfat
six	104145	CCT6P4	NG_016479	Homo sapiens chaperonin containing TCP1, subunit 6 (zeta) pseudogene 4 (CCT6P4) on chromosome 3			XM_005662025	PREDICTED: Sus scrofa chaperonin containing TCP1, subunit 6A (zeta 1) (CCT6A), mRNA
six	104240	CHI3L1	M80927	Human glycoprotein mRNA, complete cds	Extracellular Space	enzyme	NM_001001540	Sus scrofa chitinase 3-like 1 (cartilage glycoprotein-39) (CHI3L1), mRNA >gi 643470 gb U19900.1 SSU19900 Sus scrofa 38kDa heparin-binding glycoprotein mRNA, complete cds
six	104241	PSMD8	NM_002812	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 8 (PSMD8), mRNA >gi 194739670 gb EU668354.1 Homo sapiens epididymis secretory sperm binding protein Li 91n (HEL-S-91n) mRNA, complete cds	Cytoplasm	other	XM_005664584	PREDICTED: Sus scrofa proteasome (prosome, macropain) 26S subunit, non-ATPase, 8 (PSMD8), mRNA

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six	104259	LDB1	XM_005270262	PREDICTED: Homo sapiens LIM domain binding 1 (LDB1), transcript variant X1, mRNA	Nucleus	transcription regulator	NM_001078685	Sus scrofa CLIM2 (LOC780436), mRNA >gij115635847 dbj AB242619.1 Sus scrofa mRNA for CLIM2, complete cds
six	104271	RPL37A	L06499	Homo sapiens ribosomal protein L37a (RPL37A) mRNA, complete cds	Cytoplasm	other	AK346581	Sus scrofa mRNA, clone:MLN010015A03, expressed in mesenteric lymph nodes
six	104280	MTX1	NM_002455	Homo sapiens metaxin 1 (MTX1), transcript variant 1, mRNA	Cytoplasm	transporter	AK392795	Sus scrofa mRNA, clone: HTMT10100C01, expressed in hypothalamus
six	104307	FECH	BT019958	Homo sapiens ferrochelatase (protoporphyrin) mRNA, complete cds	Cytoplasm	enzyme	AY609419	Sus scrofa clone Clu_10913.scr.msk.p1.Contig2, mRNA sequence
six	104325	ANAPC4	AK292336	Homo sapiens cDNA FLJ77597 complete cds, highly similar to Homo sapiens anaphase promoting complex subunit 4 (ANAPC4), mRNA	Nucleus	enzyme	XM_005674219	PREDICTED: Sus scrofa anaphase promoting complex subunit 4 (ANAPC4), mRNA
six	104329	CCNB1IP1	AK225451	Homo sapiens mRNA for cyclin B1 interacting protein 1 isoform a variant, clone: HSI02563	Nucleus	enzyme	XR_298794	PREDICTED: Sus scrofa cyclin B1 interacting protein 1, E3 ubiquitin protein ligase (CCNB1IP1), transcript variant X3, misc_RNA
six	104370	DDAH2	XM_005272783	PREDICTED: Homo sapiens dimethylarginine dimethylaminohydrolase 2 (DDAH2), transcript variant X1, mRNA >gij578842051 ref XM_005275361.2 PREDICTED: Homo sapiens dimethylarginine dimethylaminohydrolase 2 (DDAH2), transcript variant X1, mRNA	Cytoplasm	enzyme	AK235171	Sus scrofa mRNA, clone:OVRM10055D04, expressed in ovary
six	104372	CYP4B1	NM_000779	Homo sapiens cytochrome P450, family 4, subfamily B, polypeptide 1 (CYP4B1), transcript variant 2, mRNA	Cytoplasm	enzyme	XM_003128017	PREDICTED: Sus scrofa cytochrome P450 4B1-like (LOC100523909), transcript variant X1, mRNA
six	104389	LAMP3	AK302894	Homo sapiens cDNA FLJ51411 complete cds, highly similar to Lysosome-associated membrane glycoprotein 3 precursor	Plasma Membrane	other	AK350185	Sus scrofa mRNA, clone:SPL010008H03, expressed in spleen
six	104439	POLR2C	AK293112	Homo sapiens cDNA FLJ76636 complete cds, highly similar to Homo sapiens polymerase (RNA) II (DNA directed) polypeptide C, 33kDa (POLR2C), transcript variant alpha, mRNA	Nucleus	enzyme	XM_003355801	PREDICTED: Sus scrofa polymerase (RNA) II (DNA directed) polypeptide C, 33kDa (POLR2C), mRNA

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six	104469	RTKN	AB527260	Synthetic construct DNA, clone: pF1KB5288, Homo sapiens RTKN gene for rhotekin, without stop codon, in Flexi system			XM_005674417	PREDICTED: Sus scrofa rhotekin (RTKN), partial mRNA
six	104504	KRT4	NM_002272	Homo sapiens keratin 4 (KRT4), mRNA	Cytoplasm	other	XM_001927218	PREDICTED: Sus scrofa keratin 4 (KRT4), mRNA
six	104508	GSK3A	CR749620	Homo sapiens mRNA; cDNA DKFZp686D0638 (from clone DKFZp686D0638)	Nucleus	kinase	XM_003127173	PREDICTED: Sus scrofa glycogen synthase kinase 3 alpha (GSK3A), mRNA
six	104510	CEBPG	NM_001252296	Homo sapiens CCAAT/enhancer binding protein (C/EBP), gamma (CEBPG), transcript variant 2, mRNA	Nucleus	transcription regulator	XM_005653271	PREDICTED: Sus scrofa CCAAT/enhancer binding protein (C/EBP), gamma (CEBPG), transcript variant X7, mRNA
six	104512	IL17RC	EF676032	Homo sapiens receptor for IL17F isoform 4 (IL17RC) mRNA, complete cds, alternatively spliced	Plasma Membrane	transmembrane receptor	AK396665	Sus scrofa mRNA, clone: PST010072A04, expressed in prostate
six	104519	BUB3	NM_001007793	Homo sapiens BUB3 mitotic checkpoint protein (BUB3), transcript variant 2, mRNA	Nucleus	other	XM_005671519	PREDICTED: Sus scrofa BUB3 mitotic checkpoint protein (BUB3), transcript variant X3, mRNA
six	104526	EPHB6	NR_104001	Homo sapiens EPH receptor B6 (EPHB6), transcript variant 4, non-coding RNA	Plasma Membrane	kinase	XM_005673112	PREDICTED: Sus scrofa EPH receptor B6 (EPHB6), mRNA
six	104582	SORBS3	AK301196	Homo sapiens cDNA FLJ60912 complete cds, highly similar to Vinexin	Cytoplasm	other	XM_005670412	PREDICTED: Sus scrofa sorbin and SH3 domain containing 3 (SORBS3), transcript variant X4, mRNA
six	104593	ALOX5AP	NM_001204406	Homo sapiens arachidonate 5-lipoxygenase-activating protein (ALOX5AP), transcript variant 2, mRNA	Plasma Membrane	other	XM_005668321	PREDICTED: Sus scrofa arachidonate 5-lipoxygenase-activating protein (ALOX5AP), transcript variant X1, mRNA
six	104606	ABCB8	NM_001282293	Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 8 (ABCB8), transcript variant 4, mRNA	Cytoplasm	transporter	XM_005657700	PREDICTED: Sus scrofa ATP-binding cassette, sub-family B (MDR/TAP), member 8 (ABCB8), transcript variant X3, mRNA
six	104607	DIAPH1	XM_005268384	PREDICTED: Homo sapiens diaphanous-related formin 1 (DIAPH1), transcript variant X1, mRNA	Plasma Membrane	other	NM_001258435	Sus scrofa diaphanous homolog 1 (Drosophila) (DIAPH1), mRNA
six	104615	SOD1	NM_000454	Homo sapiens superoxide dismutase 1, soluble (SOD1), mRNA	Cytoplasm	enzyme	AK392718	Sus scrofa mRNA, clone: HTMT10096C04, expressed in hypothalamus
six	104652	SOCS5	AC105383	Homo sapiens BAC clone RP11-9G1 from 4, complete sequence			XM_005662573	PREDICTED: Sus scrofa suppressor of cytokine signaling 5 (SOCS5), transcript variant X5, mRNA
six	104692	ANGPT1	AP003480	Homo sapiens genomic DNA, chromosome 8q23, clone: KB1970H2	Extracellular Space	growth factor	CU633577	Pig DNA sequence from clone CH242-281L15 on chromosome X, complete sequence

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six	104698	DYNLT3	NM_006520	Homo sapiens dynein, light chain, Tctex-type 3 (DYNLT3), mRNA	Cytoplasm	other	XM_003135008	PREDICTED: Sus scrofa dynein, light chain, Tctex-type 3 (DYNLT3), mRNA
six	104777	TRIM2	XM_006714165	PREDICTED: Homo sapiens tripartite motif containing 2 (TRIM2), transcript variant X9, mRNA	Cytoplasm	enzyme	XR_303087	PREDICTED: Sus scrofa CD1E antigen (PCD1E), transcript variant X2, misc_RNA
six	104780		FM206294	Cloning vector pchiLGHG1			XM_003356280	PREDICTED: Sus scrofa MARCKS-related protein-like (LOC100628001), transcript variant 1, mRNA
six	104785	ENC1	NM_001256576	Homo sapiens ectodermal-neural cortex 1 (with BTB domain) (ENC1), transcript variant 4, mRNA	Nucleus	peptidase	XM_003123701	PREDICTED: Sus scrofa ectodermal-neural cortex 1 (with BTB domain) (ENC1), mRNA
six	104797	DCLRE1A	XM_006718090	PREDICTED: Homo sapiens DNA cross-link repair 1A (DCLRE1A), transcript variant X1, mRNA	Nucleus	other	XM_001926859	PREDICTED: Sus scrofa DNA cross-link repair 1A (DCLRE1A), mRNA
six	104798	CDK19	XM_005266870	PREDICTED: Homo sapiens cyclin-dependent kinase 19 (CDK19), transcript variant X2, mRNA	Nucleus	kinase	CU861979	Pig DNA sequence from clone CH242-305A15 on chromosome X, complete sequence
six	104812	ATXN1	NG_011571	Homo sapiens ataxin 1 (ATXN1), RefSeqGene on chromosome 6	Nucleus	transcription regulator	FP085380	Pig DNA sequence from clone CH242-287G14 on chromosome X, complete sequence
six	104822	FUBP1	XM_006711022	PREDICTED: Homo sapiens far upstream element (FUSE) binding protein 1 (FUBP1), transcript variant X3, mRNA	Nucleus	transcription regulator	XM_003127917	PREDICTED: Sus scrofa far upstream element (FUSE) binding protein 1 (FUBP1), transcript variant X1, mRNA
six	104858	COX7A2	HE647861	Homo sapiens mRNA for cytochrome c oxidase subunit VIIa polypeptide 2 (COX7A2 gene)	Cytoplasm	enzyme	AK391921	Sus scrofa mRNA, clone: HTMT10033G11, expressed in hypothalamus
six	104868	CNKSR2	XM_005274469	PREDICTED: Homo sapiens connector enhancer of kinase suppressor of Ras 2 (CNKSR2), transcript variant X2, mRNA	Plasma Membrane	other	FP340296	Pig DNA sequence from clone CH242-403I1 on chromosome X, complete sequence
six	104883	USP34	NM_014709	Homo sapiens ubiquitin specific peptidase 34 (USP34), mRNA	Extracellular Space	peptidase	XM_005662529	PREDICTED: Sus scrofa ubiquitin specific peptidase 34 (USP34), mRNA
six	104886	LGI1	NG_011832	Homo sapiens leucine-rich, glioma inactivated 1 (LGI1), RefSeqGene on chromosome 10	Plasma Membrane	other	XM_001928721	PREDICTED: Sus scrofa leucine-rich, glioma inactivated 1 (LGI1), transcript variant X1, mRNA
six	104894	FMNL2	XM_006712228	PREDICTED: Homo sapiens formin-like 2 (FMNL2), transcript variant X6, mRNA	Cytoplasm	other	XM_005671848	PREDICTED: Sus scrofa formin-like 2 (FMNL2), transcript variant X2, mRNA
six	104910	SMN1	AK298203	Homo sapiens cDNA FLJ60754 complete cds, moderately similar to Survival motor neuron protein	Nucleus	other	XM_005672519	PREDICTED: Sus scrofa survival of motor neuron 1, telomeric (SMN1), transcript variant X1, mRNA
six	104925	KIAA0355	XM_005259444	PREDICTED: Homo sapiens KIAA0355 (KIAA0355), transcript variant X1, mRNA	Extracellular Space	other	XM_003127026	PREDICTED: Sus scrofa KIAA0355 ortholog (KIAA0355), mRNA

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six	104930	RRP15	AK290066	Homo sapiens cDNA FLJ75605 complete cds, highly similar to Homo sapiens CGI-115 protein (CGI-115), mRNA	Nucleus	other	XM_003357622	PREDICTED: Sus scrofa ribosomal RNA processing 15 homolog (S. cerevisiae) (RRP15), transcript variant X1, mRNA
six	104936	ARHGEF9	XM_006724637	PREDICTED: Homo sapiens Cdc42 guanine nucleotide exchange factor (GEF) 9 (ARHGEF9), transcript variant X7, mRNA	Cytoplasm	other	FP101957	Pig DNA sequence from clone CH242-144O20 on chromosome X, complete sequence
six	104945		AC128683	Homo sapiens 3 BAC RP11-229C17 (Roswell Park Cancer Institute Human BAC Library) complete sequence			AK397683	Sus scrofa mRNA, clone: SPL010038F02, expressed in spleen
six	104957	OXCT1	U62961	Human succinyl CoA:3-oxoacid CoA transferase precursor (OXCT) mRNA, complete cds	Cytoplasm	enzyme	NM_213938	Sus scrofa 3-oxoacid CoA transferase 1 (OXCT1), mRNA >gi 164422 gb M80534.1 PIGCOATR Pig succinyl-CoA:alpha-ketoacid coenzyme A transferase mRNA, complete cds
six	104989	CDC5L	BC001568	Homo sapiens CDC5 cell division cycle 5-like (S. pombe), mRNA (cDNA clone MGC:5485 IMAGE:3452352), complete cds	Nucleus	other	AK238983	Sus scrofa mRNA, clone:THY010053D12, expressed in thymus
six	104992	CYB5A	AK026310	Homo sapiens cDNA: FLJ22657 fis, clone HSI07791, highly similar to HUMCYB5 Human cytochrome b5 mRNA	Cytoplasm	enzyme	AY609822	Sus scrofa clone Clu_3292.scr.msk.p1.Contig4, mRNA sequence
six	105015	FXR2	NM_004860	Homo sapiens fragile X mental retardation, autosomal homolog 2 (FXR2), mRNA	Cytoplasm	other	XM_003131974	PREDICTED: Sus scrofa fragile X mental retardation, autosomal homolog 2 (FXR2), mRNA
six	105046	IL17RA	NM_014339	Homo sapiens interleukin 17 receptor A (IL17RA), transcript variant 1, mRNA	Plasma Membrane	transmembrane receptor	AB154367	Sus scrofa IL-17R mRNA for interleukin-17 receptor, partial cds
six	105079	EPB41L4B	NM_018424	Homo sapiens erythrocyte membrane protein band 4.1 like 4B (EPB41L4B), transcript variant 1, mRNA	Other	transporter	XM_005674577	PREDICTED: Sus scrofa erythrocyte membrane protein band 4.1 like 4B (EPB41L4B), mRNA
six	105085	RABAC1	NM_006423	Homo sapiens Rab acceptor 1 (prenylated) (RABAC1), mRNA	Cytoplasm	other	AK348421	Sus scrofa mRNA, clone:OVRM10159D06, expressed in ovary
six	105103	PCBD1	NM_000281	Homo sapiens pterin-4 alpha-carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (PCBD1), transcript variant 1, mRNA	Nucleus	transcription regulator	AK392722	Sus scrofa mRNA, clone: HTMT10096E04, expressed in hypothalamus
six	105106	POLDIP2	NM_015584	Homo sapiens polymerase (DNA-directed), delta interacting protein 2 (POLDIP2), transcript variant 1, mRNA	Cytoplasm	other	AY609904	Sus scrofa clone Clu_41835.scr.msk.p1.Contig3, mRNA sequence

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six	105109	NANS	BC000008	Homo sapiens N-acetylneuraminic acid synthase, mRNA (cDNA clone MGC:934 IMAGE:3505324), complete cds	Cytoplasm	enzyme	AK347608	Sus scrofa mRNA, clone:OVR010065C09, expressed in ovary
six	105114	GLYR1	XM_005255640	PREDICTED: Homo sapiens glyoxylate reductase 1 homolog (Arabidopsis) (GLYR1), transcript variant X4, mRNA	Other	other	XM_003354620	PREDICTED: Sus scrofa glyoxylate reductase 1 homolog (Arabidopsis) (GLYR1), transcript variant 2, mRNA
six	105122	HYOU1	NM_001130991	Homo sapiens hypoxia up-regulated 1 (HYOU1), transcript variant 2, mRNA	Cytoplasm	other	XM_005667420	PREDICTED: Sus scrofa hypoxia up-regulated 1 (HYOU1), transcript variant X6, mRNA
six	105131	FOXO3	XM_005266867	PREDICTED: Homo sapiens forkhead box O3 (FOXO3), transcript variant X1, mRNA	Nucleus	transcription regulator	NM_001135959	Sus scrofa forkhead box O3 (FOXO3), mRNA >gj 208969099 dbj AB433530.1 Sus scrofa FOXO3 mRNA for forkhead box O3, complete cds
six	105135	CIB2	XM_006720374	PREDICTED: Homo sapiens calcium and integrin binding family member 2 (CIB2), transcript variant X5, mRNA	Other	kinase	XM_005656250	PREDICTED: Sus scrofa calcium and integrin binding family member 2 (CIB2), transcript variant X2, mRNA
six	105180	UBAP2L	XM_006711689	PREDICTED: Homo sapiens ubiquitin associated protein 2-like (UBAP2L), transcript variant X28, mRNA	Other	other	XM_005663397	PREDICTED: Sus scrofa ubiquitin associated protein 2-like (UBAP2L), transcript variant X20, mRNA
six	105183	ARNT	NM_001286036	Homo sapiens aryl hydrocarbon receptor nuclear translocator (ARNT), transcript variant 6, mRNA	Nucleus	transcription regulator	XM_005663493	PREDICTED: Sus scrofa aryl hydrocarbon receptor nuclear translocator (ARNT), transcript variant X4, mRNA
six	105208		AB383782	Synthetic construct DNA, clone: pF1KSDA0172, Homo sapiens ANKRD15 gene for ankyrin repeat domain-containing protein 15, complete cds, without stop codon, in Flexi system			AK343322	Sus scrofa mRNA, clone:ADR010035A12, expressed in adrenal gland
six	105280	RPS11	NM_001015	Homo sapiens ribosomal protein S11 (RPS11), mRNA	Cytoplasm	other	AK392151	Sus scrofa mRNA, clone: HTMT10053D07, expressed in hypothalamus
six	105328	ING3	AB463778	Synthetic construct DNA, clone: pF1KB7386, Homo sapiens ING3 gene for inhibitor of growth family, member 3, without stop codon, in Flexi system			XM_005673199	PREDICTED: Sus scrofa inhibitor of growth family, member 3 (ING3), transcript variant X1, mRNA
six	105370	TSG101	XM_005253108	PREDICTED: Homo sapiens tumor susceptibility 101 (TSG101), transcript variant X2, mRNA	Cytoplasm	transcription regulator	XM_005661084	PREDICTED: Sus scrofa tumor susceptibility gene 101 protein-like (LOC100524238), partial mRNA
six	105373	DDB1	NM_001923	Homo sapiens damage-specific DNA binding protein 1, 127kDa (DDB1), mRNA	Nucleus	other	XM_003122651	PREDICTED: Sus scrofa damage-specific DNA binding protein 1, 127kDa (DDB1), transcript variant 1, mRNA
six	200005		FM206294	Cloning vector pchilGHG1			CU896538	Pig DNA sequence from clone CH242-498B6 on chromosome 2, complete sequence

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six	200008	TSHZ2	XM_006723697	PREDICTED: Homo sapiens teashirt zinc finger homeobox 2 (TSHZ2), transcript variant X1, mRNA	Other	other	CR956621	Pig DNA sequence from clone CH242-201E3 on chromosome 17, complete sequence
six	200009		FM206294	Cloning vector pchilGHG1			XR_307747	PREDICTED: Sus scrofa uncharacterized LOC102159472 (LOC102159472), misc_RNA
six	200067	TMEM5	XM_006719195	PREDICTED: Homo sapiens transmembrane protein 5 (TMEM5), transcript variant X3, mRNA	Plasma Membrane	other	XM_005663950	PREDICTED: Sus scrofa transmembrane protein 5 (TMEM5), transcript variant X3, mRNA
six	200078		AP005271	Homo sapiens genomic DNA, chromosome 18 clone:RP11-752I5, complete sequence			DQ020485	Sus scrofa clone BAC KNP_244B5, complete sequence
six	200082	UBE2D3	XM_006714301	PREDICTED: Homo sapiens ubiquitin-conjugating enzyme E2D 3 (UBE2D3), transcript variant X11, mRNA	Cytoplasm	enzyme	XM_005656554	PREDICTED: Sus scrofa ubiquitin-conjugating enzyme E2D 3 (UBE2D3), transcript variant X6, mRNA
six	200084	ZFX	XM_005274594	PREDICTED: Homo sapiens zinc finger protein, X-linked (ZFX), transcript variant X6, mRNA	Nucleus	transcription regulator	XR_135434	PREDICTED: Sus scrofa nebulin-like (LOC100515976), misc_RNA
six	200086	C2orf76	XM_005263595	PREDICTED: Homo sapiens chromosome 2 open reading frame 76 (C2orf76), transcript variant X3, mRNA	Other	other	XM_005671634	PREDICTED: Sus scrofa chromosome 15 open reading frame, human C2orf76 (C15H2orf76), transcript variant X3, mRNA
six	200106	TIGD1	U49973	Human Tigger1 transposable element, complete consensus sequence	Other	other	FP102151	Pig DNA sequence from clone CH242-232M18 on chromosome X, complete sequence
six	200130		AL080250	Human DNA sequence from clone RP1-234P15 on chromosome 6q13-14,3, complete sequence			CU207411	Pig DNA sequence from clone CH242-403G13 on chromosome X, complete sequence
six	200142	PDE4D	NG_027957	Homo sapiens phosphodiesterase 4D, cAMP-specific (PDE4D), RefSeqGene on chromosome 5			XM_003361882	PREDICTED: Sus scrofa NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 4, 15kDa (NDUFB4), transcript variant X1, mRNA
six	200192	KCNQ5	NM_001160134	Homo sapiens potassium voltage-gated channel, KQT-like subfamily, member 5 (KCNQ5), transcript variant 5, mRNA	Plasma Membrane	ion channel	CU041280	Pig DNA sequence from clone CH242-45J18 on chromosome 1, complete sequence
six	200222	VMP1	AC245929	Homo sapiens BAC clone CH17-416A5 from chromosome 17, complete sequence			XM_003131688	PREDICTED: Sus scrofa vacuole membrane protein 1 (VMP1), transcript variant X1, mRNA
six	200225		AL355520	Human DNA sequence from clone RP4-595C2 on chromosome 1q24.1-25.3, complete sequence			CU468198	Pig DNA sequence from clone CH242-204B20 on chromosome 4, complete sequence
six	200242	TPH2	NG_008279	Homo sapiens tryptophan hydroxylase 2 (TPH2), RefSeqGene on chromosome 12	Plasma Membrane	enzyme	XR_301937	PREDICTED: Sus scrofa uncharacterized LOC100518827 (LOC100518827), misc_RNA

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six	200264	VCL	NG_008868	Homo sapiens vinculin (VCL), RefSeqGene (LRG_383) on chromosome 10	Plasma Membrane	enzyme	FP015908	Pig DNA sequence from clone CH242-74J23 on chromosome X, complete sequence
six	200280		AC055748	Homo sapiens 3 BAC RP11-402J7 (Roswell Park Cancer Institute Human BAC Library) complete sequence			CU469041	Pig DNA sequence from clone CH242-483E7 on chromosome 4, complete sequence
six	200284		AL133304	Human chromosome 14 DNA sequence BAC R-116N8 of library RPCI-11 from chromosome 14 of Homo sapiens (Human), complete sequence			CR974569	Pig DNA sequence from clone CH242-255C19 on chromosome 17, complete sequence
six	200287	CBR4	XM_006714391	PREDICTED: Homo sapiens carbonyl reductase 4 (CBR4), transcript variant X3, mRNA	Cytoplasm	enzyme	XR_299406	PREDICTED: Sus scrofa carbonyl reductase family member 4-like (LOC100153608), transcript variant X3, misc_RNA
six	200292	PCDH7	XM_005248164	PREDICTED: Homo sapiens protocadherin 7 (PCDH7), transcript variant X2, mRNA	Plasma Membrane	other	AF067053	Sus scrofa microsatellite Li2 sequence
six	200304	FYTTD1	JN160804	Cloning vector pRS316-1B9, complete sequence			XM_003358772	PREDICTED: Sus scrofa forty-two-three domain containing 1 (FYTTD1), transcript variant X1, mRNA
six	200324	UBE2D1	NM_001204880	Homo sapiens ubiquitin-conjugating enzyme E2D 1 (UBE2D1), transcript variant 2, mRNA	Cytoplasm	enzyme	AK234981	Sus scrofa mRNA, clone:OVRM10038A07, expressed in ovary
six	200331	SP3	NG_029153	Homo sapiens Sp3 transcription factor (SP3), RefSeqGene on chromosome 2	Nucleus	transcription regulator	XM_001928783	PREDICTED: Sus scrofa Sp3 transcription factor (SP3), mRNA
six	200342	SLCO2A1	FM206294	Cloning vector pchlGHG1			DQ104838	Sus scrofa solute carrier organic anion transporter family member 2A1 (SLCO2A1) gene, exon 6
six	200350	SORBS2	XM_006714389	PREDICTED: Homo sapiens sorbin and SH3 domain containing 2 (SORBS2), transcript variant X65, mRNA	Plasma Membrane	other	XM_005671729	PREDICTED: Sus scrofa sorbin and SH3 domain containing 2 (SORBS2), transcript variant X9, mRNA
six	200356	CEP135	AC092627	Homo sapiens BAC clone RP11-271B8 from 4, complete sequence	Cytoplasm	other	FP340303	Pig DNA sequence from clone CH242-222D9 on chromosome X, complete sequence
six	200370	TSC22D1	XM_005266583	PREDICTED: Homo sapiens TSC22 domain family, member 1 (TSC22D1), transcript variant X2, mRNA	Nucleus	transcription regulator	XM_005668437	PREDICTED: Sus scrofa TSC22 domain family, member 1 (TSC22D1), transcript variant X4, mRNA
six	200511	YBX1	XM_005270904	PREDICTED: Homo sapiens Y box binding protein 1 (YBX1), transcript variant X1, mRNA	Nucleus	transcription regulator	XM_003356500	PREDICTED: Sus scrofa Y box binding protein 1 (YBX1), mRNA
six	200529	RAB10	NM_016131	Homo sapiens RAB10, member RAS oncogene family (RAB10), mRNA	Cytoplasm	enzyme	NM_001243060	Sus scrofa RAB10, member RAS oncogene family (RAB10), mRNA

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six	200546	C1H9orf78	AC095052	Homo sapiens chromosome 4 clone RP11-341G5, complete sequence			XM_003122220	PREDICTED: Sus scrofa chromosome 1 open reading frame, human C9orf78 (C1H9orf78), mRNA
six	200561	IL1RAPL2	AK290196	Homo sapiens cDNA FLJ76776 complete cds, highly similar to Homo sapiens interleukin 1 receptor accessory protein-like 2 (IL1RAPL2), mRNA	Plasma Membrane	transmembrane receptor	XM_001925154	PREDICTED: Sus scrofa interleukin 1 receptor accessory protein-like 2 (IL1RAPL2), partial mRNA
six	200566	AAK1	NM_014911	Homo sapiens AP2 associated kinase 1 (AAK1), mRNA	Cytoplasm	kinase	XM_005664348	PREDICTED: Sus scrofa ring finger and WD repeat domain 3 (RFWD3), transcript variant X2, mRNA
six	200570		AL512598	Human DNA sequence from clone RP11-165A20 on chromosome 10, complete sequence			CU179685	Pig DNA sequence from clone CH242-169H21 on chromosome 4, complete sequence
six	200572		AL109964	Human DNA sequence from clone RP5-1118M15 on chromosome 20, complete sequence			CT867946	Pig DNA sequence from clone CH242-282A21 on chromosome 7, complete sequence
six	200589	TRDN	AJ489257	Homo sapiens mRNA for triadin (TRDN gene), Trisk 51 isoform	Cytoplasm	other	CU207358	Pig DNA sequence from clone CH242-486N13 on chromosome X, complete sequence
six	200590		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CU467610	Pig DNA sequence from clone CH242-94D21 on chromosome X, complete sequence
six	200597	RGS5	NM_001254749	Homo sapiens regulator of G-protein signaling 5 (RGS5), transcript variant 4, mRNA	Plasma Membrane	other	AY609705	Sus scrofa clone Clu_26808.scr.msk.p1.Contig1, mRNA sequence
six	200601	FJX1	AK098459	Homo sapiens cDNA FLJ25593 fis, clone JTH12671, highly similar to Homo sapiens mRNA for putative secreted ligand (fjx1 gene homologue)	Extracellular Space	other	XM_003353898	PREDICTED: Sus scrofa four jointed box 1 (Drosophila) (FJX1), mRNA
six	200602		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CU469343	Pig DNA sequence from clone CH242-396K9 on chromosome X, complete sequence
six	200606		AL159990	Human DNA sequence from clone RP11-141J10 on chromosome 9, complete sequence			CU929735	Pig DNA sequence from clone CH242-243F6 on chromosome X, complete sequence
six	200615	ATG14	AL049978	Homo sapiens mRNA; cDNA DKFZp564C132 (from clone DKFZp564C132)	Cytoplasm	other	XM_001924990	PREDICTED: Sus scrofa autophagy related 14 (ATG14), mRNA
six	200618	CBLN1	NM_004352	Homo sapiens cerebellin 1 precursor (CBLN1), mRNA	Cytoplasm	other	AY803092	Sus scrofa chromosome 17 clone pkmCon19, mRNA sequence
six	200623	FBLN1	NG_023308	Homo sapiens fibulin 1 (FBLN1), RefSeqGene on chromosome 22	Extracellular Space	other	XM_003125955	PREDICTED: Sus scrofa fibulin 1 (FBLN1), transcript variant X1, mRNA

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six	200625		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AJ632303	Sus scrofa partial ICAM3 gene, TYK2, CDC37, PDE4A, KEAP1, EDG8 and APG4D genes and partial FLJ12949 gene
six	200636	WNT2B	AK307185	Homo sapiens cDNA, FLJ97133	Extracellular Space	other	XM_003125849	PREDICTED: Sus scrofa wingless-type MMTV integration site family, member 2B (WNT2B), mRNA
six	200653	PLEKHS1	NM_001193435	Homo sapiens pleckstrin homology domain containing, family S member 1 (PLEKHS1), transcript variant 3, mRNA	Other	other	XM_005658035	PREDICTED: Sus scrofa pleckstrin homology domain containing, family S member 1 (PLEKHS1), mRNA
six	200671	IMP3	BC011745	Homo sapiens IMP3, U3 small nucleolar ribonucleoprotein, homolog (yeast), mRNA (cDNA clone MGC:19665 IMAGE:3344519), complete cds	Cytoplasm	other	NM_001243292	Sus scrofa IMP3, U3 small nucleolar ribonucleoprotein, homolog (yeast) (IMP3), mRNA
six	200696	KRT222	AK308598	Homo sapiens cDNA, FLJ98639	Other	other	XM_003131485	PREDICTED: Sus scrofa keratin 222 (KRT222), mRNA
six	200722	SPRY1	XM_005262686	PREDICTED: Homo sapiens sprouty homolog 1, antagonist of FGF signaling (Drosophila) (SPRY1), transcript variant X1, mRNA	Other	other	XM_005666883	PREDICTED: Sus scrofa sprouty homolog 1, antagonist of FGF signaling (Drosophila) (SPRY1), transcript variant X2, mRNA
six	200728	KCNS3	AK225833	Homo sapiens mRNA for Potassium voltage-gated channel subfamily S member 3 variant, clone: FCC127E11	Plasma Membrane	ion channel	AK344049	Sus scrofa mRNA, clone: BKFL10011B02, expressed in back fat
six	200729		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			XR_302271	PREDICTED: Sus scrofa uncharacterized LOC102164214 (LOC102164214), transcript variant X1, misc_RNA
six	200760		FM206294	Cloning vector pchiIGHG1			AF067053	Sus scrofa microsatellite Li2 sequence
six	200816	MMAA	XM_006714118	PREDICTED: Homo sapiens methylmalonic aciduria (cobalamin deficiency) cblA type (MMAA), transcript variant X1, mRNA	Cytoplasm	other	XM_003129165	PREDICTED: Sus scrofa methylmalonic aciduria (cobalamin deficiency) cblA type (MMAA), mRNA
six	200823		AC008009	Homo sapiens 3 BAC RP11-436A20 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XR_307049	PREDICTED: Sus scrofa uncharacterized LOC102158566 (LOC102158566), misc_RNA
six	200848		AC008896	Homo sapiens chromosome 5 clone CTD-2235B13, complete sequence			FP245537	Pig DNA sequence from clone CH242-342115 on chromosome X, complete sequence
six	200897	IWS1	XM_006712626	PREDICTED: Homo sapiens IWS1 homolog (S. cerevisiae) (IWS1), transcript variant X2, mRNA	Nucleus	enzyme	AK393631	Sus scrofa mRNA, clone: KDN010081B01, expressed in kidney
six	200951	RIPPLY2	NR_103525	Homo sapiens ripply transcriptional repressor 2 (RIPPLY2), transcript variant 2, long non-coding RNA	Nucleus	other	XM_005659403	PREDICTED: Sus scrofa protein ripply1-like (LOC100521595), mRNA

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six	200977	MICAL3	XM_006724089	PREDICTED: Homo sapiens microtubule associated monooxygenase, calponin and LIM domain containing 3 (MICAL3), transcript variant X15, mRNA	Cytoplasm	enzyme	XM_003355613	PREDICTED: Sus scrofa microtubule associated monooxygenase, calponin and LIM domain containing 3 (MICAL3), mRNA
six	200983	AP1S2	XR_247289	PREDICTED: Homo sapiens adaptor-related protein complex 1, sigma 2 subunit (AP1S2), transcript variant X6, misc_RNA	Cytoplasm	transporter	XM_003134953	PREDICTED: Sus scrofa adaptor-related protein complex 1, sigma 2 subunit (AP1S2), transcript variant X1, mRNA
six	201020	ALDH3A2	NG_007095	Homo sapiens aldehyde dehydrogenase 3 family, member A2 (ALDH3A2), RefSeqGene on chromosome 17	Cytoplasm	enzyme	EU853705	Sus scrofa acetyl-coenzyme A carboxylase beta (ACACB) gene, complete cds, alternatively spliced
six	201026	LOC100128546	NG_022696	Homo sapiens glutaredoxin 5 pseudogene (LOC100128546) on chromosome X			AY609918	Sus scrofa clone Clu_43784.scr.msk.p1.Contig1, mRNA sequence
six	201169		AC021054	Homo sapiens 12 BAC RP11-218M22 (Roswell Park Cancer Institute Human BAC Library) complete sequence			FQ976828	Pig DNA sequence from clone PigE-175N14 on chromosome X, complete sequence
six	201223	RPL21P16	NG_009450	Homo sapiens ribosomal protein L21 pseudogene 16 (RPL21P16) on chromosome 10			AY610285	Sus scrofa clone rcly17b_o13,y1,abd, mRNA sequence
six	201246		FM206294	Cloning vector pchiIGHG1			XM_005666528	PREDICTED: Sus scrofa zinc finger protein 518B-like (LOC100624699), mRNA
six	201328	ABLIM1	AK297344	Homo sapiens cDNA FLJ58674 complete cds, highly similar to Actin-binding LIM protein 1	Cytoplasm	other	XM_005671477	PREDICTED: Sus scrofa actin binding LIM protein 1 (ABLIM1), transcript variant X8, mRNA
six	201346	MED8	NM_001001653	Homo sapiens mediator complex subunit 8 (MED8), transcript variant 4, mRNA	Nucleus	other	XM_005665490	PREDICTED: Sus scrofa mediator complex subunit 8 (MED8), transcript variant X8, mRNA
six	201369		AP001816	Homo sapiens genomic DNA, chromosome 4q22-q24, clone:563D14, complete sequence			FN673740	Sus scrofa BAC clone KNP_431E6
six	201395	SNHG15	HG500234	TPA: Homo sapiens SNHG15 gene for long non-coding RNA OTTHUMT00000447030.1, lincRNA	Other	other	XR_309134	PREDICTED: Sus scrofa uncharacterized LOC100739791 (LOC100739791), transcript variant X5, misc_RNA
six	201402	LOC646214	NR_027053	Homo sapiens p21 protein (Cdc42/Rac)- Other activated kinase 2 pseudogene (LOC646214), non-coding RNA		other	XR_307120	PREDICTED: Sus scrofa uncharacterized LOC102158008 (LOC102158008), misc_RNA
six	201409	SLC9A9	NG_017077	Homo sapiens solute carrier family 9, subfamily A (NHE9, cation proton antiporter 9), member 9 (SLC9A9), RefSeqGene on chromosome 3			XM_005669923	PREDICTED: Sus scrofa solute carrier family 9, subfamily A (NHE9, cation proton antiporter 9), member 9 (SLC9A9), mRNA

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six	201410	C1QB	BC008983	Homo sapiens complement component 1, q subcomponent, B chain, mRNA (cDNA clone MGC:17227 IMAGE:4212848), complete cds	Extracellular Space	other	XM_003481991	PREDICTED: Sus scrofa complement C1q subcomponent subunit B-like (LOC100739136), mRNA
six	201446	AMZ2	XM_006721940	PREDICTED: Homo sapiens archaealysin family metalloproteinase 2 (AMZ2), transcript variant X8, mRNA	Other	other	AY609674	Sus scrofa clone Clu_244.scr.msk.p1.Contig2, mRNA sequence
six	201451		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CU633331	Pig DNA sequence from clone CH242-12O3 on chromosome X, complete sequence
six	201454	RTF1	BC015052	Homo sapiens Rtf1, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae), mRNA (cDNA clone MGC:9613 IMAGE:3909737), complete cds	Nucleus	other	XM_005659730	PREDICTED: Sus scrofa Rtf1, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae) (RTF1), mRNA
six	201456	CCR10	NM_016602	Homo sapiens chemokine (C-C motif) receptor 10 (CCR10), mRNA	Plasma Membrane	G-protein coupled receptor	AK391150	Sus scrofa mRNA, clone: CLNT10082H01, expressed in colon
six	201473	SMIM15	NM_001048249	Homo sapiens small integral membrane protein 15 (SMIM15), mRNA	Other	other	XM_005672475	PREDICTED: Sus scrofa small integral membrane protein 15 (SMIM15), transcript variant X3, mRNA
six	201489	ACP1	NM_004300	Homo sapiens acid phosphatase 1, soluble (ACP1), transcript variant 3, mRNA	Cytoplasm	phosphatase	XM_003481309	PREDICTED: Sus scrofa low molecular weight phosphotyrosine protein phosphatase-like (LOC100737301), transcript variant X1, mRNA
six	201497		AC006371	Homo sapiens BAC clone RP11-304C24 from Y, complete sequence			FP015873	Pig DNA sequence from clone CH242-157F23 on chromosome X, complete sequence
six	201583	MRPL13	XM_006716547	PREDICTED: Homo sapiens mitochondrial ribosomal protein L13 (MRPL13), transcript variant X1, mRNA	Cytoplasm	other	AY610180	Sus scrofa clone Clu_8755.scr.msk.p1.Contig2, mRNA sequence
six	201607		AL138921	Human DNA sequence from clone RP11-316M21 on chromosome 10, complete sequence			AK346389	Sus scrofa mRNA, clone:LVRM10161D10, expressed in liver
six	201627	VPS13D	AK304850	Homo sapiens cDNA FLJ52853 complete cds, highly similar to Homo sapiens vacuolar protein sorting 13D (VPS13D), transcript variant 2, mRNA	Cytoplasm	other	XM_005665012	PREDICTED: Sus scrofa vacuolar protein sorting 13 homolog D (S. cerevisiae) (VPS13D), mRNA
six	201661	SLC44A1	XM_005251857	PREDICTED: Homo sapiens solute carrier family 44 (choline transporter), member 1 (SLC44A1), transcript variant X3, mRNA	Plasma Membrane	transporter	XM_003480567	PREDICTED: Sus scrofa solute carrier family 44 (choline transporter), member 1 (SLC44A1), transcript variant X2, mRNA
six	201665	IRAK1	NG_008387	Homo sapiens interleukin-1 receptor-associated kinase 1 (IRAK1), RefSeqGene on chromosome X	Plasma Membrane	kinase	CU914490	Pig DNA sequence from clone CH242-115P19 on chromosome X, complete sequence

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six	201700	GTF2I	XM_005250296	PREDICTED: Homo sapiens general transcription factor Ili (GTF2I), transcript variant X6, mRNA	Nucleus	transcription regulator	XM_005661994	PREDICTED: Sus scrofa general transcription factor Ili (GTF2I), transcript variant X6, mRNA
six	201724	ACTN1	NG_029480	Homo sapiens actinin, alpha 1 (ACTN1), RefSeqGene on chromosome 14			NM_001243061	Sus scrofa actinin, alpha 1 (ACTN1), mRNA >gi 115553451 dbj AK236654.1 Sus scrofa mRNA, clone:OVRM10212C12, expressed in ovary
six	201739	ACSM2A	AK091878	Homo sapiens cDNA FLJ34559 fis, clone KIDNE2001840, highly similar to Rattus norvegicus kidney-specific protein (KS) mRNA	Cytoplasm	enzyme	XM_003124561	PREDICTED: Sus scrofa acyl-CoA synthetase medium-chain family member 2B (ACSM2B), mRNA
six	201765	ATP1A1	XM_006710655	PREDICTED: Homo sapiens ATPase, Na+/K+ transporting, alpha 1 polypeptide (ATP1A1), transcript variant X1, mRNA	Plasma Membrane	transporter	AK399193	Sus scrofa mRNA, clone: PTG010107G04, expressed in pituitary gland
six	201767		AC034199	Homo sapiens chromosome 5 clone CTB-114C7, complete sequence			XM_005668276	PREDICTED: Sus scrofa ADP-ribosylation factor-like protein 5B-like (LOC100627052), transcript variant X5, mRNA
six	201846		AC016582	Homo sapiens chromosome 19 clone CTD-2554C21, complete sequence			AK392508	Sus scrofa mRNA, clone: HTMT10081G05, expressed in hypothalamus
six	201852	TLR4	NM_138557	Homo sapiens toll-like receptor 4 (TLR4), transcript variant 4, mRNA	Plasma Membrane	transmembrane receptor	AK396573	Sus scrofa mRNA, clone: PST010056E05, expressed in prostate
six	201868	SLC46A2	NM_033051	Homo sapiens solute carrier family 46, member 2 (SLC46A2), mRNA	Plasma Membrane	transporter	XM_001928427	PREDICTED: Sus scrofa solute carrier family 46, member 2 (SLC46A2), transcript variant X1, mRNA
six	201897	ALDH7A1	NG_008600	Homo sapiens aldehyde dehydrogenase 7 family, member A1 (ALDH7A1), RefSeqGene on chromosome 5	Cytoplasm	enzyme	XM_003123893	PREDICTED: Sus scrofa alpha-aminoacidic semialdehyde dehydrogenase-like (LOC100515532), mRNA
six	201899	TMEM206	XM_005273177	PREDICTED: Homo sapiens transmembrane protein 206 (TMEM206), transcript variant X1, mRNA	Other	other	CU856395	Pig DNA sequence from clone CH242-127121 on chromosome X, complete sequence
six	201903		AC245439	Homo sapiens FOSMID clone ABC16-83N23 from chromosome 5, complete sequence			AK344079	Sus scrofa mRNA, clone:BKFL10030H10, expressed in back fat
six	201904	IKBKB	NM_001190720	Homo sapiens inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta (IKBKB), transcript variant 2, mRNA	Cytoplasm	kinase	FN677054	Sus scrofa BAC clone CHORI242_259G13_Contig12
six	201940		FM206294	Cloning vector pchilGHG1			XM_003127705	PREDICTED: Sus scrofa grainyhead-like protein 3 homolog (LOC100521975), mRNA

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six	201944	ZNF226	XM_005259228	PREDICTED: Homo sapiens zinc finger protein 226 (ZNF226), transcript variant X5, mRNA	Nucleus	other	AK393375	Sus scrofa mRNA, clone: KDN010044A08, expressed in kidney
six	201965	ARHGDIB	NM_001175	Homo sapiens Rho GDP dissociation inhibitor (GDI) beta (ARHGDIB), mRNA	Cytoplasm	other	NM_001244240	Sus scrofa Rho GDP dissociation inhibitor (GDI) beta (ARHGDIB), mRNA
six	201966	DDX49	NR_033677	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 49 (DDX49), transcript variant 2, non-coding RNA	Nucleus	enzyme	XM_003123539	PREDICTED: Sus scrofa DEAD (Asp-Glu-Ala-Asp) box polypeptide 49 (DDX49), mRNA
six	201975	MAX	NG_029830	Homo sapiens MYC associated factor X (MAX), RefSeqGene on chromosome 14			FP102717	Pig DNA sequence from clone CH242-511F13 on chromosome X, complete sequence
six	201976	LSG1	NM_018385	Homo sapiens large 60S subunit nuclear export GTPase 1 (LSG1), mRNA	Cytoplasm	enzyme	XM_001928236	PREDICTED: Sus scrofa large 60S subunit nuclear export GTPase 1 (LSG1), mRNA
six	201977	GUCY1A3	XM_006714198	PREDICTED: Homo sapiens guanylate cyclase 1, soluble, alpha 3 (GUCY1A3), transcript variant X6, mRNA	Cytoplasm	enzyme	FN677306	Sus scrofa BAC clone CHORI242_199D6_Contig24
six	201978	EFHD2	XM_005246000	PREDICTED: Homo sapiens EF-hand domain family, member D2 (EFHD2), transcript variant X1, mRNA	Other	other	XM_003127628	PREDICTED: Sus scrofa EF-hand domain family, member D2 (EFHD2), mRNA
six	201988		AC103769	Homo sapiens chromosome 8, clone RP11-110G21, complete sequence			CT737415	Pig DNA sequence from clone CH242-158E1 on chromosome 7, complete sequence
six	201991	SNRPF	BC128452	Homo sapiens small nuclear ribonucleoprotein polypeptide F, mRNA (cDNA clone MGC:156268 IMAGE:40123237), complete cds	Nucleus	other	NM_001190213	Sus scrofa small nuclear ribonucleoprotein polypeptide F (SNRPF), mRNA
six	202001	GKN2	AY943908	Homo sapiens blottin precursor, mRNA, complete cds	Extracellular Space	other	XM_003481194	PREDICTED: Sus scrofa gastrokine-2-like (LOC100737387), mRNA
six	202004		AC068594	Homo sapiens chromosome 17, clone RP11-285E9, complete sequence			CU655873	Pig DNA sequence from clone CH242-326F7 on chromosome 12, complete sequence
six	202049	PPP1R2	NM_006241	Homo sapiens protein phosphatase 1, regulatory (inhibitor) subunit 2 (PPP1R2), mRNA	Cytoplasm	phosphatase	AY609456	Sus scrofa clone Clu_12071.scr.msk.p1.Contig1, mRNA sequence
six	202065	CNTN5	AP000760	Homo sapiens genomic DNA, chromosome 11 clone:RP11-779L16, complete sequence	Plasma Membrane	other	XR_305461	PREDICTED: Sus scrofa zinc finger and BTB domain containing 44 (ZBTB44), transcript variant X4, misc_RNA
six	202085	DPT	AK292596	Homo sapiens cDNA FLJ75811 complete cds, highly similar to Homo sapiens dermatopontin (DPT), mRNA			XM_003125649	PREDICTED: Sus scrofa dermatopontin (DPT), mRNA
six	202110	REP15	BC140921	Homo sapiens Rab15 effector protein, mRNA (cDNA clone MGC:176598 IMAGE:9056733), complete cds	Cytoplasm	other	AY610002	Sus scrofa clone Clu_54850.scr.msk.p1.Contig1, mRNA sequence

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six	202111	CNNM4	AK124781	Homo sapiens cDNA FLJ42791 fis, clone BRAWH3007506			XM_005662393	PREDICTED: Sus scrofa cyclin M4 (CNNM4), mRNA
six	202120	MMP27	NM_022122	Homo sapiens matrix metalloproteinase 27 (MMP27), mRNA	Other	peptidase	XM_005667283	PREDICTED: Sus scrofa matrix metalloproteinase 27 (MMP27), mRNA
six	202121	ARHGAP28	XM_005258146	PREDICTED: Homo sapiens Rho GTPase activating protein 28 (ARHGAP28), transcript variant X3, mRNA	Cytoplasm	other	XM_005656111	PREDICTED: Sus scrofa Rho GTPase activating protein 28 (ARHGAP28), transcript variant X2, mRNA
six	202127	CHRAC1	NR_040712	Homo sapiens chromatin accessibility complex 1 (CHRAC1), transcript variant 3, long non-coding RNA	Nucleus	enzyme	AK233711	Sus scrofa mRNA, clone:MLN010002G01, expressed in mesenteric lymph node
six	202140	TSPAN1	NM_005727	Homo sapiens tetraspanin 1 (TSPAN1), mRNA	Cytoplasm	other	AK399249	Sus scrofa mRNA, clone: SMG010085F11, expressed in submaxillary gland
six	202159	H1F0	X03473	Human gene for histone H1(0)	Nucleus	other	XM_003126037	PREDICTED: Sus scrofa histone H1.0-like (LOC100510904), mRNA
six	202160	ARF3	AL050321	Human DNA sequence from clone RP4-717M23 on chromosome 20, complete sequence			FJ785305	Sus scrofa ADP-ribosylation factor 3 (ARF3) gene, complete cds
six	202161		AL139152	Human DNA sequence from clone RP4-704D21 on chromosome 1 Contains the 3' end of a novel gene, a novel gene and the 3' end of an unprocessed pseudogene similar to part of a novel protein, complete sequence			AK395302	Sus scrofa mRNA, clone: OVRM10179G04, expressed in ovary
six	202177	SULT1C2P1	NR_037191	Homo sapiens sulfotransferase family, cytosolic, 1C, member 2 pseudogene 1 (SULT1C2P1), non-coding RNA	Other	other	XR_302296	PREDICTED: Sus scrofa sulfotransferase 1C4-like (LOC100624389), misc_RNA
six	202178	FAM210A	XM_006722298	PREDICTED: Homo sapiens family with sequence similarity 210, member A (FAM210A), transcript variant X1, mRNA	Cytoplasm	other	XM_005658297	PREDICTED: Sus scrofa protein FAM210A-like (LOC100626126), transcript variant X4, mRNA
six	202180		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			FP085562	Pig DNA sequence from clone CH242-160O9 on chromosome 7, complete sequence
six	202181	EBP	NG_007452	Homo sapiens emopamil binding protein (sterol isomerase) (EBP), RefSeqGene on chromosome X	Cytoplasm	enzyme	XM_005657791	PREDICTED: Sus scrofa emopamil binding protein (sterol isomerase) (EBP), transcript variant X3, mRNA
six	202183	SKP1	NM_170679	Homo sapiens S-phase kinase-associated protein 1 (SKP1), transcript variant 2, mRNA	Nucleus	transcription regulator	AK392736	Sus scrofa mRNA, clone: HTMT10097C07, expressed in hypothalamus
six	202188	GDE1	BC014981	Homo sapiens glycerophosphodiester phosphodiesterase 1, mRNA (cDNA clone MGC:23190 IMAGE:4855079), complete cds	Plasma Membrane	enzyme	AY609612	Sus scrofa clone Clu_20955.scr.msk.p1.Contig3, mRNA sequence

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six	202197	OSGEPL1	AC013468	Homo sapiens BAC clone RP11-455J20 from 2, complete sequence			XM_005672026	PREDICTED: Sus scrofa O-sialoglycoprotein endopeptidase-like 1 (OSGEPL1), transcript variant X6, mRNA
six	202200		AC011497	Homo sapiens chromosome 19 clone CTB-50E14, complete sequence			FP015864	Pig DNA sequence from clone CH242-76P15 on chromosome X, complete sequence
six	202206		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AK238609	Sus scrofa mRNA, clone:THY010006D10, expressed in thymus
six	202237		AC079174	Homo sapiens 12 BAC RP11-651L5 (Roswell Park Cancer Institute Human BAC Library) complete sequence			CU638862	Pig DNA sequence from clone CH242-477H4 on chromosome X, complete sequence
six	202241		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AK390744	Sus scrofa mRNA, clone: BKFL10079C04, expressed in backfat
six	202242	SLC25A26	XM_006712956	PREDICTED: Homo sapiens solute carrier family 25 (S-adenosylmethionine carrier), member 26 (SLC25A26), transcript variant X1, mRNA	Cytoplasm	transporter	AK238532	Sus scrofa mRNA, clone:TES010055H06, expressed in testis
six	202255		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			FO203394	Pig DNA sequence from clone WTSI_1062-14B16 on chromosome X, complete sequence
six	202263	PAXBP1	XM_006724066	PREDICTED: Homo sapiens PAX3 and PAX7 binding protein 1 (PAXBP1), transcript variant X1, mRNA	Nucleus	other	XM_003132753	PREDICTED: Sus scrofa PAX3 and PAX7 binding protein 1 (PAXBP1), mRNA
six	202289	RGL1	BX537416	Homo sapiens mRNA; cDNA DKFZp686C2469 (from clone DKFZp686C2469); complete cds	Cytoplasm	other	FP325173	Pig DNA sequence from clone CH242-211N13 on chromosome X, complete sequence
six	202293		AC025853	Homo sapiens chromosome 8, clone RP11-353K12, complete sequence			CU468849	Pig DNA sequence from clone CH242-213K14 on chromosome 7, complete sequence
six	202324	TRIM77	NM_001146162	Homo sapiens tripartite motif containing 77 (TRIM77), transcript variant 1, mRNA	Other	other	XM_005667221	PREDICTED: Sus scrofa tripartite motif containing 77 (TRIM77), mRNA
six	202351	MOK	XM_006720227	PREDICTED: Homo sapiens MOK protein kinase (MOK), transcript variant X3, mRNA	Plasma Membrane	kinase	XM_003128742	PREDICTED: Sus scrofa MOK protein kinase (MOK), transcript variant X1, mRNA
six	202363	TDRP	XM_006716232	PREDICTED: Homo sapiens testis development related protein (TDRP), transcript variant X2, mRNA	Other	other	AK347596	Sus scrofa mRNA, clone:OVR010062H03, expressed in ovary
six	202391	MIPOL1	XM_006720045	PREDICTED: Homo sapiens mirror-image polydactyly 1 (MIPOL1), transcript variant X3, mRNA	Nucleus	other	XR_304511	PREDICTED: Sus scrofa uncharacterized LOC100626026 (LOC100626026), misc_RNA

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six	202393	TFPI	XM_006712720	PREDICTED: Homo sapiens tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor) (TFPI), transcript variant X4, mRNA	Extracellular Space	other	XM_005672012	PREDICTED: Sus scrofa tissue factor pathway inhibitor (LOC100155068), transcript variant X17, mRNA
six	202395	VCPIP1	NM_025054	Homo sapiens valosin containing protein (p97)/p47 complex interacting protein 1 (VCPIP1), mRNA	Cytoplasm	peptidase	XM_003355045	PREDICTED: Sus scrofa valosin containing protein (p97)/p47 complex interacting protein 1 (VCPIP1), mRNA
six	202508	LOC101927285	AC007131	Homo sapiens BAC clone RP11-179A20 from 2, complete sequence	Other	other	DQ837904	Sus scrofa clone UMNp1888 microsatellite sequence
six	202522	RPS20	NM_001023	Homo sapiens ribosomal protein S20 (RPS20), transcript variant 2, mRNA	Cytoplasm	other	AK392799	Sus scrofa mRNA, clone: HTMT10100E02, expressed in hypothalamus
six	202525		AL359885	Human DNA sequence from clone RP11-346E8 on chromosome Xq21.1-21.31, complete sequence			XM_003360380	PREDICTED: Sus scrofa SH3 domain-binding glutamic acid-rich-like protein 3-like (LOC100620814), mRNA
six	202534	ZNF407	NG_013216	Homo sapiens zinc finger protein 407 (ZNF407), RefSeqGene on chromosome 18	Nucleus	other	XM_005659816	PREDICTED: Sus scrofa zinc finger protein 407-like (LOC102159272), mRNA
six	202626		AC243982	Homo sapiens BAC clone CH17-315P16 from chromosome 8, complete sequence			XR_299491	PREDICTED: Sus scrofa uncharacterized LOC102158366 (LOC102158366), misc_RNA
six	202638	LYZL4	NM_144634	Homo sapiens lysozyme-like 4 (LYZL4), mRNA >gi 34190142 gb BC016747.2 Homo sapiens lysozyme-like 4, mRNA (cDNA clone MGC:26768 IMAGE:4830396), complete cds	Extracellular Space	enzyme	XM_003132132	PREDICTED: Sus scrofa lysozyme-like 4 (LYZL4), transcript variant 2, mRNA
six	202684		AL359963	Human DNA sequence from clone RP11-18A3 on chromosome 9, complete sequence			XR_301425	PREDICTED: Sus scrofa uncharacterized LOC102167834 (LOC102167834), misc_RNA
six	202695	PLEKHA8	XM_005249898	PREDICTED: Homo sapiens pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 8 (PLEKHA8), transcript variant X2, mRNA	Extracellular Space	transporter	XR_308673	PREDICTED: Sus scrofa uncharacterized LOC102160496 (LOC102160496), misc_RNA
six	202737		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			FO203420	Pig DNA sequence from clone CH242-153G11 on chromosome X, complete sequence
six	202755	SEC31A	NG_029569	Homo sapiens SEC31 homolog A (S. cerevisiae) (SEC31A), RefSeqGene on chromosome 4	Cytoplasm	other	FJ263688	Sus scrofa clone PigI-285B6(INRA) stearyl-CoA desaturase 5 (SCD5) gene, complete cds

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six	202792	SNRPB	HQ447543	Synthetic construct Homo sapiens clone IMAGE:100070882; CCSB014994_02 small nuclear ribonucleoprotein polypeptides B and B1 (SNRPB) gene, encodes complete protein	Nucleus	other	AK394577	Sus scrofa mRNA, clone: MLN010103H12, expressed in mesenteric lymph node
six	202820	TMEM140	NM_018295	Homo sapiens transmembrane protein 140 (TMEM140), mRNA	Other	other	XM_003134650	PREDICTED: Sus scrofa transmembrane protein 140 (TMEM140), mRNA
six	202871	SPRTN	XM_006711818	PREDICTED: Homo sapiens SprT-like N-terminal domain (SPRTN), transcript variant X3, mRNA	Nucleus	other	NM_001243554	Sus scrofa zinc finger RAD18 domain-containing protein C1orf124 homolog (C14H1orf124), mRNA
six	202873	WSB1	XR_429881	PREDICTED: Homo sapiens WD repeat and SOCS box containing 1 (WSB1), transcript variant X6, misc_RNA	Other	other	XM_003131753	PREDICTED: Sus scrofa WD repeat and SOCS box containing 1 (WSB1), mRNA
six	202875	COL8A1	NM_020351	Homo sapiens collagen, type VIII, alpha 1 (COL8A1), transcript variant 2, mRNA	Extracellular Space	other	XM_001926443	PREDICTED: Sus scrofa collagen, type VIII, alpha 1 (COL8A1), transcript variant X1, mRNA
six	202884	DNAJC1	AK027263	Homo sapiens cDNA FLJ14357 fis, clone HEMBA1000005, highly similar to DNAJ PROTEIN HOMOLOG MTJ1	Cytoplasm	other	XM_005668160	PREDICTED: Sus scrofa DnaJ (Hsp40) homolog, subfamily C, member 1 (DNAJC1), mRNA
six	202898		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AK391005	Sus scrofa mRNA, clone: CLNT10039A10, expressed in colon
six	202909	AIG1	NM_016108	Homo sapiens androgen-induced 1 (AIG1), transcript variant 1, mRNA	Other	other	XM_001924474	PREDICTED: Sus scrofa androgen-induced 1 (AIG1), mRNA
six	202913	NRP1	XM_006717525	PREDICTED: Homo sapiens neuropilin 1 (NRP1), transcript variant X5, mRNA	Plasma Membrane	transmembrane receptor	XM_005668182	PREDICTED: Sus scrofa neuropilin 1 (NRP1), transcript variant X8, mRNA
six	202914	ELMOD2	XM_005262886	PREDICTED: Homo sapiens ELMO/CED-12 domain containing 2 (ELMOD2), transcript variant X2, mRNA	Other	other	XM_003482436	PREDICTED: Sus scrofa ELMO/CED-12 domain containing 2 (ELMOD2), mRNA
six	202934	H2AFY	CR749528	Homo sapiens genomic DNA; cDNA DKFZp686K2287 (from clone DKFZp686K2287)	Nucleus	other	AK392926	Sus scrofa mRNA, clone: ITT010042B03, expressed in intestine
six	202936	NEDD1	AC013417	Homo sapiens 12q22-103.4-106.5 BAC RP11-397H6 (Roswell Park Cancer Institute Human BAC Library) complete sequence	Cytoplasm	other	AK393359	Sus scrofa mRNA, clone: KDN010042B09, expressed in kidney
six	202950		AC012495	Homo sapiens BAC clone RP11-327F6 from 2, complete sequence			CU207306	Pig DNA sequence from clone CH242-228B14 on chromosome X, complete sequence
six	202956	FGF18	NG_029158	Homo sapiens fibroblast growth factor 18 (FGF18), RefSeqGene on chromosome 5	Extracellular Space	growth factor	AK351505	Sus scrofa mRNA, clone: THY010021A08, expressed in thymus

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six	202964	SLC41A2	AC089985	Homo sapiens 12q BAC RP11-798P24 (Roswell Park Cancer Institute Human BAC Library) complete sequence	Plasma Membrane	transporter	XM_003129283	PREDICTED: Sus scrofa solute carrier family 9, subfamily B (NHA2, cation proton antiporter 2), member 2 (SLC9B2), mRNA
six	202973	TBC1D15	XM_006719567	PREDICTED: Homo sapiens TBC1 domain family, member 15 (TBC1D15), transcript variant X5, mRNA	Other	other	XM_001925336	PREDICTED: Sus scrofa TBC1 domain family, member 15 (TBC1D15), transcript variant X2, mRNA
six	203008		HG506293	TPA: Homo sapiens RP11-355I22.7 gene for long non-coding RNA OTTHUMT00000421433.2, sense_overlapping			NM_001038000	Sus scrofa FKBP1A-like (LOC654323), mRNA >gi 61098746 gb AY820760.1 Sus scrofa FKBP1A-like mRNA, complete cds
six	203020	PPP1R42	AC109335	Homo sapiens chromosome 8, clone RP11-453N18, complete sequence			XM_001926086	PREDICTED: Sus scrofa protein phosphatase 1, regulatory subunit 42 (PPP1R42), transcript variant X1, mRNA
six	203030		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AK392844	Sus scrofa mRNA, clone: ITT010013F03, expressed in intestine
six	203068	MRC1	BX255924	Human DNA sequence from clone RP11-541119 on chromosome 10 Contains the 3' end of the gene for a novel protein similar to mannose receptor C type 1 (MRC1), complete sequence	Plasma Membrane	transmembrane receptor	AK389863	Sus scrofa mRNA, clone: AMP010098G05, expressed in alveolar macrophage
six	203072	GRM5	XM_006718830	PREDICTED: Homo sapiens glutamate receptor, metabotropic 5 (GRM5), transcript variant X3, mRNA	Plasma Membrane	G-protein coupled receptor	CU618315	Pig DNA sequence from clone CH242-254M4 on chromosome 7, complete sequence
six	203084	DPY30	XM_006712119	PREDICTED: Homo sapiens dpy-30 homolog (C. elegans) (DPY30), transcript variant X5, mRNA	Nucleus	other	NM_001244925	Sus scrofa dpy-30 homolog (C. elegans) (DPY30), mRNA >gi 288785811 dbj AK346618.1 Sus scrofa mRNA, clone:MLN010021E07, expressed in mesenteric lymph nodes
six	203096	SLCO2A1	FM206294	Cloning vector pchilGHG1			DQ104838	Sus scrofa solute carrier organic anion transporter family member 2A1 (SLCO2A1) gene, exon 6
six	203105	SLC1A2	XM_006718277	PREDICTED: Homo sapiens solute carrier family 1 (glial high affinity glutamate transporter), member 2 (SLC1A2), transcript variant X3, mRNA	Plasma Membrane	transporter	AK400013	Sus scrofa mRNA, clone: HTMT10125B05, expressed in hypothalamus
six	203106	LAMB1R	AF172277	Homo sapiens 7q31 clones RP11-267O17 and RP11-256L2 including NRCAM and LAMB1R genes, complete sequence			AK393180	Sus scrofa mRNA, clone: KDN010016F12, expressed in kidney
six	203132	SETD7	BC012784	Homo sapiens SET domain containing (lysine methyltransferase) 7, mRNA (cDNA clone IMAGE:3951386)	Nucleus	enzyme	AF067053	Sus scrofa microsatellite Li2 sequence

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six	203137	HSPBAP1	AK289410	Homo sapiens cDNA FLJ76988 complete cds, highly similar to Homo sapiens HSPB (heat shock 27kDa) associated protein 1 (HSPBAP1), mRNA	Other	other	XM_005670166	PREDICTED: Sus scrofa HSPB (heat shock 27kDa) associated protein 1 (HSPBAP1), transcript variant X3, mRNA
six	203144	FUT9	NM_006581	Homo sapiens fucosyltransferase 9 (alpha (1,3) fucosyltransferase) (FUT9), mRNA	Cytoplasm	enzyme	AK391604	Sus scrofa mRNA, clone: HTMT10006C06, expressed in hypothalamus
six	203150	EXOSC9	XR_427545	PREDICTED: Homo sapiens exosome component 9 (EXOSC9), transcript variant X1, misc_RNA	Nucleus	enzyme	XM_005666896	PREDICTED: Sus scrofa exosome component 9 (EXOSC9), transcript variant X2, mRNA
six	203152	AQP4	NG_029560	Homo sapiens aquaporin 4 (AQP4), RefSeqGene on chromosome 18	Plasma Membrane	transporter	CU407156	Pig DNA sequence from clone CH242-210C11 on chromosome 5, complete sequence
six	203153	IL17RD	NM_017563	Homo sapiens interleukin 17 receptor D (IL17RD), mRNA	Cytoplasm	other	FQ014219	Pig DNA sequence from clone CH242-352J3 on chromosome X, complete sequence
six	203163	MORC1	XM_005247362	PREDICTED: Homo sapiens MORC family CW-type zinc finger 1 (MORC1), transcript variant X1, mRNA	Nucleus	other	NM_001038000	Sus scrofa FKBP1A-like (LOC654323), mRNA >gi 61098746 gb AY820760.1 Sus scrofa FKBP1A-like mRNA, complete cds
six	203176	MOBP	NR_103505	Homo sapiens myelin-associated oligodendrocyte basic protein (MOBP), transcript variant 6, long non-coding RNA	Cytoplasm	other	XR_306740	PREDICTED: Sus scrofa myelin-associated oligodendrocyte basic protein (MOBP), transcript variant X5, misc_RNA
six	203213	TSPAN2	XM_005270340	PREDICTED: Homo sapiens tetraspanin 2 (TSPAN2), transcript variant X1, mRNA	Extracellular Space	other	XM_001927979	PREDICTED: Sus scrofa tetraspanin 2 (TSPAN2), transcript variant X1, mRNA
six	203222	WWC2	XM_006714312	PREDICTED: Homo sapiens WW and C2 domain containing 2 (WWC2), transcript variant X1, mRNA	Other	other	XM_003359464	PREDICTED: Sus scrofa WW and C2 domain containing 2 (WWC2), mRNA
six	203234	C20orf194	XM_005260687	PREDICTED: Homo sapiens chromosome 20 open reading frame 194 (C20orf194), transcript variant X4, mRNA	Nucleus	other	XM_005672788	PREDICTED: Sus scrofa chromosome 17 open reading frame, human C20orf194 (C17H20orf194), mRNA
six	203247	FRS2	NM_001278357	Homo sapiens fibroblast growth factor receptor substrate 2 (FRS2), transcript variant 8, mRNA	Plasma Membrane	other	CU856428	Pig DNA sequence from clone CH242-1F19 on chromosome X, complete sequence
six	203257	TTC33	XM_006714462	PREDICTED: Homo sapiens tetratricopeptide repeat domain 33 (TTC33), transcript variant X2, mRNA	Other	other	CU326403	Pig DNA sequence from clone CH242-198M20 on chromosome 7, complete sequence
six	203263	FLVCR1	NG_028131	Homo sapiens feline leukemia virus subgroup C cellular receptor 1 (FLVCR1), RefSeqGene on chromosome 1			CR956425	Pig DNA sequence from clone CH242-30J21 on chromosome 6, complete sequence

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six	203282	ZNF136	XM_006722882	PREDICTED: Homo sapiens zinc finger protein 136 (ZNF136), transcript variant X1, mRNA	Nucleus	transcription regulator	AK349256	Sus scrofa mRNA, clone:PTG010033G01, expressed in pituitary gland
six	203284	SATB2	XM_005246396	PREDICTED: Homo sapiens SATB homeobox 2 (SATB2), transcript variant X1, mRNA	Nucleus	transcription regulator	CU407163	Pig DNA sequence from clone CH242-22216 on chromosome X, complete sequence
six	203304	MINA	XR_241516	PREDICTED: Homo sapiens MYC induced nuclear antigen (MINA), transcript variant X2, misc_RNA	Nucleus	other	CU695131	Pig DNA sequence from clone CH242-263G11 on chromosome X, complete sequence
six	203312	EFCAB14	NM_014774	Homo sapiens EF-hand calcium binding domain 14 (EFCAB14), mRNA	Other	other	XM_003128031	PREDICTED: Sus scrofa EF-hand calcium binding domain 14 (EFCAB14), mRNA
six	203320	STMN2	XM_005251142	PREDICTED: Homo sapiens stathmin-like 2 (STMN2), transcript variant X2, mRNA	Plasma Membrane	other	AK234052	Sus scrofa mRNA, clone:MLN010103G11, expressed in mesenteric lymph node
six	203322	DNM3	XM_005245082	PREDICTED: Homo sapiens dynamin 3 (DNM3), transcript variant X4, mRNA	Cytoplasm	enzyme	AK392156	Sus scrofa mRNA, clone: HTMT10053F04, expressed in hypothalamus
six	203331	AQP4	NG_029560	Homo sapiens aquaporin 4 (AQP4), RefSeqGene on chromosome 18	Plasma Membrane	transporter	XM_005672031	PREDICTED: Sus scrofa major facilitator superfamily domain containing 6 (MFSD6), transcript variant X2, mRNA
six	203341	PNISR	XM_006715452	PREDICTED: Homo sapiens PNN-interacting serine/arginine-rich protein (PNISR), transcript variant X9, mRNA	Nucleus	other	DQ104838	Sus scrofa solute carrier organic anion transporter family member 2A1 (SLCO2A1) gene, exon 6
six	203346	ANAPC16	NR_038392	Homo sapiens anaphase promoting complex subunit 16 (ANAPC16), transcript variant 6, long non-coding RNA	Nucleus	other	XM_005671064	PREDICTED: Sus scrofa anaphase promoting complex subunit 16 (ANAPC16), transcript variant X2, mRNA
six	203358	IL1RL1	NR_104167	Homo sapiens interleukin 1 receptor-like 1 (IL1RL1), transcript variant 4, long non-coding RNA	Plasma Membrane	transmembrane receptor	AY609705	Sus scrofa clone Clu_26808.scr.msk.p1.Contig1, mRNA sequence
six	203374	MBD5	AK304424	Homo sapiens cDNA FLJ61558 complete cds, highly similar to Methyl-CpG-binding domain protein 5	Nucleus	other	XM_003484251	PREDICTED: Sus scrofa methyl-CpG-binding domain protein 5-like (LOC100738689), partial mRNA
six	203377	PIKFYVE	XM_006712362	PREDICTED: Homo sapiens phosphoinositide kinase, FYVE finger containing (PIKFYVE), transcript variant X2, mRNA	Cytoplasm	kinase	XM_005672138	PREDICTED: Sus scrofa phosphoinositide kinase, FYVE finger containing (PIKFYVE), mRNA
six	203394	WIF1	NM_007191	Homo sapiens WNT inhibitory factor 1 (WIF1), mRNA	Extracellular Space	other	XM_003360581	PREDICTED: Sus scrofa wnt inhibitory factor 1-like (LOC100512657), mRNA
six	203395	RBM26	XM_006719860	PREDICTED: Homo sapiens RNA binding motif protein 26 (RBM26), transcript variant X17, mRNA	Other	other	XM_001925971	PREDICTED: Sus scrofa RNA binding motif protein 26 (RBM26), transcript variant X1, mRNA

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six	203397	OPCML	XM_006718846	PREDICTED: Homo sapiens opioid binding protein/cell adhesion molecule-like (OPCML), transcript variant X9, mRNA	Plasma Membrane	transmembrane receptor	FP016058	Pig DNA sequence from clone CH242-31F15 on chromosome X, complete sequence
six	203407	SLC5A1	NG_017045	Homo sapiens solute carrier family 5 (sodium/glucose cotransporter), member 1 (SLC5A1), RefSeqGene on chromosome 22			AK352159	Sus scrofa mRNA, clone:UTR010014E11, expressed in uterus
six	203411		AC008854	Homo sapiens chromosome 5 clone CTD-2177J2, complete sequence			CR974477	Pig DNA sequence from clone CH242-217L7 on chromosome 17, complete sequence
six	203418	COMMD8	XM_006714019	PREDICTED: Homo sapiens COMM domain containing 8 (COMMD8), transcript variant X1, mRNA	Other	other	XM_003128956	PREDICTED: Sus scrofa COMM domain containing 8 (COMMD8), mRNA
six	203419	CPNE4	NM_130808	Homo sapiens copine IV (CPNE4), transcript variant 3, mRNA	Cytoplasm	other	XM_001924921	PREDICTED: Sus scrofa copine IV (CPNE4), mRNA
six	203427	IMPA1	NG_015829	Homo sapiens inositol(myo)-1(or 4)-monophosphatase 1 (IMPA1), RefSeqGene on chromosome 8	Cytoplasm	phosphatase	AK344681	Sus scrofa mRNA, clone:DCI010107B07, expressed in dendritic cells (immature)
six	203429	TMEM19	NM_018279	Homo sapiens transmembrane protein 19 (TMEM19), mRNA	Other	other	AK344682	Sus scrofa mRNA, clone:DCI010107E11, expressed in dendritic cells (immature)
six	203435	TMEM155	XM_005262737	PREDICTED: Homo sapiens transmembrane protein 155 (TMEM155), transcript variant X1, mRNA	Other	other	FP015833	Pig DNA sequence from clone CH242-6D10 on chromosome X, complete sequence
six	203438		AL352979	Human chromosome 14 DNA sequence BAC R-368P15 of library RPCI-11 from chromosome 14 of Homo sapiens (Human), complete sequence			FP102832	Pig DNA sequence from clone CH242-27L23 on chromosome X, complete sequence
six	203452		AC114341	Homo sapiens chromosome 18, clone RP11-248M19, complete sequence			FP016027	Pig DNA sequence from clone CH242-202P13 on chromosome X, complete sequence
six	203456	NBR1	XM_006721903	PREDICTED: Homo sapiens neighbor of BRCA1 gene 1 (NBR1), transcript variant X1, mRNA	Cytoplasm	other	XM_005656955	PREDICTED: Sus scrofa neighbor of BRCA1 gene 1 (NBR1), transcript variant X7, mRNA
six	203463		AL162377	Human DNA sequence from clone RP11-327P2 on chromosome 13, complete sequence			AK232962	Sus scrofa mRNA, clone:LVRM10056C11, expressed in liver
six	203476	REST	XM_005265760	PREDICTED: Homo sapiens RE1-silencing transcription factor (REST), transcript variant X4, mRNA	Nucleus	transcription regulator	XM_003129021	PREDICTED: Sus scrofa RE1-silencing transcription factor (REST), transcript variant X1, mRNA

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six	203491		AL390729	Human DNA sequence from clone RP3-522D1 on chromosome 1, complete sequence			XR_304219	PREDICTED: Sus scrofa uncharacterized LOC102164041 (LOC102164041), transcript variant X2, misc_RNA
six	203516		AC253572	Homo sapiens BAC clone CH17-3B23 from chromosome 1, complete sequence			AK344121	Sus scrofa mRNA, clone: BKFL10050A04, expressed in back fat
six	203539	SLC35B4	NM_032826	Homo sapiens solute carrier family 35 (UDP-xylose/UDP-N-acetylglucosamine transporter), member B4 (SLC35B4), mRNA	Cytoplasm	transporter	XM_005673155	PREDICTED: Sus scrofa UDP-xylose and UDP-N-acetylglucosamine transporter-like (LOC100525844), mRNA
six	203575	TNXB	AL590704	Human DNA sequence from clone RP11-106E7 on chromosome 6, complete sequence			XM_005665835	PREDICTED: Sus scrofa tenascin XB (TNXB), mRNA
six	203589		AL033532	Human DNA sequence from clone RP4-745114 on chromosome 1q23.1-24.3, complete sequence			CU466546	Pig DNA sequence from clone CH242-110K8 on chromosome X, complete sequence
six	203635	C15orf41	NG_034055	Homo sapiens chromosome 15 open reading frame 41 (C15orf41), RefSeqGene on chromosome 15			AY803118	Sus scrofa chromosome 17 clone pkmCon89, mRNA sequence
six	203647	NENF	NR_026598	Homo sapiens neudesin neurotrophic factor (NENF), transcript variant 2, non-coding RNA	Extracellular Space	growth factor	XM_005667867	PREDICTED: Sus scrofa neudesin neurotrophic factor (NENF), mRNA
six	203667	FABP5P10	NG_008710	Homo sapiens fatty acid binding protein 5 pseudogene 10 (FABP5P10) on chromosome 2			NM_001039746	Sus scrofa fatty acid binding protein 5 (psoriasis-associated) (FABP5), mRNA
six	203677	RNASEH1	NM_001286837	Homo sapiens ribonuclease H1 (RNASEH1), transcript variant 2, mRNA	Nucleus	enzyme	AK234404	Sus scrofa mRNA, clone: OVR010056A10, expressed in ovary
six	203679	PSMB4	AB464086	Synthetic construct DNA, clone: pF1KB5566, Homo sapiens PSMB4 gene for proteasome (prosome, macropain) subunit, beta type 4, without stop codon, in Flexi system			AK393768	Sus scrofa mRNA, clone: LNG010001G11, expressed in lung
six	203681	TCP11L1	XR_428846	PREDICTED: Homo sapiens t-complex 11, testis-specific-like 1 (TCP11L1), transcript variant X3, misc_RNA	Cytoplasm	other	FP102491	Pig DNA sequence from clone CH242-24A19 on chromosome X, complete sequence
six	203764	TMF1	NM_007114	Homo sapiens TATA element modulatory factor 1 (TMF1), mRNA	Cytoplasm	transcription regulator	XM_005669720	PREDICTED: Sus scrofa TATA element modulatory factor 1 (TMF1), mRNA
six	203770	LIN54	XM_006714081	PREDICTED: Homo sapiens lin-54 homolog (C. elegans) (LIN54), transcript variant X5, mRNA	Nucleus	other	FP085382	Pig DNA sequence from clone CH242-380F6 on chromosome X, complete sequence
six	203870	CACNB2	NG_016195	Homo sapiens calcium channel, voltage-dependent, beta 2 subunit (CACNB2), RefSeqGene on chromosome 10	Plasma Membrane	ion channel	XR_305920	PREDICTED: Sus scrofa voltage-dependent L-type calcium channel subunit beta-2-like (LOC100624251), misc_RNA

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six	203875	RNF141	NM_016422	Homo sapiens ring finger protein 141 (RNF141), mRNA	Other	enzyme	XM_005661125	PREDICTED: Sus scrofa ring finger protein 141 (RNF141), transcript variant X1, mRNA
six	203882	SPIC	AL591400	Human DNA sequence from clone RP11-65C6 on chromosome 6, complete sequence			XM_003481736	PREDICTED: Sus scrofa Spi-C transcription factor (Spi-1/PU,1 related) (SPIC), mRNA
six	203884	PPTC7	AK098051	Homo sapiens cDNA FLJ40732 fis, clone TKIDN2002738	Cytoplasm	phosphatase	AK389675	Sus scrofa mRNA, clone: AMP010033B07, expressed in alveolar macrophage
six	203898	MYL1	NM_079420	Homo sapiens myosin, light chain 1, alkali; skeletal, fast (MYL1), transcript variant 1f, mRNA	Cytoplasm	other	DQ629158	Sus scrofa MLC1f (MYL1) mRNA, complete cds
six	203918	CH507-510L4	FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			XM_003128101	PREDICTED: Sus scrofa phosphopantothenoylcysteine synthetase (PPCS), mRNA
six	203934	PLCG2	NM_002661	Homo sapiens phospholipase C, gamma 2 (phosphatidylinositol-specific) (PLCG2), mRNA	Cytoplasm	enzyme	CR956363	Pig DNA sequence from clone CH242-60A21 on chromosome 17, complete sequence
six	203936	ATP11C	XM_006724752	PREDICTED: Homo sapiens ATPase, class VI, type 11C (ATP11C), transcript variant X3, mRNA	Plasma Membrane	transporter	XM_005673942	PREDICTED: Sus scrofa ATPase, class VI, type 11C (ATP11C), partial mRNA
six	203962	CD86	XM_005247905	PREDICTED: Homo sapiens CD86 molecule (CD86), transcript variant X1, mRNA	Plasma Membrane	transmembrane receptor	KF646138	Sus scrofa CD86 protein mRNA, complete cds
six	203965	LYZ	AK310930	Homo sapiens cDNA, FLJ17972	Extracellular Space	enzyme	AK236844	Sus scrofa mRNA, clone:PBL010023H04, expressed in peripheral blood mononuclear cell
six	203966	ZNF674	NG_023376	Homo sapiens zinc finger protein 674 (ZNF674), RefSeqGene on chromosome X			XM_005673577	PREDICTED: Sus scrofa zinc finger protein 674-like (LOC100524005), mRNA
six	203968	CYTIP	BC036449	Homo sapiens cytohesin 1 interacting protein, mRNA (cDNA clone MGC:33019 IMAGE:4830272), complete cds	Cytoplasm	other	FP085527	Pig DNA sequence from clone CH242-369O10 on chromosome X, complete sequence
six	203976	CTC-454I21	AC012309	Homo sapiens chromosome 19 clone CTC-454I21, complete sequence			XM_005669245	PREDICTED: Sus scrofa ADP-ribose/CDP-alcohol diphosphatase, manganese-dependent (ADPRM), transcript variant X2, mRNA
six	204065	CTA-389B	AF207953	Homo sapiens chromosome 8 clone CTA-389B map q21,13, complete sequence			FN673720	Sus scrofa BAC clone KNP_175E3
six	204121	SLC11A2	NG_021139	Homo sapiens solute carrier family 11 (proton-coupled divalent metal ion transporter), member 2 (SLC11A2), RefSeqGene on chromosome 12			AY609705	Sus scrofa clone Clu_26808.scr.msk.p1.Contig1, mRNA sequence

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six	204175	CTC-451P13	AC020898	Homo sapiens chromosome 5 clone CTC-451P13, complete sequence			XM_005661514	PREDICTED: Sus scrofa junction mediating and regulatory protein, p53 cofactor (JMY), mRNA
six	204212	CLDN23	NM_194284	Homo sapiens claudin 23 (CLDN23), mRNA	Plasma Membrane	other	CT827816	Pig DNA sequence from clone CH242-102G18 on chromosome 7, complete sequence
six	204213	SGK3	NM_001204173	Homo sapiens C8orf44-SGK3 readthrough (C8orf44-SGK3), mRNA	Cytoplasm	kinase	CU302208	Pig DNA sequence from clone CH242-168N3 on chromosome X, complete sequence
six	204269	SERTAD4	NM_019605	Homo sapiens SERTA domain containing 4 (SERTAD4), mRNA	Other	other	XM_005667881	PREDICTED: Sus scrofa SERTA domain containing 4 (SERTAD4), transcript variant X3, mRNA
six	204303	ADH5	NM_000671	Homo sapiens alcohol dehydrogenase 5 (class III), chi polypeptide (ADH5), mRNA	Cytoplasm	enzyme	AK390254	Sus scrofa mRNA, clone: BFLT10046E01, expressed in brain (frontal lobe)
six	204339	PTPN21	XM_006720011	PREDICTED: Homo sapiens protein tyrosine phosphatase, non-receptor type 21 (PTPN21), transcript variant X2, mRNA	Cytoplasm	phosphatase	XM_005666368	PREDICTED: Sus scrofa protein tyrosine phosphatase, non-receptor type 21 (PTPN21), transcript variant X2, mRNA
six	204486	ERICH5	NM_173549	Homo sapiens glutamate-rich 5 (ERICH5), transcript variant 1, mRNA	Other	other	XM_005655354	PREDICTED: Sus scrofa chromosome 4 open reading frame, human C8orf47 (C4H8orf47), transcript variant X2, mRNA
six	204504	RPL5	AK314720	Homo sapiens cDNA, FLJ95579, Homo sapiens ribosomal protein L5 (RPL5), mRNA	Cytoplasm	other	AK394513	Sus scrofa mRNA, clone: MLN010073D02, expressed in mesenteric lymph node
six	204531	NEAT1	GQ859162	Homo sapiens MEN beta, complete sequence >gi 551871245 tpe HG503867.1 TPA: Homo sapiens NEAT1 gene for long non-coding RNA OTTHUMT00000389142.3, lincRNA	Other	other	XR_115737	PREDICTED: Sus scrofa uncharacterized LOC100513133 (LOC100513133), misc_RNA
six	204612	MYOF	XM_006717760	PREDICTED: Homo sapiens myoferlin (MYOF), transcript variant X3, mRNA	Nucleus	other	XM_005671298	PREDICTED: Sus scrofa myoferlin (MYOF), mRNA
six	204623	RPL4	NM_000968	Homo sapiens ribosomal protein L4 (RPL4), mRNA	Cytoplasm	enzyme	AK391149	Sus scrofa mRNA, clone: CLNT10078G06, expressed in colon
six	204635	MUC5AC	XM_006718399	PREDICTED: Homo sapiens mucin 5AC, oligomeric mucus/gel-forming (MUC5AC), mRNA	Cytoplasm	peptidase	AY803092	Sus scrofa chromosome 17 clone pkmCon19, mRNA sequence
six	204702	EEF1B2	JF432608	Synthetic construct Homo sapiens clone IMAGE:100073845 eukaryotic translation elongation factor 1 beta 2 (EEF1B2) gene, encodes complete protein	Cytoplasm	translation regulator	AK392577	Sus scrofa mRNA, clone: HTMT10087E02, expressed in hypothalamus

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six	204720	LYPLA1	AC004062	Homo sapiens chromosome 4 clone B316M24 map 4q25, complete sequence			XM_005653065	PREDICTED: Sus scrofa lysophospholipase I (LYPLA1), transcript variant X2, mRNA
six	204725	AKR1D1P1	NG_002683	Homo sapiens aldo-keto reductase family 1, member D1 pseudogene 1 (AKR1D1P1) on chromosome 1			AK233151	Sus scrofa mRNA, clone:LVRM10090H02, expressed in liver
six	204874	RPL23AP42	NG_010965	Homo sapiens ribosomal protein L23a pseudogene 42 (RPL23AP42) on chromosome 3			XM_003361281	PREDICTED: Sus scrofa 60S ribosomal protein L23a-like (LOC100623805), mRNA
six	204949	EPCAM	NM_002354	Homo sapiens epithelial cell adhesion molecule (EPCAM), mRNA	Plasma Membrane	other	NM_214419	Sus scrofa epithelial cell adhesion molecule (EPCAM), mRNA >gij41386676 dbj AB161197.1 Sus scrofa Ep-CAM mRNA for epithelial cell adhesion molecule, complete cds
six	204994	ZNF519	XM_006722299	PREDICTED: Homo sapiens zinc finger protein 519 (ZNF519), transcript variant X1, mRNA	Nucleus	other	XR_304875	PREDICTED: Sus scrofa zinc finger protein 320-like (LOC100519853), transcript variant X3, misc_RNA
six	205000	HMGB1	BC003378	Homo sapiens high-mobility group box 1, mRNA (cDNA clone MGC:5223 IMAGE:2901382), complete cds	Nucleus	other	XM_005668319	PREDICTED: Sus scrofa high mobility group box 1 (HMGB1), transcript variant X4, mRNA
six	205008	GRHL2	NG_011971	Homo sapiens grainyhead-like 2 (Drosophila) (GRHL2), RefSeqGene on chromosome 8			XM_003480359	PREDICTED: Sus scrofa probable ribosome biogenesis protein RLP24-like (LOC100623328), mRNA
six	205012	ARL15	XM_005248549	PREDICTED: Homo sapiens ADP-ribosylation factor-like 15 (ARL15), transcript variant X1, mRNA	Cytoplasm	other	XM_003133954	PREDICTED: Sus scrofa ADP-ribosylation factor-like 15 (ARL15), mRNA
six	205025	PRNP	NM_001271561	Homo sapiens prion protein (PRNP), transcript variant 6, mRNA	Plasma Membrane	other	XM_005672669	PREDICTED: Sus scrofa prion protein (PRNP), transcript variant X1, mRNA
six	205045	FAM8A1	NM_016255	Homo sapiens family with sequence similarity 8, member A1 (FAM8A1), mRNA	Other	other	XM_003128189	PREDICTED: Sus scrofa family with sequence similarity 8, member A1 (FAM8A1), mRNA
six	205057	TWISTNB	AK301329	Homo sapiens cDNA FLJ50058 complete cds, highly similar to Homo sapiens TWIST neighbor (TWISTNB), mRNA	Nucleus	other	XM_005667674	PREDICTED: Sus scrofa DNA-directed RNA polymerase I subunit RPA43-like (LOC100626323), transcript variant X2, mRNA
six	205071	PTBP1	X60648	Human polypyrimidine tract-binding (PTB) mRNA for polypyrimidine tract-binding protein (pPTB)	Nucleus	enzyme	XM_005661410	PREDICTED: Sus scrofa polypyrimidine tract binding protein 1 (PTBP1), transcript variant X1, mRNA
six	205094	LPL	NG_008855	Homo sapiens lipoprotein lipase (LPL), RefSeqGene on chromosome 8	Cytoplasm	enzyme	AY803092	Sus scrofa chromosome 17 clone pkmCon19, mRNA sequence
six	205100	CCDC152	NM_001134848	Homo sapiens coiled-coil domain containing 152 (CCDC152), mRNA	Other	other	XM_005672437	PREDICTED: Sus scrofa coiled-coil domain containing 152 (CCDC152), transcript variant X4, mRNA
six	205164	RPL22	NM_000983	Homo sapiens ribosomal protein L22 (RPL22), mRNA	Nucleus	other	AK392693	Sus scrofa mRNA, clone: HTMT10094H06, expressed in hypothalamus

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six	205168		FM206294	Cloning vector pchilGHG1			AF067053	Sus scrofa microsatellite Li2 sequence
six	205172	KIF28P	XM_001717074	PREDICTED: Homo sapiens kinesin family member 28, pseudogene (KIF28P), mRNA	Cytoplasm	other	XM_005667971	PREDICTED: Sus scrofa protein regulator of cytokinesis 1-like (LOC100517362), mRNA
six	205181	BCL2L11	XM_005263560	PREDICTED: Homo sapiens BCL2-like 11 (apoptosis facilitator) (BCL2L11), transcript variant X11, mRNA	Cytoplasm	other	AK351632	Sus scrofa mRNA, clone:THY010051H11, expressed in thymus
six	205216	MIOS	XM_005249783	PREDICTED: Homo sapiens missing oocyte, meiosis regulator, homolog (Drosophila) (MIOS), transcript variant X4, mRNA	Cytoplasm	other	AK351584	Sus scrofa mRNA, clone:THY010040G10, expressed in thymus
six	205224	PDLIM5	AL832157	Homo sapiens mRNA; cDNA DKFZp686G1014 (from clone DKFZp686G1014)	Cytoplasm	other	XM_005666981	PREDICTED: Sus scrofa PDZ and LIM domain 5 (PDLIM5), transcript variant X17, mRNA
six	205245	RPS8P8	NG_011203	Homo sapiens ribosomal protein S8 pseudogene 8 (RPS8P8) on chromosome 5			XM_003128060	PREDICTED: Sus scrofa ribosomal protein S8 (RPS8), mRNA
six	205265	DCAF17	XM_006712773	PREDICTED: Homo sapiens DDB1 and CUL4 associated factor 17 (DCAF17), transcript variant X8, mRNA	Other	other	FO082659	Pig DNA sequence from clone WTSI_1061-70M13 on chromosome Y, complete sequence
six	205272	HIRIP3	NM_001197323	Homo sapiens HIRA interacting protein 3 (HIRIP3), transcript variant 2, mRNA	Nucleus	other	XM_005658066	PREDICTED: Sus scrofa HIRA interacting protein 3 (HIRIP3), partial mRNA
six	205277	PPIL1	NM_016059	Homo sapiens peptidylprolyl isomerase (cyclophilin)-like 1 (PPIL1), mRNA	Plasma Membrane	enzyme	XM_005665925	PREDICTED: Sus scrofa peptidylprolyl isomerase (cyclophilin)-like 1 (PPIL1), transcript variant X3, mRNA
six	205289		FM206294	Cloning vector pchilGHG1			AK394499	Sus scrofa mRNA, clone: MLN010065E12, expressed in mesenteric lymph node
six	205294	NFIB	XM_006716775	PREDICTED: Homo sapiens nuclear factor I/B (NFIB), transcript variant X8, mRNA	Nucleus	transcription regulator	XM_003480514	PREDICTED: Sus scrofa nuclear factor I/B (NFIB), transcript variant X2, mRNA
six	205312	RP3-341D10	Z97985	Human DNA sequence from clone RP3-341D10 on chromosome X, complete sequence			CU207340	Pig DNA sequence from clone CH242-518N17 on chromosome X, complete sequence
six	205316	DAPK2	AK026801	Homo sapiens cDNA: FLJ23148 fis, clone LNG09313, highly similar to AB018001 Homo sapiens mRNA for Death-associated protein kinase 2	Cytoplasm	kinase	NM_001243563	Sus scrofa death-associated protein kinase 2 (DAPK2), mRNA >gij 288779034 dbj AK348859.1 Sus scrofa mRNA, clone:PBL010045D02, expressed in peripheral blood mononuclear cells
six	205329	CSN1S1	XM_006714091	PREDICTED: Homo sapiens casein alpha s1 (CSN1S1), transcript variant X3, mRNA	Extracellular Space	other	NM_001004029	Sus scrofa casein alpha s1 (CSN1S1), mRNA

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six	205333	PPDPF	NM_024299	Homo sapiens pancreatic progenitor cell differentiation and proliferation factor (PPDPF), mRNA >gi 33876824 gb BC002531.2 Homo sapiens chromosome 20 open reading frame 149, mRNA (cDNA clone MGC:2479 IMAGE:3140372), complete cds	Other	other	AK343442	Sus scrofa mRNA, clone:ADR010067F09, expressed in adrenal gland
six	205349	REEP4	BC050622	Homo sapiens receptor accessory protein 4, mRNA (cDNA clone MGC:60090 IMAGE:6504298), complete cds	Cytoplasm	other	AK394405	Sus scrofa mRNA, clone: MLN010020F10, expressed in mesenteric lymph node
six	205350	IL15	NR_037840	Homo sapiens interleukin 15 (IL15), transcript variant 1, long non-coding RNA	Extracellular Space	cytokine	XM_005666854	PREDICTED: Sus scrofa interleukin 15 (IL15), transcript variant X4, mRNA
six	205357	ABC24-253H14	AC242621	Homo sapiens FOSMID clone ABC24-253H14 from chromosome 6, complete sequence			XR_304404	PREDICTED: Sus scrofa uncharacterized LOC102166906 (LOC102166906), misc_RNA
six	205369	PRPS1	NM_001204402	Homo sapiens phosphoribosyl pyrophosphate synthetase 1 (PRPS1), transcript variant 2, mRNA	Cytoplasm	kinase	XM_005657905	PREDICTED: Sus scrofa phosphoribosyl pyrophosphate synthetase 1 (PRPS1), transcript variant X4, mRNA
six	205375	DCP1A	NM_001290207	Homo sapiens decapping mRNA 1A (DCP1A), transcript variant 5, mRNA	Nucleus	other	AK235670	Sus scrofa mRNA, clone:OVRM10102H08, expressed in ovary
six	205378	ABC12-467468	AC236881	Homo sapiens FOSMID clone ABC12-46746800L18 from chromosome unknown, complete sequence			XM_005664892	PREDICTED: Sus scrofa zinc finger protein 420-like (LOC100623035), mRNA
six	205396	NAA35	XM_005252128	PREDICTED: Homo sapiens N(alpha)-acetyltransferase 35, NatC auxiliary subunit (NAA35), transcript variant X4, mRNA	Cytoplasm	other	XM_005656804	PREDICTED: Sus scrofa N(alpha)-acetyltransferase 35, NatC auxiliary subunit (NAA35), mRNA
six	205445	SMC6	AK124545	Homo sapiens cDNA FLJ42554 fis, clone BRACE3005430	Nucleus	other	XM_003125342	PREDICTED: Sus scrofa structural maintenance of chromosomes 6 (SMC6), mRNA
six	205460	MGC:57544	BC051787	Homo sapiens NLR family, pyrin domain containing 1, mRNA (cDNA clone MGC:57544 IMAGE:5756099), complete cds			CU462993	Pig DNA sequence from clone CH242-406N9 on chromosome X, complete sequence
six	205526	PRSS2	DQ894223	Synthetic construct Homo sapiens clone IMAGE:100008683; FLH168781.01L; RZPDo839D0293D protease, serine, 2 (trypsin 2) (PRSS2) gene, encodes complete protein	Extracellular Space	peptidase	NM_001162891	Sus scrofa trypsinogen (LOC100302368), mRNA >gi 238866765 gb FJ969506.1 Sus scrofa trypsinogen precursor, mRNA, complete cds

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six	205579	RPL35A	XM_005269350	PREDICTED: Homo sapiens ribosomal protein L35a (RPL35A), transcript variant X1, mRNA	Cytoplasm	other	XM_005670140	PREDICTED: Sus scrofa ribosomal protein L35a (RPL35A), transcript variant X2, mRNA
six	205609	GPR61	NM_031936	Homo sapiens G protein-coupled receptor 61 (GPR61), mRNA	Plasma Membrane	G-protein coupled receptor	XM_005663588	PREDICTED: Sus scrofa G protein-coupled receptor 61 (GPR61), mRNA
six	205625	MARCKS	FO393415	Human DNA sequence from clone RP11-544L8 on chromosome 6, complete sequence			XM_003121373	PREDICTED: Sus scrofa myristoylated alanine-rich protein kinase C substrate (MARCKS), mRNA
six	205705		CU675606	Synthetic construct Homo sapiens gateway clone IMAGE:100016758 3' read RPS4X mRNA			AK394418	Sus scrofa mRNA, clone: MLN010025H08, expressed in mesenteric lymph node
six	205753	DAP	NG_011546	Homo sapiens death-associated protein (DAP), RefSeqGene on chromosome 5	Cytoplasm	transcription regulator	AK346324	Sus scrofa mRNA, clone:LVRM10141E03, expressed in liver
six	205780		BX323046	Human DNA sequence from clone RP11-11N7 on chromosome 1, complete sequence			FN673796	Sus scrofa BAC clone KNP_1286D8
six	205790	RPS8	BC070875	Homo sapiens ribosomal protein S8, mRNA (cDNA clone MGC:90249 IMAGE:6527505), complete cds	Cytoplasm	other	XM_003128060	PREDICTED: Sus scrofa ribosomal protein S8 (RPS8), mRNA
six	205885		FM206294	Cloning vector pchilGHG1			AF067053	Sus scrofa microsatellite Li2 sequence
six	205968	RPL9	XM_005262661	PREDICTED: Homo sapiens ribosomal protein L9 (RPL9), transcript variant X1, mRNA	Cytoplasm	other	AK399822	Sus scrofa mRNA, clone: HTMT10003A09, expressed in hypothalamus
six	205971		AC241892	Homo sapiens FOSMID clone ABC14-1187322I23 from chromosome 11, complete sequence			AK393443	Sus scrofa mRNA, clone: KDN010056G04, expressed in kidney
six	205986	SH3BGRL2	NM_031469	Homo sapiens SH3 domain binding glutamate-rich protein like 2 (SH3BGRL2), mRNA	Nucleus	other	CU855649	Pig DNA sequence from clone CH242-282C12 on chromosome 2, complete sequence
six	205988	POGLUT1	AY358581	Homo sapiens clone DNA57699 MDS010 (UNQ490) mRNA, complete cds	Extracellular Space	enzyme	XM_005670195	PREDICTED: Sus scrofa protein O-glucosyltransferase 1 (POGLUT1), mRNA
six	206002		FM206294	Cloning vector pchilGHG1			EF397601	Sus scrofa trophoblast-derived noncoding RNA, complete sequence
six	206009	DACH1	NG_011849	Homo sapiens dachshund family transcription factor 1 (DACH1), RefSeqGene on chromosome 13			AY609705	Sus scrofa clone Clu_26808.scr.msk.p1.Contig1, mRNA sequence
six	206011	TERF1	NG_029121	Homo sapiens telomeric repeat binding factor (NIMA-interacting) 1 (TERF1), RefSeqGene on chromosome 8	Nucleus	other	XM_003355042	PREDICTED: Sus scrofa telomeric repeat binding factor (NIMA-interacting) 1 (TERF1), transcript variant X2, mRNA

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six	206039	TMEM246	XM_005252276	PREDICTED: Homo sapiens transmembrane protein 246 (TMEM246), transcript variant X2, mRNA	Other	other	CU606897	Pig DNA sequence from clone CH242-238J16 on chromosome X, complete sequence
six	206125	RPL17P7	NG_010702	Homo sapiens ribosomal protein L17 pseudogene 7 (RPL17P7) on chromosome 1			AK394499	Sus scrofa mRNA, clone: MLN010065E12, expressed in mesenteric lymph node
six	206176	RPL27A	NM_000990	Homo sapiens ribosomal protein L27a (RPL27A), mRNA	Nucleus	other	AK398167	Sus scrofa mRNA, clone: TES010023F02, expressed in testis
six	206182	RPL5	AK314720	Homo sapiens cDNA, FLJ95579, Homo sapiens ribosomal protein L5 (RPL5), mRNA	Cytoplasm	other	NM_001114284	Sus scrofa ribosomal protein L5 (RPL5), mRNA
six	206220	RPL7	XM_006716463	PREDICTED: Homo sapiens ribosomal protein L7 (RPL7), transcript variant X1, mRNA	Nucleus	transcription regulator	AK343823	Sus scrofa mRNA, clone:AMP010057B09, expressed in alveolar macrophages
six	206229		AC092662	Homo sapiens BAC clone RP11-510H11 from 2, complete sequence			KF569218	Sus scrofa breed DLY mitochondrion, complete genome
six	206252	LUM	NM_002345	Homo sapiens lumican (LUM), mRNA	Extracellular Space	other	NM_001243339	Sus scrofa lumican (LUM), mRNA
six	206301	THSD7B	XM_005263802	PREDICTED: Homo sapiens thrombospondin, type I, domain containing 7B (THSD7B), transcript variant X1, mRNA	Other	other	XM_003359425	PREDICTED: Sus scrofa thrombospondin, type I, domain containing 7B (THSD7B), mRNA
six	206358	CX3CR1	NG_016362	Homo sapiens chemokine (C-X3-C motif) receptor 1 (CX3CR1), RefSeqGene on chromosome 3	Plasma Membrane	G-protein coupled receptor	AK236785	Sus scrofa mRNA, clone:PBL010004E06, expressed in peripheral blood mononuclear cell
six	206372	RPL23AP42	NG_010965	Homo sapiens ribosomal protein L23a pseudogene 42 (RPL23AP42) on chromosome 3			AK394557	Sus scrofa mRNA, clone: MLN010092E01, expressed in mesenteric lymph node
six	206442	GS1-146J4	AC006364	Homo sapiens BAC clone GS1-146J4 from 7, complete sequence			CU463126	Pig DNA sequence from clone CH242-460K5 on chromosome 18, complete sequence
six	206479	LAMB1	AB384752	Synthetic construct DNA, clone: pF1KB3109, Homo sapiens LAMB1 gene for laminin subunit beta-1 precursor, complete cds, without stop codon, in Flexi system			XM_005673863	PREDICTED: Sus scrofa ribosomal protein L39 (RPL39), mRNA
six	206508	RPL23AP18	NG_006077	Homo sapiens ribosomal protein L23a pseudogene 18 (RPL23AP18) on chromosome 1			XM_003361281	PREDICTED: Sus scrofa 60S ribosomal protein L23a-like (LOC100623805), mRNA
six	206509	PRELID1	NG_005180	Homo sapiens PRELI domain containing 1 pseudogene (LOC388734) on chromosome 1			XM_005661450	PREDICTED: Sus scrofa PRELI domain containing 1 (PRELID1), transcript variant X1, mRNA
six	206552	RPL5	AK314720	Homo sapiens cDNA, FLJ95579, Homo sapiens ribosomal protein L5 (RPL5), mRNA	Cytoplasm	other	AK393844	Sus scrofa mRNA, clone: LNG010045C12, expressed in lung

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six	206556		CU680337	Synthetic construct Homo sapiens gateway clone IMAGE:100017948 3' read UBD mRNA			AK345111	Sus scrofa mRNA, clone:ITT010061D05, expressed in small intestine
six	206566	U163C11	U72787	Homo sapiens cosmid clone U163C11 from Xp22.1-22.2, complete sequence			AK230663	Sus scrofa mRNA, clone:AMP010022C06, expressed in alveolar macrophage
six	206678	ZNF350	AF309561	Homo sapiens KRAB zinc finger protein ZFQR mRNA, complete cds	Nucleus	transcription regulator	XM_005653304	PREDICTED: Sus scrofa zinc finger protein 613-like (LOC100625694), transcript variant X4, mRNA
six	206681	DIS3	XM_006719778	PREDICTED: Homo sapiens DIS3 mitotic control homolog (S. cerevisiae) (DIS3), transcript variant X2, mRNA	Nucleus	enzyme	XM_003131019	PREDICTED: Sus scrofa DIS3 mitotic control homolog (S. cerevisiae) (DIS3), mRNA
six	206687	TATDN1	XR_428386	PREDICTED: Homo sapiens TatD DNase domain containing 1 (TATDN1), transcript variant X8, misc_RNA	Extracellular Space	other	XM_005662864	PREDICTED: Sus scrofa putative deoxyribonuclease TATDN1-like (LOC100156175), mRNA
six	206798	NOTCH2	XM_005270902	PREDICTED: Homo sapiens notch 2 (NOTCH2), transcript variant X2, mRNA	Plasma Membrane	transcription regulator	XR_297106	PREDICTED: Sus scrofa uncharacterized LOC102160139 (LOC102160139), transcript variant X3, misc_RNA
six	206805		FM206294	Cloning vector pchilGHG1			AK345768	Sus scrofa mRNA, clone:LNG010103D01, expressed in lung
six	206845	SIN3A	XM_006720467	PREDICTED: Homo sapiens SIN3 transcription regulator family member A (SIN3A), transcript variant X3, mRNA	Nucleus	transcription regulator	XM_003482238	PREDICTED: Sus scrofa SIN3 transcription regulator family member A (SIN3A), transcript variant 2, mRNA
six	206914	RPS4X	NM_001007	Homo sapiens ribosomal protein S4, X-linked (RPS4X), mRNA	Cytoplasm	other	AK394418	Sus scrofa mRNA, clone:MLN010025H08, expressed in mesenteric lymph node
six	206918	RP11-353D4	AC099540	Homo sapiens chromosome 3 clone RP11-353D4, complete sequence			CU463320	Pig DNA sequence from clone CH242-207P9 on chromosome X, complete sequence
six	207003	C5orf42	XM_006714491	PREDICTED: Homo sapiens chromosome 5 open reading frame 42 (C5orf42), transcript variant X13, mRNA	Other	other	XM_005672422	PREDICTED: Sus scrofa chromosome 16 open reading frame, human C5orf42 (C16H5orf42), transcript variant X3, mRNA
six	207005	CLDN19	NM_148960	Homo sapiens claudin 19 (CLDN19), transcript variant 1, mRNA	Plasma Membrane	other	NM_001160084	Sus scrofa claudin 19 (CLDN19), mRNA >gi 227121260 gb FJ875104.1 Sus scrofa claudin 19 (CLDN19) mRNA, complete cds
six	207041	B3GAT3	NR_109991	Homo sapiens beta-1,3-glucuronyltransferase 3 (glucuronosyltransferase I) (B3GAT3), transcript variant 5, long non-coding RNA	Cytoplasm	enzyme	AK233894	Sus scrofa mRNA, clone:MLN010061H08, expressed in mesenteric lymph node
six	207063		AC093762	Homo sapiens BAC clone RP11-90L9 from 2, complete sequence			AK393126	Sus scrofa mRNA, clone:KDN010007A02, expressed in kidney

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six	207080		AB464171	Synthetic construct DNA, clone: pF1KB8219, Homo sapiens RPLP0 gene for ribosomal protein, large, P0, without stop codon, in Flexi system			AK398383	Sus scrofa mRNA, clone: THY010041C07, expressed in thymus
six	207090	KIF4A	NG_016799	Homo sapiens kinesin family member 4A (KIF4A), RefSeqGene on chromosome X			XR_299738	PREDICTED: Sus scrofa uncharacterized LOC100624113 (LOC100624113), transcript variant X2, misc_RNA
six	207113	CPHL1P	NG_022938	Homo sapiens ceruloplasmin and hephaestin-like 1 pseudogene (CPHL1P) on chromosome 3			NM_001244603	Sus scrofa ceruloplasmin (ferroxidase)-like (LOC100158001), mRNA
six	207169	COL1A1	AF017178	Homo sapiens pro alpha 1(I) collagen (COL1A1) gene, complete cds	Extracellular Space	other	AK349864	Sus scrofa mRNA, clone:SKNB10074D10, expressed in skin
six	207173		AC243671	Homo sapiens FOSMID clone ABC21-352C23 from chromosome 1, complete sequence			AK396324	Sus scrofa mRNA, clone: PST010010C04, expressed in prostate
six	207175	AQPEP	XM_006714571	PREDICTED: Homo sapiens laeverin (AQPEP), transcript variant X2, mRNA	Other	peptidase	XM_003123852	PREDICTED: Sus scrofa aminopeptidase Q-like (LOC100521657), mRNA
six	207212	SNTB1	AK026095	Homo sapiens cDNA: FLJ22442 fis, clone HRC09342, highly similar to AF028828 Homo sapiens Tax interaction protein 43 mRNA	Plasma Membrane	other	XM_005662885	PREDICTED: Sus scrofa syntrophin, beta 1 (dystrophin-associated protein A1, 59kDa, basic component 1) (SNTB1), mRNA
six	207220	EBF1	NM_001290360	Homo sapiens early B-cell factor 1 (EBF1), transcript variant 1, mRNA	Nucleus	transcription regulator	XM_005672582	PREDICTED: Sus scrofa early B-cell factor 1 (EBF1), transcript variant X8, mRNA
six	207221	RPL9P8	NG_002468	Homo sapiens ribosomal protein L9 pseudogene 8 (RPL9P8) on chromosome 15			XM_003360372	PREDICTED: Sus scrofa 60S ribosomal protein L9-like (LOC100624650), mRNA
six	207236	PPID	NM_005038	Homo sapiens peptidylprolyl isomerase D (PPID), mRNA	Cytoplasm	enzyme	NM_001244386	Sus scrofa peptidylprolyl isomerase D (PPID), mRNA >gi 52351225 gb AY609657.1 Sus scrofa clone Clu_23904.scr.msk.p1.Contig1, mRNA sequence
six	207256	TPT1	NM_003295	Homo sapiens tumor protein, translationally-controlled 1 (TPT1), transcript variant 2, mRNA	Cytoplasm	other	AK397982	Sus scrofa mRNA, clone: TCH010051G09, expressed in trachea
six	207285	ZNRF3	XM_006724333	PREDICTED: Homo sapiens zinc and ring finger 3 (ZNRF3), transcript variant X3, mRNA	Plasma Membrane	enzyme	DQ020487	Sus scrofa clone BAC KNP_375G9, complete sequence
six	207331		AC026122	Homo sapiens 12 BAC RP11-902D13 (Roswell Park Cancer Institute Human BAC Library) complete sequence			AK396500	Sus scrofa mRNA, clone: PST010040H06, expressed in prostate

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six	207340		AL118522	Human DNA sequence from clone RP4-781B1 on chromosome 20, complete sequence			AK400180	Sus scrofa mRNA, clone: BFLT10068A05, expressed in brain (frontal lobe)
six	207355		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			XM_003129079	PREDICTED: Sus scrofa mitochondrial inner membrane protein COX18-like (LOC100520317), transcript variant X1, mRNA
six	207368	GLULP2	NG_009859	Homo sapiens glutamate-ammonia ligase (glutamine synthetase) pseudogene 2 (GLULP2) on chromosome 11			AK397634	Sus scrofa mRNA, clone: SPL010004H05, expressed in spleen
six	207370	RSPRY1	XM_006721324	PREDICTED: Homo sapiens ring finger and SPRY domain containing 1 (RSPRY1), transcript variant X6, mRNA	Other	other	XM_003126970	PREDICTED: Sus scrofa ring finger and SPRY domain containing 1 (RSPRY1), mRNA
six	207432	LCOR	XM_006718034	PREDICTED: Homo sapiens ligand dependent nuclear receptor corepressor (LCOR), transcript variant X2, mRNA	Nucleus	transcription regulator	XM_003123803	PREDICTED: Sus scrofa chromodomain helicase DNA binding protein 1 (CHD1), mRNA
six	207482	MED28	BC011936	Homo sapiens mediator complex subunit 28, mRNA (cDNA clone MGC:20562 IMAGE:3936713), complete cds	Nucleus	other	AK234158	Sus scrofa mRNA, clone:OVR010013H11, expressed in ovary
six	207564		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AK346048	Sus scrofa mRNA, clone:LVRM10021H04, expressed in liver
six	207613	AGBL4	AL391844	Human DNA sequence from clone RP11-342A17 on chromosome 1, complete sequence	Cytoplasm	peptidase	CU861973	Pig DNA sequence from clone CH242-28P8 on chromosome X, complete sequence
six	207646	NLGN1	AC092923	Homo sapiens 3 BAC RP11-145K15 (Roswell Park Cancer Institute Human BAC Library) complete sequence	Plasma Membrane	enzyme	CU856402	Pig DNA sequence from clone CH242-196M5 on chromosome X, complete sequence
six	207669	ST8SIA1	NM_003034	Homo sapiens ST8 alpha-N-acetylneuraminide alpha-2,8-sialyltransferase 1 (ST8SIA1), mRNA	Cytoplasm	enzyme	CT737287	Pig DNA sequence from clone CH242-126G6 on chromosome 14, complete sequence
six	207713	TLL1	NG_016278	Homo sapiens tolloid-like 1 (TLL1), RefSeqGene on chromosome 4	Extracellular Space	peptidase	XR_115737	PREDICTED: Sus scrofa uncharacterized LOC100513133 (LOC100513133), misc_RNA
six	207724	RTN4	BC007109	Homo sapiens reticulon 4, mRNA (cDNA clone IMAGE:4291127), complete cds	Cytoplasm	other	AK394701	Sus scrofa mRNA, clone: MLTL10071A04, expressed in longissimus muscle
six	207725	PDE4C	NG_029629	Homo sapiens phosphodiesterase 4C, cAMP-specific (PDE4C), RefSeqGene on chromosome 19	Cytoplasm	enzyme	XM_003480754	PREDICTED: Sus scrofa phosphodiesterase 4C (LOC100037970), partial mRNA

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six	207781	HNRNPA1	BC075845	Homo sapiens heterogeneous nuclear ribonucleoprotein A1, mRNA (cDNA clone IMAGE:4903024), **** WARNING: chimeric clone ****			XM_005663855	PREDICTED: Sus scrofa heterogeneous nuclear ribonucleoprotein A1 (HNRNPA1), transcript variant X2, mRNA
six	207799	DCTD	XM_006714116	PREDICTED: Homo sapiens dCMP deaminase (DCTD), transcript variant X9, mRNA	Cytoplasm	enzyme	XM_005671681	PREDICTED: Sus scrofa dCMP deaminase (DCTD), transcript variant X5, mRNA
six	207815	HERPUD2	XM_006715765	PREDICTED: Homo sapiens HERPUD family member 2 (HERPUD2), transcript variant X1, mRNA	Other	other	XM_005657777	PREDICTED: Sus scrofa HERPUD family member 2 (HERPUD2), mRNA
six	207817	PCDH17	XM_005266358	PREDICTED: Homo sapiens protocadherin 17 (PCDH17), transcript variant X2, mRNA	Other	other	XM_003482904	PREDICTED: Sus scrofa protocadherin-17-like (LOC100737785), partial mRNA
six	207820	CNKSR2	XM_005274469	PREDICTED: Homo sapiens connector enhancer of kinase suppressor of Ras 2 (CNKSR2), transcript variant X2, mRNA	Plasma Membrane	other	FP340296	Pig DNA sequence from clone CH242-40311 on chromosome X, complete sequence
six	207833	HOOK3	NM_032410	Homo sapiens hook microtubule-tethering protein 3 (HOOK3), mRNA	Cytoplasm	other	XM_005658883	PREDICTED: Sus scrofa protein Hook homolog 3-like (LOC102162689), mRNA
six	207874	RPL26	XM_005256750	PREDICTED: Homo sapiens ribosomal protein L26 (RPL26), transcript variant X2, mRNA	Cytoplasm	other	AK392102	Sus scrofa mRNA, clone: HTMT10049H09, expressed in hypothalamus
six	207930	RP11-320M2	AC007249	Homo sapiens BAC clone RP11-320M2 from 2, complete sequence			AK351798	Sus scrofa mRNA, clone:THY010088G10, expressed in thymus
six	207932	TSC22D3	XM_006724629	PREDICTED: Homo sapiens TSC22 domain family, member 3 (TSC22D3), transcript variant X7, mRNA	Nucleus	transcription regulator	XM_003135300	PREDICTED: Sus scrofa TSC22 domain family, member 3 (TSC22D3), transcript variant X3, mRNA
six	207988	RPL23AP42	NG_010965	Homo sapiens ribosomal protein L23a pseudogene 42 (RPL23AP42) on chromosome 3			XM_003361281	PREDICTED: Sus scrofa 60S ribosomal protein L23a-like (LOC100623805), mRNA
six	208032	LOC100289371	NG_027708	Homo sapiens mitochondrially encoded cytochrome c oxidase III pseudogene (LOC100289371) on chromosome 5			KF569218	Sus scrofa breed DLY mitochondrion, complete genome
six	208035	UIMC1	XM_006714871	PREDICTED: Homo sapiens ubiquitin interaction motif containing 1 (UIMC1), transcript variant X8, mRNA	Nucleus	other	NM_001097447	Sus scrofa retinoid x receptor interacting protein (RAP80), mRNA >gij118596066 dbj AB248750.1 Sus scrofa RAP80 mRNA for retinoid x receptor interacting protein, complete cds
six	208061	RP11-432A10	AC025477	Homo sapiens chromosome 5 clone RP11-432A10, complete sequence			XM_003121195	PREDICTED: Sus scrofa uncharacterized LOC100518881 (LOC100518881), mRNA

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six	208093	PAPSS2	NM_004670	Homo sapiens 3'-phosphoadenosine 5'-phosphosulfate synthase 2 (PAPSS2), transcript variant 1, mRNA	Cytoplasm	enzyme	XM_005671275	PREDICTED: Sus scrofa 3'-phosphoadenosine 5'-phosphosulfate synthase 2 (PAPSS2), mRNA
six	208102	SLC10A4	NM_152679	Homo sapiens solute carrier family 10, member 4 (SLC10A4), mRNA	Plasma Membrane	transporter	XM_003128967	PREDICTED: Sus scrofa solute carrier family 10, member 4 (SLC10A4), mRNA
six	208113		HG504732	TPA: Homo sapiens RP11-386G11.10 gene for long non-coding RNA OTTHUMT00000409016.1, antisense			AK398498	Sus scrofa mRNA, clone: THY010115A08, expressed in thymus
six	208141	SERPINB2	NM_001143818	Homo sapiens serpin peptidase inhibitor, clade B (ovalbumin), member 2 (SERPINB2), transcript variant 1, mRNA	Extracellular Space	other	XM_003121697	PREDICTED: Sus scrofa serpin peptidase inhibitor, clade B (ovalbumin), member 2 (SERPINB2), mRNA
six	208204	E2F5	AB209185	Homo sapiens mRNA for Transcription factor E2F5 variant protein	Nucleus	transcription regulator	XM_005662996	PREDICTED: Sus scrofa E2F transcription factor 5, p130-binding (E2F5), transcript variant X2, mRNA
six	208215	RPL23AP42	NG_010965	Homo sapiens ribosomal protein L23a pseudogene 42 (RPL23AP42) on chromosome 3			XM_003361281	PREDICTED: Sus scrofa 60S ribosomal protein L23a-like (LOC100623805), mRNA
six	208230	HSPA9P1	NG_002380	Homo sapiens heat shock 70kDa protein 9 pseudogene 1 (HSPA9P1) on chromosome 2			XM_005661695	PREDICTED: Sus scrofa heat shock 70kDa protein 9 (mortalin) (HSPA9), mRNA
six	208231	RPL5	AK314720	Homo sapiens cDNA, FLJ95579, Homo sapiens ribosomal protein L5 (RPL5), mRNA	Cytoplasm	other	AK350182	Sus scrofa mRNA, clone:SPL010006H02, expressed in spleen
six	208236		BC042023	Homo sapiens cDNA clone IMAGE:5312516			FN674876	Sus scrofa contig sequence, clone KNP_1814F9_Contig10
six	208258	LOC100506248	XM_005275719	PREDICTED: Homo sapiens prothymosin alpha-like (LOC100506248), mRNA >gi 578845255 ref XM_005276418.2 PREDICTED: Homo sapiens prothymosin alpha-like (LOC100506248), mRNA	Other	other	AK398489	Sus scrofa mRNA, clone: THY010105B02, expressed in thymus
six	208259	C1R	AK024951	Homo sapiens cDNA: FLJ21298 fis, clone COL02040, highly similar to HSC1R Human mRNA for complement component C1r	Extracellular Space	peptidase	AK232816	Sus scrofa mRNA, clone:LVRM10031F03, expressed in liver
six	208260	EEF1A1	AK304214	Homo sapiens cDNA FLJ54032 complete cds, highly similar to Elongation factor 1-alpha 1	Cytoplasm	translation regulator	XM_005654402	PREDICTED: Sus scrofa eukaryotic translation elongation factor 1 alpha 1 (EEF1A1), transcript variant X2, mRNA
six	208266	NSA2	NM_014886	Homo sapiens NSA2 ribosome biogenesis homolog (S. cerevisiae) (NSA2), transcript variant 1, mRNA	Nucleus	other	XM_003123703	PREDICTED: Sus scrofa NSA2 ribosome biogenesis homolog (S. cerevisiae) (NSA2), mRNA

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six	208268	RPL13AP25	NG_012730	Homo sapiens ribosomal protein L13a pseudogene 25 (RPL13AP25) on chromosome 13			AK398989	Sus scrofa mRNA, clone: MLN010063E08, expressed in mesenteric lymph node
six	208273		AC006101	citb_338_f_24, complete sequence			AK394418	Sus scrofa mRNA, clone: MLN010025H08, expressed in mesenteric lymph node
six	208292	BLZF1	AK291725	Homo sapiens cDNA FLJ75726 complete cds, highly similar to Homo sapiens basic leucine zipper nuclear factor 1 (JEM-1) (BLZF1), mRNA	Cytoplasm	transcription regulator	XM_005663118	PREDICTED: Sus scrofa basic leucine zipper nuclear factor 1 (BLZF1), transcript variant X5, mRNA
six	208298		AL138787	Human DNA sequence from clone RP4-665N4 on chromosome 1p34.1-35.3, complete sequence			FP245528	Pig DNA sequence from clone CH242-150K19 on chromosome X, complete sequence
six	208303	KIF26B	NM_018012	Homo sapiens kinesin family member 26B (KIF26B), mRNA	Other	other	XM_005667966	PREDICTED: Sus scrofa kinesin family member 26B (KIF26B), mRNA
six	208312	RPL12P4	NG_000962	Homo sapiens ribosomal protein L12 pseudogene 4 (RPL12P4) on chromosome 20			XM_005660442	PREDICTED: Sus scrofa ribosomal protein L12 (RPL12), mRNA
six	208335	ARID3A	XM_005259515	PREDICTED: Homo sapiens AT rich interactive domain 3A (BRIGHT-like) (ARID3A), transcript variant X4, mRNA	Nucleus	transcription regulator	XM_003353956	PREDICTED: Sus scrofa AT rich interactive domain 3A (BRIGHT-like) (ARID3A), transcript variant X1, mRNA
six	208339	ZFY	XM_006724873	PREDICTED: Homo sapiens zinc finger protein, Y-linked (ZFY), transcript variant X3, mRNA	Other	other	XR_131258	PREDICTED: Sus scrofa zinc finger X-chromosomal protein-like (LOC100624329), misc_RNA
six	208357	NDUFA9	NG_032124	Homo sapiens NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 9, 39kDa (NDUFA9), RefSeqGene on chromosome 12	Cytoplasm	enzyme	FQ073831	Pig DNA sequence from clone CH242-131H11 on chromosome X, complete sequence
six	208376	HNRNPA1P12	NG_021856	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 pseudogene 12 (HNRNPA1P12) on chromosome 5			XM_005663855	PREDICTED: Sus scrofa heterogeneous nuclear ribonucleoprotein A1 (HNRNPA1), transcript variant X2, mRNA
six	208428	SHISA2	AL139004	Human DNA sequence from clone RP11-398O19 on chromosome 13, complete sequence			XM_003482858	PREDICTED: Sus scrofa shisa family member 2 (SHISA2), mRNA
six	208437	SETD4	XM_005261001	PREDICTED: Homo sapiens SET domain containing 4 (SETD4), transcript variant X3, mRNA	Other	other	XM_003358943	PREDICTED: Sus scrofa SET domain containing 4 (SETD4), transcript variant X1, mRNA
six	208444	ATG12	NR_073603	Homo sapiens autophagy related 12 (ATG12), transcript variant 4, long non-coding RNA	Cytoplasm	other	FQ377569	Pig DNA sequence from clone CH242-21J16 on chromosome X, complete sequence
six	208447	C3orf60	JF432596	Synthetic construct Homo sapiens clone IMAGE:100073833 chromosome 3 open reading frame 60 (C3orf60) gene, encodes complete protein			NM_001243606	Sus scrofa NADH dehydrogenase (ubiquinone) complex I, assembly factor 3 (NDUFAF3), mRNA

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six	208448	LOC100506804	NR_040081	Homo sapiens uncharacterized LOC100506804 (RP1-234P15.4), long non-coding RNA	Other	other	CU582856	Pig DNA sequence from clone CH242-324O16 on chromosome X, complete sequence
six	208453	METTL4	XM_005258133	PREDICTED: Homo sapiens methyltransferase like 4 (METTL4), transcript variant X3, mRNA	Other	other	CT797459	Pig DNA sequence from clone CH242-214A4 on chromosome 7, complete sequence
six	208463	GYG1	NM_001184720	Homo sapiens glycogenin 1 (GYG1), transcript variant 2, mRNA	Cytoplasm	enzyme	AK236587	Sus scrofa mRNA, clone:OVRM10206D03, expressed in ovary
six	208519	FOXP1	XR_427266	PREDICTED: Homo sapiens forkhead box P1 (FOXP1), transcript variant X21, misc_RNA	Nucleus	other	XM_005669723	PREDICTED: Sus scrofa forkhead box P1 (FOXP1), transcript variant X2, mRNA
six	208537		FM206294	Cloning vector pchilGHG1			CU928918	Pig DNA sequence from clone CH242-269O9 on chromosome X, complete sequence
six	208633	TMEM151B	NM_001137560	Homo sapiens transmembrane protein 151B (TMEM151B), mRNA	Other	other	XM_005666069	PREDICTED: Sus scrofa t-complex-associated-testis-expressed 1 (TCTE1), transcript variant X2, mRNA
six	208719	RPL14	NM_001034996	Homo sapiens ribosomal protein L14 (RPL14), transcript variant 1, mRNA	Cytoplasm	other	AK400080	Sus scrofa mRNA, clone: HTMT10150E11, expressed in hypothalamus
six	208852	IZUMO1	XM_005258797	PREDICTED: Homo sapiens izumo sperm-egg fusion 1 (IZUMO1), transcript variant X7, mRNA	Cytoplasm	other	XM_003127285	PREDICTED: Sus scrofa izumo sperm-egg fusion protein 1-like (IZUMO1), transcript variant X1, mRNA
six	208880	SEPT6	NG_012565	Homo sapiens septin 6 (SEPT6), RefSeqGene on chromosome X	Cytoplasm	other	XM_005673867	PREDICTED: Sus scrofa septin 6 (SEPT6), transcript variant X4, mRNA
six	208912	SMC2	XM_006716933	PREDICTED: Homo sapiens structural maintenance of chromosomes 2 (SMC2), transcript variant X1, mRNA	Nucleus	transporter	EF129763	Sus scrofa clone KVL336 microsatellite sequence
six	208982	SLCO2A1	FM206294	Cloning vector pchilGHG1			DQ104838	Sus scrofa solute carrier organic anion transporter family member 2A1 (SLCO2A1) gene, exon 6
six	208995	PMFBP1	NM_031293	Homo sapiens polyamine modulated factor 1 binding protein 1 (PMFBP1), transcript variant 1, mRNA	Cytoplasm	other	XM_005664375	PREDICTED: Sus scrofa polyamine modulated factor 1 binding protein 1 (PMFBP1), mRNA
six	209011	CDC16	XM_006719993	PREDICTED: Homo sapiens cell division cycle 16 (CDC16), transcript variant X8, mRNA	Nucleus	other	AK239380	Sus scrofa mRNA, clone:THY010098B12, expressed in thymus
six	209021		CU633979	Human DNA sequence from clone CH507-183B21 on chromosome 21, complete sequence			AY160114	Sus scrofa locus 7p1.1-2 SBAB 484G4 PERV-B partial 3' LTR with flanking genomic region
six	209111	AHRR	NG_029834	Homo sapiens aryl-hydrocarbon receptor repressor (AHRR), RefSeqGene on chromosome 5			XM_003134370	PREDICTED: Sus scrofa SRY (sex determining region Y)-box 12 (SOX12), mRNA

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six	209155	RECQL	XM_006719133	PREDICTED: Homo sapiens RecQ protein-like (DNA helicase Q1-like) (RECQL), transcript variant X5, mRNA	Nucleus	enzyme	XM_005655657	PREDICTED: Sus scrofa RecQ protein-like (DNA helicase Q1-like) (RECQL), transcript variant X1, mRNA
six	209191	SEL1L2	BC035741	Homo sapiens sel-1 suppressor of lin-12-like 2 (C. elegans), mRNA (cDNA clone IMAGE:5742400), with apparent retained intron	Other	other	XM_005672708	PREDICTED: Sus scrofa sel-1 suppressor of lin-12-like 2 (C. elegans) (SEL1L2), mRNA
six	209201	PRKACB	XM_005271018	PREDICTED: Homo sapiens protein kinase, cAMP-dependent, catalytic, beta (PRKACB), transcript variant X4, mRNA	Cytoplasm	kinase	FN674638	Sus scrofa contig sequence, clone KNP_1202D4_Contig25
six	209211		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AK349735	Sus scrofa mRNA, clone:SKNB10038C12, expressed in skin
six	209216	RNF7	AC112771	Homo sapiens 3 BAC RP11-144C9 (Roswell Park Cancer Institute Human BAC Library) complete sequence	Nucleus	enzyme	AK391125	Sus scrofa mRNA, clone: CLNT10071E01, expressed in colon
six	209288	FAM3C	AC117517	Homo sapiens X BAC RP13-356M24 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_003134737	PREDICTED: Sus scrofa family with sequence similarity 3, member C (FAM3C), mRNA
six	209315	RPL23AP42	NG_010965	Homo sapiens ribosomal protein L23a pseudogene 42 (RPL23AP42) on chromosome 3			XM_003361281	PREDICTED: Sus scrofa 60S ribosomal protein L23a-like (LOC100623805), mRNA
six	209329	CCDC71L	NM_175884	Homo sapiens coiled-coil domain containing 71-like (CCDC71L), mRNA	Other	other	NM_001038000	Sus scrofa FKBP1A-like (LOC654323), mRNA >gi 61098746 gb AY820760.1 Sus scrofa FKBP1A-like mRNA, complete cds
six	209362	CTC-303L1	AC025766	Homo sapiens chromosome 5 clone CTC-303L1, complete sequence			XM_003123789	PREDICTED: Sus scrofa ankyrin repeat domain-containing protein 32-like (LOC100521777), mRNA
six	209394	DENND5B	NM_144973	Homo sapiens DENN/MADD domain containing 5B (DENND5B), mRNA	Other	other	KF569218	Sus scrofa breed DLY mitochondrion, complete genome
six	209435	MRPL3	NG_029207	Homo sapiens mitochondrial ribosomal protein L3 (MRPL3), RefSeqGene on chromosome 3			CU695128	Pig DNA sequence from clone CH242-211D14 on chromosome 2, complete sequence
six	209455	FAM161A	BX648834	Homo sapiens mRNA; cDNA DKFZp686O21143 (from clone DKFZp686O21143)	Cytoplasm	other	XM_003125101	PREDICTED: Sus scrofa family with sequence similarity 161, member A (FAM161A), transcript variant X1, mRNA
six	209499	CHCHD1	NM_203298	Homo sapiens coiled-coil-helix-coiled-coil-helix domain containing 1 (CHCHD1), mRNA	Nucleus	other	AK399157	Sus scrofa mRNA, clone: PTG010043E04, expressed in pituitary gland
six	209508	AKR1C1	NM_205845	Homo sapiens aldo-keto reductase family 1, member C2 (AKR1C2), transcript variant 2, mRNA	Cytoplasm	enzyme	AK391133	Sus scrofa mRNA, clone: CLNT10073F02, expressed in colon

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six	209510	TXNIP	NM_006472	Homo sapiens thioredoxin interacting protein (TXNIP), mRNA	Cytoplasm	other	AK389176	Sus scrofa mRNA, clone: ADR010002D04, expressed in adrenal gland
six	209526	CCDC115	XR_427117	PREDICTED: Homo sapiens coiled-coil domain containing 115 (CCDC115), transcript variant X2, misc_RNA	Cytoplasm	other	AK393730	Sus scrofa mRNA, clone: KDN010096F09, expressed in kidney
six	209563	TOP1	BC000943	Homo sapiens, clone IMAGE:3448011, mRNA, partial cds	Nucleus	enzyme	XM_003134441	PREDICTED: Sus scrofa topoisomerase (DNA) I (TOP1), mRNA
six	209590	ORC3	AY623113	Homo sapiens origin recognition complex, subunit 3-like (yeast) (ORC3L) gene, complete cds	Nucleus	other	FP245419	Pig DNA sequence from clone CH242-319E4 on chromosome X, complete sequence
six	209610	GUCY2D	AB527157	Synthetic construct DNA, clone: pF1KB7347, Homo sapiens GUCY2D gene for guanylate cyclase 2D, membrane, without stop codon, in Flexi system			XR_130962	PREDICTED: Sus scrofa retinal guanylyl cyclase 1-like (LOC100525661), misc_RNA
six	209625	ZNF394	XM_005250638	PREDICTED: Homo sapiens zinc finger protein 394 (ZNF394), transcript variant X1, mRNA	Nucleus	transcription regulator	XM_003124321	PREDICTED: Sus scrofa zinc finger protein 394 (ZNF394), mRNA
six	209638	RPL7	XM_006716463	PREDICTED: Homo sapiens ribosomal protein L7 (RPL7), transcript variant X1, mRNA	Nucleus	transcription regulator	AK351256	Sus scrofa mRNA, clone:TES010056C08, expressed in testis
six	209644	GNB2L1	BC014788	Homo sapiens guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1, mRNA (cDNA clone MGC:9338 IMAGE:3455986), complete cds	Cytoplasm	enzyme	XM_005658237	PREDICTED: Sus scrofa guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1 (GNB2L1), transcript variant X1, mRNA
six	209660	GNAS	not available	not available			NR_073434	Sus scrofa GNAS complex locus (GNAS), transcript variant 10, long non-coding RNA
six	209671	DCN	XM_006719270	PREDICTED: Homo sapiens decorin (DCN), transcript variant X2, mRNA	Extracellular Space	other	XM_005664271	PREDICTED: Sus scrofa decorin (DCN), transcript variant X3, mRNA
six	209680	PHF11	XM_006719831	PREDICTED: Homo sapiens PHD finger protein 11 (PHF11), transcript variant X6, mRNA	Other	other	AK239065	Sus scrofa mRNA, clone:THY010060D10, expressed in thymus
six	209693	TBC1D10A	NM_031937	Homo sapiens TBC1 domain family, member 10A (TBC1D10A), transcript variant 2, mRNA	Plasma Membrane	other	XM_005670807	PREDICTED: Sus scrofa TBC1 domain family, member 10A (TBC1D10A), mRNA
six	209696	RP11-145E8	AL162272	Human DNA sequence from clone RP11-145E8 on chromosome 10, complete sequence			AK347256	Sus scrofa mRNA, clone:MLTL10088C09, expressed in longissimus
six	209698	ENO1	XM_006710433	PREDICTED: Homo sapiens enolase 1, (alpha) (ENO1), transcript variant X1, mRNA	Cytoplasm	enzyme	AK395106	Sus scrofa mRNA, clone: OVRM10065F01, expressed in ovary
six	209699	TPT1	AY117678	Homo sapiens p02 protein mRNA, complete cds	Cytoplasm	other	AK397982	Sus scrofa mRNA, clone: TCH010051G09, expressed in trachea

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six	209704		AC074085	Homo sapiens BAC clone RP11-3L10 from 7, complete sequence			AK391860	Sus scrofa mRNA, clone: HTMT10029A03, expressed in hypothalamus
six	209715	VPS37C	XM_005274079	PREDICTED: Homo sapiens vacuolar protein sorting 37 homolog C (S. cerevisiae) (VPS37C), transcript variant X3, mRNA	Cytoplasm	other	XM_003122672	PREDICTED: Sus scrofa vacuolar protein sorting 37 homolog C (S. cerevisiae) (VPS37C), mRNA
six	209716	VTCN1	NM_024626	Homo sapiens V-set domain containing T cell activation inhibitor 1 (VTCN1), transcript variant 1, mRNA	Plasma Membrane	other	XM_005663545	PREDICTED: Sus scrofa V-set domain containing T cell activation inhibitor 1 (VTCN1), mRNA
six	209720	FAM84A	XM_006711861	PREDICTED: Homo sapiens family with sequence similarity 84, member A (FAM84A), transcript variant X1, mRNA	Other	other	XM_003125420	PREDICTED: Sus scrofa protein FAM84A-like (LOC100518964), mRNA
six	209723		AC013437	Homo sapiens BAC clone RP11-190J23 from 2, complete sequence			KF752550	Sus scrofa breed Yorkshire mitochondrion, complete genome
six	209730		AK301393	Homo sapiens cDNA FLJ54562 complete cds, moderately similar to Homo sapiens anti-rabies SO57 immunoglobulin heavy chain (IGHG1), mRNA			AK405781	Sus scrofa IGHG mRNA IgG heavy chain precursor, complete cds, clone: ILNT10055E11
six	209731	FTH1	AB463634	Synthetic construct DNA, clone: pF1KB6891, Homo sapiens FTH1 gene for ferritin, heavy polypeptide 1, without stop codon, in Flexi system			AY610310	Sus scrofa clone rduo419b_l8.y1.abd, mRNA sequence
six	209732	ARL6IP4	NM_018694	Homo sapiens ADP-ribosylation-like factor 6 interacting protein 4 (ARL6IP4), transcript variant 1, mRNA	Nucleus	other	NM_001185160	Sus scrofa ADP-ribosylation-like factor 6 interacting protein 4 (ARL6IP4), transcript variant 1, mRNA
six	209744	EHBP1L1	AL356433	Human DNA sequence from clone RP11-453F1 on chromosome 10, complete sequence	Other	other	XM_005660761	PREDICTED: Sus scrofa EH domain binding protein 1-like 1 (EHBP1L1), mRNA
six	209754	PCNX	XM_006720082	PREDICTED: Homo sapiens pecanex homolog (Drosophila) (PCNX), transcript variant X13, mRNA	Plasma Membrane	other	XM_001925672	PREDICTED: Sus scrofa pecanex homolog (Drosophila) (PCNX), partial mRNA
six	209755	NOV	NG_009779	Homo sapiens nephroblastoma overexpressed (NOV), RefSeqGene on chromosome 8	Extracellular Space	growth factor	XM_001927050	PREDICTED: Sus scrofa nephroblastoma overexpressed (NOV), mRNA
six	209758	CH507-510L4	FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			FP015894	Pig DNA sequence from clone CH242-19K5 on chromosome X, complete sequence
six	209768	GPT2	XR_430574	PREDICTED: Homo sapiens uncharacterized LOC440570 (LOC440570), misc_RNA	Other	other	XM_005664462	PREDICTED: Sus scrofa glutamic pyruvate transaminase (alanine aminotransferase) 2 (GPT2), transcript variant X2, mRNA

cluster	array id	gene symbols	HSA accession	HSA description	location	property	SSC accession	SSC description
six	209773	AKR1CL1	AK131335	Homo sapiens cDNA FLJ16347 fis, clone TESTI2036288, moderately similar to PROSTAGLANDIN-F SYNTHASE 1 (EC 1.1.1.188)	Other	other	AK347824	Sus scrofa mRNA, clone:OVR010104C02, expressed in ovary
six	209780	RP11-65J3	AL353803	Human DNA sequence from clone RP11-65J3 on chromosome 9, complete sequence			EF167476	Sus scrofa clone KVL11384 microsatellite sequence
six	209787	ARHGAP8	HQ258425	Synthetic construct Homo sapiens clone IMAGE:100072854 PRR5-ARHGAP8 readthrough (PRR5-ARHGAP8) (PRR5-ARHGAP8) gene, encodes complete protein	Cytoplasm	other	XM_005663735	PREDICTED: Sus scrofa Rho GTPase activating protein 8 (ARHGAP8), transcript variant X1, mRNA
six	209798	COPG2IT1	NR_024086	Homo sapiens COPG2 imprinted transcript 1 (non-protein coding) (COPG2IT1), long non-coding RNA	Other	other	AK397033	Sus scrofa mRNA, clone: PTG010058E10, expressed in pituitary gland
six	209800	CTSC	NG_007952	Homo sapiens cathepsin C (CTSC), RefSeqGene (LRG_50) on chromosome 11	Cytoplasm	peptidase	AK235026	Sus scrofa mRNA, clone:OVRM10042E03, expressed in ovary
six	209804	KRT18P19	AB528484	Synthetic construct DNA, clone: pF1KB6602, Homo sapiens KRT18P19 gene for Keratin, type I cytoskeletal 18, without stop codon, in Flexi system			XM_005652579	PREDICTED: Sus scrofa keratin 18 (KRT18), partial mRNA
six	209810	BMP2	NG_023233	Homo sapiens bone morphogenetic protein 2 (BMP2), RefSeqGene on chromosome 20	Extracellular Space	growth factor	XM_001928029	PREDICTED: Sus scrofa bone morphogenetic protein 2-like (LOC100152318), mRNA
six	209813	EBF4	XM_006723600	PREDICTED: Homo sapiens early B-cell factor 4 (EBF4), transcript variant X3, mRNA	Nucleus	other	XM_005672792	PREDICTED: Sus scrofa early B-cell factor 4 (EBF4), mRNA
six	209826	GIMAP5	JF432844	Synthetic construct Homo sapiens clone IMAGE:100074165 GTPase, IMAP family member 5 (GIMAP5) gene, encodes complete protein	Cytoplasm	other	AK237116	Sus scrofa mRNA, clone:SPL010001E12, expressed in spleen
six	209833	MLLT6	XM_005257381	PREDICTED: Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 6 (MLLT6), transcript variant X3, mRNA >gi 578840360 ref XM_006725328.1	Nucleus	transcription regulator	AK399364	Sus scrofa mRNA, clone: THY010023D08, expressed in thymus
six	209834	CD6	XM_006718741	PREDICTED: Homo sapiens CD6 molecule (CD6), transcript variant X4, mRNA	Plasma Membrane	transmembrane receptor	XM_005660839	PREDICTED: Sus scrofa CD6 molecule (CD6), transcript variant X7, mRNA

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six	209836		BC070387	Homo sapiens T cell receptor beta variable 3-1, mRNA (cDNA clone IMAGE:30325415)			AK351666	Sus scrofa mRNA, clone:THY010057C09, expressed in thymus
six	209852	DUS1L	XM_006722289	PREDICTED: Homo sapiens dihydrouridine synthase 1-like (S, cerevisiae) (DUS1L), transcript variant X4, mRNA	Other	other	AK349693	Sus scrofa mRNA, clone:SKNB10028G09, expressed in skin
six	209857	GJA5	AL365260	Human DNA sequence from clone RP11-433J22 on chromosome 1 Contains the GJA5 gene for gap junction protein, alpha 5, 40kDa (connexin 40) protein, complete sequence	Plasma Membrane	transporter	AK347092	Sus scrofa mRNA, clone:MLTL10002G08, expressed in longissimus
six	209863	STK24	EU668350	Homo sapiens epididymis secretory protein Li 95 (HEL-S-95) mRNA, complete cds	Cytoplasm	kinase	XR_306312	PREDICTED: Sus scrofa uncharacterized LOC102159989 (LOC102159989), misc_RNA
six	209872	AKR1C1	NM_205845	Homo sapiens aldo-keto reductase family 1, member C2 (AKR1C2), transcript variant 2, mRNA	Cytoplasm	enzyme	AK348430	Sus scrofa mRNA, clone:OVRM10161G03, expressed in ovary
six	209875	KLF12	AL356319	Human DNA sequence from clone RP11-810G21 on chromosome 13, complete sequence	Nucleus	transcription regulator	AK395044	Sus scrofa mRNA, clone:OVRM10018C11, expressed in ovary
six	209883	DHCR24	BC004375	Homo sapiens 24-dehydrocholesterol reductase, mRNA (cDNA clone MGC:10569 IMAGE:3638639), complete cds	Cytoplasm	enzyme	NM_001243354	Sus scrofa 24-dehydrocholesterol reductase (DHCR24), mRNA
six	209887		AC245054	Homo sapiens BAC clone CH17-355P2 from chromosome 22, complete sequence			AK234158	Sus scrofa mRNA, clone:OVR010013H11, expressed in ovary
six	209890		FM206294	Cloning vector pchIHGH1			XM_003360833	PREDICTED: Sus scrofa boIA-like protein 2-like (LOC100621563), partial mRNA
six	209895	FHIT	U85047	Human FRA3B region corresponding to the breakpoint junction in lung tumor cell line NCIH211	Cytoplasm	enzyme	AK399873	Sus scrofa mRNA, clone:HTMT10033B05, expressed in hypothalamus
six	209898	UPK2	NM_006760	Homo sapiens uroplakin 2 (UPK2), mRNA	Plasma Membrane	other	XM_005667407	PREDICTED: Sus scrofa uroplakin 2 (UPK2), transcript variant X1, mRNA
six	209903	RPS28P7	NG_005980	Homo sapiens ribosomal protein S28 pseudogene 7 (RPS28P7) on chromosome 11			AK391755	Sus scrofa mRNA, clone:HTMT10020D07, expressed in hypothalamus
six	209905	RNASEK	BC070349	Homo sapiens ribonuclease, RNase K, mRNA (cDNA clone IMAGE:4069074), with apparent retained intron	Other	peptidase	XM_003358238	PREDICTED: Sus scrofa ribonuclease, RNase K (RNASEK), partial mRNA
six	209912		AC073896	Homo sapiens 12 BAC RP11-977G19 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_005655640	PREDICTED: Sus scrofa SWI/SNF complex subunit SMARCC2-like (LOC100621845), mRNA

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six	209918	TRIM34	NM_021616	Homo sapiens tripartite motif containing 34 (TRIM34), transcript variant 1, mRNA	Cytoplasm	other	AK346338	Sus scrofa mRNA, clone:LVRM10146C03, expressed in liver
six	209922		AC131055	Homo sapiens chromosome 17, clone RP11-846F4, complete sequence			KF971862	Sus scrofa domesticus breed Min mitochondrion, complete genome
six	209935	EIF3L	XM_006724260	PREDICTED: Homo sapiens eukaryotic translation initiation factor 3, subunit L (EIF3L), transcript variant X2, mRNA	Cytoplasm	other	XM_005663784	PREDICTED: Sus scrofa eukaryotic translation initiation factor 3, subunit L (EIF3L), transcript variant X1, mRNA
six	209937	RPCI-11	AL583743	Human chromosome 14 DNA sequence BAC R-236M11 of library RPCI-11 from chromosome 14 of Homo sapiens (Human), complete sequence			KF767443	Sus scrofa breed Wuzhishan mitochondrion, complete genome
six	209944	CATSPER1	AB527999	Synthetic construct DNA, clone: pF1KB5796, Homo sapiens CATSPER1 gene for cation channel, sperm associated protein 1, without stop codon, in Flexi system			NM_001244257	Sus scrofa cation channel, sperm associated 1 (CATSPER1), mRNA >gi 336169708 gb HQ654519.1 Sus scrofa CatSper1 mRNA, complete cds
six	209954	IFI6	NM_022873	Homo sapiens interferon, alpha-inducible protein 6 (IFI6), transcript variant 3, mRNA	Cytoplasm	other	AK392512	Sus scrofa mRNA, clone: HTMT10082A05, expressed in hypothalamus
six	209959	KARS	NM_001130089	Homo sapiens lysyl-tRNA synthetase (KARS), transcript variant 1, mRNA	Cytoplasm	enzyme	AK392919	Sus scrofa mRNA, clone: ITT010039G12, expressed in intestine
six	209960	STRADA	XR_243687	PREDICTED: Homo sapiens STE20-related kinase adaptor alpha (STRADA), transcript variant X9, misc_RNA	Nucleus	kinase	AK234833	Sus scrofa mRNA, clone:OVRM10021B12, expressed in ovary
six	210060	RBP5	NM_031491	Homo sapiens retinol binding protein 5, cellular (RBP5), mRNA	Cytoplasm	transporter	AK232352	Sus scrofa mRNA, clone:LVR010026F04, expressed in liver
six	210062	GSTA2	NM_000846	Homo sapiens glutathione S-transferase alpha 2 (GSTA2), mRNA	Cytoplasm	enzyme	AK351255	Sus scrofa mRNA, clone:TES010055F10, expressed in testis
six	210063	C19orf80	KF809856	Homo sapiens betatrophin (C19orf80) mRNA, partial cds, alternatively spliced	Extracellular Space	other	KF017598	Sus scrofa lipasin mRNA, complete cds
six	210091	LARGE	XM_005261832	PREDICTED: Homo sapiens like-glycosyltransferase (LARGE), transcript variant X2, mRNA	Cytoplasm	enzyme	XM_003126764	PREDICTED: Sus scrofa glycosyltransferase-like protein LARGE1-like (LOC100516442), mRNA
six	210114	APON	AC025574	Homo sapiens 12 BAC RP11-348M3 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_005655592	PREDICTED: Sus scrofa ovarian and testicular apolipoprotein N (APON), transcript variant X2, mRNA
six	210115	MPPE1	XM_006722347	PREDICTED: Homo sapiens metallophosphoesterase 1 (MPPE1), transcript variant X8, mRNA	Cytoplasm	enzyme	AK393061	Sus scrofa mRNA, clone: ITT010082G09, expressed in intestine

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six	210134	NPTXR	NM_014293	Homo sapiens neuronal pentraxin receptor (NPTXR), mRNA	Plasma Membrane	transmembrane receptor	XM_005655484	PREDICTED: Sus scrofa neuronal pentraxin receptor (NPTXR), mRNA
six	210135	DDX20	BC011556	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 20, mRNA (cDNA clone MGC:20004 IMAGE:4651697), complete cds	Nucleus	transcription regulator	XM_001928544	PREDICTED: Sus scrofa DEAD (Asp-Glu-Ala-Asp) box polypeptide 20 (DDX20), mRNA
six	210146		FM206294	Cloning vector pchilGHG1			AK344293	Sus scrofa mRNA, clone:CLNT10046H11, expressed in colon
six	210172	SERPINA3	HQ448280	Synthetic construct Homo sapiens clone IMAGE:100071683; CCSB000391_04 serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 3 (SERPINA3) gene, encodes complete protein	Extracellular Space	other	AK398936	Sus scrofa mRNA, clone: LVR010092D01, expressed in liver
six	210175	RPS2P29	NG_010793	Homo sapiens ribosomal protein S2 pseudogene 29 (RPS2P29) on chromosome 6			AK392242	Sus scrofa mRNA, clone: HTMT10059G10, expressed in hypothalamus
six	210183	OLFML2A	XM_005251759	PREDICTED: Homo sapiens olfactomedin-like 2A (OLFML2A), transcript variant X1, mRNA	Extracellular Space	other	AP009124	Sus scrofa genomic DNA, chromosome 1q, microsatellite markers, BAC clone: 935F3,163C8,635C7,637F11,3H8,710A7
six	210186	PRH2	BC141916	Homo sapiens proline-rich protein HaeIII subfamily 2, mRNA (cDNA clone IMAGE:40113874), partial cds	Extracellular Space	other	AY035848	Sus scrofa clone D2A basic proline-rich protein mRNA, complete cds
six	210197	RPL19	AK311858	Homo sapiens cDNA, FLJ92124, Homo sapiens ribosomal protein L19 (RPL19), mRNA	Cytoplasm	other	XM_003131509	PREDICTED: Sus scrofa ribosomal protein L19 (RPL19), mRNA
six	210207		FM206294	Cloning vector pchilGHG1			AK392242	Sus scrofa mRNA, clone: HTMT10059G10, expressed in hypothalamus
six	210232	RPS10	NM_001014	Homo sapiens ribosomal protein S10 (RPS10), transcript variant 2, mRNA	Cytoplasm	other	XM_005665896	PREDICTED: Sus scrofa ribosomal protein S10 (RPS10), transcript variant X1, mRNA
six	210296	RPL18	NM_000979	Homo sapiens ribosomal protein L18 (RPL18), transcript variant 1, mRNA	Cytoplasm	other	XM_005664692	PREDICTED: Sus scrofa 60S ribosomal protein L18-like (LOC100738912), mRNA
six	210308	WDR73	BC020252	Homo sapiens WD repeat domain 73, mRNA (cDNA clone IMAGE:4858895)	Extracellular Space	other	XM_003361872	PREDICTED: Sus scrofa WD repeat domain 73 (WDR73), partial mRNA
six	210331	CTD-2522F11	AC013416	Homo sapiens BAC clone CTD-2522F11 from 7, complete sequence			AF034646	Sus scrofa domestica whey acidic protein (WAP) mRNA, variant A allele, partial cds

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six	210338	TIMP2	BC071586	Homo sapiens TIMP metallopeptidase inhibitor 2, mRNA (cDNA clone MGC:87301 IMAGE:30337524), complete cds	Extracellular Space	other	AK398233	Sus scrofa mRNA, clone: TES010058C11, expressed in testis
six	210343	RPL18P8	NG_010700	Homo sapiens ribosomal protein L18 pseudogene 8 (RPL18P8) on chromosome 11			XM_005664692	PREDICTED: Sus scrofa 60S ribosomal protein L18-like (LOC100738912), mRNA
six	210375	CERS2	BC001357	Homo sapiens LAG1 homolog, ceramide synthase 2, mRNA (cDNA clone MGC:987 IMAGE:3051086), complete cds	Nucleus	transcription regulator	XM_005663491	PREDICTED: Sus scrofa ceramide synthase 2 (CERS2), transcript variant X4, mRNA
six	210379	NAGS	AK300923	Homo sapiens cDNA FLJ54171 complete cds, highly similar to N-acetylglutamate synthase, mitochondrial precursor (EC 2,3,1,1)	Cytoplasm	enzyme	XM_005668745	PREDICTED: Sus scrofa N-acetylglutamate synthase (NAGS), transcript variant X1, mRNA
six	210386	RPL6P19	NG_010443	Homo sapiens ribosomal protein L6 pseudogene 19 (RPL6P19) on chromosome 7			AK394384	Sus scrofa mRNA, clone: MLN010012B10, expressed in mesenteric lymph node
six	210390		BC150573	Homo sapiens cDNA clone IMAGE:40127853			XM_005670472	PREDICTED: Sus scrofa uncharacterized LOC100152195 (LOC100152195), mRNA
six	210400	GIMAP1	NM_130759	Homo sapiens GTPase, IMAP family member 1 (GIMAP1), mRNA	Cytoplasm	other	AK398830	Sus scrofa mRNA, clone: ITT010025B03, expressed in intestine
six	210401	NID1	XM_006711771	PREDICTED: Homo sapiens nidogen 1 (NID1), transcript variant X1, mRNA	Extracellular Space	other	CU855678	Pig DNA sequence from clone CH242-77L7 on chromosome 2, complete sequence
six	210423	CBR3	EF462915	Homo sapiens carbonyl reductase 3 (CBR3) gene, complete cds	Cytoplasm	enzyme	NM_001244732	Sus scrofa carbonyl reductase 3 (CBR3), mRNA >gi 288786563 dbj AK347045.1 Sus scrofa mRNA, clone:MLN010096F02, expressed in mesenteric lymph nodes
six	210427	GSE1	XM_005255865	PREDICTED: Homo sapiens Gse1 coiled-coil protein (GSE1), transcript variant X7, mRNA	Extracellular Space	other	XM_005664308	PREDICTED: Sus scrofa Gse1 coiled-coil protein homolog (mouse) (KIAA0182), mRNA
six	210428	MXRA5	XM_005274485	PREDICTED: Homo sapiens matrix-remodelling associated 5 (MXRA5), transcript variant X1, mRNA	Extracellular Space	other	XM_003360524	PREDICTED: Sus scrofa matrix-remodelling associated 5 (MXRA5), transcript variant X1, mRNA
six	210446	RP11-441C24	AC073987	Homo sapiens BAC clone RP11-441C24 from 2, complete sequence			AK236109	Sus scrofa mRNA, clone:OVRM10153B06, expressed in ovary
six	210449	RPL7A	AK311743	Homo sapiens cDNA, FLJ92002, Homo sapiens ribosomal protein L7a (RPL7A), mRNA	Cytoplasm	other	AK397679	Sus scrofa mRNA, clone: SPL010037C03, expressed in spleen

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six	210450		LOC100996492 XR_424651	PREDICTED: Homo sapiens uncharacterized LOC100996492 (LOC100996492), transcript variant X2, ncRNA	Other	other	XR_298763	PREDICTED: Sus scrofa uncharacterized LOC102157467 (LOC102157467), misc_RNA
six	210462	HMGB1	XM_005266368	PREDICTED: Homo sapiens high mobility group box 1 (HMGB1), transcript variant X6, mRNA	Nucleus	other	XM_005668319	PREDICTED: Sus scrofa high mobility group box 1 (HMGB1), transcript variant X4, mRNA
six	210468		HG504732	TPA: Homo sapiens RP11-386G11.10 gene for long non-coding RNA OTTHUMT00000409016.1, antisense			AK401002	Sus scrofa mRNA, clone: TES010075B10, expressed in testis
six	210471		BC012156	Homo sapiens cDNA clone IMAGE:4563045, **** WARNING: chimeric clone ****			AK235574	Sus scrofa mRNA, clone:OVRM10094C04, expressed in ovary
six	210472	ATF7	XM_006719203	PREDICTED: Homo sapiens activating transcription factor 7 (ATF7), transcript variant X4, mRNA	Nucleus	transcription regulator	XM_005652573	PREDICTED: Sus scrofa activating transcription factor 7 (ATF7), mRNA
six	210474	DBN1	XM_005265829	PREDICTED: Homo sapiens drebrin 1 (DBN1), transcript variant X3, mRNA	Cytoplasm	other	XM_005658876	PREDICTED: Sus scrofa drebrin-like (LOC100621245), partial mRNA
six	210483	SLC25A30	NM_001286807	Homo sapiens solute carrier family 25, member 30 (SLC25A30), transcript variant 3, mRNA	Cytoplasm	other	AK232610	Sus scrofa mRNA, clone:LVR010099D02, expressed in liver
six	210484	PPT2	NM_001204103	Homo sapiens palmitoyl-protein thioesterase 2 (PPT2), transcript variant 3, mRNA	Cytoplasm	enzyme	XM_005665823	PREDICTED: Sus scrofa palmitoyl-protein thioesterase 2 (PPT2), transcript variant X3, mRNA
six	210486		DQ840984	Homo sapiens isolate D5-2-K-14 immunoglobulin light chain variable region mRNA, partial cds			AK391095	Sus scrofa mRNA, clone: CLNT10063E02, expressed in colon
six	210499	CASP2	FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			XM_003134571	PREDICTED: Sus scrofa caspase 2, apoptosis-related cysteine peptidase (CASP2), transcript variant X1, mRNA
six	210506	RPS19	AF242191	Homo sapiens ribosomal protein S19 pseudogene 1 sequence			XR_298574	PREDICTED: Sus scrofa ribosomal protein S19 (RPS19), transcript variant X6, misc_RNA
six	210510	KPTN	AK298672	Homo sapiens cDNA FLJ60786 complete cds, highly similar to Kaptin	Other	other	XM_003127264	PREDICTED: Sus scrofa kaptin (actin binding protein) (KPTN), mRNA
six	210512	PCED1CP	NG_022894	Homo sapiens PC-esterase domain containing 1C, pseudogene (PCED1CP) on chromosome 2			XR_303560	PREDICTED: Sus scrofa uncharacterized LOC100626841 (LOC100626841), transcript variant X3, misc_RNA
six	210529	CST4	BC065714	Homo sapiens cystatin S, mRNA (cDNA clone MGC:71923 IMAGE:30327736), complete cds	Extracellular Space	other	AK392499	Sus scrofa mRNA, clone: HTMT10080D10, expressed in hypothalamus
six	210535	RPL10	NM_001256580	Homo sapiens ribosomal protein L10 (RPL10), transcript variant 3, mRNA	Cytoplasm	other	AK351230	Sus scrofa mRNA, clone:TES010040D10, expressed in testis

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six	210542	CYTH4	XR_430406	PREDICTED: Homo sapiens cytohesin 4 (CYTH4), transcript variant X1, misc_RNA	Cytoplasm	other	AK399176	Sus scrofa mRNA, clone: PTG010073E06, expressed in pituitary gland
six	210570	LGALS9	AB040130	Homo sapiens LGALS9 gene for galectin-9, complete cds	Plasma Membrane	other	XM_005654745	PREDICTED: Sus scrofa Rho/Rac guanine nucleotide exchange factor (GEF) 18 (ARHGEF18), transcript variant X4, mRNA
six	210596	UNC5B	NM_001244889	Homo sapiens unc-5 homolog B (C, elegans) (UNC5B), transcript variant 2, mRNA	Plasma Membrane	transmembrane receptor	XM_005671044	PREDICTED: Sus scrofa unc-5 homolog B (C, elegans) (UNC5B), transcript variant X1, mRNA
six	210605	IGHM	BC089412	Homo sapiens immunoglobulin heavy constant mu, mRNA (cDNA clone IMAGE:3054299)	Plasma Membrane	transmembrane receptor	AK396694	Sus scrofa mRNA, clone: PST010076H01, expressed in prostate
six	210618		BC015407	Homo sapiens cDNA clone IMAGE:4391776, **** WARNING: chimeric clone ****			AK234077	Sus scrofa mRNA, clone:OVR010004D03, expressed in ovary
six	210629	AES	XM_006722664	PREDICTED: Homo sapiens amino-terminal enhancer of split (AES), transcript variant X1, mRNA	Nucleus	transcription regulator	AK238961	Sus scrofa mRNA, clone:THY010052B02, expressed in thymus
six	210631	CTSD	NM_001909	Homo sapiens cathepsin D (CTSD), mRNA	Cytoplasm	peptidase	AK392159	Sus scrofa mRNA, clone: HTMT10053G06, expressed in hypothalamus
six	210643	CCL21	NM_002989	Homo sapiens chemokine (C-C motif) ligand 21 (CCL21), mRNA	Extracellular Space	cytokine	AK346857	Sus scrofa mRNA, clone:MLN010065H05, expressed in mesenteric lymph nodes
six	210654	UBL4A	NM_014235	Homo sapiens ubiquitin-like 4A (UBL4A), mRNA	Cytoplasm	enzyme	XM_003360512	PREDICTED: Sus scrofa ubiquitin-like 4A (UBL4A), transcript variant 1, mRNA
six	210665		AC003065	Homo sapiens Chromosome 2p13 BAC Clone h173, complete sequence			XM_005654570	PREDICTED: Sus scrofa torsin family 1, member B (torsin B) (TOR1B), transcript variant X2, mRNA
six	210674	MTMR14	XR_245152	PREDICTED: Homo sapiens myotubularin related protein 14 (MTMR14), transcript variant X2, misc_RNA	Cytoplasm	phosphatase	XR_306901	PREDICTED: Sus scrofa myotubularin-related protein 14-like (LOC100623010), transcript variant X2, misc_RNA
six	210689		FM206294	Cloning vector pchiIGHG1			XM_005660657	PREDICTED: Sus scrofa dipeptidyl peptidase 3-like (LOC100519350), transcript variant X8, mRNA
six	210703	EIF3B	AK302058	Homo sapiens cDNA FLJ53461 complete cds, highly similar to Eukaryotic translation initiation factor 3 subunit 9	Cytoplasm	translation regulator	AK400986	Sus scrofa mRNA, clone: TES010047H07, expressed in testis

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six	210713	DERL3	XM_005261824	PREDICTED: Homo sapiens derlin 3 (DERL3), transcript variant X5, mRNA >gi 578840696 ref XM_006725410.1 PREDICTED: Homo sapiens derlin 3 (DERL3), transcript variant X1, mRNA	Cytoplasm	other	XM_001929414	PREDICTED: Sus scrofa derlin 3 (DERL3), transcript variant X1, mRNA
six	210714	PRDM8	XM_006714279	PREDICTED: Homo sapiens PR domain containing 8 (PRDM8), transcript variant X5, mRNA	Nucleus	transcription regulator	XM_005671192	PREDICTED: Sus scrofa zinc finger protein 488 (ZNF488), mRNA
six	210715		AC018521	Homo sapiens chromosome 17, clone RP11-6N17, complete sequence			XR_297670	PREDICTED: Sus scrofa uncharacterized LOC102162548 (LOC102162548), misc_RNA
six	210716		Y14738	Homo sapiens mRNA for immunoglobulin lambda light chain			AK346895	Sus scrofa mRNA, clone:MLN010071C12, expressed in mesenteric lymph nodes
six	210738	FTH1P20	NG_023542	Homo sapiens ferritin, heavy polypeptide 1 pseudogene 20 (FTH1P20) on chromosome 2			AK232377	Sus scrofa mRNA, clone:LVR010033H03, expressed in liver
six	210742	SERPINE2	XM_005246642	PREDICTED: Homo sapiens serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 2 (SERPINE2), transcript variant X2, mRNA	Extracellular Space	other	XM_005672253	PREDICTED: Sus scrofa nexin-1 (PN-1), transcript variant X4, mRNA
six	210745	C4A	NM_001252204	Homo sapiens complement component 4A (Rodgers blood group) (C4A), transcript variant 2, mRNA	Extracellular Space	other	XM_005665810	PREDICTED: Sus scrofa complement C4 (C4), transcript variant X1, mRNA
six	210809	CH507-510L4	FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			XR_135310	PREDICTED: Sus scrofa polymeric immunoglobulin receptor-like (LOC100738775), misc_RNA
six	210831	SYNGR2	XM_005257793	PREDICTED: Homo sapiens synaptogyrin 2 (SYNGR2), transcript variant X2, mRNA	Cytoplasm	other	AK391847	Sus scrofa mRNA, clone: HTMT10027F10, expressed in hypothalamus
six	210866	SLC37A1	XM_005261141	PREDICTED: Homo sapiens solute carrier family 37 (glucose-6-phosphate transporter), member 1 (SLC37A1), transcript variant X3, mRNA	Plasma Membrane	transporter	XM_005654078	PREDICTED: Sus scrofa solute carrier family 37 (glucose-6-phosphate transporter), member 1 (SLC37A1), transcript variant X2, mRNA
six	210880	RPL35	AK291072	Homo sapiens cDNA FLJ76395 complete cds, highly similar to Homo sapiens ribosomal protein L35 (RPL35), mRNA	Cytoplasm	other	AK391832	Sus scrofa mRNA, clone: HTMT10026E03, expressed in hypothalamus
six	210919	WDR43	NM_015131	Homo sapiens WD repeat domain 43 (WDR43), mRNA	Nucleus	other	XM_005662656	PREDICTED: Sus scrofa WD repeat domain 43 (WDR43), mRNA
six	210930	RPL23AP42	NG_010965	Homo sapiens ribosomal protein L23a pseudogene 42 (RPL23AP42) on chromosome 3			AK392211	Sus scrofa mRNA, clone: HTMT10056G09, expressed in hypothalamus

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six	210951	FTH1	FM206294	Cloning vector pchilGHG1			XM_005660804	PREDICTED: Sus scrofa ferritin, heavy polypeptide 1 (FTH1), transcript variant X2, mRNA
six	210962		BC071936	Homo sapiens cDNA clone IMAGE:4125298, **** WARNING: chimeric clone ****			AK344436	Sus scrofa mRNA, clone:DCI010048C09, expressed in dendritic cells (immature)
six	210977	EEF1A1P12	NG_016738	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 pseudogene 12 (EEF1A1P12) on chromosome 2			XM_005654402	PREDICTED: Sus scrofa eukaryotic translation elongation factor 1 alpha 1 (EEF1A1), transcript variant X2, mRNA
six	210991	RRP12	BC002621	Homo sapiens ribosomal RNA processing 12 homolog (S, cerevisiae), mRNA (cDNA clone IMAGE:3161717), partial cds	Nucleus	other	XM_005657450	PREDICTED: Sus scrofa ribosomal RNA processing 12 homolog (S, cerevisiae) (RRP12), mRNA
six	211052	CLIC1	NM_001287594	Homo sapiens chloride intracellular channel 1 (CLIC1), transcript variant 3, mRNA	Nucleus	ion channel	AY609786	Sus scrofa clone Clu_3100,scr,msk,p1,Contig1, mRNA sequence
six	211072	AFG3L1P	NR_003228	Homo sapiens AFG3-like AAA ATPase 1, pseudogene (AFG3L1P), transcript variant 3, non-coding RNA	Cytoplasm	other	AK400165	Sus scrofa mRNA, clone: BFLT10060E06, expressed in brain (frontal lobe)
six	211075	EIF4A1P10	NG_022621	Homo sapiens eukaryotic translation initiation factor 4A1 pseudogene 10 (EIF4A1P10) on chromosome X			AK397629	Sus scrofa mRNA, clone: SPL010004C01, expressed in spleen
six	211147	SLC29A3	NG_017066	Homo sapiens solute carrier family 29 (equilibrative nucleoside transporter), member 3 (SLC29A3), RefSeqGene on chromosome 10	Plasma Membrane	transporter	XM_003132990	PREDICTED: Sus scrofa peptidylprolyl isomerase (cyclophilin)-like 2 (PPIL2), transcript variant X2, mRNA
six	211157	CDC42BPB	AF128625	Homo sapiens CDC42-binding protein kinase beta (CDC42BPB) mRNA, complete cds	Cytoplasm	kinase	XM_001925531	PREDICTED: Sus scrofa CDC42 binding protein kinase beta (DMPK-like) (CDC42BPB), mRNA
six	211206	RPL32	AK311909	Homo sapiens cDNA, FLJ92175, Homo sapiens ribosomal protein L32 (RPL32), mRNA	Cytoplasm	other	AK400064	Sus scrofa mRNA, clone: HTMT10145D10, expressed in hypothalamus
six	211215	RPS23P2	NG_009493	Homo sapiens ribosomal protein S23 pseudogene 2 (RPS23P2) on chromosome 4			AK399717	Sus scrofa mRNA, clone: BMWN10042B11, expressed in bone marrow
six	211230		Z98723	Homo sapiens mRNA for immunoglobulin heavy chain variable region, clone ToPG438			AK405796	Sus scrofa IGHG mRNA IgG heavy chain precursor, complete cds, clone: SPLT10016B05
six	211273	RPS5	U14970	Human ribosomal protein S5 mRNA, complete cds	Cytoplasm	other	XM_003128133	PREDICTED: Sus scrofa ribosomal protein S5 (RPS5), transcript variant 1, mRNA
six	211290	OSBP	BC063121	Homo sapiens oxysterol binding protein, mRNA (cDNA clone IMAGE:4603277), partial cds	Cytoplasm	other	XM_003122686	PREDICTED: Sus scrofa oxysterol binding protein (OSBP), mRNA

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six	211303	GAK	XM_006713874	PREDICTED: Homo sapiens cyclin G associated kinase (GAK), transcript variant X7, mRNA	Nucleus	kinase	AK397845	Sus scrofa mRNA, clone: TCH010003F08, expressed in trachea
six	211313	SEMA3B	NM_001290063	Homo sapiens sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3B (SEMA3B), transcript variant 6, mRNA	Extracellular Space	other	XM_005669591	PREDICTED: Sus scrofa sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3B (SEMA3B), transcript variant X2, mRNA
six	211314	RP11-466E9	AC240442	Homo sapiens BAC clone RP11-466E9 from chromosome x, complete sequence			AK237679	Sus scrofa mRNA, clone:SPL010078D02, expressed in spleen
six	211336	RAB37	AK127073	Homo sapiens cDNA FLJ45130 fis, clone BRAWH3037428, highly similar to Homo sapiens RAB37, member RAS oncogene family (RAB37), transcript variant 3, mRNA	Cytoplasm	enzyme	XM_003131228	PREDICTED: Sus scrofa RAB37, member RAS oncogene family (RAB37), transcript variant 2, mRNA
six	211346	RINL	XM_006723016	PREDICTED: Homo sapiens Ras and Rab interactor-like (RINL), transcript variant X2, mRNA	Other	other	AY803102	Sus scrofa chromosome 17 clone pkmCon43, mRNA sequence
six	211360	CLU	XM_006716284	PREDICTED: Homo sapiens clusterin (CLU), transcript variant X1, mRNA	Cytoplasm	other	NM_213971	Sus scrofa clusterin (CLU), mRNA >gi 164408 gb M84639.1 PIGCCIMRA Pig complement cytolysis inhibitor mRNA, complete cds
six	211411	SOBP	NG_028200	Homo sapiens sine oculis binding protein homolog (Drosophila) (SOBP), RefSeqGene on chromosome 6	Nucleus	other	XM_005653353	PREDICTED: Sus scrofa von Willebrand factor A domain containing 1 (VWA1), transcript variant X2, mRNA
six	211431	UBE2D4	NM_015983	Homo sapiens ubiquitin-conjugating enzyme E2D 4 (putative) (UBE2D4), mRNA	Other	enzyme	XM_003134861	PREDICTED: Sus scrofa ubiquitin-conjugating enzyme E2D 4 (putative) (UBE2D4), mRNA
six	211457	CCDC88C	XM_005267691	PREDICTED: Homo sapiens coiled-coil domain containing 88C (CCDC88C), transcript variant X2, mRNA	Other	other	XM_001928733	PREDICTED: Sus scrofa coiled-coil domain containing 88C (CCDC88C), mRNA
six	211459	TMCO3	XM_006719971	PREDICTED: Homo sapiens transmembrane and coiled-coil domains 3 (TMCO3), transcript variant X5, mRNA	Other	transporter	XM_005653838	PREDICTED: Sus scrofa transmembrane and coiled-coil domains 3 (TMCO3), transcript variant X4, mRNA
six	211480	LRRC10B	NM_001145077	Homo sapiens leucine rich repeat containing 10B (LRRC10B), mRNA	Other	other	XM_003122642	PREDICTED: Sus scrofa leucine rich repeat containing 10B (LRRC10B), mRNA
six	211505	ZNF296	AF447583	Homo sapiens hepatocellular carcinoma associated antigen HCA108 mRNA, complete cds	Nucleus	other	XM_005666436	PREDICTED: Sus scrofa B-cell CLL/lymphoma 11B (zinc finger protein) (BCL11B), transcript variant X4, mRNA
six	211544	CD46	NM_172350	Homo sapiens CD46 molecule, complement regulatory protein (CD46), transcript variant n, mRNA	Plasma Membrane	other	AK239433	Sus scrofa mRNA, clone:THY010103E03, expressed in thymus

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six	211567	FOS_0011	KC951376	Homo sapiens clone FOS_0011, complete sequence			CU639394	Pig DNA sequence from clone CH242-198P20 on chromosome 2, complete sequence
six	211615		FM206294	Cloning vector pchilGHG1			CT971577	Pig DNA sequence from clone CH242-239H1 on chromosome 7, complete sequence
six	211616		FM206294	Cloning vector pchilGHG1			AK348623	Sus scrofa mRNA, clone:OVRM10214H02, expressed in ovary
six	211626	PXN	XM_006719539	PREDICTED: Homo sapiens paxillin (PXN), transcript variant X18, mRNA	Cytoplasm	other	AK393933	Sus scrofa mRNA, clone: LNG010102A06, expressed in lung
six	211664	FSD1L	XM_005252260	PREDICTED: Homo sapiens fibronectin type III and SPRY domain containing 1-like (FSD1L), transcript variant X7, mRNA	Other	other	XM_003480568	PREDICTED: Sus scrofa fibronectin type III and SPRY domain containing 1-like (FSD1L), transcript variant X2, mRNA
six	211679		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CU462995	Pig DNA sequence from clone CH242-81M14 on chromosome X, complete sequence
six	211734	GLIPR1	HQ447422	Synthetic construct Homo sapiens clone IMAGE:100070745; CCSB001085_02 GLI pathogenesis-related 1 (glioma) (GLIPR1) gene, encodes complete protein	Extracellular Space	other	AK399754	Sus scrofa mRNA, clone: BMWN10066D05, expressed in bone marrow
six	211783	PDXK	BC005825	Homo sapiens pyridoxal (pyridoxine, vitamin B6) kinase, mRNA (cDNA clone MGC:1687 IMAGE:2989843), complete cds	Cytoplasm	kinase	AK234117	Sus scrofa mRNA, clone:OVR010008G08, expressed in ovary
six	211784		BC062711	Homo sapiens cDNA clone MGC:72002 IMAGE:30350364, complete cds			AK346895	Sus scrofa mRNA, clone:MLN010071C12, expressed in mesenteric lymph nodes
six	211808		NG_029966	Homo sapiens protein tyrosine phosphatase, receptor type, N polypeptide 2 (PTPRN2), RefSeqGene on chromosome 7			XM_003353889	PREDICTED: Sus scrofa GDP-fucose transporter 1-like (LOC100623533), transcript variant X1, mRNA
six	211831	FADD	NG_027966	Homo sapiens Fas (TNFRSF6)-associated via death domain (FADD), RefSeqGene (LRG_228) on chromosome 11	Cytoplasm	other	XR_135123	PREDICTED: Sus scrofa protein FADD-like (LOC100737955), misc_RNA
six	211926		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CU915359	Pig DNA sequence from clone CH242-442G13 on chromosome X, complete sequence
six	212067	SFSWAP	AC131009	Homo sapiens 12 BAC RP11-417L19 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_005670534	PREDICTED: Sus scrofa splicing factor, suppressor of white-apricot homolog (Drosophila) (SFSWAP), transcript variant X8, mRNA

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six	212131	RPS4	FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			NM_001204283	Sus scrofa ribosomal protein S4 (RPS4), mRNA >gil115549961 dbj AK232196.1 Sus scrofa mRNA, clone:LNG010100H05, expressed in lung
six	212227		FM206294	Cloning vector pchilGHG1			L36913	Pig microsatellite DNA (CA repeat)
six	212393	PRPF31	FM206294	Cloning vector pchilGHG1			XM_003127413	PREDICTED: Sus scrofa pre-mRNA processing factor 31 (PRPF31), mRNA
six	212461		FM206294	Cloning vector pchilGHG1			CU329697	Pig DNA sequence from clone CH242-180P21 on chromosome 7, complete sequence
six	212504	SEZ6	NM_001098635	Homo sapiens seizure related 6 homolog (mouse) (SEZ6), transcript variant 2, mRNA	Extracellular Space	other	AK396866	Sus scrofa mRNA, clone: PTG010013F08, expressed in pituitary gland
six	212510	PRKACA	NG_029699	Homo sapiens protein kinase, cAMP-dependent, catalytic, alpha (PRKACA), RefSeqGene on chromosome 19	Cytoplasm	kinase	AK344388	Sus scrofa mRNA, clone:DCI010032B04, expressed in dendritic cells (immature)
six	212732	PTEN	XM_006717926	PREDICTED: Homo sapiens phosphatase and tensin homolog (PTEN), transcript variant X1, mRNA	Cytoplasm	phosphatase	FP015865	Pig DNA sequence from clone CH242-35P3 on chromosome X, complete sequence
six	212769	ECSM2	EU816207	Homo sapiens endothelial cell-specific molecule 2 (ECSM2) gene, partial sequence			AK392899	Sus scrofa mRNA, clone: ITT010034A12, expressed in intestine
six	212849	KLC4	NM_138343	Homo sapiens kinesin light chain 4 (KLC4), transcript variant 4, mRNA	Other	other	AK394892	Sus scrofa mRNA, clone: OVR010050F09, expressed in ovary
six	212888	R3HDM4	NM_138774	Homo sapiens R3H domain containing 4 (R3HDM4), mRNA	Other	other	XM_005661363	PREDICTED: Sus scrofa R3H domain containing 4 (R3HDM4), transcript variant X2, mRNA
six	212889	DNAJB2	NG_029553	Homo sapiens DnaJ (Hsp40) homolog, subfamily B, member 2 (DNAJB2), RefSeqGene on chromosome 2	Nucleus	other	XM_005672235	PREDICTED: Sus scrofa DnaJ (Hsp40) homolog, subfamily B, member 2 (DNAJB2), transcript variant X4, mRNA
six	213033	BRD3	XM_006717291	PREDICTED: Homo sapiens bromodomain containing 3 (BRD3), transcript variant X2, mRNA	Nucleus	kinase	XM_003484312	PREDICTED: Sus scrofa bromodomain containing 3 (BRD3), mRNA
six	213068	PANK2	XM_006723631	PREDICTED: Homo sapiens pantothenate kinase 2 (PANK2), transcript variant X3, mRNA	Cytoplasm	kinase	XM_005672770	PREDICTED: Sus scrofa pantothenate kinase 2 (PANK2), transcript variant X3, mRNA
six	213245	TANK	XM_005246210	PREDICTED: Homo sapiens TRAF family member-associated NFKB activator (TANK), transcript variant X5, mRNA	Cytoplasm	other	XM_003359533	PREDICTED: Sus scrofa TRAF family member-associated NFKB activator (TANK), transcript variant X2, mRNA
six	213351	WBP4	XM_005266245	PREDICTED: Homo sapiens WW domain binding protein 4 (WBP4), transcript variant X1, mRNA	Cytoplasm	other	AK348636	Sus scrofa mRNA, clone:OVRM10219H11, expressed in ovary

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six	213371		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AK396524	Sus scrofa mRNA, clone: PST010046C03, expressed in prostate
six	213404	RPL7	XM_006716463	PREDICTED: Homo sapiens ribosomal protein L7 (RPL7), transcript variant X1, mRNA	Nucleus	transcription regulator	AK351256	Sus scrofa mRNA, clone:TES010056C08, expressed in testis
six	213434	EEF1A1P9	NG_029161	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 pseudogene 9 (EEF1A1P9) on chromosome 4			XM_005654402	PREDICTED: Sus scrofa eukaryotic translation elongation factor 1 alpha 1 (EEF1A1), transcript variant X2, mRNA
six	213458		AP002372	Homo sapiens genomic DNA, chromosome 11 clone:RP11-203C2, complete sequence			DQ011693	Sus scrofa isolate B3 endogenous virus Porcine endogenous retrovirus A envelope glycoprotein (env) gene, partial cds
six	213504	BNIP1	NM_001205	Homo sapiens BCL2/adenovirus E1B 19kDa interacting protein 1 (BNIP1), transcript variant BNIP1, mRNA	Cytoplasm	transporter	XM_003134044	PREDICTED: Sus scrofa BCL2/adenovirus E1B 19kDa interacting protein 1 (BNIP1), transcript variant 1, mRNA
six	213509	LRSAM1	NG_032008	Homo sapiens leucine rich repeat and sterile alpha motif containing 1 (LRSAM1), RefSeqGene (LRG_373) on chromosome 9			AK394884	Sus scrofa mRNA, clone: OVR010048C07, expressed in ovary
six	213510		FM206294	Cloning vector pchilGHG1			XM_003124469	PREDICTED: Sus scrofa fused in sarcoma (FUS), transcript variant X1, mRNA
six	213603		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AK346152	Sus scrofa mRNA, clone:LVRM10078H12, expressed in liver
six	213643	GPC3	NM_001164619	Homo sapiens glypican 3 (GPC3), transcript variant 4, mRNA	Plasma Membrane	other	AK232099	Sus scrofa mRNA, clone:LNG010079F08, expressed in lung
six	213647		KC911571	Homo sapiens haplogroup K2b* mitochondrion, complete genome			KF971862	Sus scrofa domesticus breed Min mitochondrion, complete genome
six	213750	CCDC106	XM_005258828	PREDICTED: Homo sapiens coiled-coil domain containing 106 (CCDC106), transcript variant X2, mRNA	Extracellular Space	other	AK349686	Sus scrofa mRNA, clone:SKNB10026H02, expressed in skin
six	213796	RCN1	HG505604	TPA: Homo sapiens TPT1-AS1 gene for long non-coding RNA OTTHUMT00000374934.1, antisense			XM_003353917	PREDICTED: Sus scrofa reticulocalbin 1, EF-hand calcium binding domain (RCN1), transcript variant 2, mRNA
six	213930	TEAD4	NM_003213	Homo sapiens TEA domain family member 4 (TEAD4), transcript variant 1, mRNA	Nucleus	transcription regulator	AK347910	Sus scrofa mRNA, clone:OVRM10016E03, expressed in ovary
six	213944	LIMS1	XM_005263951	PREDICTED: Homo sapiens LIM and senescent cell antigen-like domains 1 (LIMS1), transcript variant X6, mRNA	Plasma Membrane	other	XM_005662322	PREDICTED: Sus scrofa LIM and senescent cell antigen-like domains 1 (LIMS1), transcript variant X6, mRNA

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six	213990	GJD4	NM_153368	Homo sapiens gap junction protein, delta 4, 40,1kDa (GJD4), mRNA	Plasma Membrane	transporter	XM_003130802	PREDICTED: Sus scrofa gap junction protein, delta 4, 40,1kDa (GJD4), mRNA
six	213991	TLK1	XM_005246981	PREDICTED: Homo sapiens tousled-like kinase 1 (TLK1), transcript variant X2, mRNA	Nucleus	kinase	XM_005671954	PREDICTED: Sus scrofa tousled-like kinase 1 (TLK1), transcript variant X2, mRNA
six	214003	PLXNA2	XM_005273164	PREDICTED: Homo sapiens plexin A2 (PLXNA2), transcript variant X1, mRNA	Plasma Membrane	transmembrane receptor	XR_130867	PREDICTED: Sus scrofa plexin-A2-like (LOC100624791), misc_RNA
six	214027	C5orf15	NM_020199	Homo sapiens chromosome 5 open reading frame 15 (C5orf15), mRNA	Other	other	XM_003123938	PREDICTED: Sus scrofa chromosome 2 open reading frame, human C5orf15 (C2H5orf15), mRNA
six	214039	NREP	XM_006714733	PREDICTED: Homo sapiens neuronal regeneration related protein (NREP), transcript variant X2, mRNA	Cytoplasm	other	XM_003123844	PREDICTED: Sus scrofa P311 protein (P311), partial mRNA
six	214052	DHRS4	DQ149229	Homo sapiens clone CC36181C3 NADP-dependent retinol dehydrogenase/reductase (DHRS4) gene, exons 6.2 through 8.2			XM_005666228	PREDICTED: Sus scrofa dehydrogenase/reductase (SDR family) member 4 (DHRS4), transcript variant X2, mRNA
six	214083	RPL36	NM_033643	Homo sapiens ribosomal protein L36 (RPL36), transcript variant 1, mRNA	Cytoplasm	other	AK392191	Sus scrofa mRNA, clone: HTMT10055F05, expressed in hypothalamus
six	214094	DTD1	XM_005260872	PREDICTED: Homo sapiens D-tyrosyl-tRNA deacylase 1 (DTD1), transcript variant X2, mRNA	Cytoplasm	enzyme	AK237998	Sus scrofa mRNA, clone:TCH010026F10, expressed in trachea
six	214123	ASXL3	XM_005258356	PREDICTED: Homo sapiens additional sex combs like 3 (Drosophila) (ASXL3), transcript variant X1, mRNA	Other	other	XM_005665335	PREDICTED: Sus scrofa additional sex combs like 3 (Drosophila) (ASXL3), partial mRNA
six	214144	RPS11	NM_001015	Homo sapiens ribosomal protein S11 (RPS11), mRNA	Cytoplasm	other	AK347721	Sus scrofa mRNA, clone:OVR010082A07, expressed in ovary
six	214145	CWC22	AC096587	Homo sapiens BAC clone RP11-710J17 from 2, complete sequence	Nucleus	other	XM_005671989	PREDICTED: Sus scrofa CWC22 spliceosome-associated protein homolog (S, cerevisiae) (CWC22), transcript variant X2, mRNA
six	214201	GATSL3	AB528172	Synthetic construct DNA, clone: pF1KE0506, Homo sapiens GATSL3 gene for GATS protein-like 3, without stop codon, in Flexi system			XM_005670806	PREDICTED: Sus scrofa GATS protein-like 3 (GATSL3), transcript variant X4, mRNA
six	214203		AL021546	Human DNA sequence from clone 15E1 on chromosome 12, complete sequence			CU861981	Pig DNA sequence from clone CH242-34M18 on chromosome X, complete sequence
six	214207		AC009191	Homo sapiens chromosome 5 clone RPCI-1_220J2, complete sequence			AK392000	Sus scrofa mRNA, clone: HTMT10041D12, expressed in hypothalamus

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six	214228	CRYBB3	NM_004076	Homo sapiens crystallin, beta B3 (CRYBB3), mRNA	Other	other	XM_005670763	PREDICTED: Sus scrofa crystallin, beta B3 (CRYBB3), transcript variant X2, mRNA
six	214233	MYT1L	XM_006711868	PREDICTED: Homo sapiens myelin transcription factor 1-like (MYT1L), transcript variant X7, mRNA	Nucleus	transcription regulator	XM_003122670	PREDICTED: Sus scrofa transmembrane protein 109 (TMEM109), mRNA
six	214248		FM206294	Cloning vector pchilGHG1			AK400068	Sus scrofa mRNA, clone: HTMT10146A08, expressed in hypothalamus
six	214278		AL158833	Human DNA sequence from clone RP11-64C9 on chromosome 9, complete sequence			XM_005652702	PREDICTED: Sus scrofa uncharacterized LOC102168112 (LOC102168112), mRNA
six	214300	PRSS35	NM_001170423	Homo sapiens protease, serine, 35 (PRSS35), transcript variant 1, mRNA	Extracellular Space	peptidase	XM_005659406	PREDICTED: Sus scrofa protease, serine, 35 (PRSS35), mRNA
six	214303	CTC1	XR_429824	PREDICTED: Homo sapiens CTS telomere maintenance complex component 1 (CTC1), transcript variant X5, misc_RNA	Nucleus	other	XM_003358277	PREDICTED: Sus scrofa CTS telomere maintenance complex component 1 (CTC1), mRNA
six	214312	RPL17P36	NG_011307	Homo sapiens ribosomal protein L17 pseudogene 36 (RPL17P36) on chromosome 10			AK394499	Sus scrofa mRNA, clone: MLN010065E12, expressed in mesenteric lymph node
six	214335	CR1	XM_006711168	PREDICTED: Homo sapiens complement component (3b/4b) receptor 1 (Knops blood group) (CR1), transcript variant X4, mRNA	Plasma Membrane	transmembrane receptor	KF286608	Sus scrofa domesticus complement receptor type 1-like protein (CR1-L) mRNA, complete cds
six	214349	EIF3H	FM206294	Cloning vector pchilGHG1			XM_005662892	PREDICTED: Sus scrofa eukaryotic translation initiation factor 3, subunit H (EIF3H), transcript variant X2, mRNA
six	214398	CH507-510L4	FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CU694910	Pig DNA sequence from clone CH242-427M6 on chromosome X, complete sequence
six	214405	RPL8	AK289459	Homo sapiens cDNA FLJ76205 complete cds, highly similar to Homo sapiens ribosomal protein L8 (RPL8), transcript variant 1, mRNA	Other	other	XM_005655297	PREDICTED: Sus scrofa ribosomal protein L8 (RPL8), mRNA
six	214407		AC245518	Homo sapiens FOSMID clone ABC8-40871200L3 from chromosome unknown, complete sequence			AK390994	Sus scrofa mRNA, clone: CLNT10036E11, expressed in colon
six	214418	PACRGL	AK098692	Homo sapiens cDNA FLJ25826 fis, clone TST08017	Other	other	XM_005666556	PREDICTED: Sus scrofa PARK2 co-regulated-like (PACRGL), transcript variant X8, mRNA
six	214476	GPX8	HQ447731	Synthetic construct Homo sapiens clone IMAGE:100071062; CCSB013219_01 similar to RIKEN cDNA 2310016C16 (LOC493869) gene, encodes complete protein	Cytoplasm	enzyme	XM_003133970	PREDICTED: Sus scrofa probable glutathione peroxidase 8-like (LOC100519691), transcript variant X1, mRNA

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six	214507		BC082259	Homo sapiens cDNA clone IMAGE:6455860, **** WARNING: chimeric clone ****			AK392475	Sus scrofa mRNA, clone: HTMT10078B07, expressed in hypothalamus
six	214627	DMPK	NG_009784	Homo sapiens dystrophia myotonica-protein kinase (DMPK), RefSeqGene on chromosome 19	Cytoplasm	kinase	KF971862	Sus scrofa domesticus breed Min mitochondrion, complete genome
six	214647	CH507-510L4	FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			XM_005664539	PREDICTED: Sus scrofa protein phosphatase 1, regulatory (inhibitor) subunit 14A (PPP1R14A), transcript variant X1, mRNA
six	214739	EEF1A1	AK223042	Homo sapiens mRNA for eukaryotic translation elongation factor 1 alpha 1 variant, clone: JTH09260	Cytoplasm	translation regulator	XM_005654402	PREDICTED: Sus scrofa eukaryotic translation elongation factor 1 alpha 1 (EEF1A1), transcript variant X2, mRNA
six	214873	WNT5A	XM_006713324	PREDICTED: Homo sapiens wingless-type MMTV integration site family, member 5A (WNT5A), transcript variant X1, mRNA	Extracellular Space	cytokine	CU469162	Pig DNA sequence from clone CH242-427P7 on chromosome X, complete sequence
six	214883	Zam722	JX303895	Homo sapiens isolate Zam722 mitochondrion, complete genome			KF767443	Sus scrofa breed Wuzhishan mitochondrion, complete genome
six	214885		AC013437	Homo sapiens BAC clone RP11-190J23 from 2, complete sequence			KF767443	Sus scrofa breed Wuzhishan mitochondrion, complete genome
six	214898	PLEKHG3	XM_006720108	PREDICTED: Homo sapiens pleckstrin homology domain containing, family G (with RhoGef domain) member 3 (PLEKHG3), transcript variant X6, mRNA	Other	other	XM_001926793	PREDICTED: Sus scrofa pleckstrin homology domain containing, family G (with RhoGef domain) member 3 (PLEKHG3), transcript variant X1, mRNA
six	214999	GPR137C	NM_001099652	Homo sapiens G protein-coupled receptor 137C (GPR137C), mRNA	Other	other	CT737214	Pig DNA sequence from clone CH242-116N18 on chromosome 14, complete sequence
six	215022	FAM134C	XM_006721729	PREDICTED: Homo sapiens family with sequence similarity 134, member C (FAM134C), transcript variant X1, mRNA	Other	other	XM_003131384	PREDICTED: Sus scrofa family with sequence similarity 134, member C (FAM134C), mRNA
six	215023	ATPIF1	AF114836	Homo sapiens ATP synthase inhibitor protein mRNA, complete cds	Cytoplasm	other	XM_005654344	PREDICTED: Sus scrofa FGFR1 oncogene partner (FGFR1OP), transcript variant X5, mRNA
six	215069		AC009990	Homo sapiens chromosome 05 clone RP11-94N1, complete sequence			XR_309380	PREDICTED: Sus scrofa uncharacterized LOC102159394 (LOC102159394), transcript variant X1, misc_RNA
six	215075	SLITRK2	GQ214522	Homo sapiens haplotype FA093 mitochondrion, complete genome			KF767443	Sus scrofa breed Wuzhishan mitochondrion, complete genome
six	215117	RPL12P2	NG_009503	Homo sapiens ribosomal protein L12 pseudogene 2 (RPL12P2) on chromosome 6			XM_005660442	PREDICTED: Sus scrofa ribosomal protein L12 (RPL12), mRNA

cluster	array id	gene symbols	HSA accession	HSA description	location	property	SSC accession	SSC description
six	215119		FM206294	Cloning vector pchilGHG1			XM_003135439	PREDICTED: Sus scrofa SLIT and NTRK-like family, member 2 (SLITRK2), transcript variant X1, mRNA
six	215140		AL354696	Human DNA sequence from clone RP11-74J13 on chromosome 13, complete sequence			EF170995	Sus scrofa clone KVL14903 microsatellite sequence
six	215201	UBQLN2	NG_016249	Homo sapiens ubiquilin 2 (UBQLN2), RefSeqGene on chromosome X	Nucleus	other	AK394611	Sus scrofa mRNA, clone: MLTL10013F10, expressed in longissimus muscle
six	215234	CMTM2	AK098598	Homo sapiens cDNA FLJ25732 fis, clone TST05645	Extracellular Space	cytokine	XM_005668290	PREDICTED: Sus scrofa cell wall protein AWA1-like (LOC102160162), mRNA
six	215317	RPL6	S71022	Homo sapiens neoplasm-related C140 product mRNA, partial cds	Cytoplasm	other	AK394384	Sus scrofa mRNA, clone: MLN010012B10, expressed in mesenteric lymph node
six	215454		FM206294	Cloning vector pchilGHG1			L36913	Pig microsatellite DNA (CA repeat)
six	215487	PODXL2	NM_015720	Homo sapiens podocalyxin-like 2 (PODXL2), mRNA	Plasma Membrane	other	XM_003358547	PREDICTED: Sus scrofa podocalyxin-like 2 (PODXL2), mRNA
six	215500	FTLP2	NG_017087	Homo sapiens ferritin, light polypeptide pseudogene 2 (FTLP2) on chromosome X			XM_005664699	PREDICTED: Sus scrofa ferritin, light polypeptide (FTL), transcript variant X1, mRNA
six	215526		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AK345828	Sus scrofa mRNA, clone:LVR010016A05, expressed in liver
six	215599	XIST	HG512583	TPA: Homo sapiens XIST gene for long non-coding RNA	Nucleus	other	KC753465	Sus scrofa inactive X specific transcript (XIST), complete sequence
six	215648	ACACA	AC027687	Homo sapiens chromosome 16 clone RP11-61L4, complete sequence			FJ263680	Sus scrofa clone CH242-27L18 acetyl-coenzyme A carboxylase alpha (ACACA) gene, complete cds
six	215663	CLU	XM_006716284	PREDICTED: Homo sapiens clusterin (CLU), transcript variant X1, mRNA	Cytoplasm	other	AK236013	Sus scrofa mRNA, clone:OVRM10136G02, expressed in ovary
six	215719	RPSAP55	NG_010133	Homo sapiens ribosomal protein SA pseudogene 55 (RPSAP55) on chromosome 15			AK394403	Sus scrofa mRNA, clone: MLN010020C05, expressed in mesenteric lymph node
six	215732	EIF5A2	NM_020390	Homo sapiens eukaryotic translation initiation factor 5A2 (EIF5A2), mRNA >gj 32346540 gb AY205261.1 Homo sapiens eukaryotic initiation factor 5A isoform II (EIF5A2) alternative mRNA D, complete cds	Cytoplasm	translation regulator	CU928035	Pig DNA sequence from clone CH242-451D16 on chromosome 2, complete sequence
six	215863	JADE2	XM_005271948	PREDICTED: Homo sapiens jade family PHD finger 2 (JADE2), transcript variant X7, mRNA	Nucleus	other	AK391314	Sus scrofa mRNA, clone: DCI010037A04, expressed in dendritic cells (immature)

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six	215929		BC015682	Homo sapiens cDNA clone IMAGE:4651465, **** WARNING: chimeric clone ****			XM_003358383	PREDICTED: Sus scrofa 60S ribosomal protein L14-like (LOC100623913), mRNA
six	215941		FM206294	Cloning vector pchilGHG1			XM_005662494	PREDICTED: Sus scrofa uncharacterized LOC100627082 (LOC100627082), mRNA
six	215974		BC071935	Homo sapiens cDNA clone IMAGE:4637729, **** WARNING: chimeric clone ****			AK398844	Sus scrofa mRNA, clone: ITT010050H01, expressed in intestine
six	215992		FN673986	Homo sapiens nuclear sequence of mitochondrial origin, RHNumts HSA_Numts_227			KF767443	Sus scrofa breed Wuzhishan mitochondrion, complete genome
six	216013	RPL3	AB266619	Homo sapiens ASC-1 mRNA for hypothetical protein, partial cds	Cytoplasm	other	AK399382	Sus scrofa mRNA, clone: THY010110H09, expressed in thymus
six	216060	HNRNPA1	AC136621	Homo sapiens chromosome 16 clone RP11-481F24, complete sequence			XM_005663855	PREDICTED: Sus scrofa heterogeneous nuclear ribonucleoprotein A1 (HNRNPA1), transcript variant X2, mRNA
six	216064	FETUB	AC216903	Homo sapiens FOSMID clone ABC11-49468400G6 from chromosome 3, complete sequence			XM_003132577	PREDICTED: Sus scrofa fetuin B (FETUB), mRNA
six	216091	ACY1	NG_012036	Homo sapiens aminoacylase 1 (ACY1), RefSeqGene on chromosome 3	Cytoplasm	peptidase	XM_005669559	PREDICTED: Sus scrofa abhydrolase domain containing 14A (ABHD14A), transcript variant X13, mRNA
six	216122	TMEM186	AL080088	Homo sapiens mRNA; cDNA DKFZp564K2062 (from clone DKFZp564K2062)	Cytoplasm	other	XM_003124605	PREDICTED: Sus scrofa transmembrane protein 186 (TMEM186), transcript variant 1, mRNA
six	216152	RPL13	NM_001243130	Homo sapiens ribosomal protein L13 (RPL13), transcript variant 3, mRNA	Cytoplasm	other	NM_001243345	Sus scrofa ribosomal protein L13 (RPL13), mRNA
six	216169	CHD9	XM_005256174	PREDICTED: Homo sapiens chromodomain helicase DNA binding protein 9 (CHD9), transcript variant X7, mRNA	Cytoplasm	other	AK389797	Sus scrofa mRNA, clone: AMP010076E05, expressed in alveolar macrophage
six	216244		AL353754	Human DNA sequence from clone RP11-401E9 on chromosome 10, complete sequence			CU861981	Pig DNA sequence from clone CH242-34M18 on chromosome X, complete sequence
six	216332	CYP20A1	NG_007956	Homo sapiens cytochrome P450, family 20, subfamily A, polypeptide 1 (CYP20A1), RefSeqGene on chromosome 2	Other	enzyme	CU062638	Pig DNA sequence from clone CH242-119A14 on chromosome 1, complete sequence
six	216337	HJURP	NM_018410	Homo sapiens Holliday junction recognition protein (HJURP), transcript variant 1, mRNA	Nucleus	other	XM_001925725	PREDICTED: Sus scrofa Holliday junction recognition protein (HJURP), mRNA

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six	216361	SLC25A6	NM_001636	Homo sapiens solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 6 (SLC25A6), mRNA	Cytoplasm	transporter	AK399729	Sus scrofa mRNA, clone: BMWN10047D07, expressed in bone marrow
six	216432	RPS3	NM_001260507	Homo sapiens ribosomal protein S3 (RPS3), transcript variant 4, mRNA	Cytoplasm	enzyme	AK390990	Sus scrofa mRNA, clone: CLNT10036D10, expressed in colon
six	216475	BBC3	XM_006723141	PREDICTED: Homo sapiens BCL2 binding component 3 (BBC3), transcript variant X2, mRNA	Cytoplasm	other	FP102474	Pig DNA sequence from clone CH242-104M2 on chromosome 6, complete sequence
six	216498	LACE1	XM_005266885	PREDICTED: Homo sapiens lactation elevated 1 (LACE1), transcript variant X1, mRNA	Cytoplasm	other	XM_005659362	PREDICTED: Sus scrofa lactation elevated 1 (LACE1), mRNA
six	216500		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AK400091	Sus scrofa mRNA, clone: BFLT10003A08, expressed in brain (frontal lobe)
six	216518	BTG3	FM206294	Cloning vector pchIHGHG1			NM_001097517	Sus scrofa BTG family, member 3 (BTG3), mRNA >gi 144583741 gb EF486868.1 Sus scrofa B-cell translocation protein 3 (BTG3) mRNA, complete cds
six	216520	C10orf90	AF435960	Homo sapiens unknown mRNA	Cytoplasm	other	XM_005671571	PREDICTED: Sus scrofa chromosome 14 open reading frame, human C10orf90 (C14H10orf90), transcript variant X3, mRNA
six	216526	GNB4	XM_006713721	PREDICTED: Homo sapiens guanine nucleotide binding protein (G protein), beta polypeptide 4 (GNB4), transcript variant X2, mRNA	Plasma Membrane	enzyme	FP104550	Pig DNA sequence from clone CH242-320P11 on chromosome X, complete sequence
six	216532	TMEM59L	BC010446	Homo sapiens transmembrane protein 59-like, mRNA (cDNA clone MGC:17013 IMAGE:4181442), complete cds	Cytoplasm	other	XM_005652912	PREDICTED: Sus scrofa transmembrane protein 59-like (TMEM59L), transcript variant X1, mRNA
six	216533	SMTNL2	XM_006721515	PREDICTED: Homo sapiens smoothelin-like 2 (SMTNL2), transcript variant X2, mRNA	Other	other	XM_005669136	PREDICTED: Sus scrofa smoothelin-like protein 2-like (LOC100523750), transcript variant X3, mRNA
six	216534	CABLES2	FM206294	Cloning vector pchIHGHG1			XM_001924509	PREDICTED: Sus scrofa Cdk5 and Abl enzyme substrate 2 (CABLES2), mRNA
six	216556	RPS7	NG_011744	Homo sapiens ribosomal protein S7 (RPS7), RefSeqGene on chromosome 2	Cytoplasm	other	XM_005662783	PREDICTED: Sus scrofa 40S ribosomal protein S7-like (LOC100736789), mRNA
six	216562	CALM1	FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			NM_001244210	Sus scrofa calmodulin 1 (phosphorylase kinase, delta) (CALM1), mRNA

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six	216609	BIK	NM_001197	Homo sapiens BCL2-interacting killer (apoptosis-inducing) (BIK), mRNA	Cytoplasm	other	XM_005663754	PREDICTED: Sus scrofa BCL2-interacting killer (apoptosis-inducing) (BIK), mRNA
six	216610		AC108110	Homo sapiens chromosome 5 clone RP11-265O6, complete sequence			FN677281	Sus scrofa BAC clone CHOR1242_18D11_Contig97
six	216637		AL008718	Human DNA sequence from clone CTA-268H5 on chromosome 22q13.2-13.3, complete sequence			AK351769	Sus scrofa mRNA, clone:THY010081H09, expressed in thymus
six	216649	PNPO	XM_005257500	PREDICTED: Homo sapiens pyridoxamine 5'-phosphate oxidase (PNPO), transcript variant X3, mRNA	Cytoplasm	enzyme	XM_001929526	PREDICTED: Sus scrofa neurotrophic tyrosine kinase, receptor, type 1 (NTRK1), transcript variant 2, mRNA
six	216655	HBS1L	XR_245499	PREDICTED: Homo sapiens HBS1-like (S, cerevisiae) (HBS1L), transcript variant X1, misc_RNA	Cytoplasm	translation regulator	XM_003353208	PREDICTED: Sus scrofa HBS1-like (S, cerevisiae) (HBS1L), mRNA
six	216668	UCP2	U94592	Human uncoupling protein homolog (UCPH) mRNA, complete cds	Cytoplasm	transporter	AY609786	Sus scrofa clone Clu_3100.scr.msk.p1.Contig1, mRNA sequence
six	216673		EU092792	Homo sapiens isolate L441 mitochondrion, complete genome			KF569218	Sus scrofa breed DLY mitochondrion, complete genome
six	216676	ATP8A1	XM_006713989	PREDICTED: Homo sapiens ATPase, aminophospholipid transporter (APLT), class I, type 8A, member 1 (ATP8A1), transcript variant X2, mRNA	Cytoplasm	transporter	AK397458	Sus scrofa mRNA, clone: SMG010020A12, expressed in submaxillary gland
six	216678		AC107394	Homo sapiens BAC clone RP11-617114 from 4, complete sequence			AK392421	Sus scrofa mRNA, clone: HTMT10072F09, expressed in hypothalamus
six	216680		AC153806	Homo sapiens chromosome 1 clone fa0649, complete sequence			AK397014	Sus scrofa mRNA, clone: PTG010053D09, expressed in pituitary gland
six	216702		FM206294	Cloning vector pchilGHG1			AK398436	Sus scrofa mRNA, clone: THY010070H06, expressed in thymus
six	216703	CACNA1A	NM_001174080	Homo sapiens calcium channel, voltage-dependent, P/Q type, alpha 1A subunit (CACNA1A), transcript variant 5, mRNA	Plasma Membrane	ion channel	XM_003358504	PREDICTED: Sus scrofa leucine rich repeat neuronal 1 (LRRN1), transcript variant X1, mRNA
six	216715	ATAD2B	NG_029017	Homo sapiens ATPase family, AAA domain containing 2B (ATAD2B), RefSeqGene on chromosome 2			AK348242	Sus scrofa mRNA, clone:OVRM10105G09, expressed in ovary
six	216721		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CU407086	Pig DNA sequence from clone CH242-496M8 on chromosome 15, complete sequence
six	216724	SLC41A2	XM_006719630	PREDICTED: Homo sapiens solute carrier family 41 (magnesium transporter), member 2 (SLC41A2), transcript variant X6, mRNA	Plasma Membrane	transporter	XM_005664185	PREDICTED: Sus scrofa solute carrier family 41 (magnesium transporter), member 2 (SLC41A2), transcript variant X4, mRNA

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six	216726	PNCK	XM_005274651	PREDICTED: Homo sapiens pregnancy up-regulated nonubiquitous CaM kinase (PNCK), transcript variant X1, mRNA	Other	kinase	XM_005673984	PREDICTED: Sus scrofa pregnancy up-regulated non-ubiquitously expressed CaM kinase (PNCK), transcript variant X2, mRNA
six	216727		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			FP339621	Pig DNA sequence from clone CH242-446F22 on chromosome X, complete sequence
six	216739		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CR956646	Pig DNA sequence from clone CH242-247L10 on chromosome 17, complete sequence
six	216746	MAX	XR_429315	PREDICTED: Homo sapiens MYC associated factor X (MAX), transcript variant X1, misc_RNA	Nucleus	transcription regulator	XM_005666317	PREDICTED: Sus scrofa MYC associated factor X (MAX), transcript variant X2, mRNA
six	216796	INTS4	BK005723	TPA_exp: Homo sapiens integrator complex subunit 4 mRNA, complete cds	Nucleus	other	XM_003129692	PREDICTED: Sus scrofa integrator complex subunit 4 (INTS4), partial mRNA
six	216798	FAM73A	NM_198549	Homo sapiens family with sequence similarity 73, member A (FAM73A), transcript variant 1, mRNA	Other	other	FN673751	Sus scrofa BAC clone KNP_619A9
six	216836	TMEM229A	NM_001136002	Homo sapiens transmembrane protein 229A (TMEM229A), mRNA	Other	other	XM_003134723	PREDICTED: Sus scrofa transmembrane protein 229A (TMEM229A), mRNA
six	216838	NKD1	XM_005256211	PREDICTED: Homo sapiens naked cuticle homolog 1 (Drosophila) (NKD1), transcript variant X1, mRNA	Other	other	XM_005656789	PREDICTED: Sus scrofa kinesin family member 21B (KIF21B), transcript variant X3, mRNA
six	216840		AL390778	Human DNA sequence from clone RP11-399H11 on chromosome 9, complete sequence			AK390534	Sus scrofa mRNA, clone: BFLT10087B06, expressed in brain (frontal lobe)
six	216846	ERMN	NM_001009959	Homo sapiens ermin, ERM-like protein (ERMN), transcript variant 1, mRNA	Extracellular Space	other	FP312622	Pig DNA sequence from clone CH242-145A24 on chromosome 1, complete sequence
six	216859	C15orf60	XM_006720474	PREDICTED: Homo sapiens chromosome 15 open reading frame 60 (C15orf60), transcript variant X1, mRNA	Other	other	XR_135478	PREDICTED: Sus scrofa uncharacterized LOC100739076 (LOC100739076), transcript variant 1, misc_RNA
six	216871	NELFCD	XR_244142	PREDICTED: Homo sapiens negative elongation factor complex member C/D (NELFCD), transcript variant X2, misc_RNA	Nucleus	other	AK398192	Sus scrofa mRNA, clone: TES010034C06, expressed in testis
six	216882	KCNA1	NG_011815	Homo sapiens potassium voltage-gated channel, shaker-related subfamily, member 1 (episodic ataxia with myokymia) (KCNA1), RefSeqGene on chromosome 12	Plasma Membrane	ion channel	XM_005658344	PREDICTED: Sus scrofa aspartyl/asparaginyl beta-hydroxylase-like (LOC100525988), transcript variant X4, mRNA

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six	216895		BC041400	Homo sapiens cDNA clone IMAGE:5277945			FP102006	Pig DNA sequence from clone CH242-170K2 on chromosome X, complete sequence
six	216907	ARMCX3	XM_005262141	PREDICTED: Homo sapiens armadillo repeat containing, X-linked 3 (ARMCX3), transcript variant X1, mRNA	Cytoplasm	other	XM_003135253	PREDICTED: Sus scrofa armadillo repeat containing, X-linked 3 (ARMCX3), transcript variant X3, mRNA
six	216909	GOLIM4	XM_005247366	PREDICTED: Homo sapiens golgi integral membrane protein 4 (GOLIM4), transcript variant X3, mRNA	Cytoplasm	other	XM_005669986	PREDICTED: Sus scrofa golgi integral membrane protein 4 (GOLIM4), transcript variant X3, mRNA
six	216911	DICER1	NG_016311	Homo sapiens dicer 1, ribonuclease type III (DICER1), RefSeqGene (LRG_492) on chromosome 14	Cytoplasm	enzyme	XR_298872	PREDICTED: Sus scrofa uncharacterized LOC102159128 (LOC102159128), transcript variant X3, misc_RNA
six	216919	SKAP2	AC011299	Homo sapiens BAC clone RP11-232C20 from 7, complete sequence	Cytoplasm	other	FP017298	Pig DNA sequence from clone CH242-217M1 on chromosome X, complete sequence
six	216934	ARHGEF7	XM_005254095	PREDICTED: Homo sapiens Rho guanine nucleotide exchange factor (GEF) 7 (ARHGEF7), transcript variant X12, mRNA	Cytoplasm	other	XM_005653833	PREDICTED: Sus scrofa rho guanine nucleotide exchange factor 7-like (LOC100737702), transcript variant X2, mRNA
six	216943		AL591034	Human DNA sequence from clone RP11-96J19 on chromosome 6, complete sequence			XM_005674195	PREDICTED: Sus scrofa replication protein A 14 kDa subunit-like (LOC100624116), transcript variant X2, mRNA
six	216951	RAB8A	HG510409	TPA: Homo sapiens CTD-2231E14.8 gene for long non-coding RNA OTTHUMT00000460194.1, antisense			NM_001243802	Sus scrofa RAB8A, member RAS oncogene family (RAB8A), mRNA >gj 288785126 dbj AK346133.1 Sus scrofa mRNA, clone:LVRM10071A11, expressed in liver
six	216955	SUMO1	NG_011679	Homo sapiens small ubiquitin-like modifier 1 (SUMO1), RefSeqGene on chromosome 2			CU639450	Pig DNA sequence from clone CH242-56111 on chromosome X, complete sequence
six	216966	CBLB	XR_427385	PREDICTED: Homo sapiens Cbl proto-oncogene B, E3 ubiquitin protein ligase (CBLB), transcript variant X6, misc_RNA	Nucleus	other	XM_003358826	PREDICTED: Sus scrofa Cbl proto-oncogene B, E3 ubiquitin protein ligase (CBLB), mRNA
six	217003		BC036712	Homo sapiens ribosomal protein S3A, mRNA (cDNA clone IMAGE:4541172), **** WARNING: chimeric clone ****			AK398969	Sus scrofa mRNA, clone: MLN010015D06, expressed in mesenteric lymph node
six	217060	CNN2	NG_021807	Homo sapiens calponin 2 pseudogene (LOC283172) on chromosome 11			XM_003353960	PREDICTED: Sus scrofa calponin 2 (CNN2), transcript variant 2, mRNA
six	217085	EDC3	NM_001142444	Homo sapiens enhancer of mRNA decapping 3 (EDC3), transcript variant 2, mRNA	Cytoplasm	other	XM_001927872	PREDICTED: Sus scrofa enhancer of mRNA decapping 3 (EDC3), mRNA

cluster	array id	gene symbols	HSA accession	HSA description	location	property	SSC accession	SSC description
six	217112	PITPNM2	XM_006719519	PREDICTED: Homo sapiens phosphatidylinositol transfer protein, membrane-associated 2 (PITPNM2), transcript variant X9, mRNA	Cytoplasm	enzyme	XM_005670601	PREDICTED: Sus scrofa phosphatidylinositol transfer protein, membrane-associated 2 (PITPNM2), transcript variant X3, mRNA
six	217125	SAMSN1	NM_001286523	Homo sapiens SAM domain, SH3 domain and nuclear localization signals 1 (SAMSN1), transcript variant 3, mRNA	Nucleus	other	AK391526	Sus scrofa mRNA, clone: DCI010099E03, expressed in dendritic cells (immature)
six	217135	MTMR12	XM_005248316	PREDICTED: Homo sapiens myotubularin related protein 12 (MTMR12), transcript variant X4, mRNA	Plasma Membrane	other	XR_308371	PREDICTED: Sus scrofa uncharacterized LOC102161259 (LOC102161259), misc_RNA
six	217136	RPL18AP3	NG_029391	Homo sapiens ribosomal protein L18a pseudogene 3 (RPL18AP3) on chromosome 12			AK234580	Sus scrofa mRNA, clone:OVR010090E05, expressed in ovary
six	217147	RPL7A	AK311743	Homo sapiens cDNA, FLJ92002, Homo sapiens ribosomal protein L7a (RPL7A), mRNA	Cytoplasm	other	AK394488	Sus scrofa mRNA, clone: MLN010060H07, expressed in mesenteric lymph node
six	217180	GAL3ST4	AK301591	Homo sapiens cDNA FLJ54945 complete cds, highly similar to Galactose-3-O-sulfotransferase 4 (EC 2.8.2,-)	Cytoplasm	enzyme	XM_005661891	PREDICTED: Sus scrofa galactose-3-O-sulfotransferase 4 (GAL3ST4), transcript variant X2, mRNA
six	217181		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CU468335	Pig DNA sequence from clone CH242-247D14 on chromosome X, complete sequence
six	217184	PAX9	NG_013357	Homo sapiens paired box 9 (PAX9), RefSeqGene on chromosome 14	Nucleus	transcription regulator	XM_005666200	PREDICTED: Sus scrofa paired box 9 (PAX9), mRNA
six	217231	IGHM	Y14737	Homo sapiens mRNA for immunoglobulin lambda heavy chain	Plasma Membrane	transmembrane receptor	AK392836	Sus scrofa mRNA, clone: ITT010011E04, expressed in intestine
six	217255	RAD51	XM_006720626	PREDICTED: Homo sapiens RAD51 recombinase (RAD51), transcript variant X1, mRNA	Nucleus	enzyme	AK395876	Sus scrofa mRNA, clone: OVRT10079G11, expressed in ovary
six	217259	EDN3	XM_005260314	PREDICTED: Homo sapiens endothelin 3 (EDN3), transcript variant X3, mRNA	Extracellular Space	other	AK389530	Sus scrofa mRNA, clone: ADR010088D09, expressed in adrenal gland
six	217267		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AK239637	Sus scrofa mRNA, clone:THY010118B08, expressed in thymus
six	217275	C9orf16	AK022885	Homo sapiens cDNA FLJ12823 fis, clone NT2RP2002752	Other	other	XM_001927625	PREDICTED: Sus scrofa chromosome 1 open reading frame, human C9orf16 (C1H9orf16), mRNA
six	217291	SCYL3	BC014662	Homo sapiens SCY1-like 3 (S, cerevisiae), mRNA (cDNA clone MGC:23025 IMAGE:4852719), complete cds	Cytoplasm	kinase	XM_005663113	PREDICTED: Sus scrofa SCY1-like 3 (S, cerevisiae) (SCYL3), transcript variant X8, mRNA

cluster	array id	gene symbols	HSA accession	HSA description	location	property	SSC accession	SSC description
six	217294	USP32	BC156264	Synthetic construct Homo sapiens clone IMAGE:100061706, MGC:190079 ubiquitin specific peptidase 32 (USP32) mRNA, encodes complete protein	Cytoplasm	enzyme	XM_003483053	PREDICTED: Sus scrofa ubiquitin specific peptidase 32 (USP32), mRNA
six	217300	PLXDC1	NM_020405	Homo sapiens plexin domain containing 1 (PLXDC1), mRNA	Plasma Membrane	other	AK349887	Sus scrofa mRNA, clone:SKNB10081A10, expressed in skin
six	217302	BMP4	XM_005268015	PREDICTED: Homo sapiens bone morphogenetic protein 4 (BMP4), transcript variant X1, mRNA	Extracellular Space	growth factor	XM_005659971	PREDICTED: Sus scrofa bone morphogenetic protein 4 (BMP4), transcript variant X4, mRNA
six	217315	FZD5	BC172518	Synthetic construct Homo sapiens clone IMAGE:100069212, MGC:199223 frizzled homolog 5 (Drosophila) (FZD5) mRNA, encodes complete protein	Plasma Membrane	G-protein coupled receptor	XM_005672133	PREDICTED: Sus scrofa frizzled family receptor 5 (FZD5), mRNA
six	217317		FM206294	Cloning vector pchilGHG1			L36913	Pig microsatellite DNA (CA repeat)
six	217330	ZNF774	XM_006720485	PREDICTED: Homo sapiens zinc finger protein 774 (ZNF774), transcript variant X3, mRNA	Other	other	XM_003360695	PREDICTED: Sus scrofa zinc finger protein 774 (ZNF774), mRNA
six	217338		FM206294	Cloning vector pchilGHG1			L36913	Pig microsatellite DNA (CA repeat)
six	217339	PKD2	FM206294	Cloning vector pchilGHG1			XM_003131589	PREDICTED: Sus scrofa pyruvate dehydrogenase kinase, isozyme 2 (PKD2), transcript variant X2, mRNA
six	217355	TLR9	NG_033933	Homo sapiens toll-like receptor 9 (TLR9), RefSeqGene on chromosome 3	Plasma Membrane	transmembrane receptor	XM_003132245	PREDICTED: Sus scrofa twinfilin-2-like (LOC100520931), mRNA
six	217362	RPL6	XM_006719549	PREDICTED: Homo sapiens ribosomal protein L6 (RPL6), transcript variant X5, mRNA	Cytoplasm	other	AK392320	Sus scrofa mRNA, clone: HTMT10065E01, expressed in hypothalamus
six	217363	RPL29	NG_010310	Homo sapiens ribosomal protein L29 pseudogene 13 (RPL29P13) on chromosome 5			XM_005669562	PREDICTED: Sus scrofa ribosomal protein L29 (RPL29), transcript variant X2, mRNA
six	217377	XYLT1	NG_015843	Homo sapiens xylosyltransferase I (XYLT1), RefSeqGene on chromosome 16	Cytoplasm	enzyme	CU207271	Pig DNA sequence from clone CH242-214N22 on chromosome X, complete sequence
six	217411	ZNF134	U09412	Human zinc finger protein ZNF134 mRNA, complete cds	Nucleus	transcription regulator	XM_005664912	PREDICTED: Sus scrofa zinc finger protein 134 (ZNF134), transcript variant X5, mRNA
six	217446	ITGB1BP1	XM_005246188	PREDICTED: Homo sapiens integrin beta 1 binding protein 1 (ITGB1BP1), transcript variant X6, mRNA	Plasma Membrane	transporter	AK231974	Sus scrofa mRNA, clone:LNG010059C08, expressed in lung
six	217513	RAC1P4	NG_004751	Homo sapiens ras-related C3 botulinum toxin substrate 1 pseudogene 4 (RAC1P4) on chromosome X			AK391982	Sus scrofa mRNA, clone: HTMT10039G06, expressed in hypothalamus

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six	217555	RBMS2	NM_002898	Homo sapiens RNA binding motif, single stranded interacting protein 2 (RBMS2), mRNA	Nucleus	other	CU463978	Pig DNA sequence from clone CH242-14E6 on chromosome X, complete sequence
six	217567	KRT8	AK315826	Homo sapiens cDNA, FLJ79475 complete cds, highly similar to Keratin, type II cytoskeletal 8	Cytoplasm	other	XM_005652515	PREDICTED: Sus scrofa keratin 8 (KRT8), transcript variant X2, mRNA
six	217580	PARN	NM_002582	Homo sapiens poly(A)-specific ribonuclease (PARN), transcript variant 1, mRNA	Nucleus	enzyme	AK391595	Sus scrofa mRNA, clone: HTMT10004H08, expressed in hypothalamus
six	217627	FUT10	AC067838	Homo sapiens chromosome 8, clone RP11-722E23, complete sequence	Cytoplasm	enzyme	XR_306587	PREDICTED: Sus scrofa uncharacterized LOC102162491 (LOC102162491), misc_RNA
six	217639	CRABP2	XM_006711169	PREDICTED: Homo sapiens cellular retinoic acid binding protein 2 (CRABP2), transcript variant X1, mRNA	Cytoplasm	transporter	AK240196	Sus scrofa mRNA, clone:UTR010039G04, expressed in uterus
six	217645	PRAP1	NM_145202	Homo sapiens proline-rich acidic protein 1 (PRAP1), transcript variant 1, mRNA	Plasma Membrane	other	XM_001927885	PREDICTED: Sus scrofa proline-rich acidic protein 1 (PRAP1), transcript variant 1, mRNA
six	217650		AC203627	Homo sapiens FOSMID clone ABC10-44455800D14 from chromosome 10, complete sequence			CT737217	Pig DNA sequence from clone CH242-152H1 on chromosome 14, complete sequence
six	217651	ERMARD	XM_006715510	PREDICTED: Homo sapiens ER membrane-associated RNA degradation (ERMARD), transcript variant X4, mRNA >gi 578839532 ref XM_006725011.1 PREDICTED: Homo sapiens ER membrane-associated RNA degradation (ERMARD), transcript variant X2, mRNA	Other	other	XM_005659103	PREDICTED: Sus scrofa ER membrane-associated RNA degradation (ERMARD), transcript variant X2, mRNA
six	217677	GPX7	XM_006710586	PREDICTED: Homo sapiens glutathione peroxidase 7 (GPX7), transcript variant X1, mRNA	Other	enzyme	XM_003361678	PREDICTED: Sus scrofa glutathione peroxidase 7-like (LOC100621417), mRNA
six	217722	FBLN5	NG_008254	Homo sapiens fibulin 5 (FBLN5), RefSeqGene (LRG_364) on chromosome 14	Extracellular Space	other	AK344510	Sus scrofa mRNA, clone:DCI010067A11, expressed in dendritic cells (immature)
six	217782	GTF2F1	AK302178	Homo sapiens cDNA FLJ50288 complete cds, highly similar to Transcription initiation factor IIF alpha subunit (EC 2,7,11,1)	Nucleus	transcription regulator	XM_003123111	PREDICTED: Sus scrofa general transcription factor IIF, polypeptide 1, 74kDa (GTF2F1), transcript variant X1, mRNA
six	217808	BICC1	XM_005270170	PREDICTED: Homo sapiens bicaudal C homolog 1 (Drosophila) (BICC1), transcript variant X5, mRNA	Other	other	CU606904	Pig DNA sequence from clone CH242-378E11 on chromosome X, complete sequence

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six	217877	FTL	BC067772	Homo sapiens ferritin, light polypeptide, mRNA (cDNA clone IMAGE:5313340), with apparent retained intron	Cytoplasm	enzyme	XM_005664699	PREDICTED: Sus scrofa ferritin, light polypeptide (FTL), transcript variant X1, mRNA
six	217880	PURG	XM_005273484	PREDICTED: Homo sapiens purine-rich element binding protein G (PURG), transcript variant X2, mRNA	Other	other	XM_003359494	PREDICTED: Sus scrofa purine-rich element binding protein G (PURG), transcript variant X2, mRNA
six	217909	PTMAP4	NG_001181	Homo sapiens prothymosin, alpha pseudogene 4 (PTMAP4) on chromosome 12			AK398489	Sus scrofa mRNA, clone: THY010105B02, expressed in thymus
six	217952	ZNF615	AK294977	Homo sapiens cDNA FLJ61251 complete cds, highly similar to Homo sapiens zinc finger protein 615 (ZNF615), mRNA	Nucleus	other	FP102555	Pig DNA sequence from clone CH242-134G20 on chromosome 6, complete sequence
six	217974	MS4A10	BC137263	Homo sapiens membrane-spanning 4-domains, subfamily A, member 10, mRNA (cDNA clone MGC:168883 IMAGE:9021260), complete cds	Other	other	XR_301618	PREDICTED: Sus scrofa uncharacterized LOC102163819 (LOC102163819), misc_RNA
six	217976	TMEM126A	NG_017157	Homo sapiens transmembrane protein 126A (TMEM126A), RefSeqGene on chromosome 11	Cytoplasm	other	XM_003359399	PREDICTED: Sus scrofa protein tyrosine phosphatase, receptor type, E (PTPRE), transcript variant X2, mRNA
six	218030		FM206294	Cloning vector pchilGHG1			AK396333	Sus scrofa mRNA, clone: PST010011B06, expressed in prostate
six	218035	KAT6A	XM_005273649	PREDICTED: Homo sapiens K(lysine) acetyltransferase 6A (KAT6A), transcript variant X1, mRNA	Nucleus	enzyme	XM_005674537	PREDICTED: Sus scrofa K(lysine) acetyltransferase 6A (KAT6A), partial mRNA
six	218063	ZNF575	XM_006723155	PREDICTED: Homo sapiens zinc finger protein 575 (ZNF575), transcript variant X3, mRNA	Nucleus	other	AK394835	Sus scrofa mRNA, clone: OVR010030F03, expressed in ovary
six	218065	LRRC8A	XM_006717186	PREDICTED: Homo sapiens leucine rich repeat containing 8 family, member A (LRRC8A), transcript variant X4, mRNA	Extracellular Space	other	XM_005660499	PREDICTED: Sus scrofa leucine rich repeat containing 8 family, member A (LRRC8A), transcript variant X3, mRNA
six	218087	GTF3C5	NM_001286709	Homo sapiens general transcription factor IIIC, polypeptide 5, 63kDa (GTF3C5), transcript variant 3, mRNA	Nucleus	transcription regulator	XM_005660543	PREDICTED: Sus scrofa general transcription factor IIIC, polypeptide 5, 63kDa (GTF3C5), partial mRNA
six	218088		KC911571	Homo sapiens haplogroup K2b* mitochondrion, complete genome			KF569218	Sus scrofa breed DLY mitochondrion, complete genome
six	218106		FM206294	Cloning vector pchilGHG1			XM_005660221	PREDICTED: Sus scrofa signaling threshold regulating transmembrane adaptor 1 (SIT1), mRNA
six	218112	RAP1A	XR_246288	PREDICTED: Homo sapiens RAP1A, member of RAS oncogene family (RAP1A), transcript variant X2, misc_RNA	Cytoplasm	enzyme	XM_003355241	PREDICTED: Sus scrofa RAP1A, member of RAS oncogene family (RAP1A), transcript variant 2, mRNA

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six	218115		EU154352	Homo sapiens microRNA 29b-2/29c, precursor RNA, microRNA 29b-2 and microRNA 29c, complete sequence; alternatively spliced			CU179728	Pig DNA sequence from clone CH242-92P17 on chromosome 4, complete sequence
six	218140	ZNF703	AP006291	Homo sapiens genomic DNA, chromosome 8 clone:RP11-346L1, complete sequence			XM_003133370	PREDICTED: Sus scrofa zinc finger protein 703 (ZNF703), mRNA
six	218185	VPS9D1	AC026443	Homo sapiens chromosome 5 clone CTD-2296H22, complete sequence			XM_003355706	PREDICTED: Sus scrofa VPS9 domain containing 1 (VPS9D1), transcript variant X1, mRNA
six	218228	TMEM168	NR_109840	Homo sapiens transmembrane protein 168 (TMEM168), transcript variant 3, long non-coding RNA	Cytoplasm	other	XM_005673235	PREDICTED: Sus scrofa transmembrane protein 168 (TMEM168), transcript variant X2, mRNA
six	218237	POLG2	NG_013029	Homo sapiens polymerase (DNA directed), gamma 2, accessory subunit (POLG2), RefSeqGene on chromosome 17			AK391741	Sus scrofa mRNA, clone: HTMT10019F06, expressed in hypothalamus
six	218284	EHF	XM_005252858	PREDICTED: Homo sapiens ets homologous factor (EHF), transcript variant X2, mRNA	Nucleus	transcription regulator	XM_003353908	PREDICTED: Sus scrofa ets homologous factor (EHF), transcript variant X2, mRNA
six	218289	LIMS2	XM_006712627	PREDICTED: Homo sapiens LIM and senescent cell antigen-like domains 2 (LIMS2), transcript variant X3, mRNA	Cytoplasm	other	XM_003133402	PREDICTED: Sus scrofa LIM and senescent cell antigen-like domains 2 (LIMS2), transcript variant X1, mRNA
six	218293	NOTCH2	NG_008163	Homo sapiens notch 2 (NOTCH2), RefSeqGene on chromosome 1	Plasma Membrane	transcription regulator	FP700184	Pig DNA sequence from clone CH242-223B3 on chromosome X, complete sequence
six	218322	ZNF395	AK026076	Homo sapiens cDNA: FLJ22423 fis, clone HRC08678	Cytoplasm	other	AK235452	Sus scrofa mRNA, clone:OVRM10083F10, expressed in ovary
six	218381	CST2	HQ447594	Synthetic construct Homo sapiens clone IMAGE:100070937; CCSB014833_01 cystatin SA (CST2) gene, encodes complete protein	Extracellular Space	other	AK399954	Sus scrofa mRNA, clone: HTMT10105B05, expressed in hypothalamus
six	218405	MAPK8IP1	XM_005253226	PREDICTED: Homo sapiens mitogen-activated protein kinase 8 interacting protein 1 (MAPK8IP1), transcript variant X1, mRNA	Cytoplasm	other	XM_005660959	PREDICTED: Sus scrofa mitogen-activated protein kinase 8 interacting protein 1 (MAPK8IP1), transcript variant X2, mRNA
six	218406	TMBIM1	AK075465	Homo sapiens cDNA PSEC0158 fis, clone PLACE1008738, moderately similar to PP1201 protein	Cytoplasm	other	XR_308243	PREDICTED: Sus scrofa protein lifeguard 3-like (LOC100739472), misc_RNA
six	218449	SO57	AK301358	Homo sapiens cDNA FLJ54561 complete cds, moderately similar to Homo sapiens anti-rabies SO57 immunoglobulin heavy chain (IGHG1), mRNA			AK231813	Sus scrofa mRNA, clone:LNG010027A08, expressed in lung

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six	218452	PSMC6	BC005390	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 6, mRNA (cDNA clone MGC:12520 IMAGE:3996906), complete cds	Nucleus	peptidase	XM_001928747	PREDICTED: Sus scrofa proteasome (prosome, macropain) 26S subunit, ATPase, 6 (PSMC6), mRNA
six	218503	CD34	AB238231	Homo sapiens CD34 gene for CD34 antigen, complete cds	Plasma Membrane	other	AK389330	Sus scrofa mRNA, clone: ADR010047G06, expressed in adrenal gland
six	218523	CTLA4	XR_241294	PREDICTED: Homo sapiens cytotoxic T-lymphocyte-associated protein 4 (CTLA4), transcript variant X1, misc_RNA >gi 578803751 ref XR_427072.1 PREDICTED: Homo sapiens cytotoxic T-lymphocyte-associated protein 4 (CTLA4), transcript variant X2, misc_RNA	Plasma Membrane	transmembrane receptor	CU466955	Pig DNA sequence from clone CH242-220A17 on chromosome 2, complete sequence
six	218526	PLCB2	AK130831	Homo sapiens cDNA FLJ27321 fis, clone TMS07849, highly similar to 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase beta 2 (EC 3,1,4,11)	Cytoplasm	enzyme	XM_005654463	PREDICTED: Sus scrofa phospholipase C, beta 2 (PLCB2), mRNA
six	218545	FLYWCH1	XM_005255628	PREDICTED: Homo sapiens FLYWCH-type zinc finger 1 (FLYWCH1), transcript variant X1, mRNA	Other	other	XM_003481070	PREDICTED: Sus scrofa FLYWCH-type zinc finger-containing protein 1-like (LOC100736802), mRNA
six	218563	ANKRD54	XM_006724138	PREDICTED: Homo sapiens ankyrin repeat domain 54 (ANKRD54), transcript variant X4, mRNA	Nucleus	transcription regulator	XM_003126032	PREDICTED: Sus scrofa ankyrin repeat domain 54 (ANKRD54), mRNA
six	218572	RPUSD1	BC011783	Homo sapiens RNA pseudouridylate synthase domain containing 1, mRNA (cDNA clone MGC:19600 IMAGE:3937184), complete cds	Other	enzyme	XM_003124698	PREDICTED: Sus scrofa RNA pseudouridylate synthase domain containing 1 (RPUSD1), transcript variant X1, mRNA
six	218615	RPL27A	NM_000990	Homo sapiens ribosomal protein L27a (RPL27A), mRNA	Nucleus	other	AK399793	Sus scrofa mRNA, clone: BMWN10086H08, expressed in bone marrow
six	218617	RPL23AP42	NG_010965	Homo sapiens ribosomal protein L23a pseudogene 42 (RPL23AP42) on chromosome 3			AK394557	Sus scrofa mRNA, clone: MLN010092E01, expressed in mesenteric lymph node
six	218671	PIGW	XM_006721831	PREDICTED: Homo sapiens phosphatidylinositol glycan anchor biosynthesis, class W (PIGW), transcript variant X3, mRNA >gi 578840333 ref XM_006725317.1 PREDICTED: Homo sapiens phosphatidylinositol glycan anchor biosynthesis, class W (PIGW), transcript variant X1, mRNA	Cytoplasm	enzyme	FN677263	Sus scrofa BAC clone CHORI242_150C4_Contig20

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six	218703	MLXIPL	XM_006716019	PREDICTED: Homo sapiens MLX interacting protein-like (MLXIPL), transcript variant X5, mRNA	Nucleus	transcription regulator	AK235197	Sus scrofa mRNA, clone:OVRM10057E01, expressed in ovary
six	218705	EOGT	XM_006713111	PREDICTED: Homo sapiens EGF domain-specific O-linked N-acetylglucosamine (GlcNAc) transferase (EOGT), transcript variant X3, mRNA	Extracellular Space	enzyme	AK235436	Sus scrofa mRNA, clone:OVRM10081G08, expressed in ovary
six	218725		FM206294	Cloning vector pchilGHG1			AK389767	Sus scrofa mRNA, clone: AMP010064H11, expressed in alveolar macrophage
six	218742	GLIS2	BC013195	Homo sapiens, clone IMAGE:4215072, mRNA			XM_005662180	PREDICTED: Sus scrofa GLIS family zinc finger 2 (GLIS2), transcript variant X3, mRNA
six	218746	RPS4X	NM_001007	Homo sapiens ribosomal protein S4, X-linked (RPS4X), mRNA	Cytoplasm	other	AK394418	Sus scrofa mRNA, clone: MLN010025H08, expressed in mesenteric lymph node
six	218753	RPL32	NM_000994	Homo sapiens ribosomal protein L32 (RPL32), transcript variant 1, mRNA	Cytoplasm	other	AK400064	Sus scrofa mRNA, clone: HTMT10145D10, expressed in hypothalamus
six	218777	CSAD	XM_006719447	PREDICTED: Homo sapiens cysteine sulfinic acid decarboxylase (CSAD), transcript variant X9, mRNA	Cytoplasm	enzyme	XM_005652559	PREDICTED: Sus scrofa cysteine sulfinic acid decarboxylase (CSAD), transcript variant X2, mRNA
six	218778	DIAPH3	NG_032693	Homo sapiens diaphanous-related formin 3 (DIAPH3), RefSeqGene on chromosome 13	Cytoplasm	enzyme	CU606910	Pig DNA sequence from clone CH242-6F3 on chromosome X, complete sequence
six	218803	EP300	XM_006724165	PREDICTED: Homo sapiens E1A binding protein p300 (EP300), transcript variant X1, mRNA	Nucleus	transcription regulator	XM_001929213	PREDICTED: Sus scrofa E1A binding protein p300 (EP300), mRNA
six	218840	MRPL55	XM_006711748	PREDICTED: Homo sapiens mitochondrial ribosomal protein L55 (MRPL55), transcript variant X23, mRNA	Cytoplasm	other	XM_005661147	PREDICTED: Sus scrofa 39S ribosomal protein L55, mitochondrial-like (LOC102167055), transcript variant X1, mRNA
six	218883		FM206294	Cloning vector pchilGHG1			AK398199	Sus scrofa mRNA, clone: TES010038D11, expressed in testis
six	218898		CU676346	Synthetic construct Homo sapiens gateway clone IMAGE:100017551 5 read RPL11 mRNA			AK348796	Sus scrofa mRNA, clone:PBL010030A04, expressed in peripheral blood mononuclear cells
six	219056		FM206294	Cloning vector pchilGHG1			FQ976826	Pig DNA sequence from clone PigE-120G11 on chromosome X, complete sequence
six	219172	S100A8	NM_002964	Homo sapiens S100 calcium binding protein A8 (S100A8), mRNA	Cytoplasm	other	AK399753	Sus scrofa mRNA, clone: BMWN10066D02, expressed in bone marrow

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six	219282	CEACAM5	XM_005258413	PREDICTED: Homo sapiens carcinoembryonic antigen-related cell adhesion molecule 5 (CEACAM5), transcript variant X2, mRNA	Plasma Membrane	other	AK344407	Sus scrofa mRNA, clone:DCI010038G08, expressed in dendritic cells (immature)
six	219295	SLC35B4	NM_032826	Homo sapiens solute carrier family 35 (UDP-xylose/UDP-N-acetylglucosamine transporter), member B4 (SLC35B4), mRNA	Cytoplasm	transporter	AK390069	Sus scrofa mRNA, clone: BFLT10023H06, expressed in brain (frontal lobe)
six	219375		AB528671	Synthetic construct DNA, clone: pF1KB6858, Homo sapiens BNIP3 gene for BCL2/adenovirus E1B 19kDa interacting protein 3, without stop codon, in Flexi system			XM_003359404	PREDICTED: Sus scrofa BCL2/adenovirus E1B 19 kDa protein-interacting protein 3-like (LOC100624868), mRNA
six	219376	R26667	AC002997	Human DNA from chromosome 19-specific cosmid R26667, genomic sequence, complete sequence			XM_005664468	PREDICTED: Sus scrofa free fatty acid receptor 2 (FFAR2), transcript variant X2, mRNA
six	219398	MTMR7	XM_006716414	PREDICTED: Homo sapiens myotubularin related protein 7 (MTMR7), transcript variant X1, mRNA	Cytoplasm	phosphatase	XM_003134197	PREDICTED: Sus scrofa myotubularin related protein 7 (MTMR7), transcript variant X1, mRNA
six	219399	SYNE1	XM_006715425	PREDICTED: Homo sapiens spectrin repeat containing, nuclear envelope 1 (SYNE1), transcript variant X19, mRNA	Nucleus	other	XM_003480228	PREDICTED: Sus scrofa spectrin repeat containing, nuclear envelope 1 (SYNE1), mRNA
six	219414		FM206294	Cloning vector pchiIGHG1			FP015983	Pig DNA sequence from clone CH242-74L12 on chromosome 2, complete sequence
six	219416	CPLX1	AB593095	Homo sapiens CPLX1 mRNA for complexin-1, complete cds, clone: HP06406-RBb63D03	Plasma Membrane	transporter	CU633285	Pig DNA sequence from clone CH242-375G2 on chromosome X, complete sequence
six	219425	BRAT1	BC040704	Homo sapiens chromosome 7 open reading frame 27, mRNA (cDNA clone IMAGE:5740490), complete cds	Nucleus	other	XM_003354434	PREDICTED: Sus scrofa BRCA1-associated ATM activator 1 (BRAT1), mRNA
six	219447	RPL23A	NM_000984	Homo sapiens ribosomal protein L23a (RPL23A), mRNA	Other	other	XM_003361281	PREDICTED: Sus scrofa 60S ribosomal protein L23a-like (LOC100623805), mRNA
six	219469	EEF1A1	BC021686	Homo sapiens eukaryotic translation elongation factor 1 alpha 1, mRNA (cDNA clone MGC:24241 IMAGE:3930863), complete cds	Cytoplasm	translation regulator	XM_005654402	PREDICTED: Sus scrofa eukaryotic translation elongation factor 1 alpha 1 (EEF1A1), transcript variant X2, mRNA
six	219481		NG_004755	Homo sapiens chromosome Y palindromes P1, P2, P3 and inverted repeat IR2 (P1-P2-P3-IR2@) on chromosome Y			CU457467	Pig DNA sequence from clone CH242-228O2 on chromosome 5, complete sequence
six	219493	CRISPLD2	XM_005256190	PREDICTED: Homo sapiens cysteine-rich secretory protein LCCL domain containing 2 (CRISPLD2), transcript variant X1, mRNA	Cytoplasm	other	AK236447	Sus scrofa mRNA, clone:OVRM10193D12, expressed in ovary

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six	219511	CTHRC1	AY136825	Homo sapiens collagen triple helix repeat-containing protein 1 (CTHRC1) mRNA, complete cds	Extracellular Space	other	AY609389	Sus scrofa clone Clu_100580.scr.msk.p1.Contig2, mRNA sequence
six	219519	TRMT11	AF532977	Homo sapiens putative RNA methylase mRNA, complete cds	Other	other	XM_001928661	PREDICTED: Sus scrofa tRNA methyltransferase 11 homolog (S. cerevisiae) (TRMT11), transcript variant X1, mRNA
six	219591	ROCK2	XM_005246190	PREDICTED: Homo sapiens Rho-associated, coiled-coil containing protein kinase 2 (ROCK2), transcript variant X1, mRNA	Cytoplasm	kinase	L36913	Pig microsatellite DNA (CA repeat)
six	219605	RP11-680J17	AC087413	Homo sapiens BAC clone RP11-680J17 from 4, complete sequence			XM_003129319	PREDICTED: Sus scrofa atonal homolog 1 (Drosophila) (ATOH1), mRNA
six	219621	RPL15	NM_001253384	Homo sapiens ribosomal protein L15 (RPL15), transcript variant 6, mRNA	Cytoplasm	other	NM_001244065	Sus scrofa ribosomal protein L15 (RPL15), mRNA >gi 115545777 dbj AK234210.1 Sus scrofa mRNA, clone:OVR010027H10, expressed in ovary
six	219629	KRTAP11-1	NM_175858	Homo sapiens keratin associated protein 11-1 (KRTAP11-1), mRNA >gi 25005257 emb AJ457065.1 Homo sapiens mRNA for high sulfur keratin associated protein 11.1 (KRTAP11.1 gene)	Other	other	XM_003358920	PREDICTED: Sus scrofa keratin-associated protein 11-1-like (LOC100626583), mRNA
six	219640		AL450311	Human DNA sequence from clone RP11-343J3 on chromosome 10, complete sequence			JN601075	Sus scrofa isolate 1-37-193 breed Yorkshire mitochondrion, complete genome
six	219645	LOC100420572	NG_023649	Homo sapiens glutathione S-transferase alpha 5 pseudogene (LOC100420572) on chromosome 2			XM_003128793	PREDICTED: Sus scrofa glutathione S-transferase A4-like (LOC100510917), mRNA
six	219666	SRP68	NR_048541	Homo sapiens signal recognition particle 68kDa (SRP68), transcript variant 4, non-coding RNA	Nucleus	other	XM_005653867	PREDICTED: Sus scrofa signal recognition particle 68kDa (SRP68), mRNA
six	219709	LOC646719	AK000901	Homo sapiens cDNA FLJ10039 fis, clone HEMBA1000975	Other	other	XM_005672419	PREDICTED: Sus scrofa uncharacterized LOC102165459 (LOC102165459), partial mRNA
six	219749		NG_012263	Homo sapiens NIMA-related kinase 8 (NEK8), RefSeqGene on chromosome 17			XM_005658484	PREDICTED: Sus scrofa serine/threonine-protein kinase Nek8-like (LOC100737658), mRNA
six	219783		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			XR_299148	PREDICTED: Sus scrofa uncharacterized LOC100624137 (LOC100624137), transcript variant X2, misc_RNA

cluster	array id	gene symbols	HSA accession	HSA description	location	property	SSC accession	SSC description
six	219820	HSPD1	XM_005246518	PREDICTED: Homo sapiens heat shock 60kDa protein 1 (chaperonin) (HSPD1), transcript variant X1, mRNA	Cytoplasm	enzyme	AK239725	Sus scrofa mRNA, clone:THY010126A12, expressed in thymus
six	219823	LOR	NG_011818	Homo sapiens lorocrin (LOR), RefSeqGene on chromosome 1	Cytoplasm	other	XM_003355158	PREDICTED: Sus scrofa lorocrin (LOR), mRNA
six	219847	RPL23AP42	NG_010965	Homo sapiens ribosomal protein L23a pseudogene 42 (RPL23AP42) on chromosome 3			AK392211	Sus scrofa mRNA, clone: HTMT10056G09, expressed in hypothalamus
six	219856	RPL34	XM_006714287	PREDICTED: Homo sapiens ribosomal protein L34 (RPL34), transcript variant X2, mRNA	Cytoplasm	other	XM_005666943	PREDICTED: Sus scrofa ribosomal protein L34 (RPL34), transcript variant X2, mRNA
six	219911	SPARC	NM_003118	Homo sapiens secreted protein, acidic, cysteine-rich (osteonectin) (SPARC), mRNA	Extracellular Space	other	AK400063	Sus scrofa mRNA, clone: HTMT10145B07, expressed in hypothalamus
six	219915		AC246972	Homo sapiens BAC clone CH17-203B2 from chromosome 1, complete sequence			XR_303128	PREDICTED: Sus scrofa uncharacterized LOC100513405 (LOC100513405), misc_RNA
six	219928	MRPL54	NM_172251	Homo sapiens mitochondrial ribosomal protein L54 (MRPL54), mRNA	Cytoplasm	other	XM_003123056	PREDICTED: Sus scrofa mitochondrial ribosomal protein L54 (MRPL54), mRNA
six	219930	FAM122B	AK297720	Homo sapiens cDNA FLJ57750 complete cds	Other	other	XM_005674515	PREDICTED: Sus scrofa family with sequence similarity 122B (FAM122B), mRNA
six	219931	GJB5	XM_005270751	PREDICTED: Homo sapiens gap junction protein, beta 5, 31.1kDa (GJB5), transcript variant X1, mRNA	Plasma Membrane	transporter	XM_005653383	PREDICTED: Sus scrofa gap junction beta-5 protein-like (LOC100514847), transcript variant X5, mRNA
six	219932	ADAMTS15	AK123049	Homo sapiens cDNA FLJ41054 fis, clone STOMA1000189	Extracellular Space	peptidase	XM_003130081	PREDICTED: Sus scrofa ADAM metallopeptidase with thrombospondin type 1 motif, 15 (ADAMTS15), mRNA
six	219934	MAGI3	XM_005270737	PREDICTED: Homo sapiens membrane associated guanylate kinase, WW and PDZ domain containing 3 (MAGI3), transcript variant X2, mRNA	Cytoplasm	kinase	XM_005655429	PREDICTED: Sus scrofa membrane associated guanylate kinase, WW and PDZ domain containing 3 (MAGI3), transcript variant X5, mRNA
six	219968	ZNF205	AF060865	Homo sapiens chromosome 16 zinc finger protein ZNF210 (ZNF210) mRNA, complete cds	Nucleus	other	AK237156	Sus scrofa mRNA, clone:SPL010005C07, expressed in spleen
six	220002	RPL12P4	NG_000962	Homo sapiens ribosomal protein L12 pseudogene 4 (RPL12P4) on chromosome 20			XM_005660442	PREDICTED: Sus scrofa ribosomal protein L12 (RPL12), mRNA
six	220012	CCDC37	XM_006713623	PREDICTED: Homo sapiens coiled-coil domain containing 37 (CCDC37), transcript variant X9, mRNA	Other	other	XM_005666121	PREDICTED: Sus scrofa coiled-coil domain containing 37 (CCDC37), transcript variant X8, mRNA
six	220057	CDK11B	XM_006711071	PREDICTED: Homo sapiens cyclin-dependent kinase 11B (CDK11B), transcript variant X11, mRNA	Nucleus	kinase	XM_005653364	PREDICTED: Sus scrofa cyclin-dependent kinase 11B (CDK11B), mRNA

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six	220081	NME7	XM_005245106	PREDICTED: Homo sapiens NME/NM23 family member 7 (NME7), transcript variant X1, mRNA	Cytoplasm	kinase	AK392662	Sus scrofa mRNA, clone: HTMT10093C09, expressed in hypothalamus
six	220083	RPL14P1	NG_009597	Homo sapiens ribosomal protein L14 pseudogene 1 (RPL14P1) on chromosome 12			AK400080	Sus scrofa mRNA, clone: HTMT10150E11, expressed in hypothalamus
six	220091	LRRC46	XM_005257775	PREDICTED: Homo sapiens leucine rich repeat containing 46 (LRRC46), transcript variant X1, mRNA	Other	other	XM_005653948	PREDICTED: Sus scrofa leucine rich repeat containing 46 (LRRC46), transcript variant X3, mRNA
six	220132	UCP2	U94592	Human uncoupling protein homolog (UCPH) mRNA, complete cds	Cytoplasm	transporter	XR_307097	PREDICTED: Sus scrofa uncharacterized LOC100627758 (LOC100627758), misc_RNA
six	220201	GIMAP2	HQ447229	Synthetic construct Homo sapiens clone IMAGE:100070532; CCSB007383_01 GTPase, IMAP family member 2 (GIMAP2) gene, encodes complete protein	Cytoplasm	other	XM_003134585	PREDICTED: Sus scrofa GTPase, IMAP family member 2 (GIMAP2), transcript variant 1, mRNA
six	220254		AC099518	Homo sapiens chromosome 16 clone RP11-626G11, complete sequence			AK393705	Sus scrofa mRNA, clone: KDN010094C08, expressed in kidney
six	220303	SPAG17	XM_006710431	PREDICTED: Homo sapiens sperm associated antigen 17 (SPAG17), transcript variant X6, mRNA	Other	other	XM_001927306	PREDICTED: Sus scrofa sperm associated antigen 17 (SPAG17), partial mRNA
six	220316	ACTG1P10	NG_003039	Homo sapiens actin, gamma 1 pseudogene 10 (ACTG1P10) on chromosome X			XM_003357928	PREDICTED: Sus scrofa actin, beta (ACTB), mRNA
six	220372	SERPINH1	BC036298	Homo sapiens serpin peptidase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1), mRNA (cDNA clone MGC:25195 IMAGE:4748644), complete cds	Extracellular Space	other	NM_001244132	Sus scrofa serpin peptidase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1) (SERPINH1), mRNA
six	220374	ZNF609	NM_015042	Homo sapiens zinc finger protein 609 (ZNF609), mRNA	Other	other	XM_005659499	PREDICTED: Sus scrofa zinc finger protein 609 (ZNF609), transcript variant X5, mRNA
six	220397	COX6A2	NM_005205	Homo sapiens cytochrome c oxidase subunit VIa polypeptide 2 (COX6A2), mRNA	Cytoplasm	enzyme	XM_003124455	PREDICTED: Sus scrofa cytochrome c oxidase subunit 6A2, mitochondrial-like (LOC100519594), transcript variant 2, mRNA
six	220403	HM13	XM_005260562	PREDICTED: Homo sapiens histocompatibility (minor) 13 (HM13), transcript variant X1, mRNA	Cytoplasm	peptidase	XM_005672822	PREDICTED: Sus scrofa histocompatibility (minor) 13 (HM13), mRNA
six	220405	KIRREL2	AB593116	Homo sapiens KIRREL2 mRNA for kin of IRRE-like protein 2, complete cds, clone: HP07245-RBd21E09	Plasma Membrane	other	XM_003127072	PREDICTED: Sus scrofa kin of IRRE like 2 (Drosophila) (KIRREL2), transcript variant 1, mRNA
six	220430	DCN	XM_006719270	PREDICTED: Homo sapiens decorin (DCN), transcript variant X2, mRNA	Extracellular Space	other	XM_005664271	PREDICTED: Sus scrofa decorin (DCN), transcript variant X3, mRNA

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six	220448	CEP76	EF445040	Homo sapiens centrosomal protein of 76 kDa (CEP76) gene, complete cds; and tumor necrosis factor superfamily, member 5-induced protein 1 (TNFSF5IP1) gene, complete cds, alternatively spliced			XM_005665275	PREDICTED: Sus scrofa centrosomal protein 76kDa (CEP76), transcript variant X3, mRNA
six	220470	LMOD1	NM_012134	Homo sapiens leiomodlin 1 (smooth muscle) (LMOD1), mRNA	Cytoplasm	other	XM_005664308	PREDICTED: Sus scrofa Gse1 coiled-coil protein homolog (mouse) (KIAA0182), mRNA
six	220475	FABP3P2	NG_001286	Homo sapiens fatty acid binding protein 3, pseudogene 2 (FABP3P2) on chromosome 13			XM_005665168	PREDICTED: Sus scrofa fatty acid-binding protein, heart-like (LOC100737528), mRNA
six	220507		AC244090	Homo sapiens BAC clone CH17-340M24 from chromosome x, complete sequence			AK391900	Sus scrofa mRNA, clone: HTMT10031G07, expressed in hypothalamus
six	220517	ADCK2	AF131745	Homo sapiens clone 25110 mRNA sequence	Cytoplasm	kinase	XM_005654271	PREDICTED: Sus scrofa aarF domain containing kinase 2 (ADCK2), transcript variant X2, mRNA
six	220538	RPS2P17	NG_010359	Homo sapiens ribosomal protein S2 pseudogene 17 (RPS2P17) on chromosome 2			XM_003362213	PREDICTED: Sus scrofa ribosomal protein S2e (RPS2E), mRNA
six	220554	AMT	NG_015986	Homo sapiens aminomethyltransferase (AMT), RefSeqGene on chromosome 3	Cytoplasm	enzyme	CU914651	Pig DNA sequence from clone CH242-259D15 on chromosome 2, complete sequence
six	220580		FM206294	Cloning vector pchilGHG1			L36913	Pig microsatellite DNA (CA repeat)
six	220585	DAP	NG_011546	Homo sapiens death-associated protein (DAP), RefSeqGene on chromosome 5	Cytoplasm	transcription regulator	XM_003134178	PREDICTED: Sus scrofa death-associated protein 1-like (LOC100523520), transcript variant X1, mRNA
six	220604	GAPDH	NM_001289746	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPDH), transcript variant 4, mRNA	Cytoplasm	enzyme	AK394607	Sus scrofa mRNA, clone: MLTL10012G05, expressed in longissimus muscle
six	220614	RANBP17	NM_022897	Homo sapiens RAN binding protein 17 (RANBP17), mRNA	Nucleus	transporter	XM_005657639	PREDICTED: Sus scrofa RAN binding protein 17 (RANBP17), mRNA
six	220638	RBFOX1	FM206294	Cloning vector pchilGHG1			XM_003124615	PREDICTED: Sus scrofa RNA binding protein, fox-1 homolog (C, elegans) 1 (RBFOX1), transcript variant 1, mRNA
six	220687	SLC27A3	XM_005244852	PREDICTED: Homo sapiens solute carrier family 27 (fatty acid transporter), member 3 (SLC27A3), transcript variant X2, mRNA >gi 530430668 ref XM_005276734.1 PREDICTED: Homo sapiens solute carrier family 27 (fatty acid transporter), member 3 (SLC27A3), transcript variant X2, mRNA	Cytoplasm	transporter	XM_005663417	PREDICTED: Sus scrofa solute carrier family 27 (fatty acid transporter), member 3 (SLC27A3), mRNA

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six	220720	STK40	NM_001282547	Homo sapiens serine/threonine kinase 40 (STK40), transcript variant 2, mRNA	Cytoplasm	kinase	XM_005658582	PREDICTED: Sus scrofa cytoplasmic dynein 1 heavy chain 1-like (LOC102166880), partial mRNA
six	220757	FAM213B	NM_001195736	Homo sapiens family with sequence similarity 213, member B (FAM213B), transcript variant 1, mRNA	Cytoplasm	enzyme	AK392612	Sus scrofa mRNA, clone: HTMT10089F10, expressed in hypothalamus
six	220783	STAG1	XM_006713471	PREDICTED: Homo sapiens stromal antigen 1 (STAG1), transcript variant X1, mRNA	Nucleus	other	XM_005669866	PREDICTED: Sus scrofa stromal antigen 1 (STAG1), mRNA
six	220879	TRMU	NR_104241	Homo sapiens tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase (TRMU), transcript variant 4, non-coding RNA	Cytoplasm	enzyme	XM_005655473	PREDICTED: Sus scrofa tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase (TRMU), mRNA
six	220935	SLC35A3	XM_005270691	PREDICTED: Homo sapiens solute carrier family 35 (UDP-N-acetylglucosamine (UDP-GlcNAc) transporter), member A3 (SLC35A3), transcript variant X1, mRNA	Cytoplasm	transporter	CT797454	Pig DNA sequence from clone CH242-173D7 on chromosome 7, complete sequence
six	220957	LMOD2	AK299434	Homo sapiens cDNA FLJ58570 complete cds, highly similar to Mus musculus leiomodoin 2 (cardiac) (Lmod2), mRNA	Other	other	XM_005673207	PREDICTED: Sus scrofa leiomodoin 2 (cardiac) (LMOD2), transcript variant X2, mRNA
six	220968	RPL17P7	NG_010702	Homo sapiens ribosomal protein L17 pseudogene 7 (RPL17P7) on chromosome 1			AK394499	Sus scrofa mRNA, clone: MLN010065E12, expressed in mesenteric lymph node
six	220996	CIPC	BC037300	Homo sapiens KIAA1737, mRNA (cDNA clone MGC:33650 IMAGE:4827858), complete cds	Nucleus	other	XM_005666364	PREDICTED: Sus scrofa KIAA1737 ortholog (KIAA1737), transcript variant X5, mRNA
six	220998	GRASP	XM_006719261	PREDICTED: Homo sapiens GRP1 (general receptor for phosphoinositides 1)-associated scaffold protein (GRASP), transcript variant X2, mRNA	Plasma Membrane	other	XM_003126148	PREDICTED: Sus scrofa GRP1 (general receptor for phosphoinositides 1)-associated scaffold protein (GRASP), mRNA
six	221034	USP47	NM_001282659	Homo sapiens ubiquitin specific peptidase 47 (USP47), transcript variant 1, mRNA	Cytoplasm	peptidase	KF971862	Sus scrofa domesticus breed Min mitochondrion, complete genome
six	221104	RGR	NM_001012720	Homo sapiens retinal G protein coupled receptor (RGR), transcript variant 2, mRNA	Plasma Membrane	G-protein coupled receptor	XM_005671156	PREDICTED: Sus scrofa retinal G protein coupled receptor (RGR), transcript variant X2, mRNA
six	221113	EXO5	XM_005271128	PREDICTED: Homo sapiens exonuclease 5 (EXO5), transcript variant X4, mRNA	Other	enzyme	XM_005658340	PREDICTED: Sus scrofa exonuclease V-like (LOC100622576), transcript variant X2, mRNA
six	221115	PPIL2	XM_005261448	PREDICTED: Homo sapiens peptidylprolyl isomerase (cyclophilin)-like 2 (PPIL2), transcript variant X3, mRNA	Nucleus	enzyme	XM_003132990	PREDICTED: Sus scrofa peptidylprolyl isomerase (cyclophilin)-like 2 (PPIL2), transcript variant X2, mRNA

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six	221139	SYNC	NG_012421	Homo sapiens syncoilin, intermediate filament protein (SYNC), RefSeqGene on chromosome 1	Cytoplasm	other	XM_003356291	PREDICTED: Sus scrofa syncoilin, intermediate filament protein (SYNC), transcript variant X1, mRNA
six	221171		AK125343	Homo sapiens cDNA FLJ43353 fis, clone NT2RP7009867			XM_003134361	PREDICTED: Sus scrofa sulfiredoxin-1-like (LOC100517736), mRNA
six	221178	VWA8	XM_006719791	PREDICTED: Homo sapiens von Willebrand factor A domain containing 8 (VWA8), transcript variant X2, mRNA	Other	other	AK349393	Sus scrofa mRNA, clone:PTG010062C12, expressed in pituitary gland
six	221179		AC025260	Homo sapiens 12 BAC RP11-356O22 (Roswell Park Cancer Institute Human BAC Library) complete sequence			CT737383	Pig DNA sequence from clone CH242-215D15 on chromosome 7, complete sequence
six	221184	RPS16P10	NG_009607	Homo sapiens ribosomal protein S16 pseudogene 10 (RPS16P10) on chromosome 19			XM_005657491	PREDICTED: Sus scrofa ribosomal protein S16 (RPS16), transcript variant X1, mRNA
six	221215	PLXNB2	AK123131	Homo sapiens cDNA FLJ41136 fis, clone BRACE2029112, moderately similar to Homo sapiens mRNA for plexin-B1 plasma membrane receptor	Plasma Membrane	transmembrane receptor	XM_005655551	PREDICTED: Sus scrofa peripherin (PRPH), transcript variant X2, mRNA
six	221239	NFIC	XM_006722759	PREDICTED: Homo sapiens nuclear factor I/C (CCAAT-binding transcription factor) (NFIC), transcript variant X3, mRNA	Nucleus	transcription regulator	XM_005654726	PREDICTED: Sus scrofa nuclear factor I/C (CCAAT-binding transcription factor) (NFIC), mRNA
six	221253	AP1M1	NM_001130524	Homo sapiens adaptor-related protein complex 1, mu 1 subunit (AP1M1), transcript variant 1, mRNA	Cytoplasm	transporter	XM_005661197	PREDICTED: Sus scrofa adaptor-related protein complex 1, mu 1 subunit (AP1M1), transcript variant X1, mRNA
six	221331	EVPL	NM_001988	Homo sapiens envoplakin (EVPL), mRNA	Plasma Membrane	other	XM_003131184	PREDICTED: Sus scrofa envoplakin (EVPL), mRNA
seven	100035	CYSTM1	NM_032412	Homo sapiens cysteine-rich transmembrane module containing 1 (CYSTM1), mRNA	Cytoplasm	other	AK343353	Sus scrofa mRNA, clone:ADR010046G06, expressed in adrenal gland
seven	100725		KC879692	Homo sapiens neanderthalensis mitochondrion, complete genome			KF767443	Sus scrofa breed Wuzhishan mitochondrion, complete genome
seven	100911	PEX19	NR_036493	Homo sapiens peroxisomal biogenesis factor 19 (PEX19), transcript variant 3, long non-coding RNA	Cytoplasm	other	XM_001928869	PREDICTED: Sus scrofa peroxisomal biogenesis factor 19 (PEX19), transcript variant 1, mRNA
seven	101206	HBB	NM_000518	Homo sapiens hemoglobin, beta (HBB), mRNA	Cytoplasm	transporter	AK236946	Sus scrofa mRNA, clone:PBL010053C02, expressed in peripheral blood mononuclear cell
seven	101831	TRHDE	BC023230	Homo sapiens thyrotropin-releasing hormone degrading enzyme, mRNA (cDNA clone IMAGE:3866929)	Plasma Membrane	peptidase	XM_003355521	PREDICTED: Sus scrofa thyrotropin-releasing hormone degrading enzyme (TRHDE), partial mRNA
seven	102026	TCF4	NM_001243226	Homo sapiens transcription factor 4 (TCF4), transcript variant 3, mRNA	Nucleus	transcription regulator	XM_005661419	PREDICTED: Sus scrofa transcription factor 3 (TCF3), mRNA

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seven	102227	MALAT1	BX640764	Homo sapiens genomic DNA; cDNA DKFZp686J04183 (from clone DKFZp686J04183)	Nucleus	other	AK399572	Sus scrofa mRNA, clone: DCI010070D04, expressed in dendritic cells (immature)
seven	102779	ARFGAP3	XM_005261525	PREDICTED: Homo sapiens ADP-ribosylation factor GTPase activating protein 3 (ARFGAP3), transcript variant X1, mRNA	Cytoplasm	transporter	AK396053	Sus scrofa mRNA, clone: PBL010037E03, expressed in peripheral blood lymphocytes
seven	102780	NFAT5	XM_005255777	PREDICTED: Homo sapiens nuclear factor of activated T-cells 5, tonicity-responsive (NFAT5), transcript variant X1, mRNA	Nucleus	transcription regulator	AK397127	Sus scrofa mRNA, clone: PTG010097D07, expressed in pituitary gland
seven	102842	ZYG11B	XM_006710898	PREDICTED: Homo sapiens zyg-11 family member B, cell cycle regulator (ZYG11B), transcript variant X1, mRNA	Other	other	AC097231	Sus scrofa clone RP44-504L18, complete sequence
seven	102947	A2MP1	NR_040112	Homo sapiens alpha-2-macroglobulin pseudogene 1 (A2MP1), non-coding RNA	Other	other	XM_001925175	PREDICTED: Sus scrofa pregnancy-zone protein (PZP), mRNA
seven	102949	DYNC111	BC032945	Homo sapiens dynein, cytoplasmic 1, intermediate chain 1, mRNA (cDNA clone MGC:33107 IMAGE:4801387), complete cds	Cytoplasm	other	XM_003130159	PREDICTED: Sus scrofa dynein, cytoplasmic 1, intermediate chain 1 (DYNC111), partial mRNA
seven	102960	PTPRF	AP002986	Homo sapiens genomic DNA, chromosome 11q, clone:RP11-121M22, complete sequence			XM_003126749	PREDICTED: Sus scrofa protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 2 (PPFIA2), transcript variant 1, mRNA
seven	103077	TMEM66	AK315956	Homo sapiens cDNA, FLJ78855 complete cds, highly similar to Transmembrane protein 66 precursor	Cytoplasm	ion channel	XM_001924775	PREDICTED: Sus scrofa transmembrane protein 66 (TMEM66), mRNA
seven	103120	IGF1R	XM_005254897	PREDICTED: Homo sapiens insulin-like growth factor 1 receptor (IGF1R), transcript variant X2, mRNA	Plasma Membrane	transmembrane receptor	FP101981	Pig DNA sequence from clone CH242-191F5 on chromosome 2, complete sequence
seven	103573	EBI3	EF064740	Homo sapiens Epstein-Barr virus induced gene 3 (EBI3) gene, complete cds			XM_005661337	PREDICTED: Sus scrofa Epstein-Barr virus induced 3 (EBI3), transcript variant X3, mRNA
seven	104109	PPP1R3C	NM_005398	Homo sapiens protein phosphatase 1, regulatory subunit 3C (PPP1R3C), mRNA	Cytoplasm	phosphatase	XM_005671280	PREDICTED: Sus scrofa protein phosphatase 1, regulatory subunit 3C (PPP1R3C), mRNA
seven	104395	EGFL7	NR_046367	Homo sapiens EGF-like-domain, multiple 7 (EGFL7), transcript variant 5, long non-coding RNA	Extracellular Space	other	XM_005652718	PREDICTED: Sus scrofa EGF-like-domain, multiple 7 (EGFL7), transcript variant X5, mRNA
seven	104527	EPS15	BC054006	Homo sapiens epidermal growth factor receptor pathway substrate 15, mRNA (cDNA clone MGC:61536 IMAGE:6164633), complete cds	Cytoplasm	other	XM_005665439	PREDICTED: Sus scrofa epidermal growth factor receptor pathway substrate 15 (EPS15), transcript variant X2, mRNA

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seven	104574	ADAMTS10	XR_430157	PREDICTED: Homo sapiens ADAM metalloproteinase with thrombospondin type 1 motif, 10 (ADAMTS10), transcript variant X7, misc_RNA	Extracellular Space	peptidase	XM_005654762	PREDICTED: Sus scrofa ADAM metalloproteinase with thrombospondin type 1 motif, 10 (ADAMTS10), transcript variant X6, mRNA
seven	105368	CREB5	XM_005249906	PREDICTED: Homo sapiens cAMP responsive element binding protein 5 (CREB5), transcript variant X1, mRNA	Nucleus	transcription regulator	XM_003134822	PREDICTED: Sus scrofa cAMP responsive element binding protein 5 (CREB5), transcript variant 1, mRNA
seven	200498	KBTBD8	XM_005264771	PREDICTED: Homo sapiens kelch repeat and BTB (POZ) domain containing 8 (KBTBD8), transcript variant X1, mRNA	Other	other	XM_003132305	PREDICTED: Sus scrofa kelch repeat and BTB (POZ) domain containing 8 (KBTBD8), mRNA
seven	201344	GBA	M19285	Human glucocerebrosidase mRNA, complete cds	Cytoplasm	enzyme	AK397675	Sus scrofa mRNA, clone: SPL010034F09, expressed in spleen
seven	201630	DUSP16	XM_006719155	PREDICTED: Homo sapiens dual specificity phosphatase 16 (DUSP16), transcript variant X2, mRNA	Nucleus	phosphatase	AK240286	Sus scrofa mRNA, clone:UTR010050E08, expressed in uterus
seven	201728	FUT8	XM_006720097	PREDICTED: Homo sapiens fucosyltransferase 8 (alpha (1,6) fucosyltransferase) (FUT8), transcript variant X2, mRNA	Cytoplasm	enzyme	XM_005666323	PREDICTED: Sus scrofa fucosyltransferase 8 (alpha (1,6) fucosyltransferase) (FUT8), transcript variant X4, mRNA
seven	202252	SMIM11P1	NG_012759	Homo sapiens small integral membrane protein 11 pseudogene 1 (SMIM11P1) on chromosome 6			XM_005657152	PREDICTED: Sus scrofa small integral membrane protein 11 (SMIM11), transcript variant X2, mRNA
seven	202257	EGFL6	NM_001167890	Homo sapiens EGF-like-domain, multiple 6 (EGFL6), transcript variant 2, mRNA	Extracellular Space	other	AK347924	Sus scrofa mRNA, clone:OVRM10019F07, expressed in ovary
seven	202275	TCP1	CU674328	Synthetic construct Homo sapiens gateway clone IMAGE:100023451 5' read TCP1 mRNA			NM_001243427	Sus scrofa t-complex 1 (TCP1), mRNA
seven	202277	DOPEY2	XM_006724068	PREDICTED: Homo sapiens dopey family member 2 (DOPEY2), transcript variant X1, mRNA	Cytoplasm	other	XM_003132763	PREDICTED: Sus scrofa dopey family member 2 (DOPEY2), mRNA
seven	202280		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			FP326695	Pig DNA sequence from clone CH242-348M2 on chromosome X, complete sequence
seven	202292		AL356275	Human DNA sequence from clone RP11-328D5 on chromosome 1, complete sequence			FP339604	Pig DNA sequence from clone CH242-124P4 on chromosome X, complete sequence
seven	202509	RP4-584D14	AC005586	Homo sapiens PAC clone RP4-584D14 from 7, complete sequence			XR_299981	PREDICTED: Sus scrofa uncharacterized LOC102157591 (LOC102157591), misc_RNA
seven	202645		AF131215	Homo sapiens chromosome 8 map 8p23-p22 clone CTC-306G11, complete sequence; and clones CTC-493P15, CTB-91N18, CTC-164D9, partial sequence.			AK394314	Sus scrofa mRNA, clone: LVRM10162D11, expressed in liver

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seven	203550	ETF1	NM_001256302	Homo sapiens eukaryotic translation termination factor 1 (ETF1), transcript variant 2, mRNA	Cytoplasm	translation regulator	XM_005661694	PREDICTED: Sus scrofa eukaryotic translation termination factor 1 (ETF1), transcript variant X2, mRNA
seven	203631	SGCD	XM_006714911	PREDICTED: Homo sapiens sarcoglycan, delta (35kDa dystrophin-associated glycoprotein) (SGCD), transcript variant X4, mRNA	Cytoplasm	other	CT737331	Pig DNA sequence from clone CH242-117J19 on chromosome 7, complete sequence
seven	203827	pRS316-1B9	JN160804	Cloning vector pRS316-1B9, complete sequence			DQ104838	Sus scrofa solute carrier organic anion transporter family member 2A1 (SLCO2A1) gene, exon 6
seven	203930	HNRNPH1	AK124530	Homo sapiens cDNA FLJ42539 fis, clone BRACE3004150, highly similar to Heterogeneous nuclear ribonucleoprotein H	Nucleus	other	XM_005654944	PREDICTED: Sus scrofa heterogeneous nuclear ribonucleoprotein H1 (H) (HNRNPH1), transcript variant X7, mRNA
seven	204019	CASP4	AF078533	Homo sapiens evolutionarily related interleukin-1beta converting enzyme mRNA, complete cds	Other	other	XM_003129812	PREDICTED: Sus scrofa caspase 4, apoptosis-related cysteine peptidase (CASP4), transcript variant X1, mRNA
seven	204060	bWXD187	AC004383	Human Chromosome X clone bWXD187, complete sequence			CU468475	Pig DNA sequence from clone CH242-274C3 on chromosome X, complete sequence
seven	204076	UBASH3B	AP002762	Homo sapiens genomic DNA, chromosome 11 clone:RP11-81117, complete sequence	Other	enzyme	CU914427	Pig DNA sequence from clone CH242-377L5 on chromosome X, complete sequence
seven	204137	CILP	NG_012214	Homo sapiens cartilage intermediate layer protein, nucleotide pyrophosphohydrolase (CILP), RefSeqGene on chromosome 15	Extracellular Space	phosphatase	NM_001164648	Sus scrofa cartilage intermediate layer protein, nucleotide pyrophosphohydrolase (CILP), mRNA
seven	204148	TSR1	AK001396	Homo sapiens cDNA FLJ10534 fis, clone NT2RP2001065	Nucleus	other	AK396803	Sus scrofa mRNA, clone: PST010093G11, expressed in prostate
seven	204575	PRKAR1A	AK124586	Homo sapiens cDNA FLJ42595 fis, clone BRACE3010221, highly similar to cAMP-dependent protein kinase type I-alpha regulatory chain	Cytoplasm	kinase	XM_005656932	PREDICTED: Sus scrofa protein kinase, cAMP-dependent, regulatory, type I, alpha (PRKAR1A), transcript variant X1, mRNA
seven	205588	RYR2	NG_008799	Homo sapiens ryanodine receptor 2 (cardiac) (RYR2), RefSeqGene on chromosome 1			CU469158	Pig DNA sequence from clone CH242-3P11 on chromosome X, complete sequence
seven	205842	DEPDC4	BC100930	Homo sapiens DEP domain containing 4, mRNA (cDNA clone IMAGE:40003964), partial cds	Other	other	XM_005664215	PREDICTED: Sus scrofa DEP domain containing 4 (DEPDC4), mRNA
seven	207032	AKAP6	AL117672	Human chromosome 14 DNA sequence BAC R-142C1 of library RPCI-11 from chromosome 14 of Homo sapiens (Human), complete sequence	Nucleus	other	AJ504726	Sus scrofa mut gene for methylmalonyl-CoA mutase, exons 1-7

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seven	207666	SNHG12	HG491826	TPA: Homo sapiens SNHG12 gene for long non-coding RNA OTTHUMT00000010360.1, antisense			XR_303985	PREDICTED: Sus scrofa uncharacterized LOC100622481 (LOC100622481), transcript variant X2, misc_RNA
seven	207868	TMEM158	NM_015444	Homo sapiens transmembrane protein 158 (gene/pseudogene) (TMEM158), mRNA	Plasma Membrane	other	XM_003358398	PREDICTED: Sus scrofa transmembrane protein 158 (TMEM158), mRNA
seven	208414	TRMT112	NM_016404	Homo sapiens tRNA methyltransferase 11-2 homolog (S. cerevisiae) (TRMT112), transcript variant 1, mRNA	Other	enzyme	AK233779	Sus scrofa mRNA, clone:MLN010025H07, expressed in mesenteric lymph node
seven	209633	MAFF	NM_001161574	Homo sapiens v-maf avian musculoaponeurotic fibrosarcoma oncogene homolog F (MAFF), transcript variant 5, mRNA	Nucleus	transcription regulator	XM_005655512	PREDICTED: Sus scrofa v-maf avian musculoaponeurotic fibrosarcoma oncogene homolog F (MAFF), transcript variant X2, mRNA
seven	209656	HNRNPA2B1	NG_029680	Homo sapiens heterogeneous nuclear ribonucleoprotein A2/B1 (HNRNPA2B1), RefSeqGene on chromosome 7	Nucleus	other	XM_003133379	PREDICTED: Sus scrofa heterogeneous nuclear ribonucleoproteins A2/B1-like (LOC100511785), mRNA
seven	209667	MTX3	XM_005248495	PREDICTED: Homo sapiens metaxin 3 (MTX3), transcript variant X1, mRNA	Other	other	XM_003132305	PREDICTED: Sus scrofa kelch repeat and BTB (POZ) domain containing 8 (KBTBD8), mRNA
seven	209668	RER1	XM_006710307	PREDICTED: Homo sapiens retention in endoplasmic reticulum sorting receptor 1 (RER1), transcript variant X5, mRNA	Cytoplasm	other	XM_005664953	PREDICTED: Sus scrofa protein RER1-like (LOC100736849), mRNA
seven	209690	CD79A	AF283770	Homo sapiens clone TCBAP0759 mRNA sequence	Plasma Membrane	transmembrane receptor	XM_005655891	PREDICTED: Sus scrofa CD79a molecule, immunoglobulin-associated alpha (CD79A), transcript variant X2, mRNA
seven	209764	MBD2	NM_003927	Homo sapiens methyl-CpG binding domain protein 2 (MBD2), transcript variant 1, mRNA	Nucleus	transcription regulator	AK395343	Sus scrofa mRNA, clone: OVRM10197B12, expressed in ovary
seven	209778	DEDD	NM_001039712	Homo sapiens death effector domain containing (DEDD), transcript variant 4, mRNA	Nucleus	other	AK392370	Sus scrofa mRNA, clone: HTMT10068F03, expressed in hypothalamus
seven	209779	IGKV2OR22-4	NG_011660	Homo sapiens immunoglobulin kappa variable 2/OR22-4 (pseudogene) (IGKV2OR22-4) on chromosome 22			AY518163	Sus scrofa clone KT61 immunoglobulin kappa variable region mRNA, partial cds
seven	209792	MPHOSPH8	AL354808	Human DNA sequence from clone RP11-523H24 on chromosome 13, complete sequence			XM_005668563	PREDICTED: Sus scrofa M-phase phosphoprotein 8 (MPHOSPH8), transcript variant X3, mRNA
seven	209796	HNRNPL	NM_001533	Homo sapiens heterogeneous nuclear ribonucleoprotein L (HNRNPL), transcript variant 1, mRNA	Nucleus	other	AK395363	Sus scrofa mRNA, clone: OVRM10208E05, expressed in ovary

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seven	209806	TIGD1	U49973	Human Tigger1 transposable element, complete consensus sequence	Other	other	CU457398	Pig DNA sequence from clone CH242-182N10 on chromosome X, complete sequence
seven	209902	STXBP6	AL161663	Human chromosome 14 DNA sequence BAC R-725L2 of library RPCI-11 from chromosome 14 of Homo sapiens (Human), complete sequence	Cytoplasm	other	AK234652	Sus scrofa mRNA, clone:OVRM10003B03, expressed in ovary
seven	209909	PCSK6	AM491522	Homo sapiens partial mRNA for proprotein convertase subtilisin/kexin type 6 (PCSK6 gene)	Extracellular Space	peptidase	XM_005652479	PREDICTED: Sus scrofa proprotein convertase subtilisin/kexin type 6-like (LOC100524545), mRNA
seven	209921	WDR5	XM_005272163	PREDICTED: Homo sapiens WD repeat domain 5 (WDR5), transcript variant X1, mRNA	Nucleus	other	AK234352	Sus scrofa mRNA, clone:OVR010046B07, expressed in ovary
seven	209946	PBXIP1	NM_020524	Homo sapiens pre-B-cell leukemia homeobox interacting protein 1 (PBXIP1), mRNA >gi 16877168 gb BC016852.1 Homo sapiens pre-B-cell leukemia homeobox interacting protein 1, mRNA (cDNA clone MGC:16853 IMAGE:3900461), complete cds	Nucleus	transcription regulator	XM_005663343	PREDICTED: Sus scrofa pre-B-cell leukemia homeobox interacting protein 1 (PBXIP1), mRNA
seven	209965	RPSA	BC073863	Homo sapiens ribosomal protein SA, mRNA (cDNA clone MGC:90285 IMAGE:3924066), complete cds	Cytoplasm	translation regulator	AK394403	Sus scrofa mRNA, clone: MLN010020C05, expressed in mesenteric lymph node
seven	209968	SDCBP	XM_005251280	PREDICTED: Homo sapiens syndecan binding protein (syntenin) (SDCBP), transcript variant X1, mRNA	Plasma Membrane	enzyme	AK399483	Sus scrofa mRNA, clone: AMP010098F12, expressed in alveolar macrophage
seven	209971	ELP5	NM_015362	Homo sapiens elongator acetyltransferase complex subunit 5 (ELP5), transcript variant 1, mRNA	Other	other	XM_003483095	PREDICTED: Sus scrofa elongator acetyltransferase complex subunit 5 (ELP5), mRNA
seven	209972	RNF121	XM_006718634	PREDICTED: Homo sapiens ring finger protein 121 (RNF121), transcript variant X6, mRNA	Other	other	XM_005653662	PREDICTED: Sus scrofa ring finger protein 121 (RNF121), transcript variant X4, mRNA
seven	209978		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			NM_001193447	Sus scrofa outer dense fiber of sperm tails 2 (ODF2), mRNA >gi 299818502 gb HM138510.1 Sus scrofa breed Meishan outer dense fiber 2 (ODF2) mRNA, complete cds
seven	210019	ARHGEF10L	XM_006710734	PREDICTED: Homo sapiens Rho guanine nucleotide exchange factor (GEF) 10-like (ARHGEF10L), transcript variant X17, mRNA	Cytoplasm	enzyme	XM_003481980	PREDICTED: Sus scrofa rho guanine nucleotide exchange factor 10-like protein-like (LOC100525818), mRNA
seven	210064		HG507550	TPA: Homo sapiens RP11-299G20.2 gene for long non-coding RNA OTTHUMT00000416802.1, antisense			XM_001925184	PREDICTED: Sus scrofa proprotein convertase subtilisin/kexin type 6-like (LOC100157370), mRNA

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seven	210082	ABC12-463364	AC245143	Homo sapiens FOSMID clone ABC12-46336400N11 from chromosome unknown, complete sequence			AY035848	Sus scrofa clone D2A basic proline-rich protein mRNA, complete cds
seven	210094	SYNGR2	XM_005257793	PREDICTED: Homo sapiens synaptogyrin 2 (SYNGR2), transcript variant X2, mRNA	Cytoplasm	other	AK391847	Sus scrofa mRNA, clone: HTMT10027F10, expressed in hypothalamus
seven	210162	NNMT	AB590349	Synthetic construct DNA, clone: pFN21AE1345, Homo sapiens NNMT gene for nicotinamide N-methyltransferase, without stop codon, in Flexi system			AK233478	Sus scrofa mRNA, clone:LVRM10156C04, expressed in liver
seven	210193	SMG6	NG_033980	Homo sapiens SMG6 nonsense mediated mRNA decay factor (SMG6), RefSeqGene on chromosome 17			XR_306586	PREDICTED: Sus scrofa uncharacterized LOC102162399 (LOC102162399), misc_RNA
seven	210209	RBP4	XM_005270023	PREDICTED: Homo sapiens retinol binding protein 4, plasma (RBP4), transcript variant X1, mRNA	Extracellular Space	transporter	AK346239	Sus scrofa mRNA, clone:LVRM10110B05, expressed in liver
seven	210230	GINS2	NM_016095	Homo sapiens GINS complex subunit 2 (Psf2 homolog) (GINS2), mRNA	Nucleus	other	XM_003126817	PREDICTED: Sus scrofa GINS complex subunit 2 (Psf2 homolog) (GINS2), mRNA
seven	210248	PIGR	M24559	Human poly-Ig receptor transmembrane secretory component mRNA, 3' end	Plasma Membrane	transporter	XR_135310	PREDICTED: Sus scrofa polymeric immunoglobulin receptor-like (LOC100738775), misc_RNA
seven	210254	PER1	XM_005256690	PREDICTED: Homo sapiens period circadian clock 1 (PER1), transcript variant X2, mRNA	Nucleus	other	XM_005657042	PREDICTED: Sus scrofa period circadian clock 1 (PER1), transcript variant X3, mRNA
seven	210260	STAT3	XM_005257618	PREDICTED: Homo sapiens signal transducer and activator of transcription 3 (acute-phase response factor) (STAT3), transcript variant X6, mRNA	Nucleus	transcription regulator	XM_005668827	PREDICTED: Sus scrofa signal transducer and activator of transcription 3 (acute-phase response factor) (STAT3), transcript variant X1, mRNA
seven	210280	TMEM175	XM_006713920	PREDICTED: Homo sapiens transmembrane protein 175 (TMEM175), transcript variant X9, mRNA	Cytoplasm	other	XM_005658275	PREDICTED: Sus scrofa transmembrane protein 175 (TMEM175), mRNA
seven	210326	DENND5A	XM_006718169	PREDICTED: Homo sapiens DENN/MADD domain containing 5A (DENND5A), transcript variant X4, mRNA	Cytoplasm	other	XM_003129393	PREDICTED: Sus scrofa DENN/MADD domain containing 5A (DENND5A), mRNA
seven	210339	SCGN	AL512384	Human DNA sequence from clone RP11-317E16 on chromosome 6, complete sequence			XM_005665639	PREDICTED: Sus scrofa secretagogin, EF-hand calcium binding protein (SCGN), transcript variant X1, mRNA
seven	210388		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AK344310	Sus scrofa mRNA, clone:DCI010005C10, expressed in dendritic cells (immature)

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seven	210438	AURKAIP1	NM_001127230	Homo sapiens aurora kinase A interacting protein 1 (AURKAIP1), transcript variant 3, mRNA	Nucleus	enzyme	AK231191	Sus scrofa mRNA, clone:ITT010013D11, expressed in intestine
seven	210458	SLC7A8	NM_001267037	Homo sapiens solute carrier family 7 (amino acid transporter light chain, L system), member 8 (SLC7A8), transcript variant 4, mRNA	Plasma Membrane	transporter	XM_003128550	PREDICTED: Sus scrofa large neutral amino acids transporter small subunit 2-like (LOC100522330), transcript variant X1, mRNA
seven	210464		KC824742	Homo sapiens isolate Ila0018049b immunoglobulin A heavy chain variable region mRNA, partial cds			AK405770	Sus scrofa IGHG mRNA IgG heavy chain precursor, complete cds, clone: BMWN10027F04
seven	210490	XYLB	XM_006713450	PREDICTED: Homo sapiens xylulokinase homolog (H. influenzae) (XYLB), transcript variant X5, mRNA	Other	kinase	XM_003358367	PREDICTED: Sus scrofa xylulokinase homolog (H. influenzae) (XYLB), mRNA
seven	210496	SLC44A2	XM_005259999	PREDICTED: Homo sapiens solute carrier family 44 (choline transporter), member 2 (SLC44A2), transcript variant X3, mRNA	Extracellular Space	transporter	XM_003123211	PREDICTED: Sus scrofa solute carrier family 44 (choline transporter), member 2 (SLC44A2), transcript variant X2, mRNA
seven	210522	CHST7	NM_019886	Homo sapiens carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 7 (CHST7), mRNA	Cytoplasm	enzyme	XM_003135049	PREDICTED: Sus scrofa carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 7 (CHST7), mRNA
seven	210533	MRRFP1	NG_005178	Homo sapiens mitochondrial ribosome recycling factor pseudogene 1 (MRRFP1) on chromosome X			AK395592	Sus scrofa mRNA, clone: OVRT10034B07, expressed in ovary
seven	210544	RP11-753F4	AC092165	Homo sapiens BAC clone RP11-753F4 from 2, complete sequence			AK393944	Sus scrofa mRNA, clone: LNG010107H08, expressed in lung
seven	210567	ADAMDEC1	NM_014479	Homo sapiens ADAM-like, decysin 1 (ADAMDEC1), transcript variant 1, mRNA	Extracellular Space	peptidase	AK348204	Sus scrofa mRNA, clone:OVVM10093G12, expressed in ovary
seven	210574	SCFV	M18508	Human (fetal) IgM chain V-region (VDJ) mRNA, clone 2P1	Other	other	AK405793	Sus scrofa IGHG mRNA IgG heavy chain precursor, complete cds, clone: PST010013F09
seven	210613	SIGLEC1	XM_006723613	PREDICTED: Homo sapiens sialic acid binding Ig-like lectin 1, sialoadhesin (SIGLEC1), transcript variant X4, mRNA	Plasma Membrane	other	NM_214346	Sus scrofa sialoadhesin (SIGLEC-1), mRNA >gj 31323698 gb AF509585.1 Sus scrofa sialoadhesin (Siglec-1) mRNA, complete cds
seven	210641	C5AR1	CU679212	Synthetic construct Homo sapiens gateway clone IMAGE:100017067 3' read C5AR1 mRNA			NM_001244215	Sus scrofa complement component 5a receptor 1 (C5AR1), mRNA
seven	210653	HDHD1	NM_001178135	Homo sapiens haloacid dehalogenase-like hydrolase domain containing 1 (HDHD1), transcript variant 3, mRNA	Other	enzyme	AK351724	Sus scrofa mRNA, clone:THY010068D11, expressed in thymus
seven	210655	UNC93A	NM_018974	Homo sapiens unc-93 homolog A (C. elegans) (UNC93A), transcript variant 1, mRNA	Plasma Membrane	other	XM_005654337	PREDICTED: Sus scrofa protein unc-93 homolog A-like (LOC100514930), transcript variant X6, mRNA

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seven	210664	DUSP28	XM_006712456	PREDICTED: Homo sapiens dual specificity phosphatase 28 (DUSP28), transcript variant X2, mRNA	Other	enzyme	XM_003359711	PREDICTED: Sus scrofa dual specificity phosphatase 28 (DUSP28), mRNA
seven	210681		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			FQ976826	Pig DNA sequence from clone PigE-120G11 on chromosome X, complete sequence
seven	210688	FAM118A	XM_006724275	PREDICTED: Homo sapiens family with sequence similarity 118, member A (FAM118A), transcript variant X12, mRNA	Other	other	XM_005663738	PREDICTED: Sus scrofa family with sequence similarity 118, member A (FAM118A), transcript variant X3, mRNA
seven	210808		FM206294	Cloning vector pchilGHG1			L36913	Pig microsatellite DNA (CA repeat)
seven	210832	RAB5B	BC065298	Homo sapiens RAB5B, member RAS oncogene family, mRNA (cDNA clone MGC:75139 IMAGE:6146668), complete cds	Cytoplasm	enzyme	XM_005658143	PREDICTED: Sus scrofa RAB5B, member RAS oncogene family (RAB5B), transcript variant X2, mRNA
seven	210833	L2HGDH	NG_008092	Homo sapiens L-2-hydroxyglutarate dehydrogenase (L2HGDH), RefSeqGene on chromosome 14	Cytoplasm	enzyme	XM_005662106	PREDICTED: Sus scrofa G protein-coupled receptor, family C, group 5, member B (GPCR5B), mRNA
seven	210834	GPX3	CU690654	Synthetic construct Homo sapiens gateway clone IMAGE:100021284 5' read GPX3 mRNA			NM_001115155	Sus scrofa glutathione peroxidase 3 (plasma) (GPX3), mRNA
seven	210846	HFE	NG_008720	Homo sapiens hemochromatosis (HFE), RefSeqGene on chromosome 6	Plasma Membrane	transmembrane receptor	AK396311	Sus scrofa mRNA, clone: PST010007E09, expressed in prostate
seven	210854	SLC6A6	XR_427286	PREDICTED: Homo sapiens solute carrier family 6 (neurotransmitter transporter), member 6 (SLC6A6), transcript variant X2, misc_RNA	Plasma Membrane	transporter	AK395068	Sus scrofa mRNA, clone: OVRM10034F02, expressed in ovary
seven	210856	MALT1	NG_033893	Homo sapiens mucosa associated lymphoid tissue lymphoma translocation gene 1 (MALT1), RefSeqGene on chromosome 18			XM_003353453	PREDICTED: Sus scrofa mucosa associated lymphoid tissue lymphoma translocation gene 1 (MALT1), mRNA
seven	210925	HLA-DQB1	X76554	H.sapiens mRNA for HLA-DQB1*0305	Plasma Membrane	other	KC511015	Sus scrofa MHC class II antigen (SLA-DQB1) mRNA, SLA-DQB1*040101 allele, complete cds
seven	210964	MIB2	XM_006710375	PREDICTED: Homo sapiens mindbomb E3 ubiquitin protein ligase 2 (MIB2), transcript variant X10, mRNA	Nucleus	transcription regulator	XM_005653348	PREDICTED: Sus scrofa mindbomb E3 ubiquitin protein ligase 2 (MIB2), transcript variant X6, mRNA
seven	210965	TRIM35	BC018337	Homo sapiens tripartite motif-containing 35, mRNA (cDNA clone IMAGE:4215244), complete cds	Cytoplasm	other	XM_001928380	PREDICTED: Sus scrofa tripartite motif containing 35 (TRIM35), mRNA
seven	210980	DCTN4	XM_005268457	PREDICTED: Homo sapiens dynactin 4 (p62) (DCTN4), transcript variant X1, mRNA	Nucleus	other	AK237862	Sus scrofa mRNA, clone:TCH010003G12, expressed in trachea

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seven	211000	UCP2	U94592	Human uncoupling protein homolog (UCPH) mRNA, complete cds	Cytoplasm	transporter	NM_001243594	Sus scrofa Sel1 repeat containing 1 (SELRC1), mRNA >gil115555345 dbj AK233958.1 Sus scrofa mRNA, clone:MLN010079G10, expressed in mesenteric lymph node
seven	211013	MFSD4	AK091896	Homo sapiens cDNA FLJ34577 fis, clone KIDNE2008403	Other	other	XM_003357394	PREDICTED: Sus scrofa major facilitator superfamily domain containing 4 (MFSD4), transcript variant 1, mRNA
seven	211025	KALRN	XM_006713814	PREDICTED: Homo sapiens kalirin, RhoGEF kinase (KALRN), transcript variant X5, mRNA	Cytoplasm	kinase	XM_005674384	PREDICTED: Sus scrofa Rho guanine nucleotide exchange factor (GEF) 25 (ARHGEF25), partial mRNA
seven	211096	HSD3B2	NG_013349	Homo sapiens hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 2 (HSD3B2), RefSeqGene on chromosome 1	Cytoplasm	enzyme	CR938722	Pig DNA sequence from clone CH242-150C11 on chromosome 4, complete sequence
seven	211130	PMP22	NM_153321	Homo sapiens peripheral myelin protein 22 (PMP22), transcript variant 2, mRNA	Plasma Membrane	other	AK235435	Sus scrofa mRNA, clone:OVRM10081F12, expressed in ovary
seven	211191	LRRC14	D25216	Homo sapiens KIAA0014 mRNA, partial cds	Other	other	XM_003125437	PREDICTED: Sus scrofa leucine rich repeat containing 24 (LRRC24), mRNA
seven	211589	PPP1CA	NM_001008709	Homo sapiens protein phosphatase 1, catalytic subunit, alpha isozyme (PPP1CA), transcript variant 3, mRNA	Cytoplasm	phosphatase	AK391575	Sus scrofa mRNA, clone: HTMT10002A05, expressed in hypothalamus
seven	211612	GABRA3	XM_006724811	PREDICTED: Homo sapiens gamma-aminobutyric acid (GABA) A receptor, alpha 3 (GABRA3), transcript variant X2, mRNA	Plasma Membrane	ion channel	XM_003135469	PREDICTED: Sus scrofa gamma-aminobutyric acid (GABA) A receptor, alpha 3 (GABRA3), partial mRNA
seven	211699	FBXL16	XM_005255132	PREDICTED: Homo sapiens F-box and leucine-rich repeat protein 16 (FBXL16), transcript variant X1, mRNA	Cytoplasm	other	AK391866	Sus scrofa mRNA, clone: HTMT10029D10, expressed in hypothalamus
seven	211796	PRKCG	AK303741	Homo sapiens cDNA FLJ50347 complete cds, highly similar to Protein kinase C gamma type (EC 2.7.11.13)	Cytoplasm	kinase	CU855513	Pig DNA sequence from clone CH242-259K4 on chromosome 6, complete sequence
seven	211806	GABBR2	XM_005252316	PREDICTED: Homo sapiens gamma-aminobutyric acid (GABA) B receptor, 2 (GABBR2), transcript variant X1, mRNA	Plasma Membrane	G-protein coupled receptor	XM_003122032	PREDICTED: Sus scrofa gamma-aminobutyric acid (GABA) B receptor, 2 (GABBR2), mRNA
seven	211866		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AK348907	Sus scrofa mRNA, clone:PBL010059F09, expressed in peripheral blood mononuclear cells
seven	211892	ACTR8	FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			XM_001929049	PREDICTED: Sus scrofa ARP8 actin-related protein 8 homolog (yeast) (ACTR8), transcript variant 1, mRNA

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seven	211959	MMP28	NM_024302	Homo sapiens matrix metalloproteinase 28 (MMP28), transcript variant 1, mRNA	Extracellular Space	peptidase	AK397377	Sus scrofa mRNA, clone: SKNB10085B10, expressed in skin
seven	212006	FBXO44	XM_006711047	PREDICTED: Homo sapiens F-box protein 44 (FBXO44), transcript variant X10, mRNA	Other	other	AK389325	Sus scrofa mRNA, clone: ADR010047E03, expressed in adrenal gland
seven	212107	MAX	BC003525	Homo sapiens MYC associated factor X, mRNA (cDNA clone MGC:10775 IMAGE:3607261), complete cds	Nucleus	transcription regulator	XM_005666317	PREDICTED: Sus scrofa MYC associated factor X (MAX), transcript variant X2, mRNA
seven	212605		AP006247	Homo sapiens genomic DNA, chromosome 8, clone:RP11-269O13, complete sequence			AY574048	Sus scrofa breed Large White mitochondrion, complete genome
seven	212631	EPRS	AK298192	Homo sapiens cDNA FLJ58269 complete cds, highly similar to Bifunctional aminoacyl-tRNA synthetase [Includes: Glutamyl-tRNA synthetase (EC 6.1.1.17)]	Cytoplasm	enzyme	XM_005656784	PREDICTED: Sus scrofa glutamyl-prolyl-tRNA synthetase (EPRS), mRNA
seven	212695	MPRIP	XM_006721490	PREDICTED: Homo sapiens myosin phosphatase Rho interacting protein (MPRIP), transcript variant X6, mRNA	Cytoplasm	other	XM_005668336	PREDICTED: Sus scrofa SMAD family member 9 (SMAD9), transcript variant X1, mRNA
seven	212896	SBNO2	XM_005259519	PREDICTED: Homo sapiens strawberry notch homolog 2 (Drosophila) (SBNO2), transcript variant X1, mRNA	Other	transcription regulator	XM_003353968	PREDICTED: Sus scrofa strawberry notch homolog 2 (Drosophila) (SBNO2), partial mRNA
seven	212919	PPP2R3B	BK000521	TPA_exp: Homo sapiens PP2A B" subunit PR48 mRNA, complete cds	Nucleus	phosphatase	XR_306946	PREDICTED: Sus scrofa uncharacterized LOC100738039 (LOC100738039), misc_RNA
seven	212932	ORC1	NM_001190819	Homo sapiens origin recognition complex, subunit 1 (ORC1), transcript variant 3, mRNA	Nucleus	other	XM_005665426	PREDICTED: Sus scrofa origin recognition complex subunit 1-like (LOC100520746), transcript variant X9, mRNA
seven	212936	IFNAR2	NM_001289125	Homo sapiens interferon (alpha, beta and omega) receptor 2 (IFNAR2), transcript variant 4, mRNA	Plasma Membrane	transmembrane receptor	AK231609	Sus scrofa mRNA, clone:LNG010001F06, expressed in lung
seven	212940		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			FP085429	Pig DNA sequence from clone CH242-362P2 on chromosome X, complete sequence
seven	212968		AL133411	Human DNA sequence from clone RP11-57P14 on chromosome 9p21.1-21.3, complete sequence			XM_005659054	PREDICTED: Sus scrofa 60S ribosomal protein L13a-like (LOC100625729), partial mRNA
seven	213607	HBB	AK311825	Homo sapiens cDNA, FLJ92086, Homo sapiens hemoglobin, beta (HBB), mRNA	Cytoplasm	transporter	NM_001144841	Sus scrofa hemoglobin, beta (HBB), mRNA

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seven	213726	ATRX	XM_006724667	PREDICTED: Homo sapiens alpha thalassemia/mental retardation syndrome X-linked (ATRX), transcript variant X7, mRNA	Nucleus	transcription regulator	XM_003360375	PREDICTED: Sus scrofa transcriptional regulator ATRX-like (LOC100514440), partial mRNA
seven	213736	SND1	AK304181	Homo sapiens cDNA FLJ54574 complete cds, highly similar to Staphylococcal nuclease domain-containing protein 1	Nucleus	enzyme	XM_003134711	PREDICTED: Sus scrofa staphylococcal nuclease domain-containing protein 1-like (LOC100521234), mRNA
seven	213743		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AK396025	Sus scrofa mRNA, clone: PBL010019G02, expressed in peripheral blood lymphocytes
seven	213789	C11orf54	XM_006718824	PREDICTED: Homo sapiens chromosome 11 open reading frame 54 (C11orf54), transcript variant X3, mRNA	Nucleus	other	AK231014	Sus scrofa mRNA, clone:AMP010082B06, expressed in alveolar macrophage
seven	213799	TCEAL3	NM_001006933	Homo sapiens transcription elongation factor A (SII)-like 3 (TCEAL3), transcript variant 1, mRNA	Other	other	FP101968	Pig DNA sequence from clone CH242-59P14 on chromosome X, complete sequence
seven	214193	MAP7D1	XM_006710761	PREDICTED: Homo sapiens MAP7 domain containing 1 (MAP7D1), transcript variant X7, mRNA	Cytoplasm	other	AK351669	Sus scrofa mRNA, clone:THY010057F11, expressed in thymus
seven	214229	SHISA2	BC132898	Homo sapiens shisa homolog 2 (Xenopus laevis), mRNA (cDNA clone MGC:164529 IMAGE:40146920), complete cds >gi 223462849 gb BC137092.1 Homo sapiens shisa homolog 2 (Xenopus laevis), mRNA (cDNA clone MGC:168712 IMAGE:9021089), complete cds	Other	other	XM_003482858	PREDICTED: Sus scrofa shisa family member 2 (SHISA2), mRNA
seven	214289		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CU928703	Pig DNA sequence from clone CH242-486C6 on chromosome 2, complete sequence
seven	214313	NOC3L	XM_005270048	PREDICTED: Homo sapiens nucleolar complex associated 3 homolog (S. cerevisiae) (NOC3L), transcript variant X1, mRNA	Nucleus	other	NM_001144115	Sus scrofa nucleolar complex associated 3 homolog (S. cerevisiae) (NOC3L), mRNA >gi 218855167 gb FJ492746.1 Sus scrofa FAD24 protein mRNA, complete cds
seven	214325	MANBA	NG_012804	Homo sapiens mannosidase, beta A, lysosomal (MANBA), RefSeqGene on chromosome 4			XM_003134432	PREDICTED: Sus scrofa protein MANBAL-like (LOC100514259), transcript variant X1, mRNA
seven	214346	RP11-230B22	AC103923	Homo sapiens chromosome 1 clone RP11-230B22, complete sequence			GQ343189	Sus scrofa mast/stem cell growth factor receptor (KIT) gene, intron 4

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seven	214351	CACNA1B	NM_001243812	Homo sapiens calcium channel, voltage-dependent, N type, alpha 1B subunit (CACNA1B), transcript variant 2, mRNA	Plasma Membrane	ion channel	XM_005667806	PREDICTED: Sus scrofa calcium channel, voltage-dependent, R type, alpha 1E subunit (CACNA1E), mRNA
seven	214361	PRKCE	JX512458	Homo sapiens protein kinase C, epsilon (PRKCE) gene, complete cds	Cytoplasm	kinase	CU855720	Pig DNA sequence from clone CH242-512P21 on chromosome X, complete sequence
seven	214396	WRAP73	NG_033937	Homo sapiens WD repeat containing, antisense to TP73 (WRAP73), RefSeqGene on chromosome 1	Nucleus	other	XM_005664956	PREDICTED: Sus scrofa WD repeat containing, antisense to TP73 (WRAP73), transcript variant X1, mRNA
seven	214421	JAM3	NM_001205329	Homo sapiens junctional adhesion molecule 3 (JAM3), transcript variant 2, mRNA	Plasma Membrane	other	XM_003130087	PREDICTED: Sus scrofa junctional adhesion molecule 3 (JAM3), mRNA
seven	214508	CH507-510L4	FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CR956409	Pig DNA sequence from clone CH242-276G9 on chromosome 17, complete sequence
seven	214687	ELFN2	XM_006724124	PREDICTED: Homo sapiens extracellular leucine-rich repeat and fibronectin type III domain containing 2 (ELFN2), transcript variant X3, mRNA	Extracellular Space	other	XM_005663806	PREDICTED: Sus scrofa extracellular leucine-rich repeat and fibronectin type III domain containing 2 (ELFN2), transcript variant X3, mRNA
seven	215072	PNISR	XM_006715452	PREDICTED: Homo sapiens PNN-interacting serine/arginine-rich protein (PNISR), transcript variant X9, mRNA	Nucleus	other	FN673733	Sus scrofa BAC clone KNP_320D2
seven	215116	TUBB3	AF427491	Homo sapiens class III beta tubulin mRNA, complete cds	Cytoplasm	other	AK399927	Sus scrofa mRNA, clone: HTMT10078E10, expressed in hypothalamus
seven	215145	NRD1	NG_029171	Homo sapiens nardilysin (N-arginine dibasic convertase) (NRD1), RefSeqGene on chromosome 1	Cytoplasm	peptidase	XM_005665437	PREDICTED: Sus scrofa oxysterol binding protein-like 9 (OSBPL9), transcript variant X7, mRNA
seven	215166	EXOSC2	XM_006717023	PREDICTED: Homo sapiens exosome component 2 (EXOSC2), transcript variant X7, mRNA	Nucleus	enzyme	XM_003122238	PREDICTED: Sus scrofa exosome component 2 (EXOSC2), transcript variant X1, mRNA
seven	215607	MBP	L18866	Human Golli-mbp gene, complete cds	Extracellular Space	other	AK399994	Sus scrofa mRNA, clone: HTMT10116H12, expressed in hypothalamus
seven	215626	RP11-1113L8	AC025627	Homo sapiens chromosome 17, clone RP11-1113L8, complete sequence			KF971862	Sus scrofa domesticus breed Min mitochondrion, complete genome
seven	215707		KC622159	Homo sapiens isolate NAM469 mitochondrion, complete genome			KF767443	Sus scrofa breed Wuzhishan mitochondrion, complete genome
seven	215991	nin283	AF378524	Homo sapiens nin283 mRNA, complete cds	Cytoplasm	enzyme	XR_303723	PREDICTED: Sus scrofa uncharacterized LOC100739840 (LOC100739840), misc_RNA

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seven	216018	BCS1L	XM_005246749	PREDICTED: Homo sapiens BC1 (ubiquinol-cytochrome c reductase) synthesis-like (BCS1L), transcript variant X3, mRNA	Cytoplasm	other	NM_001243676	Sus scrofa BCS1-like (S. cerevisiae) (BCS1L), mRNA >gil115545759 dbj AK234192.1 Sus scrofa mRNA, clone:OVR010025G11, expressed in ovary
seven	216075	TNS3	NM_022748	Homo sapiens tensin 3 (TNS3), mRNA	Plasma Membrane	phosphatase	AK238854	Sus scrofa mRNA, clone:THY010037G04, expressed in thymus
seven	216107		FM206294	Cloning vector pchiIGHG1			L36913	Pig microsatellite DNA (CA repeat)
seven	216200	LSM12	NM_152344	Homo sapiens LSM12 homolog (S. cerevisiae) (LSM12), mRNA	Other	other	JQ916898	Sus scrofa synphilin-1 (SNCAIP) gene, partial cds
seven	216283	PUF60	NM_001271097	Homo sapiens poly-U binding splicing factor 60KDa (PUF60), transcript variant 5, mRNA	Nucleus	other	XM_005658888	PREDICTED: Sus scrofa poly(U)-binding-splicing factor PUF60-like (LOC100624565), partial mRNA
seven	216308		FR695060	Homo sp. Altai complete mitochondrial genome, isolate Denisova molar			KF569218	Sus scrofa breed DLY mitochondrion, complete genome
seven	216436	NUDT21	NM_007006	Homo sapiens nudix (nucleoside diphosphate linked moiety X)-type motif 21 (NUDT21), mRNA	Nucleus	other	XR_300561	PREDICTED: Sus scrofa uncharacterized LOC102162762 (LOC102162762), misc_RNA
seven	216656	SYN1	AB591026	Synthetic construct DNA, clone: pFN21AE2061, Homo sapiens SYN1 gene for synapsin I, without stop codon, in Flexi system			XM_005657788	PREDICTED: Sus scrofa synapsin I (SYN1), transcript variant X1, mRNA
seven	216681	SLC6A15	NM_001146335	Homo sapiens solute carrier family 6 (neutral amino acid transporter), member 15 (SLC6A15), transcript variant 3, mRNA	Plasma Membrane	transporter	XM_003355692	PREDICTED: Sus scrofa sodium-dependent neutral amino acid transporter B(0)AT2-like (LOC100628231), mRNA
seven	216723	TCTN1	DQ278868	Homo sapiens Tectonic mRNA, complete cds	Extracellular Space	other	XM_001929436	PREDICTED: Sus scrofa tectonic family member 1 (TCTN1), mRNA
seven	216773	TMEM160	FM206294	Cloning vector pchiIGHG1			XM_003127241	PREDICTED: Sus scrofa transmembrane protein 160 (TMEM160), mRNA
seven	216776	GPRC5B	XM_006721052	PREDICTED: Homo sapiens G protein-coupled receptor, class C, group 5, member B (GPRC5B), transcript variant X3, mRNA	Plasma Membrane	G-protein coupled receptor	AK399864	Sus scrofa mRNA, clone: HTMT10017H04, expressed in hypothalamus
seven	216883	PCDH17	XM_005266358	PREDICTED: Homo sapiens protocadherin 17 (PCDH17), transcript variant X2, mRNA	Other	other	XM_003482904	PREDICTED: Sus scrofa protocadherin-17-like (LOC100737785), partial mRNA
seven	216979	KIAA0133	AB463082	Synthetic construct DNA, clone: pF1KA0133, Homo sapiens KIAA0133 gene, without stop codon, in Flexi system			XM_003123211	PREDICTED: Sus scrofa solute carrier family 44 (choline transporter), member 2 (SLC44A2), transcript variant X2, mRNA
seven	217016	GLS	NM_001256310	Homo sapiens glutaminase (GLS), transcript variant 2, mRNA	Cytoplasm	enzyme	AF490841	Sus scrofa glutaminase mRNA, partial cds

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seven	217087	NFAM1	AB463140	Synthetic construct DNA, clone: pF1KF0165, Homo sapiens NFAM1 gene for NFAT activating protein with ITAM motif 1, without stop codon, in Flexi system			AK391708	Sus scrofa mRNA, clone: HTMT10017B10, expressed in hypothalamus
seven	217132	MCTP1	XR_427720	PREDICTED: Homo sapiens multiple C2 domains, transmembrane 1 (MCTP1), transcript variant X14, misc_RNA	Other	other	XM_005661552	PREDICTED: Sus scrofa multiple C2 and transmembrane domain-containing protein 1-like (LOC100522480), partial mRNA
seven	217183		AC132938	Homo sapiens chromosome 17, clone RP13-20L14, complete sequence			FP085448	Pig DNA sequence from clone CH242-272C22 on chromosome 12, complete sequence
seven	217652	DAB1	AK055341	Homo sapiens cDNA FLJ30779 fis, clone FEBRA2000815	Cytoplasm	other	AK236597	Sus scrofa mRNA, clone:OVRM10207A02, expressed in ovary
seven	217759		AC254636	Homo sapiens BAC clone CH17-46I4 from chromosome 16, complete sequence			AK395120	Sus scrofa mRNA, clone: OVRM10075A09, expressed in ovary
seven	217760		Z95114	Human DNA sequence from clone CTA-212A2 on chromosome 22q12, complete sequence			JN601073	Sus scrofa isolate 3 breed Turopolje mitochondrion, complete genome
seven	217902	SORL1	NM_003105	Homo sapiens sortilin-related receptor, L(DLR class) A repeats containing (SORL1), mRNA	Cytoplasm	transporter	XM_005672596	PREDICTED: Sus scrofa 39S ribosomal protein L22, mitochondrial-like (LOC100739413), mRNA
seven	217950	NSFL1C	XM_006723593	PREDICTED: Homo sapiens NSFL1 (p97) cofactor (p47) (NSFL1C), transcript variant X3, mRNA	Cytoplasm	other	XM_003480836	PREDICTED: Sus scrofa uncharacterized LOC100737370 (LOC100737370), mRNA
seven	218020	GRAP2	Z82206	Human DNA sequence from clone RP3-370M22 on chromosome 22, complete sequence			XM_005663781	PREDICTED: Sus scrofa GRB2-related adaptor protein 2 (GRAP2), transcript variant X3, mRNA
seven	218036	MSRB2	EF444983	Homo sapiens methionine-r-sulfoxide reductase B2 (MSRB2) gene, complete cds, alternatively spliced	Nucleus	transcription regulator	XM_003357761	PREDICTED: Sus scrofa methionine sulfoxide reductase B2 (MSRB2), transcript variant X1, mRNA
seven	218113	CACNA2D4	NG_012663	Homo sapiens calcium channel, voltage-dependent, alpha 2/delta subunit 4 (CACNA2D4), RefSeqGene on chromosome 12			AK398788	Sus scrofa mRNA, clone: ADR010078B11, expressed in adrenal gland
seven	218187	TADA3	NR_103488	Homo sapiens transcriptional adaptor 3 (TADA3), transcript variant 4, long non-coding RNA	Nucleus	transcription regulator	NM_001206536	Sus scrofa transcriptional adaptor 3 (TADA3), mRNA
seven	218188		AL159974	Human DNA sequence from clone RP11-255E21 on chromosome 13, complete sequence			CU302273	Pig DNA sequence from clone CH242-384E8 on chromosome X, complete sequence
seven	218212	EFCAB2	NM_001290327	Homo sapiens EF-hand calcium binding domain 2 (EFCAB2), transcript variant 5, mRNA	Other	other	XM_003130566	PREDICTED: Sus scrofa EF-hand calcium binding domain 2 (EFCAB2), transcript variant X1, mRNA

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seven	218273	CACNA1S	XM_005245478	PREDICTED: Homo sapiens calcium channel, voltage-dependent, L type, alpha 1S subunit (CACNA1S), transcript variant X1, mRNA	Plasma Membrane	ion channel	XM_003357669	PREDICTED: Sus scrofa calcium channel, voltage-dependent, L type, alpha 1S subunit (CACNA1S), mRNA
seven	218380	CHTOP	NG_030030	Homo sapiens chromatin target of PRMT1 (CHTOP), RefSeqGene on chromosome 1	Nucleus	other	JF830003	Sus scrofa breed Lantang C1orf77 protein (C1orf77) gene, complete cds
seven	218420	VPS41	HQ257912	Synthetic construct Homo sapiens clone IMAGE:100072221 vacuolar protein sorting 41 homolog (S. cerevisiae) (VPS41) gene, encodes complete protein	Cytoplasm	transporter	XM_003134906	PREDICTED: Sus scrofa vacuolar protein sorting 41 homolog (S. cerevisiae) (VPS41), transcript variant X1, mRNA
seven	218491	PTPRJ	XM_006718269	PREDICTED: Homo sapiens protein tyrosine phosphatase, receptor type, J (PTPRJ), transcript variant X1, partial mRNA	Plasma Membrane	phosphatase	XM_005660905	PREDICTED: Sus scrofa protein tyrosine phosphatase, receptor type, J (PTPRJ), mRNA
seven	218515	CTDSP2	XM_005268556	PREDICTED: Homo sapiens CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 2 (CTDSP2), transcript variant X1, mRNA	Nucleus	phosphatase	AK351802	Sus scrofa mRNA, clone:THY010089C11, expressed in thymus
seven	218596	SGPL1	XM_006718053	PREDICTED: Homo sapiens sphingosine-1-phosphate lyase 1 (SGPL1), transcript variant X3, mRNA	Cytoplasm	enzyme	XM_005657412	PREDICTED: Sus scrofa sphingosine-1-phosphate lyase 1 (SGPL1), transcript variant X8, mRNA
seven	218692	CD47	XM_005247909	PREDICTED: Homo sapiens CD47 molecule (CD47), transcript variant X2, mRNA	Plasma Membrane	transmembrane receptor	NM_213982	Sus scrofa CD47 molecule (CD47), mRNA >gi 13194737 gb AF332698.1 Sus scrofa CD47 antigen/integrin-associated protein (CD47/IAP) mRNA, complete cds
seven	218716	CDT1	BC014202	Homo sapiens chromatin licensing and DNA replication factor 1, mRNA (cDNA clone IMAGE:4564788), partial cds	Nucleus	other	XM_003126807	PREDICTED: Sus scrofa chromatin licensing and DNA replication factor 1 (CDT1), mRNA
seven	218718	RHOF	HG505263	TPA: Homo sapiens AC084018.1 gene for long non-coding RNA OTTHUMT00000402172.1, lincRNA	Other	other	XM_005670621	PREDICTED: Sus scrofa ras homolog family member F (in filopodia) (RHOF), transcript variant X10, mRNA
seven	218789	SERINC2	HQ258415	Synthetic construct Homo sapiens clone IMAGE:100072844 serine incorporator 2 (SERINC2) (SERINC2) gene, encodes complete protein	Plasma Membrane	transporter	AK392960	Sus scrofa mRNA, clone: ITT010051E10, expressed in intestine
seven	218804	PHF11	FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			XM_005668398	PREDICTED: Sus scrofa PHD finger protein 11 (PHF11), transcript variant X1, mRNA
seven	218950	IPO4	NR_051979	Homo sapiens importin 4 (IPO4), transcript variant 2, non-coding RNA	Nucleus	transporter	XM_005666239	PREDICTED: Sus scrofa importin 4 (IPO4), mRNA

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seven	219231		FM206294	Cloning vector pchlGHG1			XM_003132693	PREDICTED: Sus scrofa neurexophilin and PC-esterase domain family, member 3 (NXPE3), mRNA
seven	219345		FM206294	Cloning vector pchlGHG1			CU151849	Pig DNA sequence from clone CH242-198O5 on chromosome 4, complete sequence
seven	219370	ATP6V0E2	NM_145230	Homo sapiens ATPase, H+ transporting V0 subunit e2 (ATP6V0E2), transcript variant 1, mRNA	Cytoplasm	enzyme	AK399171	Sus scrofa mRNA, clone: PTG010063D08, expressed in pituitary gland
seven	219679	CACTIN	AK295035	Homo sapiens cDNA FLJ59622 complete cds			XM_005658417	PREDICTED: Sus scrofa cactin, spliceosome C complex subunit (CACTIN), partial mRNA
seven	219774	EHD1	XM_006718424	PREDICTED: Homo sapiens EH-domain containing 1 (EHD1), transcript variant X1, mRNA	Cytoplasm	other	XM_003122553	PREDICTED: Sus scrofa EH-domain containing 1 (EHD1), transcript variant X1, mRNA
seven	219801	PIK3R3	XM_005271290	PREDICTED: Homo sapiens phosphoinositide-3-kinase, regulatory subunit 3 (gamma) (PIK3R3), transcript variant X2, mRNA	Cytoplasm	kinase	XM_005665469	PREDICTED: Sus scrofa phosphoinositide-3-kinase, regulatory subunit 3 (gamma) (PIK3R3), transcript variant X10, mRNA
seven	219956	ACADSB	AK298638	Homo sapiens cDNA FLJ57418 complete cds, highly similar to Short/branched chain specific acyl-CoA dehydrogenase, mitochondrial precursor (EC 1.3.99.-)	Cytoplasm	enzyme	XM_001926297	PREDICTED: Sus scrofa acyl-CoA dehydrogenase, short/branched chain (ACADSB), mRNA
seven	219966	MSRB1	NM_016332	Homo sapiens methionine sulfoxide reductase B1 (MSRB1), mRNA	Other	other	NM_001097460	Sus scrofa methionine sulfoxide reductase B1 (SEPX1), mRNA >gi 119114791 gb EF113597.1 Sus scrofa selenoprotein X mRNA, complete cds
seven	219989	TRNAQ32	AL050334	Human DNA sequence from clone RP1-179M22 on chromosome 6q23.3-25.1, complete sequence	Other	other	CU407122	Pig DNA sequence from clone CH242-52A15 on chromosome X, complete sequence
seven	219990	AP5Z1	NM_014855	Homo sapiens adaptor-related protein complex 5, zeta 1 subunit (AP5Z1), mRNA	Other	other	XM_005661829	PREDICTED: Sus scrofa uncharacterized LOC100513142 (LOC100513142), transcript variant X2, mRNA
seven	220013	VMO1	NM_182566	Homo sapiens vitelline membrane outer layer 1 homolog (chicken) (VMO1), transcript variant 1, mRNA	Extracellular Space	other	NM_001244728	Sus scrofa vitelline membrane outer layer 1 homolog (chicken) (VMO1), mRNA >gi 288780454 dbj AK349988.1 Sus scrofa mRNA, clone:SMG010018C12, expressed in submaxillary gland

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seven	220014	HIP1	AB385224	Synthetic construct DNA, clone: pF1KB9465, Homo sapiens HIP1 gene for huntingtin-interacting protein 1, complete cds, without stop codon, in Flexi system			XM_005661970	PREDICTED: Sus scrofa huntingtin interacting protein 1 (HIP1), mRNA
seven	220050	AQP3	NM_004925	Homo sapiens aquaporin 3 (Gill blood group) (AQP3), mRNA	Plasma Membrane	transporter	AK345641	Sus scrofa mRNA, clone:LNG010078B02, expressed in lung
seven	220242	WDR45B	XM_006722285	PREDICTED: Homo sapiens WD repeat domain 45B (WDR45B), transcript variant X4, mRNA	Other	other	FP085448	Pig DNA sequence from clone CH242-272C22 on chromosome 12, complete sequence
seven	220446	RILPL1	XM_006719374	PREDICTED: Homo sapiens Rab interacting lysosomal protein-like 1 (RILPL1), transcript variant X4, mRNA	Cytoplasm	other	XM_005670586	PREDICTED: Sus scrofa Rab interacting lysosomal protein-like 1 (RILPL1), transcript variant X2, mRNA
seven	220532		AC013437	Homo sapiens BAC clone RP11-190J23 from 2, complete sequence			JN601075	Sus scrofa isolate 1-37-193 breed Yorkshire mitochondrion, complete genome
seven	220543	NUTF2	XM_005255771	PREDICTED: Homo sapiens nuclear transport factor 2 (NUTF2), transcript variant X1, mRNA	Nucleus	transporter	XM_003126922	PREDICTED: Sus scrofa nuclear transport factor 2-like (LOC100520245), mRNA
seven	220692	GAPDHP59	NG_006132	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase pseudogene 59 (GAPDHP59) on chromosome 2			AK399865	Sus scrofa mRNA, clone: HTMT10019F11, expressed in hypothalamus
seven	220722		FM206294	Cloning vector pchilGHG1			AK392100	Sus scrofa mRNA, clone: HTMT10049F05, expressed in hypothalamus
seven	220753	COX5A	NM_004255	Homo sapiens cytochrome c oxidase subunit Va (COX5A), mRNA	Cytoplasm	enzyme	XM_005666147	PREDICTED: Sus scrofa cytochrome c oxidase subunit 5A, mitochondrial-like (LOC100156967), mRNA
seven	220781	SEC24D	XM_005263379	PREDICTED: Homo sapiens SEC24 family member D (SEC24D), transcript variant X2, mRNA	Cytoplasm	transporter	XM_003482451	PREDICTED: Sus scrofa protein transport protein Sec24D-like (LOC100739491), mRNA
seven	220782	NCAPD3	BC144524	Homo sapiens cDNA clone IMAGE:9053051	Nucleus	other	AK351659	Sus scrofa mRNA, clone:THY010056B11, expressed in thymus
seven	220805	CENPBD1	NM_145039	Homo sapiens CENPB DNA-binding domains containing 1 (CENPBD1), mRNA	Other	other	XR_297371	PREDICTED: Sus scrofa tigger transposable element-derived protein 1-like (LOC100739038), misc_RNA
seven	220832	ADSSL1	AK096124	Homo sapiens cDNA FLJ38805 fis, clone LIVER2005625, highly similar to Adenylosuccinate synthetase isozyme 1 (EC 6.3.4.4)	Cytoplasm	enzyme	AK392100	Sus scrofa mRNA, clone: HTMT10049F05, expressed in hypothalamus
seven	220878	IL17RC	XM_006713355	PREDICTED: Homo sapiens interleukin 17 receptor C (IL17RC), transcript variant X10, mRNA	Plasma Membrane	transmembrane receptor	XM_003483217	PREDICTED: Sus scrofa interleukin 17 receptor C (IL17RC), mRNA

cluster	array id	gene symbols	HSA accession	HSA description	location	property	SSC accession	SSC description
seven	220888	PKD1L2	NG_033236	Homo sapiens polycystic kidney disease 1-like 2 (PKD1L2), RefSeqGene on chromosome 16	Other	ion channel	XM_003353525	PREDICTED: Sus scrofa adenylate kinase 3 (AK3), transcript variant 2, mRNA
seven	220892	BPIFB2	NM_025227	Homo sapiens BPI fold containing family B, member 2 (BPIFB2), mRNA	Extracellular Space	other	AK350003	Sus scrofa mRNA, clone:SMG010025B12, expressed in submaxillary gland
seven	220926		AF268619	Homo sapiens chromosome 8 clone RP11-122C21 map q21.3, complete sequence			AK232293	Sus scrofa mRNA, clone:LVR010014A04, expressed in liver
seven	221390	RYR2	NG_008799	Homo sapiens ryanodine receptor 2 (cardiac) (RYR2), RefSeqGene on chromosome 1			KF971862	Sus scrofa domesticus breed Min mitochondrion, complete genome
eight	100088		BC082259	Homo sapiens cDNA clone IMAGE:6455860, **** WARNING: chimeric clone ****			AK392475	Sus scrofa mRNA, clone: HTMT10078B07, expressed in hypothalamus
eight	100714	NAV3	AC078822	Homo sapiens 12 BAC RP11-216I5 (Roswell Park Cancer Institute Human BAC Library) complete sequence	Nucleus	other	FQ976869	Pig DNA sequence from clone WTSI_1005-742M13 on chromosome X, complete sequence
eight	101610	ZFC3H1	NM_144982	Homo sapiens zinc finger, C3H1-type containing (ZFC3H1), mRNA	Extracellular Space	other	XM_005663984	PREDICTED: Sus scrofa zinc finger C3H1 domain-containing protein-like (LOC102159932), mRNA
eight	101682	SCAF11	XM_005269230	PREDICTED: Homo sapiens SR-related CTD-associated factor 11 (SCAF11), transcript variant X2, mRNA	Nucleus	other	XM_005664158	PREDICTED: Sus scrofa SR-related CTD-associated factor 11 (SCAF11), transcript variant X2, mRNA
eight	101994	ACTR3	AF127773	Homo sapiens cell-line E8CASS clone E43L mRNA, unknown protein	Plasma Membrane	other	AK398865	Sus scrofa mRNA, clone: ITT010074G12, expressed in intestine
eight	102103	GTF2H1	XM_006718208	PREDICTED: Homo sapiens general transcription factor IIH, polypeptide 1, 62kDa (GTF2H1), transcript variant X1, mRNA	Nucleus	transcription regulator	XM_003122936	PREDICTED: Sus scrofa general transcription factor IIH, polypeptide 1, 62kDa (GTF2H1), transcript variant X1, mRNA
eight	102270	IDO1	HQ447286	Synthetic construct Homo sapiens clone IMAGE:100070597; CCSB008326_01 indoleamine-pyrrole 2,3 dioxygenase (INDO) gene, encodes complete protein	Cytoplasm	enzyme	AK233866	Sus scrofa mRNA, clone:MLN010055C04, expressed in mesenteric lymph node
eight	102548	RP11-801F7	AC096772	Homo sapiens BAC clone RP11-801F7 from 2, complete sequence			AP009559	Sus scrofa genomic DNA, chromosome 7, BAC clone: L310C10, swine leukocyte antigen(SLA) classical class I region
eight	102737	RP11-190J23	AC013437	Homo sapiens BAC clone RP11-190J23 from 2, complete sequence			KF767443	Sus scrofa breed Wuzhishan mitochondrion, complete genome
eight	102866	CDH1	Z35415	H.sapiens gene encoding E-cadherin, exon 16			NM_001163060	Sus scrofa cadherin 1, type 1, E-cadherin (epithelial) (CDH1), mRNA >gi 209875156 gb EU805482.1 Sus scrofa E-cadherin mRNA, complete cds

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eight	102879	AHR	NM_001621	Homo sapiens aryl hydrocarbon receptor (AHR), mRNA	Nucleus	ligand-dependent nuclear receptor	XM_005667666	PREDICTED: Sus scrofa aryl hydrocarbon receptor (AHR), mRNA
eight	102930	ALDH1A1	NG_012249	Homo sapiens aldehyde dehydrogenase 1 family, member A1 (ALDH1A1), RefSeqGene on chromosome 9	Cytoplasm	enzyme	AK393964	Sus scrofa mRNA, clone: LVR010009D08, expressed in liver
eight	102965	GNPDA2	NR_073094	Homo sapiens glucosamine-6-phosphate deaminase 2 (GNPDA2), transcript variant 4, long non-coding RNA	Nucleus	enzyme	XM_005666627	PREDICTED: Sus scrofa glucosamine-6-phosphate deaminase 2 (GNPDA2), transcript variant X6, mRNA
eight	103013	WASF3	XM_005266239	PREDICTED: Homo sapiens WAS protein family, member 3 (WASF3), transcript variant X1, mRNA	Cytoplasm	other	AY803093	Sus scrofa chromosome 17 clone pkmCon20, mRNA sequence
eight	103145	SMURF2	XM_005257585	PREDICTED: Homo sapiens SMAD specific E3 ubiquitin protein ligase 2 (SMURF2), transcript variant X1, mRNA	Cytoplasm	enzyme	CU462851	Pig DNA sequence from clone CH242-125O4 on chromosome X, complete sequence
eight	103152	OTUD6B-AS1	BC030623	Homo sapiens cDNA clone IMAGE:4820809	Other	other	XR_302918	PREDICTED: Sus scrofa uncharacterized LOC100516731 (LOC100516731), transcript variant X2, misc_RNA
eight	103319	OIP5-AS1	BX648343	Homo sapiens mRNA; cDNA DKFZp686l16170 (from clone DKFZp686l16170)	Other	other	AY609705	Sus scrofa clone Clu_26808.scr.msk.p1.Contig1, mRNA sequence
eight	104821	GHITM	BC022872	Homo sapiens growth hormone inducible transmembrane protein, mRNA (cDNA clone IMAGE:4096553)	Cytoplasm	other	XM_005671154	PREDICTED: Sus scrofa growth hormone inducible transmembrane protein (GHITM), transcript variant X5, mRNA
eight	105164	LOXL2	NM_002318	Homo sapiens lysyl oxidase-like 2 (LOXL2), mRNA	Extracellular Space	enzyme	AK350047	Sus scrofa mRNA, clone:SMG010050A07, expressed in submaxillary gland
eight	105205	VPS51	NR_073519	Homo sapiens vacuolar protein sorting 51 homolog (S. cerevisiae) (VPS51), transcript variant 2, non-coding RNA	Cytoplasm	other	XM_005660714	PREDICTED: Sus scrofa vacuolar protein sorting 51 homolog (S. cerevisiae) (VPS51), transcript variant X2, mRNA
eight	200172	RP11-376M2	AC055866	Homo sapiens chromosome 17, clone RP11-376M2, complete sequence			CR974426	Pig DNA sequence from clone CH242-238N13 on chromosome 6, complete sequence
eight	200555	FBXO21	AC026368	Homo sapiens 12 BAC RP11-103B5 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_005657308	PREDICTED: Sus scrofa F-box protein 21 (FBXO21), transcript variant X1, mRNA

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eight	200639	SEMA3C	XM_005250113	PREDICTED: Homo sapiens sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C (SEMA3C), transcript variant X2, mRNA	Extracellular Space	other	XM_003482685	PREDICTED: Sus scrofa semaphorin-3C-like (LOC100736872), mRNA
eight	201202	MNAT1	AY165512	Homo sapiens menage a trois 1 (CAK assembly factor) (MNAT1) gene, complete cds			AK399724	Sus scrofa mRNA, clone: BMWN10044G11, expressed in bone marrow
eight	201515	MPC1	NG_032888	Homo sapiens mitochondrial pyruvate carrier 1 (MPC1), RefSeqGene on chromosome 6	Cytoplasm	other	XM_005654341	PREDICTED: Sus scrofa mitochondrial pyruvate carrier 1 (BRP44L), transcript variant X2, mRNA
eight	201706	HIST1H2BD	XM_005249039	PREDICTED: Homo sapiens histone cluster 1, H2bd (HIST1H2BD), transcript variant X1, mRNA	Nucleus	other	AK392937	Sus scrofa mRNA, clone: ITT010047E10, expressed in intestine
eight	201964	NCOA2	XM_005251133	PREDICTED: Homo sapiens nuclear receptor coactivator 2 (NCOA2), transcript variant X6, mRNA	Nucleus	transcription regulator	XM_005658189	PREDICTED: Sus scrofa nuclear receptor coactivator 2-like (LOC100626217), mRNA
eight	202196		FM206294	Cloning vector pchiLGHG1			AK352325	Sus scrofa mRNA, clone:UTR010052A01, expressed in uterus
eight	202235	ZFAND1	NG_016301	Homo sapiens zinc finger, AN1-type domain 1 pseudogene (LOC100129734) on chromosome 1			XM_003361195	PREDICTED: Sus scrofa zinc finger, AN1-type domain 1 (ZFAND1), transcript variant X2, mRNA
eight	202271	AHCYL2	NG_029180	Homo sapiens adenosylhomocysteinase-like 2 (AHCYL2), RefSeqGene on chromosome 7			AK237696	Sus scrofa mRNA, clone:SPL010081H07, expressed in spleen
eight	202355	SMURF2	XM_005257585	PREDICTED: Homo sapiens SMAD specific E3 ubiquitin protein ligase 2 (SMURF2), transcript variant X1, mRNA	Cytoplasm	enzyme	XM_003362012	PREDICTED: Sus scrofa SMAD specific E3 ubiquitin protein ligase 2 (SMURF2), partial mRNA
eight	202870	PCDH18	XM_005263070	PREDICTED: Homo sapiens protocadherin 18 (PCDH18), transcript variant X1, mRNA	Extracellular Space	other	CR956421	Pig DNA sequence from clone PigE-225A14 on chromosome 6, complete sequence
eight	203482		AC018475	Homo sapiens 12 BAC RP11-490G8 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_005664246	PREDICTED: Sus scrofa ubiquitin specific peptidase 44 (USP44), transcript variant X4, mRNA
eight	203736	RLIM	NG_013258	Homo sapiens ring finger protein, LIM domain interacting (RLIM), RefSeqGene on chromosome X			FP340171	Pig DNA sequence from clone CH242-282H7 on chromosome X, complete sequence
eight	205270	SNRNP40	EF011621	Homo sapiens CDW11/WDR57 mRNA, complete cds	Nucleus	other	AY610157	Sus scrofa clone Clu_8146.scr.msk.p1.Contig1, mRNA sequence

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eight	206194	SNHG12	HG491826	TPA: Homo sapiens SNHG12 gene for long non-coding RNA OTTHUMT00000010360.1, antisense			XR_303986	PREDICTED: Sus scrofa uncharacterized LOC100622481 (LOC100622481), transcript variant X3, misc_RNA
eight	206302	KLHL15	AL834313	Homo sapiens mRNA; cDNA DKFZp434M0516 (from clone DKFZp434M0516)	Other	other	CU928871	Pig DNA sequence from clone CH242-52A17 on chromosome X, complete sequence
eight	206867	NIPAL2	XM_005251069	PREDICTED: Homo sapiens NIPA-like domain containing 2 (NIPAL2), transcript variant X1, mRNA	Other	other	AK350699	Sus scrofa mRNA, clone:TCH010014A09, expressed in trachea
eight	206929		AC011296	Homo sapiens BAC clone RP11-96K1 from 7, complete sequence			CT867946	Pig DNA sequence from clone CH242-282A21 on chromosome 7, complete sequence
eight	208140	LACTB	XR_429442	PREDICTED: Homo sapiens lactamase, beta (LACTB), transcript variant X2, misc_RNA	Cytoplasm	other	NM_001243362	Sus scrofa lactamase, beta (LACTB), mRNA
eight	208212	FOXQ1	AL499606	Human DNA sequence from clone RP11-13J16 on chromosome 6, complete sequence	Nucleus	transcription regulator	CT737331	Pig DNA sequence from clone CH242-117J19 on chromosome 7, complete sequence
eight	208221	CTSV	XM_006716960	PREDICTED: Homo sapiens cathepsin V (CTSV), transcript variant X1, mRNA	Cytoplasm	peptidase	AK233288	Sus scrofa mRNA, clone:LVRM10117B02, expressed in liver
eight	208677	CLIP4	NR_109844	Homo sapiens CAP-GLY domain containing linker protein family, member 4 (CLIP4), transcript variant 4, long non-coding RNA	Other	other	XM_005662652	PREDICTED: Sus scrofa CAP-GLY domain containing linker protein family, member 4 (CLIP4), mRNA
eight	209207	MPHOSPH6	AC138304	Homo sapiens chromosome 16 clone CTD-2588J6, complete sequence	Nucleus	other	KF767443	Sus scrofa breed Wuzhishan mitochondrion, complete genome
eight	209417	IRF2	XM_005262986	PREDICTED: Homo sapiens interferon regulatory factor 2 (IRF2), transcript variant X4, mRNA	Nucleus	transcription regulator	XM_005671703	PREDICTED: Sus scrofa interferon regulatory factor 2 (IRF2), transcript variant X6, mRNA
eight	209637	LAT	NM_001014989	Homo sapiens linker for activation of T cells (LAT), transcript variant 4, mRNA >gj 15079450 gb BC011563.1 Homo sapiens linker for activation of T cells, mRNA (cDNA clone MGC:20145 IMAGE:4644259), complete cds	Plasma Membrane	kinase	AK396043	Sus scrofa mRNA, clone: PBL010031B08, expressed in peripheral blood lymphocytes
eight	209640	MAP2K7	XM_005272490	PREDICTED: Homo sapiens mitogen-activated protein kinase kinase 7 (MAP2K7), transcript variant X2, mRNA	Cytoplasm	kinase	XM_003123197	PREDICTED: Sus scrofa mitogen-activated protein kinase kinase 7 (MAP2K7), transcript variant X1, mRNA
eight	209649	KLKB1	NG_012095	Homo sapiens kallikrein B, plasma (Fletcher factor) 1 (KLKB1), RefSeqGene on chromosome 4	Extracellular Space	peptidase	XM_005671745	PREDICTED: Sus scrofa cytochrome P450, family 4, subfamily v, polypeptide 2 (CYP4V2), mRNA

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eight	209666		CU633979	Human DNA sequence from clone CH507-183B21 on chromosome 21, complete sequence			XM_005672162	PREDICTED: Sus scrofa MLV-related proviral Env polyprotein-like (LOC102162699), mRNA
eight	209685	GAL	XM_006718580	PREDICTED: Homo sapiens galanin/GMAP prepropeptide (GAL), transcript variant X1, mRNA	Extracellular Space	other	NM_214234	Sus scrofa galanin/GMAP prepropeptide (GAL), mRNA >gi 164605 gb M13826.1 PIPGAL Pig preprogalanin mRNA, complete cds
eight	209711	STX7	NM_003569	Homo sapiens syntaxin 7 (STX7), mRNA	Plasma Membrane	transporter	AY610058	Sus scrofa clone Clu_607.scr.msk.p1.Contig1, mRNA sequence
eight	209722	JUNB	AY751746	Homo sapiens jun B proto-oncogene (JUNB) gene, complete cds	Nucleus	transcription regulator	XM_005674483	PREDICTED: Sus scrofa jun B proto-oncogene (JUNB), mRNA
eight	209724	RPL13P	NG_009510	Homo sapiens ribosomal protein L13 pseudogene (RPL13P) on chromosome 6			NM_001243345	Sus scrofa ribosomal protein L13 (RPL13), mRNA
eight	209736	CHST2	NG_029828	Homo sapiens carbohydrate (N-acetylglucosamine-6-O) sulfotransferase 2 (CHST2), RefSeqGene on chromosome 3	Cytoplasm	enzyme	XM_005659982	PREDICTED: Sus scrofa mitogen-activated protein kinase 1 interacting protein 1-like (MAPK1IP1L), transcript variant X2, mRNA
eight	209745	THEMIS	XM_006715476	PREDICTED: Homo sapiens thymocyte selection associated (THEMIS), transcript variant X2, mRNA >gi 578839550 ref XM_006725018.1 PREDICTED: Homo sapiens thymocyte selection associated (THEMIS), transcript variant X2, mRNA	Cytoplasm	other	XM_003353218	PREDICTED: Sus scrofa thymocyte selection associated (THEMIS), mRNA
eight	209749	IRAK2	XR_245126	PREDICTED: Homo sapiens interleukin-1 receptor-associated kinase 2 (IRAK2), transcript variant X1, misc_RNA	Plasma Membrane	kinase	NM_001123104	Sus scrofa cathepsin Z (CTSZ), mRNA
eight	209772	CARHSP1	XM_005255229	PREDICTED: Homo sapiens calcium regulated heat stable protein 1, 24kDa (CARHSP1), transcript variant X2, mRNA	Cytoplasm	other	CU207402	Pig DNA sequence from clone CH242-503G1 on chromosome X, complete sequence
eight	209775	SLC35D3	NM_001008783	Homo sapiens solute carrier family 35, member D3 (SLC35D3), mRNA >gi 56789667 gb BC087842.1 Homo sapiens solute carrier family 35, member D3, mRNA (cDNA clone MGC:102873 IMAGE:6191889), complete cds	Other	other	XM_005674369	PREDICTED: Sus scrofa solute carrier family 35 member D3-like (LOC100513699), mRNA
eight	209784	TMEM110	BC047015	Homo sapiens transmembrane protein 110, mRNA (cDNA clone MGC:52022 IMAGE:5199769), complete cds	Other	other	AK234441	Sus scrofa mRNA, clone:OVR010062C03, expressed in ovary

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eight	209807	AKAP8	FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			XM_005652900	PREDICTED: Sus scrofa A kinase (PRKA) anchor protein 8 (AKAP8), transcript variant X3, mRNA
eight	209820	TMEM88	NM_203411	Homo sapiens transmembrane protein 88 (TMEM88), mRNA >gi 35505318 gb BC057812.1 Homo sapiens transmembrane protein 88, mRNA (cDNA clone MGC:71744 IMAGE:30332216), complete cds	Other	other	XM_003131950	PREDICTED: Sus scrofa transmembrane protein 88-like (LOC100523138), mRNA
eight	209916		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			AK394322	Sus scrofa mRNA, clone: LVRM10170D01, expressed in liver
eight	209925	ECE1	XM_006710398	PREDICTED: Homo sapiens endothelin converting enzyme 1 (ECE1), transcript variant X1, mRNA	Plasma Membrane	peptidase	XM_005665090	PREDICTED: Sus scrofa endothelin converting enzyme 1 (ECE1), transcript variant X4, mRNA
eight	209949	MTND2P11	NG_032423	Homo sapiens MT-ND2 pseudogene 11 (MTND2P11) on chromosome 9			KF971862	Sus scrofa domesticus breed Min mitochondrion, complete genome
eight	209962	RGS19	XM_005260182	PREDICTED: Homo sapiens regulator of G-protein signaling 19 (RGS19), transcript variant X1, mRNA	Cytoplasm	other	AK396147	Sus scrofa mRNA, clone: PBL010085H12, expressed in peripheral blood lymphocytes
eight	210038	IKBKB	NM_001190720	Homo sapiens inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta (IKBKB), transcript variant 2, mRNA	Cytoplasm	kinase	NM_001099935	Sus scrofa inhibitor of kappa light polypeptide gene enhancer in B cells, kinase beta (IKBKB), mRNA >gi 146741293 dbj AB271927.1 Sus scrofa IKBKB mRNA for inhibitor of kappa light chain gene enhancer in B cells, kinase beta, complete cds
eight	210069	LOC102724129	XR_429970	PREDICTED: Homo sapiens uncharacterized LOC102724129 (LOC102724129), ncRNA >gi 578846432 ref XR_433391.1 PREDICTED: Homo sapiens uncharacterized LOC102724129 (LOC102724129), ncRNA	Other	other	XR_309518	PREDICTED: Sus scrofa chondroitin sulfate proteoglycan 4-like (LOC100736763), misc_RNA
eight	210108		FM206294	Cloning vector pchilGHG1			XM_005666449	PREDICTED: Sus scrofa ankyrin repeat domain 9 (ANKRD9), transcript variant X6, mRNA
eight	210180	ADORA1	XM_005244902	PREDICTED: Homo sapiens adenosine A1 receptor (ADORA1), transcript variant X4, mRNA	Plasma Membrane	G-protein coupled receptor	XM_005653725	PREDICTED: Sus scrofa A1 adenosine receptor (LOC606743), transcript variant X4, mRNA
eight	210212		AL590383	Human DNA sequence from clone RP11-213N20 on chromosome 6, complete sequence			AK348489	Sus scrofa mRNA, clone:OVRM10181D01, expressed in ovary
eight	210225	TREX2	NG_029986	Homo sapiens three prime repair exonuclease 2 (TREX2), RefSeqGene on chromosome X	Nucleus	enzyme	XM_005673990	PREDICTED: Sus scrofa three prime repair exonuclease 2 (TREX2), transcript variant X2, mRNA

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eight	210253	C3P1	NR_027300	Homo sapiens complement component 3 precursor pseudogene (C3P1), non-coding RNA	Other	other	XM_005654852	PREDICTED: Sus scrofa complement C3-like (LOC100517145), mRNA
eight	210333		HG493384	TPA: Homo sapiens RP11-261C10.2 gene for long non-coding RNA OTTHUMT0000096162.1, lincRNA			XM_003124455	PREDICTED: Sus scrofa cytochrome c oxidase subunit 6A2, mitochondrial-like (LOC100519594), transcript variant 2, mRNA
eight	210337	EHMT2	XM_005275343	PREDICTED: Homo sapiens euchromatic histone-lysine N-methyltransferase 2 (EHMT2), transcript variant X1, mRNA	Nucleus	transcription regulator	XM_005665803	PREDICTED: Sus scrofa euchromatic histone-lysine N-methyltransferase 2 (EHMT2), transcript variant X2, mRNA
eight	210405	ETV5	NM_004454	Homo sapiens ets variant 5 (ETV5), mRNA	Nucleus	transcription regulator	NM_001243025	Sus scrofa ets variant 5 (ETV5), mRNA >gj 115550671 dbj AK232501.1 Sus scrofa mRNA, clone:LVR010056E07, expressed in liver
eight	210408	APCDD1	AK303076	Homo sapiens cDNA FLJ61194 complete cds, highly similar to Protein APCDD1 precursor	Plasma Membrane	other	AK240176	Sus scrofa mRNA, clone:UTR010038C09, expressed in uterus
eight	210422	JMJD8	XM_005255297	PREDICTED: Homo sapiens jumonji domain containing 8 (JMJD8), transcript variant X3, mRNA	Other	other	AK398260	Sus scrofa mRNA, clone: TES010077C10, expressed in testis
eight	210501	SIGMAR1	NR_104108	Homo sapiens sigma non-opioid intracellular receptor 1 (SIGMAR1), transcript variant 11, long non-coding RNA	Plasma Membrane	G-protein coupled receptor	AK233635	Sus scrofa mRNA, clone:LVRM10193D04, expressed in liver
eight	210543		AC020658	Homo sapiens chromosome 15 clone RP11-133K1 map 15q14, complete sequence			CU466934	Pig DNA sequence from clone CH242-34E1 on chromosome 12, complete sequence
eight	210563	PRPF6	XM_006723769	PREDICTED: Homo sapiens pre-mRNA processing factor 6 (PRPF6), transcript variant X1, mRNA	Nucleus	transcription regulator	XM_005658350	PREDICTED: Sus scrofa pre-mRNA-processing factor 6-like (LOC100624623), mRNA
eight	210587	GLTSCR2	NM_015710	Homo sapiens glioma tumor suppressor candidate region gene 2 (GLTSCR2), mRNA	Cytoplasm	other	AK399375	Sus scrofa mRNA, clone: THY010077E08, expressed in thymus
eight	210637	KNTC1	XM_006719706	PREDICTED: Homo sapiens kinetochore associated 1 (KNTC1), transcript variant X1, mRNA	Nucleus	other	XM_005670611	PREDICTED: Sus scrofa kinetochore-associated protein 1-like (LOC100739587), mRNA
eight	210658	ENDOD1	NM_015036	Homo sapiens endonuclease domain containing 1 (ENDOD1), mRNA	Extracellular Space	enzyme	XM_005667258	PREDICTED: Sus scrofa endonuclease domain-containing 1 protein-like (LOC102162960), mRNA
eight	210687		AC254822	Homo sapiens chromosome 17 clone CH17-169A24, complete sequence			XM_005654427	PREDICTED: Sus scrofa CXXC finger protein 1 (CXXC1), transcript variant X2, mRNA

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eight	210692	C1orf168	XM_006710416	PREDICTED: Homo sapiens chromosome 1 open reading frame 168 (C1orf168), transcript variant X5, mRNA	Other	other	AY610196	Sus scrofa clone Clu_9297.scr.msk.p1.Contig1, mRNA sequence
eight	210723		AK129817	Homo sapiens cDNA FLJ26306 fis, clone DMC08285			AK391095	Sus scrofa mRNA, clone: CLNT10063E02, expressed in colon
eight	211066	SNAP29	AB527222	Synthetic construct DNA, clone: pF1KB3929, Homo sapiens SNAP29 gene for synaptosomal-associated protein, 29kDa, without stop codon, in Flexi system			XM_003132993	PREDICTED: Sus scrofa synaptosomal-associated protein, 29kDa (SNAP29), mRNA
eight	211124	PODN	XM_005270457	PREDICTED: Homo sapiens podocan (PODN), transcript variant X1, mRNA	Cytoplasm	other	XM_005665414	PREDICTED: Sus scrofa podocan (PODN), mRNA
eight	211189	TAOK2	AF061943	Homo sapiens prostate derived STE20-like kinase PSK mRNA, complete cds	Cytoplasm	kinase	AY610332	Sus scrofa clone rebs05c_e19.y1.abd, mRNA sequence
eight	211235	ST8SIA5	XM_006722444	PREDICTED: Homo sapiens ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 5 (ST8SIA5), transcript variant X3, mRNA	Cytoplasm	enzyme	XM_005674101	PREDICTED: Sus scrofa alpha-2,8-sialyltransferase 8E-like (LOC100622364), mRNA
eight	211898	POU3F2	NM_005604	Homo sapiens POU class 3 homeobox 2 (POU3F2), mRNA	Nucleus	transcription regulator	XM_001926241	PREDICTED: Sus scrofa POU class 3 homeobox 2 (POU3F2), mRNA
eight	211981	STX2	XM_006719276	PREDICTED: Homo sapiens syntaxin 2 (STX2), transcript variant X3, mRNA	Cytoplasm	transporter	XM_005670541	PREDICTED: Sus scrofa syntaxin 2 (STX2), transcript variant X7, mRNA
eight	212151	KIZ	NM_001276389	Homo sapiens kizuna centrosomal protein (KIZ), transcript variant 4, mRNA	Cytoplasm	other	XM_005672747	PREDICTED: Sus scrofa polo-like kinase 1 substrate 1 (PLK1S1), transcript variant X9, mRNA
eight	212317	AAED1	XM_005251783	PREDICTED: Homo sapiens AhpC/TSA antioxidant enzyme domain containing 1 (AAED1), transcript variant X1, mRNA	Other	other	XM_003130857	PREDICTED: Sus scrofa thioredoxin-like protein AAED1-like (LOC100524271), transcript variant 2, mRNA
eight	212375	Iva3300	KC994059	Homo sapiens isolate Iva3300_Ivatan mitochondrion, complete genome			KF971862	Sus scrofa domesticus breed Min mitochondrion, complete genome
eight	212987	SLC16A8	AC225929	Homo sapiens FOSMID clone ABC14-5014450019 from chromosome 22, complete sequence			XM_003126028	PREDICTED: Sus scrofa solute carrier family 16 (monocarboxylate transporter), member 8 (SLC16A8), mRNA
eight	213228	NLE1	NM_018096	Homo sapiens notchless homolog 1 (Drosophila) (NLE1), transcript variant 1, mRNA	Nucleus	enzyme	AK234211	Sus scrofa mRNA, clone:OVR010027H12, expressed in ovary
eight	213525	RPL6P19	NG_010443	Homo sapiens ribosomal protein L6 pseudogene 19 (RPL6P19) on chromosome 7			AK233901	Sus scrofa mRNA, clone:MLN010064B06, expressed in mesenteric lymph node
eight	213808	GP9	NG_008715	Homo sapiens glycoprotein IX (platelet) (GP9), RefSeqGene on chromosome 3	Plasma Membrane	other	FJ410295	Sus scrofa platelet glycoprotein IX (GPIX) gene, complete cds

cluster	array id	gene symbols	HSA accession	HSA description	location	property	SSC accession	SSC description
eight	213818	DENND1A	XM_005252113	PREDICTED: Homo sapiens DENN/MADD domain containing 1A (DENND1A), transcript variant X5, mRNA	Plasma Membrane	other	XM_005660419	PREDICTED: Sus scrofa DENN/MADD domain containing 1A (DENND1A), mRNA
eight	214245	PCDHA1	NM_031411	Homo sapiens protocadherin alpha 1 (PCDHA1), transcript variant 3, mRNA	Plasma Membrane	other	AK398457	Sus scrofa mRNA, clone: THY010088H10, expressed in thymus
eight	214380	VPS28	XM_005272324	PREDICTED: Homo sapiens vacuolar protein sorting 28 homolog (S. cerevisiae) (VPS28), transcript variant X3, mRNA	Cytoplasm	transporter	XM_001927458	PREDICTED: Sus scrofa vacuolar protein sorting 28 homolog (S. cerevisiae) (VPS28), mRNA
eight	214475	RPL10	NM_001256580	Homo sapiens ribosomal protein L10 (RPL10), transcript variant 3, mRNA	Cytoplasm	other	AK351230	Sus scrofa mRNA, clone:TES010040D10, expressed in testis
eight	214536	NDUFA13	NM_015965	Homo sapiens NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 13 (NDUFA13), mRNA	Cytoplasm	enzyme	AK400086	Sus scrofa mRNA, clone: HTMT10152A07, expressed in hypothalamus
eight	215046	SYT1	XM_006719576	PREDICTED: Homo sapiens synaptotagmin I (SYT1), transcript variant X2, mRNA	Cytoplasm	transporter	XM_005652623	PREDICTED: Sus scrofa synaptotagmin I (SYT1), transcript variant X2, mRNA
eight	215050	MAP4K5	XM_006720014	PREDICTED: Homo sapiens mitogen-activated protein kinase kinase kinase 5 (MAP4K5), transcript variant X2, mRNA	Cytoplasm	kinase	EF168256	Sus scrofa clone KVL12164 microsatellite sequence
eight	215051	CIC	XM_005258675	PREDICTED: Homo sapiens capicua transcriptional repressor (CIC), transcript variant X3, mRNA	Other	other	XR_130659	PREDICTED: Sus scrofa protein capicua homolog (LOC100515732), misc_RNA
eight	215118	KIF3B	NM_004798	Homo sapiens kinesin family member 3B (KIF3B), mRNA	Cytoplasm	transporter	AK395117	Sus scrofa mRNA, clone: OVRM10071H10, expressed in ovary
eight	215134		FM206294	Cloning vector pchiIGHG1			L36913	Pig microsatellite DNA (CA repeat)
eight	215137	NKAIN2	XR_427963	PREDICTED: Homo sapiens Na ⁺ /K ⁺ transporting ATPase interacting 2 (NKAIN2), transcript variant X6, misc_RNA	Other	other	XM_003133447	PREDICTED: Sus scrofa UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 3 (GalNAc-T3) (GALNT3), mRNA
eight	215160	ING4	AC135892	Homo sapiens 12 BAC RP11-433J6 (Roswell Park Cancer Institute Human BAC Library) complete sequence			XM_005652599	PREDICTED: Sus scrofa inhibitor of growth family, member 4 (ING4), mRNA
eight	215433	RPL3	AB062291	Homo sapiens OK/SW-cl.32 mRNA for ribosomal protein L3, complete cds	Cytoplasm	other	FN677123	Sus scrofa BAC clone CHORI242_271H15_Contig31
eight	215912	NPAS3	XM_005267993	PREDICTED: Homo sapiens neuronal PAS domain protein 3 (NPAS3), transcript variant X3, mRNA	Nucleus	other	XM_005666206	PREDICTED: Sus scrofa neuronal PAS domain protein 3 (NPAS3), mRNA
eight	216120	ING1	FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			XM_005658158	PREDICTED: Sus scrofa inhibitor of growth family, member 1 (ING1), partial mRNA

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eight	216121		AL603908	Human DNA sequence from clone RP11-331O9 on chromosome 6, complete sequence			KF971862	Sus scrofa domesticus breed Min mitochondrion, complete genome
eight	216160	CLEC1A	BC067746	Homo sapiens C-type lectin domain family 1, member A, mRNA (cDNA clone MGC:87010 IMAGE:30337675), complete cds	Plasma Membrane	transmembrane receptor	XM_003126483	PREDICTED: Sus scrofa C-type lectin domain family 1, member A (CLEC1A), transcript variant 1, mRNA
eight	216274	HTR1A	AC122707	Homo sapiens chromosome 5 clone RP11-158J3, complete sequence	Plasma Membrane	G-protein coupled receptor	XM_005658297	PREDICTED: Sus scrofa protein FAM210A-like (LOC100626126), transcript variant X4, mRNA
eight	216286	UBE2D3	NM_003340	Homo sapiens ubiquitin-conjugating enzyme E2D 3 (UBE2D3), transcript variant 1, mRNA	Cytoplasm	enzyme	CU074298	Pig DNA sequence from clone CH242-141E21 on chromosome 1, complete sequence
eight	216527	EPB41L5	NM_001184939	Homo sapiens erythrocyte membrane protein band 4.1 like 5 (EPB41L5), transcript variant 4, mRNA	Plasma Membrane	other	AK232106	Sus scrofa mRNA, clone:LNG010080E12, expressed in lung
eight	216633		FM206294	Cloning vector pchilGHG1			XM_005670930	PREDICTED: Sus scrofa calcineurin binding protein 1 (CABIN1), mRNA
eight	216658		FM206294	Cloning vector pchilGHG1			L36913	Pig microsatellite DNA (CA repeat)
eight	216677		AC100793	Homo sapiens chromosome 17, clone CTD-3193K9, complete sequence			CT737356	Pig DNA sequence from clone CH242-131H21 on chromosome 14, complete sequence
eight	216701	CELA2A	AL512883	Human DNA sequence from clone RP11-265F14 on chromosome 1, complete sequence			NM_214109	Sus scrofa chymotrypsin-like elastase family, member 2A (CELA2A), mRNA >gi 164441 gb M16651.1 PIGELAPII Porcine pancreatic elastase II mRNA, complete cds
eight	216725	ZMPSTE24	NM_005857	Homo sapiens zinc metallopeptidase STE24 (ZMPSTE24), mRNA	Nucleus	peptidase	FN673819	Sus scrofa BAC clone KNP_1682F12
eight	216732	RBM12	DQ656050	Homo sapiens clone UGL055-A-E5, mRNA sequence			XM_003483947	PREDICTED: Sus scrofa RNA binding motif protein 12 (RBM12), transcript variant X2, mRNA
eight	216874	TM7SF3	FM206294	Cloning vector pchilGHG1			XM_001925025	PREDICTED: Sus scrofa transmembrane 7 superfamily member 3 (TM7SF3), mRNA
eight	216904	RP11-413H22	AC092140	Homo sapiens chromosome 16 clone RP11-413H22, complete sequence			FN673790	Sus scrofa BAC clone KNP_1231E9
eight	216957	ST8SIA3	NM_015879	Homo sapiens ST8 alpha-N-acetylneuraminide alpha-2,8-sialyltransferase 3 (ST8SIA3), mRNA	Cytoplasm	enzyme	CR956417	Pig DNA sequence from clone CH242-300K12 on chromosome 17, complete sequence
eight	217062	DSG2	BC099655	Homo sapiens desmoglein 2, mRNA (cDNA clone MGC:117034 IMAGE:40008691), complete cds	Plasma Membrane	other	XM_003356392	PREDICTED: Sus scrofa desmoglein 2 (DSG2), mRNA

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eight	217090	CSTF2	AB528418	Synthetic construct DNA, clone: pF1KB5995, Homo sapiens CSTF2 gene for Cleavage stimulation factor 64 kDa subunit, without stop codon, in Flexi system			XM_005673758	PREDICTED: Sus scrofa cleavage stimulation factor, 3' pre-RNA, subunit 2, 64kDa (CSTF2), transcript variant X3, mRNA
eight	217273	HMGA1P1	NG_002324	Homo sapiens high mobility group AT-hook 1 pseudogene 1 (HMGA1P1) on chromosome X			NM_001185155	Sus scrofa high mobility group AT-hook 1 (HMGA1), transcript variant 2, mRNA
eight	217341	BRD4	AC004798	Homo sapiens chromosome 19, cosmid R31546, complete sequence	Nucleus	kinase	XM_005652892	PREDICTED: Sus scrofa bromodomain containing 4 (BRD4), transcript variant X2, mRNA
eight	217561	CACNB3	NG_030048	Homo sapiens calcium channel, voltage-dependent, beta 3 subunit (CACNB3), RefSeqGene on chromosome 12	Plasma Membrane	ion channel	XR_298429	PREDICTED: Sus scrofa probable ATP-dependent RNA helicase DDX23-like (LOC100737526), misc_RNA
eight	217657	SLC5A1	NG_017045	Homo sapiens solute carrier family 5 (sodium/glucose cotransporter), member 1 (SLC5A1), RefSeqGene on chromosome 22			NM_001164021	Sus scrofa solute carrier family 5 (sodium/glucose cotransporter), member 1 (SLC5A1), mRNA
eight	217702	NSUN2	AK000310	Homo sapiens cDNA FLJ20303 fis, clone HEP06676	Nucleus	enzyme	AK349096	Sus scrofa mRNA, clone: PCT010033C10, expressed in placenta
eight	217752	RPS24	NG_012633	Homo sapiens ribosomal protein S24 (RPS24), RefSeqGene on chromosome 10	Cytoplasm	other	XM_003359244	PREDICTED: Sus scrofa 40S ribosomal protein S24-like (LOC100155012), transcript variant X3, mRNA
eight	217854	FAM208B	XM_005252481	PREDICTED: Homo sapiens family with sequence similarity 208, member B (FAM208B), transcript variant X8, mRNA	Other	other	AK399966	Sus scrofa mRNA, clone: HTMT10108D08, expressed in hypothalamus
eight	217885	CEP135	XM_006714055	PREDICTED: Homo sapiens centrosomal protein 135kDa (CEP135), transcript variant X2, mRNA	Cytoplasm	other	FN677201	Sus scrofa BAC clone CHORI242_428L16_Contig107
eight	217931	CH507-510L4	FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			XM_005662339	PREDICTED: Sus scrofa sulfotransferase family, cytosolic, 1C, member 4 (SULT1C4), mRNA
eight	218004	APOB	HM487065	Homo sapiens mutant Apo B 100 mRNA, complete cds	Extracellular Space	transporter	XM_005674443	PREDICTED: Sus scrofa apolipoprotein B (including Ag(x) antigen) (APOB), mRNA
eight	218027	RP11-1143G9	AC020656	Homo sapiens 12 BAC RP11-1143G9 (Roswell Park Cancer Institute Human BAC Library) complete sequence			AB221039	Sus scrofa or10k2, or10r2, cd1a1, or10r3, or10k3 genes for putative olfactory receptor 10K2, putative olfactory receptor 10R2, CD1A1 antigen, putative olfactory receptor 10R3, putative olfactory receptor 10K3, complete cds

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eight	218061	RP11-559N14	AC016182	Homo sapiens chromosome 17, clone RP11-559N14, complete sequence			XM_005666716	PREDICTED: Sus scrofa nitric oxide-associated protein 1-like (LOC100621115), transcript variant X1, mRNA
eight	218114	PAM	NM_138822	Homo sapiens peptidylglycine alpha-amidating monooxygenase (PAM), transcript variant 4, mRNA	Plasma Membrane	enzyme	XM_003123808	PREDICTED: Sus scrofa peptidylglycine alpha-amidating monooxygenase (PAM), transcript variant X3, mRNA
eight	218216	P2RX5-TAX1BF	NR_037928	Homo sapiens P2RX5-TAX1BP3 readthrough (NMD candidate) (P2RX5-TAX1BP3), long non-coding RNA	Other	other	XM_003131865	PREDICTED: Sus scrofa purinergic receptor P2X, ligand-gated ion channel, 5 (P2RX5), partial mRNA
eight	218470	EXOC2	XM_006715142	PREDICTED: Homo sapiens exocyst complex component 2 (EXOC2), transcript variant X2, mRNA	Cytoplasm	transporter	XM_005656207	PREDICTED: Sus scrofa exocyst complex component 2 (EXOC2), transcript variant X2, mRNA
eight	218524	ANKZF1	FM206294	Cloning vector pchilGHG1			XM_005672231	PREDICTED: Sus scrofa ankyrin repeat and zinc finger domain containing 1 (ANKZF1), transcript variant X4, mRNA
eight	218541	RPL7	XM_006716463	PREDICTED: Homo sapiens ribosomal protein L7 (RPL7), transcript variant X1, mRNA	Nucleus	transcription regulator	NM_001113217	Sus scrofa ribosomal protein L7 (RPL7), mRNA >gi 56384246 gb AY735454.1 Sus scrofa ribosomal protein L7 mRNA, complete cds
eight	218713	YTHDC1	XM_005265708	PREDICTED: Homo sapiens YTH domain containing 1 (YTHDC1), transcript variant X3, mRNA >gi 578839456 ref XM_005275639.2 PREDICTED: Homo sapiens YTH domain containing 1 (YTHDC1), transcript variant X3, mRNA	Cytoplasm	other	CR956638	Pig DNA sequence from clone CH242-204B8 on chromosome 17, complete sequence
eight	218795	RPL27A	AK311767	Homo sapiens cDNA, FLJ92028, Homo sapiens ribosomal protein L27a (RPL27A), mRNA	Nucleus	other	XM_003129379	PREDICTED: Sus scrofa ribosomal protein L27a (RPL27A), transcript variant X1, mRNA
eight	218829	CST9L	NM_080610	Homo sapiens cystatin 9-like (CST9L), mRNA >gi 20987685 gb BC029656.1 Homo sapiens cystatin 9-like, mRNA (cDNA clone MGC:34724 IMAGE:5163974), complete cds	Extracellular Space	other	XM_003134304	PREDICTED: Sus scrofa cystatin 9 (testatin) (CST9), mRNA
eight	219254	ATG10	XM_005248610	PREDICTED: Homo sapiens autophagy related 10 (ATG10), transcript variant X1, mRNA	Plasma Membrane	enzyme	XM_005661529	PREDICTED: Sus scrofa autophagy related 10 (ATG10), transcript variant X2, mRNA
eight	219351	ITGB5	XM_006713630	PREDICTED: Homo sapiens integrin, beta 5 (ITGB5), transcript variant X2, mRNA	Plasma Membrane	other	NM_001246669	Sus scrofa integrin, beta 5 (ITGB5), mRNA >gi 347311051 gb JF748726.1 Sus scrofa ITGB5 mRNA, complete cds

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eight	220053	MYD88	XM_006713170	PREDICTED: Homo sapiens myeloid differentiation primary response 88 (MYD88), transcript variant X2, mRNA	Plasma Membrane	other	EU056737	Sus scrofa Myd88 gene, complete cds
eight	220141	RPL23AP42	NG_010965	Homo sapiens ribosomal protein L23a pseudogene 42 (RPL23AP42) on chromosome 3			AK392211	Sus scrofa mRNA, clone: HTMT10056G09, expressed in hypothalamus
eight	220228		FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			FP074894	Pig DNA sequence from clone CH242-404B10 on chromosome X, complete sequence
eight	220677	PLCD4	FM206294	Cloning vector pchilGHG1			XM_005672191	PREDICTED: Sus scrofa phospholipase C, delta 4 (PLCD4), transcript variant X6, mRNA
eight	220875	LINC01250	AC247146	Homo sapiens BAC clone CH17-268D12 from chromosome 2, complete sequence	Other	other	AK230935	Sus scrofa mRNA, clone:AMP010066F01, expressed in alveolar macrophage
eight	220909	OSBPL9	XM_006710323	PREDICTED: Homo sapiens oxysterol binding protein-like 9 (OSBPL9), transcript variant X6, mRNA	Cytoplasm	other	XM_005665437	PREDICTED: Sus scrofa oxysterol binding protein-like 9 (OSBPL9), transcript variant X7, mRNA
eight	221055	CHCHD5	NM_032309	Homo sapiens coiled-coil-helix-coiled-coil-helix domain containing 5 (CHCHD5), mRNA >gi 33872826 gb BC004498.2 Homo sapiens coiled-coil-helix-coiled-coil-helix domain containing 5, mRNA (cDNA clone MGC:11104 IMAGE:3831856), complete cds	Other	other	AK233969	Sus scrofa mRNA, clone:MLN010083F06, expressed in mesenteric lymph node
eight	221106	KLK10	XM_006723289	PREDICTED: Homo sapiens kallikrein-related peptidase 10 (KLK10), transcript variant X5, mRNA	Extracellular Space	peptidase	AC149292	Sus scrofa clone ch242-69g11, complete sequence
eight	221110	HIF1AN	NM_017902	Homo sapiens hypoxia inducible factor 1, alpha subunit inhibitor (HIF1AN), mRNA	Nucleus	enzyme	XM_003125588	PREDICTED: Sus scrofa hypoxia-inducible factor 1-alpha inhibitor-like (LOC100513467), mRNA >gi 545871599 ref XM_003359328.2 PREDICTED: Sus scrofa hypoxia inducible factor 1, alpha subunit inhibitor (HIF1AN), mRNA
eight	221207	GNAS	BC036081	Homo sapiens GNAS complex locus, mRNA (cDNA clone IMAGE:5302402), containing frame-shift errors	Plasma Membrane	enzyme	NM_001130215	Sus scrofa GNAS complex locus (GNAS), transcript variant 4, mRNA
nine	100084	Recepin	AB528012	Synthetic construct DNA, clone: pF1KB7771, Homo sapiens AC106900,1 gene for CBF1-interacting corepressor (Recepin), without stop codon, in Flexi system			NM_001243831	Sus scrofa corepressor interacting with RBPJ, 1 (CIR1), mRNA >gi 288782609 dbj AK344620.1 Sus scrofa mRNA, clone:DCI010087D05, expressed in dendritic cells (immature)

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nine	101129	PPP2R5C	XM_005267827	PREDICTED: Homo sapiens protein phosphatase 2, regulatory subunit B, gamma (PPP2R5C), transcript variant X9, mRNA	Nucleus	other	XR_304700	PREDICTED: Sus scrofa uncharacterized LOC100620346 (LOC100620346), misc_RNA
nine	101377	MTRNR2L8	NM_001190702	Homo sapiens MT-RNR2-like 8 (MTRNR2L8), mRNA	Other	other	KF767443	Sus scrofa breed Wuzhishan mitochondrion, complete genome
nine	102782	CRP	AF474411	Expression vector GM-C79, partial sequence			NM_213844	Sus scrofa C-reactive protein, pentraxin-related (CRP), mRNA
nine	102956	ZNF792	XM_005258519	PREDICTED: Homo sapiens zinc finger protein 792 (ZNF792), transcript variant X1, mRNA	Other	other	CU914429	Pig DNA sequence from clone CH242-386O15 on chromosome X, complete sequence
nine	103003	LDB2	XM_006713984	PREDICTED: Homo sapiens LIM domain binding 2 (LDB2), transcript variant X19, mRNA	Nucleus	transcription regulator	XR_304759	PREDICTED: Sus scrofa uncharacterized LOC100627015 (LOC100627015), transcript variant X4, misc_RNA
nine	104699	CRY1	NM_004075	Homo sapiens cryptochrome circadian clock 1 (CRY1), mRNA	Nucleus	enzyme	XM_003126079	PREDICTED: Sus scrofa cryptochrome 1 (photolyase-like) (CRY1), transcript variant X1, mRNA
nine	104743	GRIK2	XM_006715465	PREDICTED: Homo sapiens glutamate receptor, ionotropic, kainate 2 (GRIK2), transcript variant X3, mRNA	Plasma Membrane	ion channel	XM_003121319	PREDICTED: Sus scrofa glutamate receptor, ionotropic, kainate 2 (GRIK2), transcript variant 2, partial mRNA
nine	105369	ACAA1	AK025138	Homo sapiens cDNA: FLJ21485 fis, clone COL05258, highly similar to HS3OCT Human liver mRNA for 3-oxoacyl-CoA thiolase	Cytoplasm	enzyme	XM_003132103	PREDICTED: Sus scrofa acetyl-CoA acyltransferase 1 (ACAA1), transcript variant 1, mRNA
nine	200523	ABC11-484463(AC216991		Homo sapiens FOSMID clone ABC11-48446300O7 from chromosome 6, complete sequence			FN673761	Sus scrofa BAC clone KNP_828H7
nine	200901	PPP6R2	XM_005261960	PREDICTED: Homo sapiens protein phosphatase 6, regulatory subunit 2 (PPP6R2), transcript variant X5, mRNA	Cytoplasm	other	XM_005653171	PREDICTED: Sus scrofa protein phosphatase 6, regulatory subunit 2 (PPP6R2), transcript variant X4, mRNA
nine	201132	CH507-510L4	FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			CU210871	Pig DNA sequence from clone CH242-347O13 on chromosome 11, complete sequence
nine	201404	PPP1R18	XM_003403597	PREDICTED: Homo sapiens protein phosphatase 1, regulatory subunit 18 (PPP1R18), mRNA	Other	other	AK351905	Sus scrofa mRNA, clone:THY010107D03, expressed in thymus
nine	201826	RORA	NG_029246	Homo sapiens RAR-related orphan receptor A (RORA), RefSeqGene on chromosome 15			AK237947	Sus scrofa mRNA, clone:TCH010017E09, expressed in trachea
nine	201911	NMI	FM206294	Cloning vector pchilGHG1			XM_005652427	PREDICTED: Sus scrofa N-myc (and STAT) interactor (NMI), transcript variant X3, mRNA
nine	202283	TARS	NR_047678	Homo sapiens threonyl-tRNA synthetase (TARS), transcript variant 6, long non-coding RNA	Nucleus	enzyme	XM_003133868	PREDICTED: Sus scrofa threonine--tRNA ligase, cytoplasmic-like (LOC100526191), mRNA

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nine	202295	PPM1M	XM_005264880	PREDICTED: Homo sapiens protein phosphatase, Mg2+/Mn2+ dependent, 1M (PPM1M), transcript variant X2, mRNA	Nucleus	phosphatase	XM_003132254	PREDICTED: Sus scrofa protein phosphatase, Mg2+/Mn2+ dependent, 1M (PPM1M), mRNA
nine	202296	LGMN	NM_005606	Homo sapiens legumain (LGMN), transcript variant 1, mRNA	Cytoplasm	peptidase	AK347847	Sus scrofa mRNA, clone:OVRM10002H08, expressed in ovary
nine	202464	APITD1	AL354956	Human DNA sequence from clone RP5-1113E3 on chromosome 1p36,21-36,33, complete sequence			NM_001204935	Sus scrofa apoptosis-inducing, TAF9-like domain 1 (APITD1), mRNA
nine	202852	RBMS1	XM_006712675	PREDICTED: Homo sapiens RNA binding motif, single stranded interacting protein 1 (RBMS1), transcript variant X10, mRNA	Nucleus	other	XM_005671874	PREDICTED: Sus scrofa RNA binding motif, single stranded interacting protein 1 (RBMS1), transcript variant X8, mRNA
nine	202954		AL008730	Human DNA sequence from clone RP3-487J7 on chromosome 6q21-22,1, complete sequence			CU972365	Pig DNA sequence from clone CH242-30D13 on chromosome X, complete sequence
nine	203532	FEM1C	XM_005272035	PREDICTED: Homo sapiens fem-1 homolog c (C, elegans) (FEM1C), transcript variant X1, mRNA	Nucleus	transcription regulator	AK230850	Sus scrofa mRNA, clone:AMP010053G11, expressed in alveolar macrophage
nine	203544		AC024060	Homo sapiens chromosome 3 clone RP11-97C16 map 3p, complete sequence			XM_003483207	PREDICTED: Sus scrofa CCA tRNA nucleotidyltransferase 1, mitochondrial-like (LOC100737746), mRNA
nine	203568	CRABP1	AB593091	Homo sapiens CRABP1 mRNA for cellular retinoic acid-binding protein 1, complete cds, clone: HP06370-ARh10H02	Cytoplasm	transporter	AY610183	Sus scrofa clone Clu_88255,scr,msk,p1,Contig1, mRNA sequence
nine	203628	CFL2	NG_012740	Homo sapiens cofilin 2 (muscle) (CFL2), RefSeqGene (LRG_213) on chromosome 14	Extracellular Space	other	EU561660	Sus scrofa CFL2b variant 1 (CFL2b) mRNA, complete cds
nine	203820	PTH	NG_008962	Homo sapiens parathyroid hormone (PTH), RefSeqGene on chromosome 11	Extracellular Space	other	XM_005662758	PREDICTED: Sus scrofa kinase D-interacting substrate, 220kDa (KIDINS220), transcript variant X5, mRNA
nine	204023	CTD-2317K6	AC010633	Homo sapiens chromosome 5 clone CTD-2317K6, complete sequence			XM_003359762	PREDICTED: Sus scrofa RPTOR independent companion of MTOR, complex 2 (RICTOR), transcript variant X1, mRNA
nine	204024	ARHGEF37	AC116360	Homo sapiens chromosome 5 clone RP11-69F12, complete sequence	Other	other	XR_302043	PREDICTED: Sus scrofa uncharacterized LOC102164397 (LOC102164397), transcript variant X2, misc_RNA
nine	204025	KIAA0196	NG_012636	Homo sapiens KIAA0196 (KIAA0196), RefSeqGene on chromosome 8	Cytoplasm	other	XM_005662863	PREDICTED: Sus scrofa WASH complex subunit strumpellin (KIAA0196), mRNA

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nine	204070	PPM1H	AB084258	Homo sapiens URCC2 mRNA, complete cds	Other	phosphatase	FP101969	Pig DNA sequence from clone CH242-77N2 on chromosome X, complete sequence
nine	204082	EEF1G	AK300203	Homo sapiens cDNA FLJ56389 complete cds, highly similar to Elongation factor 1-gamma	Cytoplasm	translation regulator	XM_005660798	PREDICTED: Sus scrofa eukaryotic translation elongation factor 1 gamma (EEF1G), mRNA
nine	204108	ASPM	NM_001206846	Homo sapiens asp (abnormal spindle) homolog, microcephaly associated (Drosophila) (ASPM), transcript variant 2, mRNA	Nucleus	other	XM_003357659	PREDICTED: Sus scrofa abnormal spindle-like microcephaly-associated protein homolog (LOC100520688), mRNA
nine	204119	MRE11A	XM_006718842	PREDICTED: Homo sapiens MRE11 meiotic recombination 11 homolog A (S. cerevisiae) (MRE11A), transcript variant X4, mRNA	Nucleus	enzyme	AK398485	Sus scrofa mRNA, clone: THY010101H11, expressed in thymus
nine	204203	PTPLAD2	BX648779	Homo sapiens mRNA; cDNA DKFZp686G24132 (from clone DKFZp686G24132)	Other	other	XM_003121884	PREDICTED: Sus scrofa protein tyrosine phosphatase-like A domain containing 2 (PTPLAD2), mRNA
nine	204217	SIAH1	XM_006721246	PREDICTED: Homo sapiens siah E3 ubiquitin protein ligase 1 (SIAH1), transcript variant X1, mRNA	Nucleus	enzyme	XM_005664457	PREDICTED: Sus scrofa siah E3 ubiquitin protein ligase 1 (SIAH1), transcript variant X7, mRNA
nine	204741	DSE	AK128607	Homo sapiens cDNA FLJ46766 fis, clone TRACH3024671, highly similar to Squamous cell carcinoma antigen recognized by T-cells 2 precursor	Cytoplasm	enzyme	AY803092	Sus scrofa chromosome 17 clone pkmCon19, mRNA sequence
nine	205727	GTF2H5	NG_011758	Homo sapiens general transcription factor IIH, polypeptide 5 (GTF2H5), RefSeqGene (LRG_469) on chromosome 6	Nucleus	other	EF170519	Sus scrofa clone KVL14427 microsatellite sequence
nine	205918	ITGB1	FM206294	Cloning vector pchiLGHG1			NM_213968	Sus scrofa integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12) (ITGB1), mRNA >gi 10336838 gb AF192528.1 AF192528.8 Sus scrofa integrin beta-1 subunit (CD29) mRNA, complete cds Sus scrofa mRNA, clone: HTMT10071B12, expressed in hypothalamus
nine	206315	CCDC14	XM_006713733	PREDICTED: Homo sapiens coiled-coil domain containing 14 (CCDC14), transcript variant X10, mRNA	Cytoplasm	other	AK392402	
nine	206910	MEGF10	AK021631	Homo sapiens cDNA FLJ11569 fis, clone HEMBA1003304	Plasma Membrane	other	CU914655	Pig DNA sequence from clone CH242-274A21 on chromosome X, complete sequence
nine	207284	HOXD8	NM_019558	Homo sapiens homeobox D8 (HOXD8), transcript variant 1, mRNA	Nucleus	transcription regulator	AK395731	Sus scrofa mRNA, clone: OVRT10055A07, expressed in ovary
nine	208581	ZAR1	NM_175619	Homo sapiens zygote arrest 1 (ZAR1), mRNA	Cytoplasm	other	DQ231445	Sus scrofa truncated zygote arrest 1 (ZAR1) mRNA, complete cds, alternatively spliced

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nine	208940		AL035419	Human DNA sequence from clone RP5-1100H13 on chromosome 20q11,2, complete sequence			CU856631	Pig DNA sequence from clone CH242-136H18 on chromosome X, complete sequence
nine	209036		AL353667	Human DNA sequence from clone RP11-125B21 on chromosome 9p24,1-24,3, complete sequence			XM_005664440	PREDICTED: Sus scrofa proline-rich protein 2-like (LOC102161584), transcript variant X1, mRNA
nine	209341		CU689761	Synthetic construct Homo sapiens gateway clone IMAGE:100019953 3 read SLC7A3 mRNA			XM_005664809	PREDICTED: Sus scrofa cationic amino acid transporter 3-like (LOC100626318), transcript variant X6, mRNA
nine	209626	RPL36	NM_033643	Homo sapiens ribosomal protein L36 (RPL36), transcript variant 1, mRNA	Cytoplasm	other	AK392191	Sus scrofa mRNA, clone: HTMT10055F05, expressed in hypothalamus
nine	209641	RQCD1	XM_006712832	PREDICTED: Homo sapiens RCD1 required for cell differentiation1 homolog (S, pombe) (RQCD1), transcript variant X3, mRNA	Cytoplasm	other	XM_001925220	PREDICTED: Sus scrofa RCD1 required for cell differentiation1 homolog (S, pombe) (RQCD1), mRNA
nine	209670	FAM198B	BC045710	Homo sapiens chromosome 4 open reading frame 18, mRNA (cDNA clone IMAGE:4798067)	Cytoplasm	other	XM_005666658	PREDICTED: Sus scrofa family with sequence similarity 198, member B (FAM198B), transcript variant X4, mRNA
nine	209686	HLA-B	AB032933	Homo sapiens HLA-B4002V gene for MHC class I antigen, partial cds	Plasma Membrane	transmembrane receptor	KC511014	Sus scrofa MHC class I antigen (SLA-3) mRNA, SLA-3*BM02 allele, complete cds
nine	209734		CU689832	Synthetic construct Homo sapiens gateway clone IMAGE:100022124 5 read IGKV1-5 mRNA			AK231507	Sus scrofa mRNA, clone:ITT010083D04, expressed in intestine
nine	209760	DENR	NM_003677	Homo sapiens density-regulated protein (DENR), mRNA	Other	other	AK392720	Sus scrofa mRNA, clone: HTMT10096D01, expressed in hypothalamus
nine	209771	MX2	XM_006724006	PREDICTED: Homo sapiens myxovirus (influenza virus) resistance 2 (mouse) (MX2), transcript variant X3, mRNA	Nucleus	enzyme	AB854078	Sus scrofa MX2 mRNA for interferon-induced GTP-binding protein MX2, complete cds, allele: 8,1
nine	209783	RILPL2	XR_242952	PREDICTED: Homo sapiens Rab interacting lysosomal protein-like 2 (RILPL2), transcript variant X1, misc_RNA	Cytoplasm	other	AK237639	Sus scrofa mRNA, clone:SPL010072F06, expressed in spleen
nine	209825	THOC3	NM_032361	Homo sapiens THO complex 3 (THOC3), mRNA	Nucleus	other	XM_003123664	PREDICTED: Sus scrofa THO complex 3 (THOC3), mRNA
nine	209830	VPS52	NM_001289176	Homo sapiens vacuolar protein sorting 52 homolog (S, cerevisiae) (VPS52), transcript variant 4, mRNA	Cytoplasm	other	XM_001925393	PREDICTED: Sus scrofa vacuolar protein sorting 52 homolog (S, cerevisiae) (VPS52), mRNA
nine	209843	RP11-734C14	AP003484	Homo sapiens genomic DNA, chromosome 11q, clone:RP11-734C14, complete sequence			FP339621	Pig DNA sequence from clone CH242-446F22 on chromosome X, complete sequence

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nine	209854	PTPN14	NG_028036	Homo sapiens protein tyrosine phosphatase, non-receptor type 14 (PTPN14), RefSeqGene on chromosome 1			AK396534	Sus scrofa mRNA, clone: PST010048F04, expressed in prostate
nine	209913	NUDT17	NM_001012758	Homo sapiens nudix (nucleoside diphosphate linked moiety X)-type motif 17 (NUDT17), mRNA	Cytoplasm	other	XM_003125804	PREDICTED: Sus scrofa nudix (nucleoside diphosphate linked moiety X)-type motif 17 (NUDT17), transcript variant X1, mRNA
nine	209926	EEPD1	NM_030636	Homo sapiens endonuclease/exonuclease/phosphatase family domain containing 1 (EEPD1), mRNA	Other	other	XM_005673260	PREDICTED: Sus scrofa endonuclease/exonuclease/phosphatase family domain-containing protein 1-like (LOC100738248), mRNA
nine	209951		AC003029	Homo sapiens 12 PAC RP3-462E2 (Roswell Park Cancer institute Human PAC Library) complete sequence			CU570742	Pig DNA sequence from clone CH242-347F19 on chromosome X, complete sequence
nine	209952	PDZD2	NG_033962	Homo sapiens PDZ domain containing 2 (PDZD2), RefSeqGene on chromosome 5			AK395849	Sus scrofa mRNA, clone: OVRT10074E01, expressed in ovary
nine	209955	NTNG1	AL513187	Human DNA sequence from clone RP11-436H6 on chromosome 1, complete sequence	Extracellular Space	other	XR_307843	PREDICTED: Sus scrofa uncharacterized LOC102163817 (LOC102163817), transcript variant X8, misc_RNA
nine	209963	WBP1L	NM_001083913	Homo sapiens WW domain binding protein 1-like (WBP1L), transcript variant 1, mRNA	Other	other	XM_005657452	PREDICTED: Sus scrofa WW domain binding protein 1-like (WBP1L), transcript variant X2, mRNA
nine	210013	RSPH9	NG_023436	Homo sapiens radial spoke head 9 homolog (Chlamydomonas) (RSPH9), RefSeqGene on chromosome 6	Other	other	XM_005666049	PREDICTED: Sus scrofa MAD2L1-binding protein-like (LOC100155954), transcript variant X4, mRNA
nine	210036		AC013416	Homo sapiens BAC clone CTD-2522F11 from 7, complete sequence			XR_300508	PREDICTED: Sus scrofa uncharacterized LOC100621346 (LOC100621346), misc_RNA
nine	210037	BIN1	AK127325	Homo sapiens cDNA FLJ45396 fis, clone BRHIP3027594, highly similar to Mus musculus brain amphiphysin 2 mRNA	Nucleus	other	AK397470	Sus scrofa mRNA, clone: SMG010023B02, expressed in submaxillary gland
nine	210142	SLC25A13	NG_012247	Homo sapiens solute carrier family 25, member 13 (citrin) (SLC25A13), RefSeqGene on chromosome 7			AK397431	Sus scrofa mRNA, clone: SMG010001C04, expressed in submaxillary gland
nine	210202	AKR7A2	NM_003689	Homo sapiens aldo-keto reductase family 7, member A2 (aflatoxin aldehyde reductase) (AKR7A2), mRNA	Cytoplasm	enzyme	AK389301	Sus scrofa mRNA, clone: ADR010040C08, expressed in adrenal gland
nine	210242		Z98885	Human DNA sequence from clone RP3-522J7 on chromosome 22q13,3, complete sequence			AK394773	Sus scrofa mRNA, clone: OVR010006B04, expressed in ovary

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nine	210261	TTC36	BC146916	Homo sapiens tetratricopeptide repeat domain 36, mRNA (cDNA clone MGC:182019 IMAGE:9056844), complete cds	Other	other	XM_003357314	PREDICTED: Sus scrofa tetratricopeptide repeat domain 36 (TTC36), mRNA
nine	210263	ITGA7	NG_012343	Homo sapiens integrin, alpha 7 (ITGA7), RefSeqGene on chromosome 12	Plasma Membrane	other	AK232407	Sus scrofa mRNA, clone:LVR010040H05, expressed in liver
nine	210310	A1BG	EU794585	Homo sapiens epididymis secretory sperm binding protein Li 163pA (HEL-S-163pA) mRNA, complete cds	Extracellular Space	other	AK233560	Sus scrofa mRNA, clone:LVRM10172B06, expressed in liver
nine	210336	ODF3	AB067774	Homo sapiens mRNA for h-SHIPPO 1, complete cds	Cytoplasm	other	Y13161	Sus scrofa microsatellite DNA isolate pGC,60
nine	210347	BHMT	NG_029156	Homo sapiens betaine--homocysteine S-methyltransferase (BHMT), RefSeqGene on chromosome 5	Cytoplasm	enzyme	XM_003484198	PREDICTED: Sus scrofa betaine--homocysteine S-methyltransferase 1-like (LOC100739497), transcript variant X2, mRNA
nine	210356	CEBPD	EU831483	Synthetic construct Homo sapiens clone HAIB:100066512; DKFZo008H0117 CCAAT/enhancer binding protein (C/EBP), delta protein (CEBPD) gene, encodes complete protein	Nucleus	transcription regulator	AK345916	Sus scrofa mRNA, clone:LVR010053H01, expressed in liver
nine	210424	CTD-2026K11	AC105020	Homo sapiens chromosome 15, clone CTD-2026K11, complete sequence			CU694691	Pig DNA sequence from clone CH242-237M23 on chromosome X, complete sequence
nine	210432	UCP2	U94592	Human uncoupling protein homolog (UCPH) mRNA, complete cds	Cytoplasm	transporter	AK351444	Sus scrofa mRNA, clone:THY010010G10, expressed in thymus
nine	210454	ZNF48	NM_001214909	Homo sapiens zinc finger protein 48 (ZNF48), transcript variant 3, mRNA	Other	other	XM_003354537	PREDICTED: Sus scrofa zinc finger protein 48 (ZNF48), transcript variant X1, mRNA
nine	210491	UBTF	XM_006722061	PREDICTED: Homo sapiens upstream binding transcription factor, RNA polymerase I (UBTF), transcript variant X3, mRNA	Nucleus	transcription regulator	CT737349	Pig DNA sequence from clone CH242-21M14 on chromosome 7, complete sequence
nine	210517	ORAI3	NM_152288	Homo sapiens ORAI calcium release-activated calcium modulator 3 (ORAI3), mRNA	Other	other	XM_005655084	PREDICTED: Sus scrofa ORAI calcium release-activated calcium modulator 3 (ORAI3), transcript variant X2, mRNA
nine	210622	TMEM42	AL834253	Homo sapiens mRNA; cDNA DKFZp434J174 (from clone DKFZp434J174)	Other	other	XM_003132150	PREDICTED: Sus scrofa transmembrane protein 42 (TMEM42), transcript variant X1, mRNA
nine	210645	CH507-510L4	FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			XM_003134106	PREDICTED: Sus scrofa ADAM metallopeptidase domain 19 (ADAM19), mRNA

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nine	210721	PRPF4	XM_005252300	PREDICTED: Homo sapiens pre-mRNA processing factor 4 (PRPF4), transcript variant X1, mRNA	Nucleus	other	XM_003353619	PREDICTED: Sus scrofa PRP4 pre-mRNA processing factor 4 homolog (yeast) (PRPF4), transcript variant X1, mRNA
nine	210743	RPS25	AK311883	Homo sapiens cDNA, FLJ92149, Homo sapiens ribosomal protein S25 (RPS25), mRNA	Cytoplasm	other	AK400318	Sus scrofa mRNA, clone: BFLT10152C08, expressed in brain (frontal lobe)
nine	210778	C14orf164	NM_001282322	Homo sapiens chromosome 14 open reading frame 164 (C14orf164), mRNA	Other	other	XM_005666254	PREDICTED: Sus scrofa homeobox and leucine zipper encoding (HOMEZ), transcript variant X4, mRNA
nine	210780	SHQ1	AK296789	Homo sapiens cDNA FLJ59713 complete cds, highly similar to Homo sapiens SHQ1 homolog (SHQ1), mRNA	Nucleus	other	XM_005669725	PREDICTED: Sus scrofa SHQ1, H/ACA ribonucleoprotein assembly factor (SHQ1), transcript variant X2, mRNA
nine	210785	MRPL45	AK293605	Homo sapiens cDNA FLJ61100 complete cds, highly similar to 39S ribosomal protein L45, mitochondrial precursor	Cytoplasm	other	XM_003362102	PREDICTED: Sus scrofa 39S ribosomal protein L45, mitochondrial-like (LOC100624122), partial mRNA
nine	210792	PRIMA1	XR_429292	PREDICTED: Homo sapiens proline rich membrane anchor 1 (PRIMA1), transcript variant X2, misc_RNA >gi 578839920 ref XR_430712.1 PREDICTED: Homo sapiens proline rich membrane anchor 1 (PRIMA1), transcript variant X2, misc_RNA	Plasma Membrane	other	XM_003359315	PREDICTED: Sus scrofa ubiquitin domain containing 1 (UBTD1), transcript variant X1, mRNA
nine	210828	LPCAT3	BC065194	Homo sapiens lysophosphatidylcholine acyltransferase 3, mRNA (cDNA clone MGC:74799 IMAGE:5227816), complete cds	Plasma Membrane	enzyme	XM_003355593	PREDICTED: Sus scrofa lysophosphatidylcholine acyltransferase 3 (LPCAT3), mRNA
nine	210829	CARM1	XM_005259708	PREDICTED: Homo sapiens coactivator-associated arginine methyltransferase 1 (CARM1), transcript variant X1, mRNA	Nucleus	transcription regulator	AK391831	Sus scrofa mRNA, clone: HTMT10026D12, expressed in hypothalamus
nine	210873	ACE	XM_005257110	PREDICTED: Homo sapiens angiotensin I converting enzyme (ACE), transcript variant X1, mRNA	Plasma Membrane	peptidase	NM_001083941	Sus scrofa angiotensin I converting enzyme (peptidyl-dipeptidase A) 1 (ACE), transcript variant 2, mRNA >gi 119381510 gb EF121312.1 Sus scrofa angiotensin I converting enzyme mRNA, complete cds
nine	210915	GUCA2B	NM_007102	Homo sapiens guanylate cyclase activator 2B (uroguanylin) (GUCA2B), mRNA	Extracellular Space	other	NM_001160275	Sus scrofa guanylate cyclase activator 2B (uroguanylin) (GUCA2B), mRNA >gi 2065427 emb Z83746.1 S,domestica mRNA for porcine GCAP-II/uroguanylin

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nine	210924	RHOC	NM_001042679	Homo sapiens ras homolog family member C (RHOC), transcript variant 3, mRNA	Plasma Membrane	enzyme	XM_003125846	PREDICTED: Sus scrofa ras homolog family member C (RHOC), mRNA
nine	210936	RUNDC1	XM_005257080	PREDICTED: Homo sapiens RUN domain containing 1 (RUNDC1), transcript variant X3, mRNA	Other	other	XM_003358033	PREDICTED: Sus scrofa RUN domain containing 1 (RUNDC1), mRNA
nine	210958	FAM187B	BC117457	Homo sapiens family with sequence similarity 187, member B, mRNA (cDNA clone MGC:151066 IMAGE:40126008), complete cds	Other	other	XM_005664484	PREDICTED: Sus scrofa family with sequence similarity 187, member B (FAM187B), transcript variant X2, mRNA
nine	210981	NAGA	XM_005261617	PREDICTED: Homo sapiens N-acetylgalactosaminidase, alpha- (NAGA), transcript variant X3, mRNA	Cytoplasm	enzyme	XM_005653104	PREDICTED: Sus scrofa alpha-N-acetylgalactosaminidase-like (LOC100737177), transcript variant X3, mRNA
nine	210999	LYSMD3	XM_005248421	PREDICTED: Homo sapiens LysM, putative peptidoglycan-binding, domain containing 3 (LYSMD3), transcript variant X1, mRNA	Other	other	FP015870	Pig DNA sequence from clone CH242-86E5 on chromosome X, complete sequence
nine	211005	FAM160A1	XM_005263199	PREDICTED: Homo sapiens family with sequence similarity 160, member A1 (FAM160A1), transcript variant X1, mRNA	Other	other	XM_003356996	PREDICTED: Sus scrofa family with sequence similarity 160, member A1 (FAM160A1), mRNA
nine	211114	CHPF	NM_001195731	Homo sapiens chondroitin polymerizing factor (CHPF), transcript variant 2, mRNA	Cytoplasm	enzyme	XM_003359649	PREDICTED: Sus scrofa chondroitin polymerizing factor (CHPF), mRNA
nine	211129	PHLDA3	FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			XM_003357675	PREDICTED: Sus scrofa pleckstrin homology-like domain, family A, member 3 (PHLDA3), mRNA
nine	211131		FM206294	Cloning vector pchilGHG1			XM_005673337	PREDICTED: Sus scrofa malcavernin-like (LOC102161495), mRNA
nine	211510	FBXO18	FM206294	Cloning vector pchilGHG1			XM_003357780	PREDICTED: Sus scrofa F-box protein, helicase, 18 (FBXO18), mRNA
nine	211558	SRM	BC033106	Homo sapiens spermidine synthase, mRNA (cDNA clone MGC:45687 IMAGE:5420683), complete cds	Cytoplasm	enzyme	XM_003481950	PREDICTED: Sus scrofa spermidine synthase (SRM), mRNA
nine	211605	INSIG2	XM_005263690	PREDICTED: Homo sapiens insulin induced gene 2 (INSIG2), transcript variant X1, mRNA	Cytoplasm	other	FQ482073	Pig DNA sequence from clone XX-Y40K16 on chromosome Y, complete sequence
nine	211608	PQLC2	XM_006710711	PREDICTED: Homo sapiens PQ loop repeat containing 2 (PQLC2), transcript variant X7, mRNA	Cytoplasm	transporter	NM_001243851	Sus scrofa PQ loop repeat containing 2 (PQLC2), mRNA >gj 115554223 dbj AK240018.1 Sus scrofa mRNA, clone:UTR010021F06, expressed in uterus

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nine	211611	CLOCK	XM_006714054	PREDICTED: Homo sapiens clock circadian regulator (CLOCK), transcript variant X2, mRNA	Nucleus	transcription regulator	XM_005666711	PREDICTED: Sus scrofa transmembrane protein 165-like (LOC100523623), transcript variant X2, mRNA
nine	211701	CH507-510L4	FP236316	Human DNA sequence from clone CH507-510L4 on chromosome 21, complete sequence			XM_005659104	PREDICTED: Sus scrofa WD repeat domain 27 (WDR27), mRNA
nine	211709	GRK4	HQ258463	Synthetic construct Homo sapiens clone IMAGE:100072892 G protein-coupled receptor kinase 4 (GRK4) gene, encodes complete protein	Plasma Membrane	kinase	AK395017	Sus scrofa mRNA, clone: OVRM10001C11, expressed in ovary
nine	211788	SETD3	BC142995	Homo sapiens SET domain containing 3, mRNA (cDNA clone MGC:167117 IMAGE:8860450), complete cds	Nucleus	enzyme	XM_005666437	PREDICTED: Sus scrofa SET domain containing 3 (SETD3), transcript variant X2, mRNA
nine	211797	COX4I2	XM_005260579	PREDICTED: Homo sapiens cytochrome c oxidase subunit IV isoform 2 (lung) (COX4I2), transcript variant X1, mRNA	Cytoplasm	enzyme	AK346865	Sus scrofa mRNA, clone:MLN010067A12, expressed in mesenteric lymph nodes
nine	211822	ZNF271	NR_024566	Homo sapiens zinc finger protein 271 (ZNF271), transcript variant 2, non-coding RNA	Nucleus	other	XM_003129934	PREDICTED: Sus scrofa PDZ domain containing 3 (PDZD3), transcript variant X2, mRNA
nine	211869	BCKDHA	NG_013004	Homo sapiens branched chain keto acid dehydrogenase E1, alpha polypeptide (BCKDHA), RefSeqGene on chromosome 19	Cytoplasm	enzyme	XM_003481862	PREDICTED: Sus scrofa UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 8 (B3GNT8), mRNA
nine	211895		AC004893	Homo sapiens PAC clone RP4-808A1 from 7q21,1-q31,1, complete sequence			FP102397	Pig DNA sequence from clone CH242-79A9 on chromosome X, complete sequence
nine	211899	KMT2A	XM_006718840	PREDICTED: Homo sapiens lysine (K)-specific methyltransferase 2A (KMT2A), transcript variant X2, mRNA	Nucleus	transcription regulator	XM_003357320	PREDICTED: Sus scrofa lysine (K)-specific methyltransferase 2A (KMT2A), mRNA
nine	212039	CADM2	AB646739	Homo sapiens CADM2 mRNA for cell adhesion molecule 2 isoform 4, complete cds	Plasma Membrane	other	XM_005670287	PREDICTED: Sus scrofa cell adhesion molecule 2 (CADM2), mRNA
nine	212040	MAGEL2	BC063834	Homo sapiens MAGE-like 2, mRNA (cDNA clone IMAGE:6179851), partial cds	Other	other	XM_005659797	PREDICTED: Sus scrofa MAGE-like 2 (MAGEL2), mRNA
nine	212087	CHST1	XR_428858	PREDICTED: Homo sapiens carbohydrate (keratan sulfate Gal-6) sulfotransferase 1 (CHST1), transcript variant X3, misc_RNA	Cytoplasm	enzyme	XM_005660970	PREDICTED: Sus scrofa carbohydrate (keratan sulfate Gal-6) sulfotransferase 1 (CHST1), transcript variant X2, mRNA
nine	212110	AKAP7	XM_005267229	PREDICTED: Homo sapiens A kinase (PRKA) anchor protein 7 (AKAP7), transcript variant X2, mRNA	Plasma Membrane	other	AK347047	Sus scrofa mRNA, clone:MLN010097G11, expressed in mesenteric lymph nodes

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nine	212278	DYNC1LI2	NM_001286157	Homo sapiens dynein, cytoplasmic 1, light intermediate chain 2 (DYNC1LI2), transcript variant 2, mRNA	Cytoplasm	other	AK398319	Sus scrofa mRNA, clone: THY010001D10, expressed in thymus
nine	212340	MNT	BC117563	Homo sapiens MAX binding protein, mRNA (cDNA clone MGC:131693 IMAGE:3904263), complete cds	Nucleus	transcription regulator	AK396915	Sus scrofa mRNA, clone: PTG010027E11, expressed in pituitary gland
nine	212472	KLHL14	XM_006722512	PREDICTED: Homo sapiens kelch-like family member 14 (KLHL14), transcript variant X1, mRNA	Cytoplasm	other	XM_003127890	PREDICTED: Sus scrofa kelch-like family member 14 (KLHL14), mRNA
nine	212474	CCDC88A	XM_005264423	PREDICTED: Homo sapiens coiled-coil domain containing 88A (CCDC88A), transcript variant X6, mRNA	Cytoplasm	other	XM_005662552	PREDICTED: Sus scrofa coiled-coil domain containing 88A (CCDC88A), mRNA
nine	212545	ZNF706	NM_001267709	Homo sapiens zinc finger protein 706 (ZNF706), transcript variant 5, mRNA	Other	other	FP015837	Pig DNA sequence from clone CH242-115F2 on chromosome X, complete sequence
nine	212567	LOC102724445	XR_424590	PREDICTED: Homo sapiens uncharacterized LOC102724445 (LOC102724445), ncRNA	Other	other	AK400068	Sus scrofa mRNA, clone: HTMT10146A08, expressed in hypothalamus
nine	212617	XRCC1	AB384718	Synthetic construct DNA, clone: pF1KB3003, Homo sapiens XRCC1 gene for DNA-repair protein XRCC1, complete cds, without stop codon, in Flexi system			XM_003127190	PREDICTED: Sus scrofa X-ray repair complementing defective repair in Chinese hamster cells 1 (XRCC1), transcript variant X2, mRNA
nine	212627	CPNE1	NM_001198863	Homo sapiens copine I (CPNE1), transcript variant 9, mRNA	Nucleus	transporter	NM_001143703	Sus scrofa copine I (CPNE1), mRNA >gi 217314902 gb FJ436394.1 Sus scrofa copine I (CPNE1) mRNA, complete cds
nine	212664	AP2A1	AK094317	Homo sapiens cDNA FLJ36998 fis, clone BRACE2007295, highly similar to ALPHA-ADAPTIN A	Cytoplasm	transporter	XM_003127338	PREDICTED: Sus scrofa adaptor-related protein complex 2, alpha 1 subunit (AP2A1), transcript variant 1, mRNA
nine	212747	NR1D1	NG_033084	Homo sapiens nuclear receptor subfamily 1, group D, member 1 (NR1D1), RefSeqGene on chromosome 17	Nucleus	ligand-dependent nuclear receptor	XR_299471	PREDICTED: Sus scrofa sterile alpha motif domain containing 4B (SAMD4B), transcript variant X4, misc_RNA
nine	212844	BFAR	XM_005255350	PREDICTED: Homo sapiens bifunctional apoptosis regulator (BFAR), transcript variant X1, mRNA >gi 578840013 ref XM_006725196.1 PREDICTED: Homo sapiens bifunctional apoptosis regulator (BFAR), transcript variant X1, mRNA	Cytoplasm	other	AK389580	Sus scrofa mRNA, clone: ADR010099B08, expressed in adrenal gland
nine	212927	DPYSL4	XM_005252659	PREDICTED: Homo sapiens dihydropyrimidinase-like 4 (DPYSL4), transcript variant X2, mRNA	Cytoplasm	enzyme	XM_003483576	PREDICTED: Sus scrofa dihydropyrimidinase-like 4 (DPYSL4), mRNA

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nine	212951	HTRA3	NM_053044	Homo sapiens HtrA serine peptidase 3 (HTRA3), mRNA	Extracellular Space	peptidase	NM_001195343	Sus scrofa HtrA serine peptidase 3 (HTRA3), mRNA >gi 285818439 gb GU373693.1 Sus scrofa HtrA serine peptidase 3 (HTRA3) mRNA, complete cds
nine	213143	TPRG1L	AK289919	Homo sapiens cDNA FLJ77019 complete cds	Cytoplasm	other	AK391650	Sus scrofa mRNA, clone: HTMT10013C03, expressed in hypothalamus
nine	213144		HG504815	TPA: Homo sapiens RP11-834C11.4 gene for long non-coding RNA OTTHUMT00000358962.1, lincRNA			XR_115919	PREDICTED: Sus scrofa uncharacterized LOC100519311 (LOC100519311), misc_RNA
nine	213324	LRRRC29	AF176701	Homo sapiens F-box protein FBL9 mRNA, partial cds	Other	enzyme	XM_005664419	PREDICTED: Sus scrofa leucine rich repeat containing 29 (LRRRC29), mRNA
nine	213336	LLGL1	XM_005256644	PREDICTED: Homo sapiens lethal giant larvae homolog 1 (Drosophila) (LLGL1), transcript variant X2, mRNA	Cytoplasm	other	CT868704	Pig DNA sequence from clone CH242-325C16 on chromosome 7, complete sequence
nine	213337	WSB1	XR_429881	PREDICTED: Homo sapiens WD repeat and SOCS box containing 1 (WSB1), transcript variant X6, misc_RNA	Other	other	XM_003131753	PREDICTED: Sus scrofa WD repeat and SOCS box containing 1 (WSB1), mRNA
nine	213588	FETUB	XM_005247351	PREDICTED: Homo sapiens fetuin B (FETUB), transcript variant X4, mRNA	Extracellular Space	other	XM_003132577	PREDICTED: Sus scrofa fetuin B (FETUB), mRNA
nine	213599	XK	AC233292	Homo sapiens BAC clone RP11-495K15 from chromosome x, complete sequence			XM_003135014	PREDICTED: Sus scrofa X-linked Kx blood group (McLeod syndrome) (XK), mRNA
nine	213600	CKAP2	XM_005266344	PREDICTED: Homo sapiens cytoskeleton associated protein 2 (CKAP2), transcript variant X2, mRNA	Cytoplasm	other	XM_005668379	PREDICTED: Sus scrofa cytoskeleton associated protein 2 (CKAP2), transcript variant X2, mRNA
nine	213623	TAB1	AK316004	Homo sapiens cDNA, FLJ78903 complete cds, highly similar to Mitogen-activated protein kinase kinase kinase 7-interacting protein 1	Cytoplasm	enzyme	AK346715	Sus scrofa mRNA, clone:MLN010042G05, expressed in mesenteric lymph nodes
nine	213624	APOH	HG510867	TPA: Homo sapiens AC074212.5 gene for long non-coding RNA OTTHUMT00000417340.1, antisense	Extracellular Space	transporter	XM_005658973	PREDICTED: Sus scrofa SIX homeobox 5 (SIX5), mRNA
nine	213708	CTB-54O9	AC011499	Homo sapiens chromosome 19 clone CTB-54O9, complete sequence			XM_003354017	PREDICTED: Sus scrofa scaffold attachment factor B (SAFB), transcript variant X1, mRNA
nine	213792	TTC13	XM_006711815	PREDICTED: Homo sapiens tetratricopeptide repeat domain 13 (TTC13), transcript variant X7, mRNA	Other	other	XM_001926644	PREDICTED: Sus scrofa tetratricopeptide repeat domain 13 (TTC13), transcript variant X1, mRNA
nine	213849	STAG1	XM_006713471	PREDICTED: Homo sapiens stromal antigen 1 (STAG1), transcript variant X1, mRNA	Nucleus	other	XM_005669866	PREDICTED: Sus scrofa stromal antigen 1 (STAG1), mRNA

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nine	213861	PYCR1	HQ447821	Synthetic construct Homo sapiens clone IMAGE:100071164; CCSB005951_01 pyrroline-5-carboxylate reductase 1 (PYCR1) gene, encodes complete protein	Cytoplasm	enzyme	AK349999	Sus scrofa mRNA, clone:SMG010023B11, expressed in submaxillary gland
nine	214273	KAT6B	XM_005269664	PREDICTED: Homo sapiens K(lysine) acetyltransferase 6B (KAT6B), transcript variant X1, mRNA	Nucleus	enzyme	AK234168	Sus scrofa mRNA, clone:OVR010017C12, expressed in ovary
nine	214392	ZNF76	AB208784	Homo sapiens mRNA for zinc finger protein 76 (expressed in testis) variant protein	Nucleus	other	XM_001927018	PREDICTED: Sus scrofa zinc finger protein 76 (ZNF76), partial mRNA
nine	214448	RP11-93N20	AC133865	Homo sapiens chromosome 1 clone RP11-93N20, complete sequence			XM_005657221	PREDICTED: Sus scrofa surfactant protein C (SFTPC), transcript variant X1, mRNA
nine	215141	CCNDBP1	XR_429446	PREDICTED: Homo sapiens cyclin D-type binding-protein 1 (CCNDBP1), transcript variant X3, misc_RNA	Nucleus	other	AK239617	Sus scrofa mRNA, clone:THY010116G03, expressed in thymus
nine	215142	RASAL2	XM_005245621	PREDICTED: Homo sapiens RAS protein activator like 2 (RASAL2), transcript variant X3, mRNA	Extracellular Space	other	XM_005667786	PREDICTED: Sus scrofa RAS protein activator like 2 (RASAL2), transcript variant X3, mRNA
nine	215148	NTRK2	XM_005252007	PREDICTED: Homo sapiens neurotrophic tyrosine kinase, receptor, type 2 (NTRK2), transcript variant X7, mRNA	Plasma Membrane	kinase	AK239612	Sus scrofa mRNA, clone:THY010116E06, expressed in thymus
nine	215164		AC008012	Homo sapiens 12p13 BAC RPCI11-388F6 (Roswell Park Cancer Institute Human BAC Library) complete sequence			CU463953	Pig DNA sequence from clone CH242-100L3 on chromosome X, complete sequence
nine	215213	RP11-107F6	AC073657	Homo sapiens chromosome 15 clone RP11-107F6 map 15q14, complete sequence			XM_005662300	PREDICTED: Sus scrofa zinc finger protein 2-like (LOC100620429), mRNA
nine	215518	KCNK1	NM_002245	Homo sapiens potassium channel, subfamily K, member 1 (KCNK1), mRNA	Plasma Membrane	ion channel	AK235536	Sus scrofa mRNA, clone:OVRM10091C05, expressed in ovary
nine	215890	RP11-570L13	AC104082	Homo sapiens BAC clone RP11-570L13 from 4, complete sequence			AK352353	Sus scrofa mRNA, clone:UTR010061G10, expressed in uterus
nine	216119	NAA60	AK024216	Homo sapiens cDNA FLJ14154 fis, clone NT2RM1000341	Cytoplasm	enzyme	XM_005662191	PREDICTED: Sus scrofa N-alpha-acetyltransferase 60-like (LOC100739355), partial mRNA
nine	216249	CHRNA1	NG_008172	Homo sapiens cholinergic receptor, nicotinic, alpha 1 (muscle) (CHRNA1), RefSeqGene on chromosome 2	Plasma Membrane	transmembrane receptor	XR_301863	PREDICTED: Sus scrofa uncharacterized LOC100522856 (LOC100522856), misc_RNA

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nine	216311	CD1C	NM_001765	Homo sapiens CD1c molecule (CD1C), mRNA	Plasma Membrane	other	AB221039	Sus scrofa or10k2, or10r2, cd1a1, or10r3, or10k3 genes for putative olfactory receptor 10K2, putative olfactory receptor 10R2, CD1A1 antigen, putative olfactory receptor 10R3, putative olfactory receptor 10K3, complete cds
nine	216356	TCTN2	FM206294	Cloning vector pchilGHG1			XM_003359085	PREDICTED: Sus scrofa tectonic family member 2 (TCTN2), transcript variant X1, mRNA
nine	216731	C12H17orf67	FM206294	Cloning vector pchilGHG1			XM_005656970	PREDICTED: Sus scrofa chromosome 12 open reading frame, human C17orf67 (C12H17orf67), transcript variant X2, mRNA
nine	216774	ID4	XM_005249076	PREDICTED: Homo sapiens inhibitor of DNA binding 4, dominant negative helix-loop-helix protein (ID4), transcript variant X1, mRNA	Nucleus	transcription regulator	FP067414	Pig DNA sequence from clone CH242-270H1 on chromosome X, complete sequence
nine	216839	SLA	FM206294	Cloning vector pchilGHG1			AP009553	Sus scrofa genomic DNA, chromosome 7, BAC clone: L435G20, swine leukocyte antigen(SLA) classical class I region
nine	216875	PLLP	FM206294	Cloning vector pchilGHG1			XM_003126973	PREDICTED: Sus scrofa plasmolipin (PLLP), mRNA
nine	216910	EMB	NM_198449	Homo sapiens embigin (EMB), mRNA	Plasma Membrane	other	AK351431	Sus scrofa mRNA, clone:THY010008E10, expressed in thymus
nine	217066		FM206294	Cloning vector pchilGHG1			AK347291	Sus scrofa mRNA, clone:OVR010004E03, expressed in ovary
nine	217449	PIGR	NM_002644	Homo sapiens polymeric immunoglobulin receptor (PIGR), mRNA	Plasma Membrane	transporter	AK397951	Sus scrofa mRNA, clone: TCH010039A05, expressed in trachea
nine	217690	ABR	XM_006725297	PREDICTED: Homo sapiens active BCR-related (ABR), transcript variant X6, mRNA	Cytoplasm	other	XM_003358188	PREDICTED: Sus scrofa active breakpoint cluster region-related protein-like (LOC100621549), mRNA
nine	217751	DSCR3	BC110655	Homo sapiens Down syndrome critical region gene 3, mRNA (cDNA clone MGC:117385 IMAGE:6157155), complete cds	Nucleus	other	XM_005670333	PREDICTED: Sus scrofa Down syndrome critical region gene 3 (DSCR3), transcript variant X3, mRNA
nine	218080	YY1	BC051735	Homo sapiens cDNA clone IMAGE:4797512	Nucleus	transcription regulator	AK344866	Sus scrofa mRNA, clone:ITT010002A07, expressed in small intestine

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nine	218196	INPP5B	BC058932	Homo sapiens inositol polyphosphate-5-phosphatase, 75kDa, mRNA (cDNA clone MGC:65156 IMAGE:5497202), complete cds	Plasma Membrane	phosphatase	XM_005665237	PREDICTED: Sus scrofa inositol polyphosphate-5-phosphatase, 75kDa (INPP5B), transcript variant X6, mRNA
nine	218219	SSPN	NG_012011	Homo sapiens sarcospan (SSPN), RefSeqGene (LRG_209) on chromosome 12			AK394395	Sus scrofa mRNA, clone: MLN010015G08, expressed in mesenteric lymph node
nine	218472	WI2-1299G8	AC241994	Homo sapiens FOSMID clone WI2-1299G8 from chromosome 3, complete sequence			AK236694	Sus scrofa mRNA, clone:OVRM10217A05, expressed in ovary
nine	218556	INPP4A	XM_006712509	PREDICTED: Homo sapiens inositol polyphosphate-4-phosphatase, type I, 107kDa (INPP4A), transcript variant X11, mRNA	Cytoplasm	phosphatase	AK399412	Sus scrofa mRNA, clone: UTR010090A07, expressed in uterus
nine	218591	CITED4	NM_133467	Homo sapiens Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy terminal domain, 4 (CITED4), mRNA >gi 30851695 gb BC052559.1 Homo sapiens Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy terminal domain, 4, mRNA (cDNA clone MGC:59904 IMAGE:6250908), complete cds	Nucleus	transcription regulator	XM_003128106	PREDICTED: Sus scrofa Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 4 (CITED4), mRNA
nine	218618	SRP72	NG_032796	Homo sapiens signal recognition particle 72kDa (SRP72), RefSeqGene on chromosome 4	Nucleus	kinase	CU207320	Pig DNA sequence from clone CH242-172116 on chromosome X, complete sequence
nine	218661	CD1A	BC031645	Homo sapiens CD1a molecule, mRNA (cDNA clone MGC:35168 IMAGE:5170038), complete cds	Plasma Membrane	other	XM_005663229	PREDICTED: Sus scrofa CD1 antigen (CD1,1), transcript variant X1, mRNA
nine	218691	MARCKSL1	NR_052852	Homo sapiens MARCKS-like 1 (MARCKSL1), transcript variant 2, long non-coding RNA	Cytoplasm	other	XM_003356280	PREDICTED: Sus scrofa MARCKS-related protein-like (LOC100628001), transcript variant 1, mRNA
nine	218841	RPS6	AK291517	Homo sapiens cDNA FLJ78049 complete cds, highly similar to Homo sapiens ribosomal protein S6 (RPS6), mRNA	Cytoplasm	other	XM_005660085	PREDICTED: Sus scrofa ribosomal protein S6 (RPS6), transcript variant X7, mRNA
nine	218865	ZFYVE19	AB209224	Homo sapiens mRNA for ZFYVE19 protein variant protein	Other	other	XM_005659745	PREDICTED: Sus scrofa zinc finger, FYVE domain containing 19 (ZFYVE19), transcript variant X2, mRNA
nine	218867	PTPRJ	XM_006718269	PREDICTED: Homo sapiens protein tyrosine phosphatase, receptor type, J (PTPRJ), transcript variant X1, partial mRNA	Plasma Membrane	phosphatase	XM_005660905	PREDICTED: Sus scrofa protein tyrosine phosphatase, receptor type, J (PTPRJ), mRNA

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nine	218908	MMP13	NG_021404	Homo sapiens matrix metalloproteinase 13 (collagenase 3) (MMP13), RefSeqGene on chromosome 11	Extracellular Space	peptidase	XM_003129808	PREDICTED: Sus scrofa matrix metalloproteinase 13 precursor (MMP-13), mRNA
nine	219086	ZBTB21	XM_005261123	PREDICTED: Homo sapiens zinc finger and BTB domain containing 21 (ZBTB21), transcript variant X3, mRNA	Nucleus	other	AY803102	Sus scrofa chromosome 17 clone pkmCon43, mRNA sequence
nine	219093	NPHP3	NG_008130	Homo sapiens nephronophthisis 3 (adolescent) (NPHP3), RefSeqGene on chromosome 3	Extracellular Space	other	FP085585	Pig DNA sequence from clone CH242-98M23 on chromosome X, complete sequence
nine	219147	RP11-331O9	AL603908	Human DNA sequence from clone RP11-331O9 on chromosome 6, complete sequence			KF569218	Sus scrofa breed DLY mitochondrion, complete genome
nine	219149	IFI30	NM_006332	Homo sapiens interferon, gamma-inducible protein 30 (IFI30), mRNA	Cytoplasm	enzyme	AK398718	Sus scrofa mRNA, clone: UTR010102A12, expressed in uterus
nine	219173	CHAF1A	AB527824	Synthetic construct DNA, clone: pF1KB8521, Homo sapiens CHAF1A gene for chromatin assembly factor 1, subunit A, without stop codon, in Flexi system			XM_003123068	PREDICTED: Sus scrofa chromatin assembly factor 1, subunit A (p150) (CHAF1A), mRNA
nine	220018	RSAD2	CU676130	Synthetic construct Homo sapiens gateway clone IMAGE:100022210 5 read RSAD2 mRNA			KC109004	Sus scrofa inflammatory response protein 6 (IRG6) mRNA, complete cds
nine	220034	FBRS	AK298229	Homo sapiens cDNA FLJ56004 complete cds, highly similar to Probable fibrosin-1 long transcript protein	Extracellular Space	cytokine	XM_005653020	PREDICTED: Sus scrofa autism susceptibility gene 2 protein-like (LOC102159616), mRNA
nine	220043	IMMP2L	NG_030016	Homo sapiens IMP2 inner mitochondrial membrane peptidase-like (S, cerevisiae) (IMMP2L), RefSeqGene on chromosome 7			XM_003134770	PREDICTED: Sus scrofa leucine rich repeat neuronal 3 (LRRN3), mRNA
nine	220055	ASGR1	M10058	Human asialoglycoprotein receptor H1 mRNA, complete cds	Plasma Membrane	transmembrane receptor	AK232660	Sus scrofa mRNA, clone: LVR010106G01, expressed in liver
nine	220426	UBE2B	DQ090910	Homo sapiens ubiquitin-conjugating enzyme E2B (RAD6 homolog) (UBE2B) gene, complete cds	Cytoplasm	enzyme	AK400927	Sus scrofa mRNA, clone: SKNB10062G08, expressed in skin
nine	220612	PIBF1	NM_006346	Homo sapiens progesterone immunomodulatory binding factor 1 (PIBF1), mRNA	Nucleus	other	XM_003482910	PREDICTED: Sus scrofa progesterone-induced-blocking factor 1-like (LOC100739028), partial mRNA
nine	220726	IMPAD1	NG_031926	Homo sapiens inositol monophosphatase domain containing 1 (IMPAD1), RefSeqGene on chromosome 8	Cytoplasm	enzyme	XM_005658188	PREDICTED: Sus scrofa ArfGAP with SH3 domain, ankyrin repeat and PH domain 3 (ASAP3), mRNA
nine	220906	RPS28P7	NG_005980	Homo sapiens ribosomal protein S28 pseudogene 7 (RPS28P7) on chromosome 11			AK391755	Sus scrofa mRNA, clone: HTMT10020D07, expressed in hypothalamus

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nine	221063	CTB-184C17	AC027305	Homo sapiens chromosome 5 clone CTB-184C17, complete sequence			XM_003127625	PREDICTED: Sus scrofa kazrin, periplakin interacting protein (KAZN), transcript variant X1, mRNA