

Comparative whey proteome analysis of Small-Tailed Han and Dairy Meade ovine milk

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Supplementary 1

Materials and methods

Experimental animals and sampling

All procedures involving animals were approved by the Ethical Principles for the Use of Animals for Scientific Purposes of Inner Mongolia University. All experiments were performed according to Chinese laws and institutional guidelines. This study did not involve any capture of live animals or animal experimentation, thus no specific ethical approval was necessary. The STH and DM sheep were all from the Mengtianran Husbandry Technology Development Co., Ltd. (Ulanqab, Inner Mongolia, China). The diet was designed based on nutritional needs and unified management. The concentrated feed was from the Mongolian Natural Feed Company, and the roughage was alfalfa hay and high-quality *lleymus chinensis*. Its daily coarse feed and fine feed formula are shown in the supplementary table1. At 90 days after lambing (peak lactation period), 4 ewes with similar body size of each group were collected. The milk samples were aseptically collected before feeding in the morning. At least 50 ml were collected from each sheep. Then placed in liquid nitrogen and immediately transported to the laboratory for further analysis.

Preparation of Whey Protein

The collected milk samples were centrifuged at 4000×g for 30 min at 4°C. After centrifugation, the milk was divided into three layers: the upper lipid layer, the middle liquid layer, and the lower sediment. After filter the middle layer liquid with 0.22 μm filter membrane, the sample was ultracentrifuged at 100000×g for 60 min at 4°C. After ultra-isolation, the supernatant containing whey protein was collected and detected the concentration by BCA method. Stored at -80°C for later use.

Trypsin Digestion of sheep whey fractions

200 μg of proteins for each sample were incorporated into 30 μL SDT buffer (4% SDS, 100 mM DTT, 150 mM Tris-HCl pH 8.0). The detergent, DTT and other low-molecular-weight components were removed using UA buffer (8 M Urea, 150

mM Tris-HCl pH 8.5) by repeated ultrafiltration (Sartorius, 30 kD). Then 100 μ L iodoacetamide (100 mM IAA in UA buffer) was added to block reduced cysteine residues and the samples were incubated for 30 min in darkness. The filters were washed with 100 μ L UA buffer three times and then 100 μ L 0.1M TEAB buffer twice. Finally, the protein suspensions were digested with 4 μ g trypsin (Promega) in 40 μ L 0.1M TEAB buffer overnight at 37 °C, and the resulting peptides were collected as a filtrate. The peptide content was estimated by UV light spectral density at 280 nm using an extinction coefficient of 1.1 of 0.1% (g/l) solution that was calculated on the basis of the frequency of tryptophan and tyrosine in vertebrate proteins.

Liquid chromatography-tandem mass spectrometry (LC-MS/MS) analysis

100 μ g peptide mixture of each sample was labelled with TMT reagent according to the manufacturer's instructions (Thermo Fisher Scientific). TMT labelled peptides were fractionated by RP chromatography using the Agilent 1260 infinity II HPLC. The peptide mixture was diluted with buffer A (10mM HCOONH₄, 5% ACN, pH 10.0) and loaded onto a XBridge Peptide BEH C18 Column, 130Å, 5 μ m, 4.6 mm X 100 mm column. The peptides were eluted at a flow rate of 1 ml/min with a gradient of 0%–7% buffer B (10mM HCOONH₄, 85% ACN, pH 10.0) for 5 min, 7–40% buffer B during 5-40 min, 40%–100% buffer B during 45-50 min, 100% buffer B during 50-65 min. The elution was monitored by absorbance at 214 nm, and fractions were collected every 1 min during 5-50 min. The collected fractions were dried down via vacuum centrifugation at 45 °C.

The peptide mixture was loaded onto the C18-reversed phase analytical column (Thermo Fisher Scientific, Acclaim PepMap RSLC 50 μ m X 15 cm, nano viper, P/N164943) in buffer A (0.1% Formic acid) and separated with a linear gradient of buffer B (80% acetonitrile and 0.1% Formic acid) at a flow rate of 300 nL/min. 6% buffer B for 5 min, 6-28% buffer B for 63 min, 28-38% buffer B for 10 min, 38-100% buffer B for 7 min, hold in 100% buffer B for 5 min.

LC-MS/MS analysis was performed on a Q Exactive Plus mass spectrometer (Thermo Fisher Scientific) that was coupled to Easy nLC (Thermo Fisher Scientific) for 90min. The mass spectrometer was operated in positive ion mode. MS data was acquired using a data-dependent top10 method dynamically choosing the most abundant precursor ions from the survey scan (350–1800 m/z) for HCD fragmentation. Automatic gain control (AGC) target was set to 3e6, and maximum inject time to 45 ms. Survey scans were acquired at a resolution of 70,000 at m/z 200 and resolution for HCD spectra was set to 17,500 at m/z 200, and isolation width was 2 m/z. Normalized collision energy was 30 eV.

Date analysis

The high resolution mass spectrometer Q Exactive plus (Thermo Fisher Scientific) was used for TMT quantitative proteomics analysis. Q Exactive plus is an Orbitrap type mass spectrometer, using fast HCD mode (Higher Energy Collisional Dissociation) Obtaining MS2 spectra can improve the transmission of low-mass ions, thereby improving sensitivity and quantitative performance, especially suitable for experiments using isotope tags. At the same time, Q Exactive plus provides powerful proteomics identification capabilities and a rich data processing software group to provide a complete A solid foundation is laid for quantitative proteomics data. Proteome Discoverer 2.1 (Thermo Fisher Scientific) software was used to convert the original map files (.raw files) generated by Q Exactive plus into .mgf files, and submit them to the MASCOT2.6 server for database search through the built-in tools of the software. Then the database search file (.dat file) formed on the MASCOT server is transmitted back to the software via Proteome Discoverer 2.1, and the data is filtered, based on the FDR<0.01 or P<0.05 standard to obtain highly reliable qualitative results.

All identified proteins were classified using the online Database for Annotation, Visualization and Integrated Discovery (<http://www.uniprot.org>) according to functional categories (UP_KEYWORDS), Gene Ontology (GO) annotations and Kyoto Encyclopedia of Genes and Genomes (KEGG) pathways.

Appendix A: Supplementary Table

Supplementary Table 1 Ingredients and chemical composition of the basal diet

Item	Value
Ingredient composition, % of DM	
Alfalfa Hay	13.60%
Leymus chinensis	27.30%
Corn grass	4.60%
Whole corn silage	15.20%
Corn grain, ground	15.20%
Ewe concentrate supplement	24.10%
composition, % of Ewe concentrate supplement	
Moisture	≤14.0
Crude protein	≥18.0
Crude fiber	≤10.0
Crude ash	≤12.0
calcium	0.4-1.2
Total carbon	≥0.4
Sodium chloride	≥1.0
Lysine	≥0.4

Supplementary Table 2 Protein profiles of all identified proteins

Accession	Gene Name	Description	Cover age [%]	# Pepti des	# PS Ms	# Pepti des	# AA s	MW [kDa]	pI calc	Abunda nces DM_1	Abunda nces DM_2	Abunda nces DM_3	Abunda nces DM_4	Abunda nces STH_1	AbundancesS TH_2	AbundancesS TH_3	Abunda nces STH_4	Avera ge DM	Avera ge STH	STH/ DM	P-val ue
	LOC10111009						11	12.6	9.1												145.5
WSPZD0	9	Uncharacterized protein	36	4	239	4	1	0	3	31.40	60.70	69.70	66.50	206.10	104.40	114.90	156.70	57.08	3	2.55	0.01
									4.6												142.4
WSPZJ1	SCGB2A2	Uncharacterized protein	51	4	185	4	84	9.40	5	28.60	63.20	67.70	72.20	202.60	116.50	123.90	126.80	57.93	5	2.46	0.01
							13	15.8	5.1												145.8
WSPAM5	RBP1	Retinol binding protein 1	24	3	11	3	5	0	1	49.20	104.90	100.40	82.70	184.40	112.40	130.70	156.00	84.30	8	1.73	0.02
							46	49.7	6.3												149.3
WSPUQ1	SLC39A8	Uncharacterized protein	4	2	10	2	1	0	2	98.10	92.30	85.40	69.60	173.80	135.70	104.20	183.80	86.35	8	1.73	0.02
							68	76.0	8.1												149.1
W5NV22	ABCG2	ABC transporter domain-containing protein	8	6	27	6	5	0	5	91.60	82.20	110.00	69.10	134.10	169.60	97.20	195.70	88.23	5	1.69	0.04
		Anaphylatoxin-like domain-containing					12	14.1	5.1												132.9
W5NXP6		protein	59	8	284	2	2	0	2	86.00	77.70	63.50	93.00	146.20	111.90	155.80	118.00	80.05	8	1.66	0.01
							64	72.1	8.2												131.6
W5Q695	SLC6A14	Transporter	8	5	16	5	1	0	7	96.70	84.70	78.00	63.00	107.00	139.50	108.10	172.10	80.60	8	1.63	0.02
	LOC10111511						47	52.8	8.3												144.2
W5Q6N3	5	Uncharacterized protein	18	9	87	9	2	0	5	88.90	86.80	114.00	69.20	140.80	160.70	90.40	185.20	89.73	8	1.61	0.05
							19	21.4	8.5									109.7	173.7		
C5IJA1		RAC1	39	7	18	6	2	0	0	90.10		117.50	121.60	206.40		149.50	165.30	3	3	1.58	0.03

		LOC10110334					43	48.3	5.9												126.6
W5PCL0	3	Uncharacterized protein	6	3	16	3	9	0	4	91.40	79.00	74.50	75.20	123.40	131.80	115.00	136.40	80.03	5	1.58	0.00
							13	146.	7.8												130.9
W5PMT0	XDH	Uncharacterized protein	47	52	736	52	29	50	0	82.20	88.40	79.10	83.20	134.00	135.90	128.30	125.40	83.23	0	1.57	0.00
							15	17.3	8.7												129.6
W5NXM1		A2M domain-containing protein	58	9	264	1	2	0	0	90.70	77.10	67.10	99.80	135.90	109.30	149.40	124.00	83.68	5	1.55	0.01
							65	73.6	7.5												131.8
W5NPK5	LOC443475	A2M_recep domain-containing protein	61	35	944	6	3	0	5	92.70	80.90	65.00	107.30	135.90	108.70	152.90	130.00	86.48	8	1.53	0.01
		Anaphylatoxin-like domain-containing					12	14.6	6.9												130.9
W5NRH2		protein	51	8	219	4	6	0	8	102.30	78.90	67.00	97.10	141.00	107.70	144.00	131.00	86.33	3	1.52	0.01
							45	50.3	6.8												123.4
W5PFB9	ALPL	Alkaline phosphatase	31	11	78	11	9	0	0	76.40	101.90	78.70	68.90	139.20	108.60	102.30	143.60	81.48	3	1.51	0.02
							68	75.0	8.6												132.3
W5NRI1		A2M_N_2 domain-containing protein	60	36	969	36	0	0	3	96.40	80.70	69.30	104.90	138.50	108.10	149.80	133.10	87.83	8	1.51	0.01
					120		90	102.	6.2												130.2
W5PST4	1	NTR domain-containing protein	52	39	2	10	1	60	5	92.90	78.50	74.60	99.90	133.90	109.20	138.20	139.50	86.48	0	1.51	0.00
							21	24.3	5.4												128.1
D2D3I8	CSN1S1	Alpha s1 casein	65	15	757	1	4	0	3	85.70	91.50	84.40	81.80	137.80	102.40	157.60	114.80	85.85	5	1.49	0.01
							36	37.3	8.5												122.4
W5PK07	SFTPD	C-type lectin domain-containing protein	21	6	28	5	9	0	9	86.60	96.90	63.30	81.90	138.50	102.40	141.90	107.00	82.18	5	1.49	0.02
							45	49.3	8.0												127.9
A6ZE99	ADFP	Perilipin	52	21	148	21	0	0	3	92.70	94.20	85.70	81.90	114.00	127.80	124.30	145.50	88.63	0	1.44	0.00
							20	23.0	5.2												123.8
W5Q3W4	RAB18	Uncharacterized protein	50	8	34	8	6	0	4	91.50	84.20	91.10	81.90	115.40	137.70	105.50	136.70	87.18	3	1.42	0.01
W5NX91	RPS27A	Ubiquitin-like domain-containing protein	27	5	85	5	17	19.2	9.5	86.70	90.60	94.30	74.70	124.30	118.00	109.10	134.60	86.58	121.5	1.40	0.00

							1	0	8												0
							10	11.4	9.3												129.4
W5QB61	FKBP1A	Peptidylprolyl isomerase	14	1	9	1	3	0	8	93.10	104.80	81.90	89.20	140.00	100.20	125.10	152.50	92.25	5	1.40	0.02
							13	14.8	6.5												103.4
W5NU39	FABP3	FABP domain-containing protein	76	10	178	10	3	0	7	71.80	69.40	71.40	84.40	110.60	116.40	101.90	84.70	74.25	0	1.39	0.01
							58	58.6	7.0												128.3
W5POU4	MUC1	SEA domain-containing protein	5	3	38	3	8	0	8	86.20	105.60	109.70	70.10	123.00	122.10	123.30	145.00	92.90	5	1.38	0.02
							23	256.	6.5												126.4
W5Q6U0	FASN	Carrier domain-containing protein	14	25	58	25	72	60	1	90.10	71.80	115.40	92.80	127.90	124.60	113.70	139.60	92.53	5	1.37	0.02
							13	14.1	5.1												127.8
Q6RUR7		Butyrophilin (Fragment)	50	4	124	1	0	0	6	86.50	96.50	104.90	86.40	114.10	130.00	113.40	153.90	93.58	5	1.37	0.02
							44	48.2	5.7												116.7
W5PFP5	PLIN3	Perilipin	21	8	34	7	9	0	1	76.80	84.80	90.30	90.90	125.50	100.70	119.10	121.70	85.70	5	1.36	0.00
							34	37.2	5.8												124.4
W5PY10	MUC15	Uncharacterized protein	20	7	60	7	2	0	7	76.50	87.40	106.80	95.90	148.80	135.70	101.20	111.90	91.65	0	1.36	0.04
							31	34.8	6.3									118.8	157.3		
P82197	PDXK	Pyridoxal kinase	23	5	8	5	2	0	3	109.50		126.10	120.80	178.30		139.80	153.90	0	3	1.32	0.04
							44	50.4	6.2												115.1
C5I188		Rab GDP dissociation inhibitor	56	19	106	15	5	0	5	82.20	87.20	96.00	85.70	113.70	108.90	105.40	132.70	87.78	8	1.31	0.01
							47	503.	5.4												113.9
W5PU70		Uncharacterized protein	6	24	107	24	81	20	9	71.80	92.80	92.70	93.00	133.50	114.90	98.30	108.90	87.58	0	1.30	0.03
							20	22.9	8.1												113.8
C5I185		RAB1A	39	8	51	4	4	0	0	90.40	91.70	88.30	81.10	108.10	118.10	105.30	123.90	87.88	5	1.30	0.00
							18	20.8	5.7												109.9
W5NSD5	RAP1B	Uncharacterized protein	64	9	40	4	4	0	8	87.70	79.70	96.20	80.00	97.40	117.00	107.90	117.40	85.90	3	1.28	0.01

							26	28.8	8.3												108.2
W5Q9M2	RAB11A	Uncharacterized protein	29	8	59	7	1	0	7	75.90	94.60	94.30	95.30	115.90	107.90	93.40	115.80	90.03	5	1.20	0.04
							43	49.6	5.5												110.1
W5NU86	GLA	Alpha-galactosidase	21	7	18	7	9	0	3	98.30	109.30	114.80	118.10	102.70	98.00	85.10	81.20	3	91.75	0.83	0.03
							49	54.6	6.3												109.4
W5PXC8	SERPINF2	SERPIN domain-containing protein	16	7	58	7	1	0	4	109.70	107.40	104.60	116.00	97.50	104.10	86.20	75.90	3	90.93	0.83	0.03
							64	72.8	6.7												145.8
W5Q1M0	GLB1	Beta-galactosidase	3	2	4	2	9	0	7		154.20	154.90	128.30		120.70	122.20	116.10	0	7	0.82	0.04
							86	95.3	6.7												109.7
W5PZP2	ST14	Uncharacterized protein	4	3	6	3	1	0	9	108.30	113.80	114.80	102.10	87.60	94.60	97.00	80.30	5	89.88	0.82	0.01
							45	48.3	7.7												113.9
W5Q517	PCOLCE	Uncharacterized protein	16	5	26	5	1	0	1	100.40	113.70	122.10	119.40	97.10	96.60	97.70	81.20	0	93.15	0.82	0.02
							72	81.3	6.6												114.7
W5P6M9	CPXM1	F5/8 type C domain-containing protein	5	3	14	3	7	0	1	119.60	105.60	116.90	117.00	88.80	92.20	98.80	95.50	8	93.83	0.82	0.00
							13	15.1	9.0												116.0
A2P2H1	VH	VH region (Fragment)	22	3	18	3	8	0	6	107.80	122.80	110.40	123.10	100.50	89.30	103.40	84.80	3	94.50	0.81	0.01
							93	103.	5.3												111.2
W5NW80	GAA	P-type domain-containing protein	8	6	16	6	0	10	9	108.10	102.70	124.90	109.40	84.20	100.40	85.50	90.60	8	90.18	0.81	0.01
							50	56.0	6.7												112.3
W5PAM4	CTSA	Carboxypeptidase	12	5	25	5	1	0	0	110.70	109.00	122.50	107.20	87.20	87.80	97.60	90.40	5	90.75	0.81	0.00
							14	164.	6.0												112.8
W5NSA6	A2M	Uncharacterized protein	32	39	249	39	77	10	2	135.20	102.00	109.70	104.50	88.50	93.90	98.60	79.00	5	90.00	0.80	0.04
							34	38.8	6.4												112.6
W5Q2E1	LUM	LRRNT domain-containing protein	15	5	17	5	2	0	6	105.90	119.80	100.70	124.30	85.30	91.90	97.00	84.80	8	89.75	0.80	0.01
W5P694	RPLP2	Uncharacterized protein	25	2	10	2	11	11.6	4.6	129.30	119.40	94.30	99.80	79.50	91.10	94.10	86.80	110.7	87.88	0.80	0.04

								1	0	1												0
								35	39.2	7.4												110.8
W5P812	AMBP	Uncharacterized protein	26	8	41	8	2	0	0	113.30	99.80	113.30	116.90	89.60	96.10	87.70	77.90	3	87.83	0.80	0.01	
								14	16.1	9.2												113.4
K4P494	CST3	Cystatin C	47	6	112	6	6	0	5	113.00	109.10	111.10	120.50	92.60	91.70	98.50	76.10	3	89.73	0.80	0.01	
								16	18.9	5.2												101.2
W5NZ47	RBP4	Retinol-binding protein	56	6	48	6	5	0	2	93.80	92.40	107.20	111.70	78.80	95.50	72.90	73.00	8	80.05	0.79	0.03	
								66	76.0	4.9												111.7
W5P6E0	OS9	PRKCSH domain-containing protein	51	32	229	32	8	0	2	101.70	118.60	110.30	116.50	92.60	95.30	93.80	70.40	8	88.03	0.79	0.02	
								70	77.8	5.0												110.1
W5P3J3	C1S	Uncharacterized protein	20	12	36	12	1	0	6	113.50	103.70	102.20	121.10	75.80	94.50	93.70	81.70	3	86.43	0.78	0.01	
								52	57.3	6.2												113.0
W5P3S8	ATP6AP1	Uncharacterized protein	14	5	26	5	4	0	8	121.70	108.50	105.90	116.20	94.10	92.30	95.40	72.50	8	88.58	0.78	0.01	
								42	48.7	8.4												109.5
W5PD62	CPB2	Peptidase_M14 domain-containing protein	8	3	7	3	3	0	6	116.90	105.70	102.00	113.60	85.70	100.10	92.70	64.50	5	85.75	0.78	0.03	
								26	28.5	4.3												110.8
W5QCT3	CGREF1	Uncharacterized protein	26	4	8	4	5	0	6	99.80	110.70	110.10	122.70	93.60	85.20	91.50	75.40	3	86.43	0.78	0.01	
		LOC10110448						14	165.	6.4												214.0 165.4
W5NQW4	2	Uncharacterized protein	19	22	76	1	88	60	2	211.50		216.50		173.80		157.10	0	5	0.77	0.03		
								45	50.3	7.5												107.9
W5PHP7		SERPIN domain-containing protein	34	12	203	11	2	0	5	90.80	110.60	104.80	125.40	79.20	90.80	84.70	78.70	0	83.35	0.77	0.02	
								52	56.5	5.0												109.7
W5PHY6	NECTIN2	Nectin cell adhesion molecule 2	10	5	8	5	6	0	3	103.10	120.70	109.60	105.60	88.60	87.50	89.60	72.40	5	84.53	0.77	0.00	
								22	24.8	8.5												115.2
W5QAI4	FAM3C	ILEI domain-containing protein	18	3	14	3	7	0	0	103.30	128.30	110.80	118.50	99.50	84.70	95.10	73.40	3	88.18	0.77	0.01	

		LOC10112229					36	39.4	6.7												109.0
W5PWS0	4	Membrane cofactor protein	15	3	16	3	3	0	4	123.40	97.10	111.10	104.70	78.60	108.70	73.80	72.50	8	83.40	0.76	0.05
							25	29.5	6.2												106.4
W5NX51	APOA1	Apolipoprotein A1	63	18	488	18	9	0	0	94.20	115.90	106.20	109.30	78.00	93.20	75.60	77.50	0	81.08	0.76	0.01
		LOC10111308					76	85.2	6.2												114.9
W5P1J8	6	Amine oxidase	9	7	26	6	6	0	0	120.40	95.80	121.70	121.80	88.50	110.90	75.40	69.40	3	86.05	0.75	0.04
							12	141.	5.0												111.3
W5QFP0	THBS1	Uncharacterized protein	27	30	160	30	86	10	8	133.50	115.70	91.10	105.20	66.70	87.90	84.10	94.70	8	83.35	0.75	0.04
							13	14.9	9.5												111.4
W5PHQ8	TSTD1	Rhodanese domain-containing protein	53	5	21	5	6	0	8	88.60	118.30	127.40	111.60	97.00	93.50	80.90	62.10	8	83.38	0.75	0.05
							49	51.9	8.5												110.2
W5P101	A1BG	Ig-like domain-containing protein	30	12	113	12	0	0	7	95.70	110.40	119.00	115.80	86.50	95.40	78.70	68.50	3	82.28	0.75	0.01
							22	25.8	8.2												128.8
W5NZY6	DNAJB9	J domain-containing protein	14	3	23	3	3	0	8	156.40	111.00	137.20	110.70	88.80	105.20	108.40	81.00	3	95.85	0.74	0.04
									4.7												106.1
O02762		Apolipoprotein A1 (Fragment)	29	1	64	1	56	6.60	2	95.00	115.40	102.20	112.10	71.60	94.80	74.70	71.90	8	78.25	0.74	0.01
							16	177.	5.1												116.5
W5QD08	LAMC1	Uncharacterized protein	11	14	34	14	10	80	1	92.00	132.40	130.40	111.30	94.80	88.40	82.10	75.80	3	85.28	0.73	0.02
							55	62.2	6.2												105.9
W5P987	GRK7	G protein-coupled receptor kinase	2	1	13	1	2	0	1	90.30	104.00	101.30	128.00	74.10	91.00	75.70	68.80	0	77.40	0.73	0.02
							47	51.8	5.3												120.6
W5Q411	HSPA13	Uncharacterized protein	16	7	53	7	1	0	6	107.00	146.30	117.90	111.30	96.50	75.10	97.40	82.80	3	87.95	0.73	0.02
							20	215.	5.9												119.7
W5PAT6	AGRN	Uncharacterized protein	18	30	102	30	43	60	4	136.60	122.20	114.70	105.50	86.50	83.30	100.70	78.70	5	87.30	0.73	0.01
W5Q1S8	CEMP	G8 domain-containing protein	1	1	7	1	13	152.	7.7	162.70	131.70	119.80	135.00	87.40	97.00	109.90	103.40	137.3	99.43	0.72	0.01

								61	70	1											0			
								77	86.9	4.8											156.2	112.9		
W5Q0C6	APP	Amyloid-beta A4 protein	8	5	16	4	0	0	3	163.30	137.60	167.70		115.70	122.00	101.20					0	7	0.72	0.02
								52	60.2	6.0											110.2			
B2LSM6		Beta-hexosaminidase	24	12	30	12	9	0	1	116.90	102.30	104.40	117.20	83.70	83.00	79.60	71.50	0	79.45	0.72		0.00		
								22	24.3	7.4											153.2	110.1		
C8BKC3	TIMP2	Metalloproteinase inhibitor 2	11	3	8	3	0	0	7	136.30		179.90	143.60	113.50		102.00	114.80	7	0	0.72		0.04		
								96	110.	6.6											120.4			
W5Q953	ERAP2	Amino-peptidase	11	9	21	9	8	80	5	122.60	132.40	111.50	115.40	86.40	78.40	95.50	85.30	8	86.40	0.72		0.00		
								11	12.5	7.2											108.9			
W5QI07		Ig-like domain-containing protein	14	1	23	1	1	0	8	124.30	123.00	90.70	97.80	78.40	69.30	64.40	99.80	5	77.98	0.72		0.04		
								33	36.7	6.1											113.6			
P83205	CTSB	Cathepsin B	45	12	164	12	5	0	3	114.20	106.10	129.00	105.20	69.40	80.20	83.70	91.90	3	81.30	0.72		0.00		
								23	26.0	6.7											114.5			
W5PH94	PRL	Prolactin	10	2	7	2	1	0	1	91.70	118.40	120.10	128.00	87.10	87.00	87.00	66.60	5	81.93	0.72		0.01		
								46	51.9	7.0											111.9			
W5QAB1	HPX	Uncharacterized protein	38	17	216	17	0	0	2	121.40	96.60	112.70	117.20	71.50	66.00	100.20	79.60	8	79.33	0.71		0.01		
A0A0H5F								15	17.7	5.1											154.3	108.7		
RL0	Ovar-I	MHC class I antigen (Fragment)	22	3	6	3	3	0	7	166.10	157.40	139.40		94.30	115.90	116.00		0	3	0.70		0.01		
		Thyroglobulin type-1 domain-containing						31	35.3	7.9											150.1	105.7		
W5P599	EPCAM	protein	12	3	8	3	5	0	0	136.10		157.60	156.80	113.60		101.70	101.80	8	0	0.70		0.01		
								55	61.9	8.3											112.8			
W5NZ62	GNS	N-acetylglucosamine-6-sulfatase	11	5	34	5	2	0	4	94.60	111.40	139.10	106.30	86.20	79.50	69.50	82.40	5	79.40	0.70		0.02		
								42	48.6	6.7											147.1	103.2		
W5Q6T1	ARSB	Sulfatase domain-containing protein	7	3	6	3	9	0	6	133.00		147.30	161.10	99.80		100.00	110.00	3	7	0.70		0.01		

							36	41.3	8.1												116.1
A2TJ54	CLN5	Ceroid-lipofuscinosis neuronal protein 5	25	8	23	8	1	0	6	103.60	126.60	121.50	112.80	75.60	85.80	79.50	83.10	3	81.00	0.70	0.00
							41	46.6	4.9												128.1
W5PG72	GOLM1	Uncharacterized protein	19	9	27	9	5	0	6	156.80	105.10	107.10	143.50	97.10	86.50	84.10	89.50	3	89.30	0.70	0.03
							62	70.0	6.6												117.6
C8BKD1	F2	Prothrombin	41	19	87	19	3	0	1	119.80	116.90	116.50	117.20	78.00	98.20	84.10	66.60	0	81.73	0.69	0.00
							16	18.6	8.4												148.3
W5NVB2		SERPIN domain-containing protein	39	7	107	1	8	0	0	130.80		151.60	162.50	110.50		108.20	88.10	0	7	0.69	0.02
							35	39.7	7.7												165.0
W5PKV1	DNASE2	Uncharacterized protein	14	5	12	5	8	0	5	190.00		147.30	157.80	100.70		140.00	99.70	3	7	0.69	0.05
							31	34.4	4.4												163.5
W5Q9E9	SSR1	Signal sequence receptor subunit 1	5	1	3	1	1	0	5		177.60	150.00	162.90		120.80	109.40	106.70	0	0	0.69	0.01
		Fe2OG dioxygenase domain-containing					84	96.4	7.2												126.5
W5P6Q8	PLOD2	protein	25	17	73	17	1	0	7	111.40	134.60	130.00	130.00	99.00	73.60	74.50	98.40	0	86.38	0.68	0.00
							12	12.7	5.0												256.3
W5NSM4	EIF4EBP1	Uncharacterized protein	16	1	2	1	0	0	1			266.10	246.60			160.10	189.90	5	0	0.68	0.05
A0A286S							37	39.6	5.7												116.2
F73	CD14	Monocyte differentiation antigen CD14	40	10	102	10	3	0	3	103.90	130.10	111.30	119.80	90.60	72.70	91.80	59.90	8	78.75	0.68	0.01
							53	59.8	5.2												124.4
W5NZ70	LGALS3BP	Uncharacterized protein	15	7	22	7	6	0	0	106.50	134.10	152.90	104.20	106.40	76.90	70.30	82.90	3	84.13	0.68	0.03
							38	41.9	8.0												106.8
W5PY51	CCN1	Uncharacterized protein	25	8	53	8	2	0	7	119.30	74.50	115.70	117.70	62.90	84.40	74.90	66.60	0	72.20	0.68	0.03
		Fe2OG dioxygenase domain-containing					70	80.8	6.7												128.5
W5Q989	PLOD1	protein	11	5	11	5	1	0	0	158.60	129.60	114.60	111.50	79.20	74.50	102.40	91.50	8	86.90	0.68	0.02
W5PS45	MAN2B1	Alpha-mannosidase	15	13	56	13	10	113.	8.2	110.10	111.80	125.10	124.60	76.10	79.40	81.60	80.00	117.9	79.28	0.67	0.00

								03	30	2												0
								14	15.1	8.7												111.8
A2P2I3	VH	VH region (Fragment)	7	1	42	1	2	0	8	94.30	120.50	114.70	118.00	83.90	82.90	78.00	54.90	8	74.93	0.67	0.01	
								45	513.	7.1												122.8
W5Q7J0	APOB	Vitellogenin domain-containing protein	5	18	35	18	49	80	2	140.90	109.10	124.20	117.00	84.50	77.30	99.50	66.40	0	81.93	0.67	0.01	
								47	53.5	6.1												123.7
W5Q9D5	VTN	SMB domain-containing protein	7	3	16	3	5	0	6	123.30	117.30	123.30	131.10	89.00	88.70	104.50	47.30	5	82.38	0.67	0.02	
								67	73.0	9.5												161.5
W5P3R0		Thioredoxin domain-containing protein	6	4	6	4	6	0	2		150.80	169.70	164.00		117.90	121.10	82.00	0	0	0.66	0.02	
								41	46.8	5.2												120.8
W5QBZ7	NAGA	Alpha-galactosidase	25	9	94	9	5	0	9	127.70	118.90	121.00	115.60	82.90	85.80	81.10	69.50	0	79.83	0.66	0.00	
								40	45.4	7.9												123.5
W5PFY3	ASAH1	Uncharacterized protein	19	7	37	7	0	0	0	123.30	135.10	121.60	114.20	78.60	78.40	73.70	91.10	5	80.45	0.65	0.00	
								46	50.9	8.0												154.7
W5PBB5	CTSF	Uncharacterized protein	9	3	11	3	0	0	9	134.60		183.10	146.50	105.70		91.40	105.10	3	3	0.65	0.02	
								57	62.4	6.7												123.6
W5Q686	TPP1	Peptidase S53 domain-containing protein	18	8	29	8	2	0	4	103.80	127.70	151.40	111.80	84.00	76.70	71.00	86.00	8	79.43	0.64	0.01	
								25	27.1	6.9												123.7
W5PRG8	CREG1	Uncharacterized protein	29	5	67	5	2	0	8	116.90	112.40	160.90	104.90	78.30	98.20	64.40	69.50	8	77.60	0.63	0.02	
								24	26.6	8.2												116.9
W5QHZ5		Uncharacterized protein	38	7	215	7	2	0	9	96.00	107.50	115.30	149.10	65.50	109.10	45.00	68.10	8	71.93	0.61	0.04	
								30	34.1	6.7												122.6
W5QG24	PPT1	Uncharacterized protein	35	8	44	8	7	0	1	117.60	125.20	122.00	125.70	72.20	80.70	79.80	64.50	3	74.30	0.61	0.00	
								36	39.8	6.9												125.7
Q9MZS8	CTSD	Cathepsin D (Fragment)	33	10	95	7	5	0	8	110.70	140.40	139.20	112.70	75.60	67.40	74.00	83.20	5	75.05	0.60	0.00	

	LOC10111989						20	22.0	9.3								245.4	146.1			
W5QA64	5	C1q domain-containing protein	12	2	3	2	3	0	1	233.70		257.10		136.90		155.40		0	5	0.60	0.02
							31	36.2	5.8								141.1				
W5PI61	APOE	Apolipoprotein E	43	13	80	13	7	0	3	164.40	130.30	103.30	166.50	73.80	66.30	123.90	70.60	3	83.65	0.59	0.03
							57	63.2	8.4								125.3				
W5PCE0	PLBD2	Phospholipase B-like	25	12	56	12	0	0	3	118.70	127.20	133.80	121.80	65.10	80.90	69.80	81.10	8	74.23	0.59	0.00
							52	58.1	5.1								120.1				
W5PAJ2	PSAP	Prosaposin	58	26	351	26	5	0	1	100.20	134.50	130.80	114.90	78.20	70.80	62.70	70.20	0	70.48	0.59	0.00
							43	49.2	6.6								127.9				
W5PUH5	LGMN	Uncharacterized protein	16	6	35	6	3	0	1	126.30	134.20	138.00	113.10	65.40	59.80	64.70	106.80	0	74.18	0.58	0.01
							14	14.4	7.7								117.7				
W5PSC1		Ig-like domain-containing protein	25	2	17	2	2	0	5	87.20	109.90	117.50	156.30	86.80	77.50	51.00	51.70	3	66.75	0.57	0.02
							39	41.8	8.1								126.3				
W5P4H9		Peptidase A1 domain-containing protein	16	6	66	3	2	0	9	113.20	132.00	135.60	124.50	63.10	69.50	69.70	83.20	3	71.38	0.57	0.00
		G protein regulated inducer of neurite					92	94.0	5.7								173.6				
W5NXZ8	GPRIN1	outgrowth 1	1	1	6	1	0	0	7		203.80	134.50	182.70		93.50	106.90	86.60	7	95.67	0.55	0.02
							52	57.6	8.3								115.7				
W5PBU7	TMPRSS13	Uncharacterized protein	2	1	7	1	5	0	4	66.80	118.70	146.50	131.00	72.90	84.20	56.50	39.70	5	63.33	0.55	0.04
							10	122.	5.7								181.0				
W5Q3W1	AEBP1	F5/8 type C domain-containing protein	4	3	6	3	90	90	1		193.10	211.20	138.70		100.60	86.50	96.90	0	94.67	0.52	0.02
							10	11.3	8.1								126.6				
W5PJ97	APOA2	Uncharacterized protein	19	2	25	2	2	0	0	161.20	122.70	95.20	127.60	48.10	81.80	80.80	53.70	8	66.10	0.52	0.01
							25	271.	4.9								140.8				
W5P8R7	FCGBP	Uncharacterized protein	22	40	211	40	44	10	1	142.10	137.10	135.00	149.20	71.60	75.20	89.40	54.70	5	72.73	0.52	0.00
W5NRA2	S100A2	Protein S100	15	2	4	2	98	11.0	4.9	320.60		269.00		127.90		166.30	294.8	147.1	0.50	0.04	

								0	1									0	0		
								96	109.	5.4								138.8			
W5PQH2	ANPEP	Aminopeptidase	19	16	52	16	8	20	5	153.50	134.50	131.50	136.00	58.60	60.80	80.20	74.50	8	68.53	0.49	0.00
								18	19.0	5.4								107.8			
W5NXL7		Ig-like domain-containing protein	23	3	99	1	6	0	5	120.00	100.10	83.90	127.40	48.00	50.50	57.40	44.50	5	50.10	0.46	0.00
	LOC10111085							23	25.2	10.								198.4			
W5Q5J4	5	Uncharacterized protein	12	2	25	2	0	0	01	302.90	166.80	178.40	145.60	65.00	111.10	81.00	86.20	3	85.83	0.43	0.02
								20	22.0	6.6								141.8			
W5Q5H4		Uncharacterized protein	4	1	16	1	1	0	7	155.80	142.20	109.00	160.20	49.90	44.60	80.80	48.00	0	55.83	0.39	0.00
								25	29.0	8.9								116.8	315.5		
W5PVY5	PGAM2	Phosphoglycerate mutase	8	3	5	2	6	0	0	111.50			122.10	207.50			423.50	0	0	2.70	0.21
								14	15.9	9.4									136.3		
Q29543	BRN	Brain ribonuclease	10	2	11	2	3	0	4	26.20	72.40		68.70	211.90	164.70		32.40	55.77	3	2.44	0.22
								44	49.2	8.8									138.7		
W5PSA1	TCN1	DUF4430 domain-containing protein	28	11	76	11	0	0	5	59.50	55.40	67.40	64.10	124.00	226.90	56.30	147.70	61.60	3	2.25	0.07
								35	41.6	7.9									201.6		
W5P0M9	ABO	Uncharacterized protein	6	1	4	1	9	0	1		123.70	67.20	95.30		121.90	259.80	223.30	95.40	7	2.11	0.08
		Mannose-6-phosphate receptor binding						14	16.3	8.8								140.4	277.0		
B0FJL9	M6PRBP1	protein 1 (Fragment)	21	2	3	1	3	0	1	155.60			125.30	218.30			335.80	5	5	1.97	0.15
								20	23.6	7.0								117.1	200.9		
W5P2R0		Uncharacterized protein	23	4	13	3	8	0	3		160.80	126.20	64.40		162.50	128.30	311.90	3	0	1.72	0.26
								32	34.5	8.1								198.1	334.8		
W5PBW1	SDS	PALP domain-containing protein	42	12	47	12	9	0	5	304.90			91.30	172.70			496.90	0	0	1.69	0.55
								17	19.1	10.								170.4	281.4		
W5P4I1		Glutaredoxin domain-containing protein	25	4	12	4	8	0	62			188.20	152.70			192.70	370.20	5	5	1.65	0.35

							10	10.5	4.7												122.8	
W5P7X5	WFDC2	Uncharacterized protein	71	6	68	6	0	0	7	61.50	84.50	62.60	95.00	183.10	86.40	124.60	97.10	75.90	0	1.62	0.09	
							30	32.9	8.9												112.2	178.7
W5P010	RAB1B	Uncharacterized protein	21	6	38	2	7	0	8	137.40		109.10	90.20	138.20		150.90	247.10	3	3	1.59	0.15	
							25	27.9	10.												171.3	261.2
W5PIY0	ELANE	Peptidase S1 domain-containing protein	11	2	8	2	9	0	02	192.20			150.40	161.70			360.80	0	5	1.53	0.47	
		UBIQUITIN_CONJUGAT_2					15	17.4	5.5												180.9	274.3
W5Q2R9		domain-containing protein	18	3	5	3	3	0	7		203.70		158.10		214.10		334.50	0	0	1.52	0.28	
		Collagen IV NCI domain-containing					15	151.	8.7												112.3	167.7
W5P813	COL4A1	protein	2	3	12	3	74	60	2	50.20	142.20	144.70		230.30	131.20	141.70		7	3	1.49	0.28	
		Thyroglobulin type-1 domain-containing					29	33.0	7.6													147.9
W5PBE0	CD74	protein O	10	3	5	3	4	0	9	143.00	98.80	70.30	85.10	118.00	126.50	182.30	164.80	99.30	0	1.49	0.07	
							32	36.9	4.6												189.3	281.4
W5PAK2		Uncharacterized protein	11	3	3	3	0	0	0	272.30				106.30	136.80		426.10	0	5	1.49	0.64	
							14	15.4	8.4												124.0	181.8
A2P2I0	VH	VH region (Fragment)	8	1	4	1	2	0	6	149.70		142.00	80.30	118.50		150.50	276.50	0	3	1.47	0.34	
							28	33.0	4.7												192.7	282.1
W5NUU3	TPM3	Uncharacterized protein	25	8	20	4	5	0	4	225.90			159.60	202.00			362.20	5	0	1.46	0.41	
							83	93.3	7.4												166.6	241.4
W5PK02	POSTN	Uncharacterized protein	4	2	4	2	6	0	0	152.20			181.10	266.60			216.20	5	0	1.45	0.12	
		SH3 domain-binding glutamic																			201.1	290.1
W5NSY8	SH3BGRL	acid-rich-like protein	40	6	13	6	99	0	5	253.00			149.30	171.30			409.00	5	5	1.44	0.56	
							16	18.6	9.9												235.0	337.8
P79361	Bac7.5	7.5 kDabactinecin (Fragment)	48	7	46	3	4	0	9	378.90			91.20	134.90			540.80	5	5	1.44	0.72	
W5NQH6	S100A9	Protein S100	34	6	24	6	13	14.9	6.4	131.70	131.60	72.00	35.70	95.80	99.00	77.70	259.60	92.75	133.0	1.43	0.44	

								3	0	2											3	
								20	23.5	5.5											119.5	
W5PDR1	RAB6A	Uncharacterized protein	27	5	21	4	8	0	4	80.10	91.90	93.00	71.20	110.70	114.80	89.30	163.20	84.05	0	1.42	0.07	
								54	61.1	7.8											171.7	244.0
W5QGX7	EHD4	Uncharacterized protein	4	2	2	2	0	0	5	181.00			162.50	203.30			284.70	5	0	1.42	0.23	
								24	26.2	8.8											195.8	277.9
W5QIW1	LGALS3	Galectin	17	4	6	4	9	0	5	244.40			147.20	179.50			376.30	0	0	1.42	0.53	
								35	40.5	6.3											215.9	302.1
W5QH58	DNAJB11	J domain-containing protein	11	3	6	3	8	0	2	310.00			121.80	195.30			408.90	0	0	1.40	0.61	
								81	89.9	5.3											173.2	241.8
W5PRJ4	VCP	Uncharacterized protein	14	7	8	7	2	0	3			199.70	146.80			149.70	334.00	5	5	1.40	0.55	
								37	38.9	9.1											192.2	268.1
W5Q400	HNRNPA1	Uncharacterized protein	11	4	7	3	4	0	3			231.80	152.60			172.40	363.90	0	5	1.40	0.54	
								50	54.8	6.7											170.0	237.1
P51977	ALDH1A1	Retinal dehydrogenase 1	6	3	5	2	1	0	9	149.60			190.40	242.70			231.60	0	5	1.40	0.09	
								41	46.7	6.8												114.4
W5QCD6	IDH1	Isocitrate dehydrogenase [NADP]	74	26	306	2	4	0	0	70.10	72.10	85.10	101.40	110.30	163.20	93.10	91.10	82.18	3	1.39	0.13	
	LOC10699041							14	16.8	10.											135.6	188.4
W5PHG0	4	Histone H3	16	3	8	3	8	0	96	214.00		127.20	65.80	90.80		159.20	315.20	7	0	1.39	0.54	
								74	83.0	8.2												130.5
W5Q791	KEL	Uncharacterized protein	10	7	14	7	0	0	1	86.50	89.20	77.80	124.20	120.10	167.40	133.50	101.30	94.43	8	1.38	0.08	
								19	21.2	6.5												122.6
M4WED3	CDC42	Cell division cycle 42	36	6	18	5	1	0	5	87.10	99.40	99.50	72.70	97.20	126.30	98.80	168.20	89.68	3	1.37	0.11	
					137			14	16.3	5.0											123.0	167.9
P09462	LALBA	Alpha-lactalbumin	42	10	1	1	2	0	2	64.70	181.40			183.20	152.70			5	5	1.36	0.53	

								14	15.6	6.5								169.2	230.7		
W5P6X2	IGFBP7	Ig-like domain-containing protein	30	3	10	1	4	0	2	148.80	189.60		257.80	203.70				0	5	1.36	0.21
								21	24.6	4.7								114.1	154.0		
W5PRC4	CIB1	Calcium and integrin-binding protein 1	12	2	4	2	7	0	9	119.70		132.10	90.70	130.10		138.20	193.80	7	3	1.35	0.17
								27	31.2	4.5									105.8		
W5NX56	SPP1	Osteopontin	50	13	388	13	9	0	6	63.50	79.90	64.40	106.70	109.60	119.70	99.20	94.80	78.63	3	1.35	0.06
		AA_TRNA_LIGASE_II						51	58.8	5.8								125.0	167.9		
W5QCS4	SARS	domain-containing protein	21	8	18	8	4	0	6	174.10		116.10	84.80	104.30		121.40	278.20	0	7	1.34	0.52
								75	85.1	8.6								129.8	173.8		
W5Q605	SEMA3C	Uncharacterized protein	2	1	4	1	1	0	8	162.80		150.20	76.50	161.40		205.40	154.80	3	7	1.34	0.23
								37	41.7	5.4								125.4	167.7		
P60713	ACTB	Actin, cytoplasmic 1	54	16	319	1	5	0	8		179.50	122.10	74.60		110.60	95.20	297.40	0	3	1.34	0.59
								13	148.	6.5								175.8	233.4		
W5PP25	ADGRF5	Uncharacterized protein	1	2	3	2	38	90	1	179.30	172.40			251.70	215.10			5	0	1.33	0.09
								25	27.9	7.7									114.0		
W5PJ66	CFD	Peptidase S1 domain-containing protein	41	8	24	8	9	0	1	69.00	102.20	80.70	92.70	165.70	90.90	70.70	128.70	86.15	0	1.32	0.26
								36	39.4	8.1								121.4	160.5		
W5PIX9	ALDOA	Fructose-bisphosphate aldolase	46	15	45	12	4	0	9	153.00		111.80	99.50	128.90		101.00	251.80	3	7	1.32	0.47
								73	80.5	5.9								100.8	132.8		
W5QGM9	MELTF	Uncharacterized protein	52	29	197	29	9	0	0	107.30	102.70	86.20	107.00	123.10	124.50	174.40	109.30	0	3	1.32	0.08
								25	27.2	7.9								211.3	277.7		
W5PIW6	PRTN3	Peptidase S1 domain-containing protein	13	3	14	3	3	0	0	290.30			132.40	145.20		410.30		5	5	1.31	0.71
										4.6									106.3		
W5PLW3	TFF3	P-type domain-containing protein	51	2	24	2	81	8.80	4	46.90	68.90	121.60	87.90	141.90	94.10	94.90	94.40	81.33	3	1.31	0.25
W5PIF5	CHMP2A	Uncharacterized protein	4	1	3	1	22	25.1	5.9			181.30	154.60		165.70	272.80	167.9	219.2	1.31	0.45	

							2	0	7									5	5		
							20	23.6	5.1											118.8	
W5Q9B2	ARHGDIA	Uncharacterized protein	43	7	28	7	6	0	2	90.20	92.50	95.50	86.30	111.70	110.40	97.50	155.80	91.13	5	1.30	0.08
							19	22.4	6.5											110.6	
W5Q2V0	YKT6	Uncharacterized protein	28	5	22	5	8	0	8	69.90	99.00	70.20	100.10	137.30	106.20	114.10	84.80	84.80	0	1.30	0.11
							56	64.0	6.9											106.9	
W5PF04	MAN1A1	alpha-1,2-Mannosidase	6	3	7	3	3	0	3	72.40	81.70	80.40	94.00	102.30	112.80	132.40	80.30	82.13	5	1.30	0.08
							56	61.6	7.9											176.4	228.6
W5QC41	PKM	Pyruvate kinase	39	18	35	18	7	0	9	209.60			143.30	166.40		290.90	5	5	1.30	0.54	
							41	46.4	7.2											176.9	228.3
W5PS88	GOT1	Aspartate aminotransferase	3	1	2	1	3	0	0				176.80	177.00		159.90	296.80	0	5	1.29	0.53
							38	41.7	5.3												112.0
W5NXM6	PTX3	LamGL domain-containing protein	48	15	70	15	0	0	0	101.10	83.70	72.20	90.90	75.80	108.40	99.50	164.40	86.98	3	1.29	0.25
							24	26.6	11.											215.4	273.6
W5PIP4	AZU1	Peptidase S1 domain-containing protein	29	6	12	6	7	0	14	279.90			150.90	170.60		376.60	0	0	1.27	0.68	
							16	17.9	8.1												124.7
K4P1S5	PPIA	Peptidyl-prolyl cis-trans isomerase	47	7	72	7	4	0	6	112.30	107.40	91.60	82.00	117.50	100.00	109.70	171.90	98.33	8	1.27	0.18
							12	14.1	6.3											211.5	268.3
W5NR63	S100A4	Protein S100	13	3	12	3	6	0	0	277.40			145.60	161.80		374.80	0	0	1.27	0.70	
							55	65.4	6.0												123.1
W5NXN2		FERM domain-containing protein	43	25	121	2	3	0	0	131.70	89.40	92.50	74.90	103.30	103.00	101.00	185.30	97.13	5	1.27	0.32
							24	24.9	6.8											103.2	130.5
W5QIH4	MARCKSL1	MARCKS like 1	12	3	7	3	1	0	1	83.00	99.20	129.10	101.50	192.40	82.90	111.60	135.20	0	3	1.26	0.32
							44	48.2	6.8											101.2	127.2
W5PIG7	ENO1	Uncharacterized protein	50	17	116	17	3	0	7	149.70	109.90	83.80	61.50	90.10	93.30	115.50	210.20	3	8	1.26	0.47

							25	29.2	4.7									101.0	126.3			
P62262	YWHAE	14-3-3 protein epsilon	29	7	39	4	5	0	4	131.40	118.40	87.20	67.00	92.00	94.10	116.90	202.30	0	3	1.25	0.43	
							25	27.4	5.1									115.9	144.7			
W5PEN1	TPD52	Uncharacterized protein	21	4	10	4	1	0	1	104.10	118.00		125.70	131.50	132.40		170.30	3	3	1.25	0.11	
							55	62.9	7.7									143.3	178.6			
W5P323	GPI	Glucose-6-phosphate isomerase	27	13	42	13	7	0	2	188.60	155.20		86.10	129.70	128.60		277.60	0	3	1.25	0.58	
							70	77.3	6.8													
W5PF65	TF	Uncharacterized protein	79	53	924	48	4	0	1	86.50	72.30	61.50	77.40	81.20	123.00	92.30	72.60	74.43	92.28	1.24	0.19	
		Glyceraldehyde-3-phosphate					33	36.0	8.3									101.8	126.1			
W5PDG3	GAPDH	dehydrogenase	38	12	41	12	4	0	5	139.60	118.60	96.30	52.80	90.40	101.30	81.50	231.20	3	0	1.24	0.57	
							52	58.5	7.1												111.7	
W5PYK8	VNN2	CN hydrolase domain-containing protein	10	4	11	4	1	0	4	114.10	89.60	57.90	99.80	116.60	88.30	95.40	146.80	90.35	8	1.24	0.27	
							20	22.0	4.6												111.3	
W5P587	SDC4	Syndecan	17	3	33	3	2	0	0	109.00	87.60	91.00	72.70	76.00	123.20	105.70	140.60	90.08	8	1.24	0.22	
							34	38.5	7.8												189.7	234.6
E7ECV8	NUDT9	ADP-ribose pyrophosphatase	3	1	4	1	9	0	1	168.50	211.00			260.40	208.80			5	0	1.24	0.31	
							47	49.9	6.8												105.2	129.9
W5P737	BPIFB3	Uncharacterized protein	2	1	18	1	6	0	0	104.90	132.00	94.50	89.60	114.90	106.60	150.20	148.00	5	3	1.23	0.14	
									5.0												104.8	129.3
M4WDN5	ThymB4X	Thymosin beta	64	4	21	4	44	5.10	6	191.50	123.40	65.50	39.10	75.20	88.90	79.30	274.10	8	8	1.23	0.69	
							74	84.3	9.6												220.9	272.3
W5PHQ0	MPO	Uncharacterized protein	12	6	10	6	5	0	9	313.20			128.60	161.00			383.70	0	5	1.23	0.76	
							71	78.2	6.6													112.9
W5PTA8	FURIN	P/Homo B domain-containing protein	10	5	12	5	2	0	2	92.40	81.10	94.20	99.30	124.60	130.70	102.70	93.80	91.75	5	1.23	0.07	
P62896	CYCS	Cytochrome c	10	1	2	1	10	11.7	9.5	245.50			138.10	189.80			282.00	191.8	235.9	1.23	0.60	

								5	0	0							0	0			
								19	20.8	5.9							199.4	244.5			
W5Q1F9	C1QTNF5	C1q and TNF related 5	8	1	2	1	6	0	1	199.90	198.90		186.20		302.90	0	5	1.23	0.52		
								14	16.0	5.2							213.0	260.0			
W5PMP1	COTL1	ADF-H domain-containing protein	44	8	15	8	2	0	2	293.20		132.90	132.40		387.70	5	5	1.22	0.79		
								20	22.8	5.2							144.5	176.2			
W5QHP6	ARHGDIB	Uncharacterized protein	63	9	32	9	0	0	0	161.70	190.80	81.10	124.80	100.60	303.40	3	7	1.22	0.68		
								471		60	69.1	6.1									
P14639	ALB	Serum albumin	76	64	5	3	7	0	5	66.90	69.70	94.80	95.70	92.60	134.70	99.90	71.40	81.78	99.65	1.22	0.29
								18	20.7	6.8										117.8	
CSIWU0	ARF1	ADP-ribosylation factor 1	44	6	41	4	1	0	0	97.90	105.60	105.50	77.80	91.00	115.50	96.60	168.10	96.70	0	1.22	0.30
								52	57.1	9.0										121.5	
W5PHA3		Tr-type G domain-containing protein	24	11	39	11	5	0	9	151.10	81.20	97.30	69.70	84.70	106.40	95.30	199.90	99.83	8	1.22	0.52
								147		70	77.2	8.0								112.6	136.9
D3G9G3	LF	Lactoferrin	66	45	2	42	8	0	2	222.30	82.90	60.60	84.80	53.70	103.10	202.30	188.70	5	5	1.22	0.65
								27	29.4	8.2										183.8	223.3
W5PNX3	IGFBPL1	Uncharacterized protein	6	1	2	1	9	0	7	165.20		202.50		323.20		123.40	5	0	1.21	0.74	
								33	38.1	4.9										130.5	157.9
W5PZM9	ANXA5	Annexin	11	2	5	2	9	0	8	153.40		146.20	91.90	139.70		116.80	217.30	0	3	1.21	0.49
								24	28.7	6.2										200.5	242.1
W5QD49	PSME1	Uncharacterized protein	23	4	12	4	9	0	9	212.00		189.00	216.90		267.30	0	0	1.21	0.27		
								22	25.6	5.0											113.2
W5PTS8	MLEC	Malectin domain-containing protein	22	4	13	4	4	0	6	75.30	113.50	78.40	108.30	129.20	113.00	126.10	84.80	93.88	8	1.21	0.22
								21	22.8	5.6										135.7	163.6
W5P5W9	TPI1	Triosephosphate isomerase	56	8	28	8	4	0	3	165.60	135.00		106.50	122.90	128.20	239.70	0	0	1.21	0.54	

								11.3	5.4								149.5	180.2					
W5NQK9	S100A8	EF-hand domain-containing protein	37	5	21	5	97	0	9	214.40	156.30		77.80	142.80	119.60		278.30	0	3	1.21	0.65		
							28	32.0	4.8								134.7	162.2					
W5P303	YWHAB	14-3-3 protein beta/alpha	40	10	32	5	2	0	4		156.90	145.80	101.60		131.70	126.10	228.80	7	0	1.20	0.50		
							43	47.7	5.2								184.0	220.4					
W5PGD0	FAT2	Uncharacterized protein	0	2	2	2	36	70	2	216.00		152.10		204.00		236.90		5	5	1.20	0.42		
							11	12.3	7.8												117.0		
Q1ZZU7	MIF	Macrophage migration inhibitory factor	8	1	9	1	5	0	1	102.30	97.90	95.20	95.60	127.60	109.70	89.10	141.70	97.75	3	1.20	0.15		
							41	47.7	8.5												116.0	138.6	
W5PPP2	TGFB2	Transforming growth factor beta	18	9	29	1	5	0	3	124.50	127.10	96.40		165.30	136.50	114.00		0	0	1.19	0.27		
	LOC10112121						14	15.9	9.7												101.7	121.3	
W5PJR5	6	Serum amyloid A protein	54	10	323	6	7	0	0	225.50	51.90	53.80	75.90	62.10	110.80	105.90	206.70	8	8	1.19	0.72		
							65	71.4	5.7													118.1	
W5NPN4	HSPA8	Uncharacterized protein	43	26	220	20	1	0	4	103.80	111.30	98.20	83.00	102.10	105.30	98.20	166.80	99.08	0	1.19	0.32		
							10	11.3	9.5													109.6	
W5PYW3	CXCL6	C-X-C motif chemokine	45	4	27	4	9	0	4	99.50	98.10	83.50	87.50	106.60	130.60	110.20	91.10	92.15	3	1.19	0.10		
							23	25.8	5.5													100.8	119.8
B2MVW1	CD81	Tetraspanin	19	3	21	3	6	0	2	136.40	93.50	112.80	60.60	109.60	131.90	93.60	144.40	3	8	1.19	0.37		
							18	21.0	7.4													110.2	
W5NYA7	PEBP1	Uncharacterized protein	56	8	36	8	7	0	9	98.90	93.00	91.10	88.00	111.30	105.00	92.20	132.50	92.75	5	1.19	0.09		
							35	37.4	8.9													206.5	244.2
W5PK95	HNRNPA2B1	Uncharacterized protein	33	11	16	10	3	0	5		246.30		166.80		162.80		325.60	5	0	1.18	0.72		
							58	65.6	5.4													107.7	
W5QH23	MASP1	Uncharacterized protein	39	19	206	19	1	0	3	73.30	85.00	115.20	91.80	140.40	126.70	97.80	66.10	91.33	5	1.18	0.41		
W5PGL3	SLC28A3	Sodium/nucleoside cotransporter	3	2	3	2	69	77.6	7.3	262.50			169.70	233.40			276.30	216.1	254.8	1.18	0.53		

							7	0	0								0	5			
		UTP--glucose-1-phosphate					50	56.9	7.8										111.4		
W5QFN9	UGP2	uridylyltransferase	31	13	37	13	8	0	8	94.00	99.10	103.70	81.80	103.00	95.60	93.20	154.00	94.65	5	1.18	0.31
		TRANSKETOLASE_1 domain-containing					62	67.8	7.4										110.7		
W5QSG8	TKT	protein	39	18	122	18	3	0	7	109.80	93.90	88.90	84.30	96.40	109.30	100.60	136.70	94.23	5	1.18	0.17
							19	21.8	6.1										110.7		
CSIJ99	RHOA	RHOA	45	6	26	6	3	0	0	107.30	90.50	80.70	98.60	91.30	116.90	107.90	126.80	94.28	3	1.17	0.13
		LOC10112061					17	20.3	8.8										147.2	172.6	
WSPJR0	3	Serum amyloid A protein	21	4	92	2	7	0	2	244.30	99.50		98.00	83.10	177.70		257.00	7	0	1.17	0.74
							26	30.5	8.0											110.6	
WSP1W2	FOLR3	Folate_rec domain-containing protein	44	9	175	8	4	0	7	109.00	81.30	99.20	88.20	100.90	100.90	120.90	119.70	94.43	0	1.17	0.10
							20	23.1	7.3												
WSP0E4	EFNA1	Ephrin RBD domain-containing protein	10	2	12	2	0	0	4	88.80	86.70	78.30	77.50	93.90	105.80	85.70	101.40	82.93	96.70	1.17	0.04
		LOC10110361					41	47.0	5.4										244.8	285.8	
WSP9E2	2	SERPIN domain-containing protein	28	10	55	2	6	0	5	350.90			138.70	140.50			431.10	0	0	1.17	0.84
							97	108.	8.2										139.8	162.0	
WSPN84	EEF2	Tr-type G domain-containing protein	19	17	28	17	4	10	7		181.20	135.20	103.20		124.40	139.70	221.90	7	0	1.16	0.59
		LOC10111712					70	77.9	6.6											109.2	
WSPFC9	9	Uncharacterized protein	64	35	482	33	5	0	1	92.30	75.10	111.10	99.20	135.20	111.30	105.70	84.80	94.43	5	1.16	0.29
							18	21.0	9.1										103.3	119.6	
W5NV75	BAC5	Uncharacterized protein	46	7	91	6	6	0	6	154.30	143.80	71.10	44.30	84.60	78.70	56.30	258.80	8	0	1.16	0.77
							88	101.	7.9										196.2	227.0	
WSPBX1	NDST1	Uncharacterized protein	1	1	3	1	3	00	7	186.40	206.10			235.90	218.10			5	0	1.16	0.15
							42	46.4	9.6										198.3	229.1	
F6N686		Vasopressin V1b receptor	2	1	2	1	2	0	0	248.50	148.10			229.30	229.00			0	5	1.16	0.60

							11	11.6	9.3									184.8	213.2		
W5Q8Q0	TMEM263	Uncharacterized protein	9	1	2	1	5	0	2	160.40	209.30			213.80	212.70			5	5	1.15	0.37
							40	42.2	7.9									131.4	151.4		
W5PW05	MDH2	Uncharacterized protein	29	9	15	9	5	0	6		144.30	138.10	111.80		137.30	143.20	173.80	0	3	1.15	0.26
							73	84.7	5.0										113.3		
A8DR93	HSPCA	Heat shock protein alpha	35	23	66	16	3	0	1	119.20	98.70	99.10	79.00	89.20	90.40	92.40	181.50	99.00	8	1.15	0.57
							19	21.4	6.1										110.6		
P02669	CSN3	Kappa-casein	32	5	423	5	2	0	6	106.80	122.40	81.80	77.20	87.50	113.10	89.90	152.10	97.05	5	1.14	0.49
							47	51.7	6.8										103.0		
W5PAJ3	BPIFB1	BPI1 domain-containing protein	42	14	137	14	3	0	0	96.00	88.50	70.60	107.70	91.90	84.00	145.70	90.60	90.70	5	1.14	0.48
							74	81.7	7.9										145.8	165.4	
W5PCT4	SLC34A2	Uncharacterized protein	6	5	14	5	9	0	4	158.20	108.70	170.50		177.10	197.40	121.90		0	7	1.13	0.54
							45	50.6	9.3										109.9		
W5NTD9	CHI3L1	Chitinase-3-like protein 1	50	19	265	19	3	0	5	160.50	70.90	68.10	88.40	65.80	108.50	104.30	161.10	96.98	3	1.13	0.67
							22	25.2	6.3										107.3	121.5	
B0LXL3		Tetraspanin	23	4	37	4	6	0	2	166.20	88.50	100.70	74.10	93.50	140.90	101.10	150.80	8	8	1.13	0.59
							54	59.7	7.9										101.5		
W5QBW5	LBP	Uncharacterized protein	14	5	27	5	0	0	9	135.60	59.70	76.20	87.50	89.00	100.60	77.50	139.20	89.75	8	1.13	0.60
							47	51.2	7.5										112.4		
W5QG16	CAP1	Adenylyl cyclase-associated protein	41	16	41	16	2	0	2	138.80	92.80	87.30	78.70	79.40	103.50	100.70	166.30	99.40	8	1.13	0.59
							90	99.7	7.9										104.1		
W5PZ94	ACO1	Uncharacterized protein	20	14	35	14	3	0	4	88.00	91.60	95.50	93.20	106.90	114.60	102.00	92.90	92.08	0	1.13	0.05
							18	20.1	7.3										134.8	152.2	
W5PK66	PARK7	DJ-1_PfpI domain-containing protein	43	7	18	7	9	0	3	172.50		120.40	111.70	129.70		140.70	186.40	7	7	1.13	0.54
W5PDM7	TPD52L1	Uncharacterized protein	10	2	5	2	23	25.8	8.3	132.30				213.50	228.50		161.70	172.9	195.1	1.13	0.71

								9	0	5								0	0		
								26	30.9	6.5										109.2	
W5PTW4	PITPNA	Uncharacterized protein	19	5	11	4	3	0	5	102.20	93.60	104.10	88.90	117.10	107.20	92.20	120.60	97.20	8	1.12	0.15
								94	107.	6.3										107.5	
W5Q8S5	ERAP1	Aminopeptidase	15	14	63	14	2	00	0	86.50	101.40	96.10	99.00	104.70	115.40	105.30	104.60	95.75	0	1.12	0.03
								68	76.5	5.2								191.8	214.4		
W5NYT2	PBXIP1	Uncharacterized protein	2	2	5	2	9	0	6			217.70	166.00			189.20	239.70	5	5	1.12	0.60
								40	46.8	5.3								126.7	141.5		
W5PMM2	ERP44	Thioredoxin domain-containing protein	10	4	7	4	6	0	1	139.20		122.50	118.40	125.20		128.00	171.40	0	3	1.12	0.41
	LOC10110993	Lipocln_cytosolic_FA-bd_dom					18	20.8	5.1											110.5	
W5P8W4	9	domain-containing protein	18	4	12	4	2	0	2	34.30	127.10	143.20	91.80	178.40	86.70	116.90	60.10	99.10	3	1.12	0.76
	LOC10110264						31	35.8	7.5									204.7	228.0		
W5Q9H4	3	Olfactory receptor	2	1	6	1	7	0	9	137.70	271.70			310.50	145.50			0	0	1.11	0.85
								25	29.5	7.6										108.3	
W5P2F1	FOLR2	Folate_rec domain-containing protein	29	7	53	6	5	0	6	96.10	80.30	96.00	116.80	119.30	109.60	100.20	104.20	97.30	3	1.11	0.25
								51	58.9	7.7								137.6	152.9		
W5P285	G6PD	Glucose-6-phosphate 1-dehydrogenase	16	7	11	2	5	0	1	155.90		144.80	112.30	125.30		123.80	209.80	7	7	1.11	0.65
								14	16.0	7.0								127.2	141.2		
Q1KYZ7	HBBA	Beta-A globin chain	59	8	39	2	5	0	2	167.70		86.80		160.80		121.60		5	0	1.11	0.79
								24	26.3	5.1								137.1	152.0		
W5PK33	EFHD2	Uncharacterized protein	28	6	16	6	0	0	1	150.30	147.20		113.80	114.50	135.00		206.50	0	0	1.11	0.65
								41	44.5	8.2								136.3	151.0		
B7TJ13	PGK1	Phosphoglycerate kinase	49	16	40	16	7	0	7	166.20		139.30	103.50	105.80		88.50	258.90	3	7	1.11	0.81
								34	39.7	6.5										107.3	
O46544	C3	Complement component C3 (Fragment)	54	16	517	1	9	0	5	70.40	112.90	90.60	114.50	111.40	100.00	129.40	88.70	97.10	8	1.11	0.48

								55	65.2	6.6								188.4	207.9			
W5P2V0	EZR	FERM domain-containing protein	40	23	97	1	1	0	5	159.80			217.00	216.60				199.20	0	0	1.10	0.58
								25	27.0	4.7								170.3	187.8			
W5P0H1	CD320	Uncharacterized protein	5	1	2	1	5	0	7			166.40	174.20			214.30	161.30	0	0	1.10	0.58	
								10	10.9	8.9								102.1	112.5			
J9UXY3	HSP10	HSP10	40	4	10	4	2	0	2	167.30	106.60	83.20	51.60	62.40	101.70	101.30	184.80	8	5	1.10	0.78	
								58	68.5	6.4								138.2	152.0			
W5PUW0	RDX	FERM domain-containing protein	13	9	48	1	2	0	8	141.10		128.50	145.10	168.60		159.20	128.40	3	7	1.10	0.35	
								71	78.5	6.5									106.6			
W5P229	MASP2	Uncharacterized protein	10	6	13	6	0	0	7	112.90	77.20	105.00	92.90	88.00	148.10	85.20	105.20	97.00	3	1.10	0.58	
								25	29.8	7.4									104.0			
W5P256	FOLR1	Folate_rec domain-containing protein	30	7	28	7	7	0	9	88.90	99.10	101.80	89.00	118.70	94.50	106.60	96.30	94.70	3	1.10	0.20	
								10	11.8	5.0								106.9	117.4			
P50413	TXN	Thioredoxin	38	4	22	4	5	0	3	150.90	108.50	104.00	64.50	89.60	85.80	93.80	200.70	8	8	1.10	0.76	
								14	15.8	5.8									100.4			
P12303	TTR	Transthyretin	31	6	84	6	7	0	6	83.80	86.00	101.20	95.60	101.00	115.40	101.10	84.40	91.65	8	1.10	0.29	
								66	77.5	7.7								106.1	116.3			
W5P4R1	MSN	FERM domain-containing protein	44	30	104	23	5	0	7	143.80	111.40	90.40	79.00	95.90	87.50	87.30	194.70	5	5	1.10	0.74	
								50	57.0	6.6									107.1			
C6JUQ0	PDIA3	Protein disulfide-isomerase	44	21	89	21	5	0	5	121.80	101.90	90.80	76.70	88.60	104.90	95.00	140.20	97.80	8	1.10	0.55	
		LOC10112367						15	169.	8.2									101.2			
W5NUX8	2	NTR domain-containing protein	27	34	181	5	44	30	9	100.00	80.00	92.10	97.60	108.50	108.20	106.60	81.50	92.43	0	1.10	0.31	
								13	14.5	7.2								168.6	184.1			
W5PYQ7	RPS12	40S ribosomal protein S12	17	1	2	1	2	0	1			187.10	150.20			147.90	220.40	5	5	1.10	0.74	
W5P2K9	LMAN2	L-type lectin-like domain-containing	14	4	12	4	36	40.5	7.1	84.10	101.50	98.90	101.80	108.90	111.20	112.10	89.60	96.58	105.4	1.10	0.24	

		protein					1	0	8											5	
							41	44.7	7.0											127.5	139.1
W5P3L7	HPN	Peptidase S1 domain-containing protein	2	1	4	1	8	0	9	131.60	123.00	128.10		119.70	142.20	155.50	7	3	1.10	0.34	
							41	48.0	4.4											107.4	
W5PJG7	CALR	Calreticulin	41	16	76	16	7	0	5	103.50	103.00	104.60	83.30	103.50	94.90	95.60	135.80	98.60	5	1.09	0.45
							76	86.7	6.7											108.1	
W5PG41	H6PD	Uncharacterized protein	12	9	26	9	7	0	4	136.40	87.60	77.10	96.90	77.60	134.40	104.40	116.00	99.50	0	1.09	0.64
							50	55.9	5.4												
W5PYG2	VNN1	CN hydrolase domain-containing protein	16	5	24	5	1	0	0	72.90	81.40	81.80	94.00	79.90	110.60	80.70	87.20	82.53	89.60	1.09	0.43
		6-phosphogluconate dehydrogenase,					54	58.7	8.2											102.8	111.3
W5P5M3	PGD	decarboxylating	30	13	47	13	2	0	5	100.30	92.60	117.40	101.20	106.50	114.50	93.20	131.30	8	8	1.08	0.41
							17	19.6	4.9											205.2	222.1
K4P438	TCTP	Tumor protein translationally-controlled 1	13	2	5	2	2	0	3	233.70			176.70	195.70			248.50	0	0	1.08	0.71
							15	16.7	9.4											105.1	
W5PZN2		C-X-C motif chemokine	30	3	29	2	4	0	5	89.00	97.60	92.70	109.30	112.70	119.30	97.10	91.40	97.15	3	1.08	0.35
							15	18.1	6.9												
W5PPQ8	JCHAIN	Uncharacterized protein	52	8	230	8	9	0	3	73.50	102.00	65.70	117.10	89.30	75.10	115.10	107.80	89.58	96.83	1.08	0.65
							38	42.6	7.4												
W5QH54	FETUB	Uncharacterized protein	36	13	60	13	7	0	4	82.00	82.10	97.80	99.70	105.30	87.60	108.10	89.40	90.40	97.60	1.08	0.35
								10.8	5.4											108.4	116.8
W5NQJ0	S100A12	Protein S100	61	7	52	7	92	0	7	159.10	144.40	66.10	64.00	106.90	79.80	83.20	197.30	0	0	1.08	0.83
							21	23.9	6.2											201.2	216.4
W5P645	RAB14	Uncharacterized protein	17	4	14	3	5	0	1			208.30	194.10			189.10	243.70	0	0	1.08	0.64
							26	30.2	9.0												107.2
W5NYH2	NME1-NME2	Nucleoside diphosphate kinase	51	10	44	10	8	0	4	105.90	105.40	100.30	87.60	87.40	100.70	87.70	153.30	99.80	8	1.07	0.66

		G_PROTEIN_RECEP_F3_4						39	43.9	7.6							133.9	143.9			
W5PS44	GPRC5B	domain-containing protein	3	1	3	1	6	0	1	166.30		129.00	106.50	128.00		133.20	170.50	3	0	1.07	0.67
		G_PROTEIN_RECEP_F1_2						29	33.2	8.0							186.5	200.3			
W5NYU4		domain-containing protein	8	1	16	1	4	0	9	133.00	240.00			214.00	186.60		0	0	1.07	0.83	
								20	22.6	9.3							119.1	127.8			
W5PLB7	PGLYRP1	Peptidoglycan-recognition protein	27	4	26	4	5	0	2	183.80	114.10	76.30	102.50	70.90	88.20	194.40	157.80	8	3	1.07	0.82
								73	80.6	8.3							132.9	142.2			
W5NYA1	C2	Uncharacterized protein	19	14	68	3	1	0	4	106.10	133.70	159.00		142.70	138.60	145.40		3	3	1.07	0.58
		LOC10112061						13	14.5	8.6							106.8	114.1			
W5PJG0	3	Serum amyloid A protein	36	6	143	3	0	0	8	230.50	71.50	54.00	71.20	51.70	102.00	95.70	207.10	0	3	1.07	0.89
								46	50.4	6.6							106.1	113.3			
W5PH95		Uncharacterized protein	26	10	606	7	4	0	1	93.30	98.90	120.30	111.90	130.80	124.60	101.10	96.70	0	0	1.07	0.52
								65	72.5	5.2											105.0
W5PTR5	HSPA5	Uncharacterized protein	52	29	192	26	6	0	0	95.00	106.30	100.10	92.40	107.20	99.50	105.40	107.90	98.45	0	1.07	0.12
								99	112.	5.8								197.7	210.3		
W5PRL0	EPHA7	Uncharacterized protein	8	6	10	6	8	00	3	170.90	224.60			206.10	214.50			5	0	1.06	0.69
								51	57.1	4.9											103.9
W5Q9H2	P4HB	Protein disulfide-isomerase	50	23	136	23	1	0	4	95.40	108.80	98.00	89.80	105.60	99.20	97.60	113.30	98.00	3	1.06	0.31
								11	12.7	6.5											100.8
P42819	SAA1	Serum amyloid A protein	79	10	283	7	2	0	7	175.30	58.30	60.00	86.70	58.60	119.10	82.80	142.70	95.08	0	1.06	0.87
								85	97.4	6.7								240.3	254.7		
Q5MIB5	PYGL	Glycogen phosphorylase, liver form	33	28	55	28	1	0	9	324.80				155.80	166.20		343.30	0	5	1.06	0.92
								52	59.2	5.2								103.6	109.4		
W5NPT7	BTN1A1	Uncharacterized protein	45	21	438	18	6	0	1	94.20	103.30	119.80	97.40	118.70	119.20	93.50	106.30	8	3	1.06	0.52
W5PJB6	PGM1	Uncharacterized protein	13	8	15	8	59	65.2	7.9	111.00	104.50	107.30	91.00	100.90	93.90	101.30	140.20	103.4	109.0	1.05	0.64

							5	0	7								5	8				
							40	45.2	6.2								111.7	117.7				
D4N532	PAI-1	Plasminogen activator inhibitor type 1	2	1	3	1	2	0	5	100.90	121.00		113.30	94.80	138.10		120.30	3	3	1.05	0.69	
							11	127.	5.6													
W5PJP4	LIFR	Uncharacterized protein	4	4	8	4	35	60	9	75.60	69.00	112.00	103.60	100.50	94.90	98.40	85.40	90.05	94.80	1.05	0.68	
							35	37.7	5.2													
W5PGE9		Uncharacterized protein	66	12	388	12	2	0	1	70.80	106.70	63.90	122.60	90.00	70.50	108.60	113.90	91.00	95.75	1.05	0.79	
							21	23.5	8.4												101.0	
W5QBQ8	RAB5C	Uncharacterized protein	42	6	25	4	6	0	1	93.70	96.10	85.70	109.00	110.30	98.20	113.90	81.80	96.13	5	1.05	0.59	
							30	34.1	7.3												183.2	192.5
W5QCI3	CYB5R3	NADH-cytochrome b5 reductase	8	2	2	2	1	0	1	178.00			188.50	189.90			195.10	5	0	1.05	0.26	
							16	18.5	8.0												114.2	119.6
Q6B7M7	CFL1	Cofilin-1	64	9	52	9	6	0	0	147.70	119.30	106.80	83.00	84.10	109.50	106.80	178.10	0	3	1.05	0.83	
							97	106.	7.5												192.3	201.4
W5P369	AP2A2	AP-2 complex subunit alpha	1	1	3	1	1	40	6	142.80	241.80			214.90	187.90			0	0	1.05	0.88	
							22	26.1	8.4													102.6
W5PVH8	ATP6V1E1	Uncharacterized protein	3	1	5	1	6	0	4	74.20	97.60	115.40	105.50	113.30	106.00	111.00	80.30	98.18	5	1.05	0.71	
		Fibronectin type-II domain-containing					24	271.	5.8												137.8	143.8
W5P3H8	IGF2R	protein	1	3	6	3	63	50	0		144.60	132.80	136.00		158.20	145.50	127.90	0	7	1.04	0.56	
							14	16.8	4.2												107.7	112.4
Q6YNX6	CALM2	Calmodulin	50	7	31	7	9	0	2	125.10	135.40	91.10	79.50	80.90	89.90	96.40	182.50	8	3	1.04	0.87	
		Diazepam binding inhibitor, acyl-CoA					10	11.6	5.3												101.4	105.7
W5PSF3	DBI	binding protein	51	4	35	4	1	0	5	96.60	94.30	120.10	94.60	108.60	103.50	105.30	105.40	0	0	1.04	0.52	
							47	52.5	6.7													
W5QIK8	SELENBP1	Uncharacterized protein	23	10	29	10	2	0	9	67.30	92.90	81.40	95.40	65.50	116.70	84.00	84.90	84.25	87.78	1.04	0.79	

							21	22.8	5.8								205.9	214.1				
W5NY22	PCMT1	Protein-L-isoaspartate O-methyltransferase	16	3	6	3	2	0	0	235.90		176.00	201.10			227.10	5	0	1.04	0.83		
							35	39.9	5.3								226.9	235.8				
W5NY46	PON1	Uncharacterized protein	14	4	6	4	5	0	5	238.70		215.20		203.70		267.90	5	0	1.04	0.82		
							24	27.1	8.9								104.6	108.6				
W5NUE3	PRDX1	Thioredoxin domain-containing protein	19	5	20	5	2	0	1	132.70	99.10	98.40	88.20	92.80	95.40	102.40	143.90	0	3	1.04	0.80	
							44	50.7	5.8											102.4		
W5PE31	FUT11	Alpha-(1,3)-fucosyltransferase	10	3	11	3	1	0	2	86.90	97.10	105.00	106.50	112.60	107.00	106.80	83.50	98.88	8	1.04	0.66	
							23	25.7	8.0											157.2	162.6	
W5PNU8	CD63	Tetraspanin	4	1	3	1	7	0	9	247.50	126.30		97.80	137.50	140.00		210.30	0	0	1.03	0.92	
							61	68.9	7.9												102.6	
W5PE53	C8B	MACPF domain-containing protein	22	10	23	10	0	0	1	91.70	96.50	99.30	110.10	107.90	107.80	105.20	89.80	99.40	8	1.03	0.60	
							37	42.1	5.9												106.0	109.4
W5QFHI	ACTC1	Uncharacterized protein	27	9	176	1	8	0	6	127.20	132.50	89.80	74.60	80.70	89.80	80.20	187.20	3	8	1.03	0.91	
							27	30.9	7.0												112.4	115.9
W5P601	STOM	PHB domain-containing protein	26	7	21	7	9	0	5	114.40	132.30	111.40	91.60	105.70	106.30	116.40	135.40	3	5	1.03	0.76	
							45	519.	6.4												189.0	194.7
W5Q5L3	DNAH14	Uncharacterized protein	0	1	7	1	13	90	7	139.50	238.50			208.80	180.60			0	0	1.03	0.92	
		LOC10110965					21	24.5	6.8												205.4	211.5
W5PJ63	7	Hypoxanthine phosphoribosyltransferase	22	4	7	4	8	0	7	221.80			189.00		189.70		233.40	0	5	1.03	0.84	
							23	26.3	8.8												159.3	163.7
W5PE01	TAGLN2	Transgelin	51	10	32	10	7	0	1	248.70		141.00	88.30	89.30		110.80	291.10	3	3	1.03	0.96	
							13	14.2	9.7													
W5PHQ5		Sep15_SelM domain-containing protein	29	3	34	3	1	0	2	65.30	102.80	107.40	98.00	112.70	102.20	96.80	72.10	93.38	95.95	1.03	0.85	
W5P6D3	SEMA4A	Sema domain-containing protein	4	3	6	3	76	83.5	6.4	164.60	129.20	133.80		131.60	134.70	172.70		142.5	146.3	1.03	0.84	

							2	0	6									3	3		
							50	58.2	5.9									101.5	104.0		
W5NVV6	DNAJC3	Uncharacterized protein	43	20	107	20	5	0	1	121.30	87.30	96.30	101.10	88.80	112.60	91.50	123.40	0	8	1.03	0.82
							34	37.6	5.0												
W5PAL4		Uncharacterized protein	29	3	29	3	0	0	6	87.10	58.70	165.40	72.50	148.50	92.80	60.10	92.00	95.93	98.35	1.03	0.94
							13	15.6	6.3									174.4	178.5		
W5Q008		Uncharacterized protein	10	1	3	1	6	0	8	181.20		167.60			255.50		101.50	0	0	1.02	0.96
							46	52.3	9.3												
W5Q0L2	SERPINA5	SERPIN domain-containing protein	32	12	69	12	8	0	1	80.00	95.30	100.40	95.90	95.00	110.50	94.40	78.20	92.90	94.53	1.02	0.85
	LOC11410938						17	20.0	9.7									108.6	110.4		
W5NT47	0	CAP18_C domain-containing protein	39	7	34	6	5	0	2	191.90	108.20	68.70	65.60	71.70	98.10	64.20	207.90	0	8	1.02	0.97
							40	44.8	8.8									101.6	103.4		
F5CC79	B4GALT1	Beta-1,4-galactosyltransferase I	32	10	127	10	2	0	5	92.00	109.80	102.60	102.20	114.40	107.40	111.90	79.90	5	0	1.02	0.85
																		197.8	201.1		
W5PIF5		Uncharacterized protein	25	1	6	1	77	7.40	3	182.80	212.90			200.20	202.10			5	5	1.02	0.85
		Collagen IV NC1 domain-containing protein					16	160.	8.7									184.5	187.5		
W5QH57	COL4A3	protein	1	1	5	1	70	80	9	164.20			204.80	207.10			168.00	0	5	1.02	0.92
							11	13.2	8.2									108.0	109.6		
B5B304	CFH	Complement factor H (Fragment)	36	4	18	4	3	0	5	109.70	98.40	125.90	98.10	102.50	131.20	90.70	114.20	3	5	1.02	0.89
							61	67.8	7.5									104.7	106.0		
W5PPU6	TNFRSF21	Uncharacterized protein	4	2	7	2	8	0	6	85.30	91.40	144.50	97.70	133.20	113.70	92.90	84.30	3	3	1.01	0.94
							53	59.9	7.1									101.6	102.7		
W5PIA5	GBA	Glucosylceramidase	16	6	11	6	6	0	8	85.60	80.60	143.90	96.60	97.30	106.60	96.90	110.00	8	0	1.01	0.95
							22	26.3	7.8									152.4	153.6		
P04654	CSN1S2	Alpha-S2-casein	71	20	499	2	3	0	5	121.30		161.20	174.70	140.80		154.50	165.60	0	3	1.01	0.95

							31	37.1	4.5									105.6	106.0		
W5NYK9	CALU	Uncharacterized protein	17	4	12	4	5	0	9	100.30	147.20	91.30	83.90	120.90	96.10	95.00	112.00	8	0	1.00	0.98
							24	27.7	5.0									193.8	194.2		
W5QG77	CD58	Uncharacterized protein	9	2	4	2	8	0	0	195.30	192.30				206.50	182.00		0	5	1.00	0.97
	TMEM189-U						36	42.1	8.4									192.2	192.5		
W5PUR8	BE2V1	TMEM189-UBE2V1 readthrough	3	1	3	1	8	0	6		204.30	180.10				172.60	212.50	0	5	1.00	0.99
							35	39.2	8.5												
W5PHP8	LRG1	LRRCT domain-containing protein	27	9	28	9	3	0	6	75.60	84.30	84.90	78.40	97.30	87.00	75.80	63.30	80.80	80.85	1.00	1.00
							90	97.9	8.7												
W5PVZ9	DAG1	Peptidase S72 domain-containing protein	18	12	63	12	0	0	8	92.30	100.30	90.60	108.70	101.60	105.80	102.00	82.60	97.98	98.00	1.00	1.00
							11	130.	7.5									106.1	106.1		
W5QC34	MAN2A1	Alpha-mannosidase	17	16	50	16	44	40	9	112.10	97.80	107.80	106.90	101.90	109.80	127.20	85.80	5	8	1.00	1.00
							54	61.9	6.0												
W5PID9	C9	MACPF domain-containing protein	48	21	217	21	8	0	0	72.70	95.40	104.90	86.90	98.50	105.50	84.10	71.80	89.98	89.98	1.00	1.00
							10.7	9.2										113.7	113.6		
W5P6Q5	PFN1	Profilin	65	5	39	5	98	0	5	125.50	131.40	125.70	72.40	93.90	85.80	84.60	190.20	5	3	1.00	1.00
							17	189.	7.0									209.2	209.0		
W5QEX4	PLXNB2	Sema domain-containing protein	1	1	2	1	27	90	6		189.40	229.10				238.10	179.90	5	0	1.00	1.00
							12	14.4	6.9									100.4	100.2		
W5PH79	MYDGF	Uncharacterized protein	19	2	8	2	9	0	2	123.90	101.10	88.20	88.50	86.40	105.50	110.00	99.00	3	3	1.00	0.98
							50	53.7	7.5									107.5	107.2		
W5PWM0		Uncharacterized protein	13	8	40	8	3	0	0	118.30	99.80	109.60	102.50	115.80	117.20	96.20	99.70	5	3	1.00	0.96
							12	138.	7.9									106.2	105.5		
W5NY95	C2	Uncharacterized protein	32	34	283	26	44	30	3	104.20	105.50	110.40	104.70	104.30	100.40	114.30	103.10	0	3	1.00	0.85
W5QH35	CAPG	Uncharacterized protein	18	6	8	6	39	43.6	7.4	231.10		208.40	170.70			265.50	219.7	218.1	1.00	0.98	

							6	0	9									5	0		
							95	110.	6.8												
W5P6V4	GLG1	Uncharacterized protein	36	30	113	30	7	10	9	79.70	97.60	107.70	107.20	117.00	104.10	95.50	72.30	98.05	97.23	1.00	0.95
							34	37.2	5.4									101.8	100.9		
W5QGZ7		Uncharacterized protein	13	4	29	4	1	0	1	104.00	98.60	100.20	104.50	113.20	108.90	107.50	74.10	3	3	1.00	0.93
							27	31.6	7.1									200.6	198.7		
W5NV10	PITPNB	Uncharacterized protein	11	3	7	2	2	0	4	170.60			230.70	195.10			202.30	5	0	0.99	0.95
							80	92.6	4.8									102.4	101.2		
W5Q4E1	HSP90B1	HATPase_c domain-containing protein	22	16	61	15	6	0	6	101.80	112.20	101.80	93.80	102.70	96.40	91.30	114.70	0	8	0.99	0.86
		BPTI/Kunitz inhibitor domain-containing					72	83.1	4.7									103.9	102.8		
W5PZA9	APLP2	protein	12	8	23	7	8	0	8	101.20	99.60	100.30	114.80	113.90	96.20	120.50	80.60	8	0	0.99	0.91
							23	24.6	6.7									185.0	182.9		
W8R447	LYPLA1	Lysophospholipase I	8	2	2	2	0	0	7			183.60	186.40			131.20	234.60	0	0	0.99	0.97
							50	53.7	5.4									195.8	193.4		
W5QFH0	ARSA	Sulfatase domain-containing protein	11	4	10	3	7	0	0	179.00		212.60		199.10			187.80	0	5	0.99	0.91
							60	70.2	5.5												
W5PXI6	AFM	Uncharacterized protein	32	17	53	17	8	0	7	90.30	92.90	108.60	99.20	106.50	97.40	99.00	83.00	97.75	96.48	0.99	0.85
							969	18	19.9	5.6											
P67976		Beta-lactoglobulin-1/B	82	22	2	22	0	0	0	69.50	115.10	91.70	115.40	121.80	92.90	117.00	54.60	97.93	96.58	0.99	0.95
	LOC10110386						39	44.4	6.2									116.8	115.1		
W5P9M9	2	SERPIN domain-containing protein	48	17	83	9	1	0	1	181.30	143.60	85.20	57.30	77.10	86.50	77.20	219.90	5	8	0.99	0.97
							20	23.5	6.7									101.5			
B2LYK6	RAB7A	RAS oncogene family-like 7A	53	10	30	10	7	0	0	90.50	97.30	114.50	103.80	96.40	103.90	86.40	113.10	3	99.95	0.98	0.84
																		192.7	189.7		
Q9XSC0	LGB	Beta-lactoglobulin C (Fragment)	78	1	2	1	27	3.00	4	155.20	230.20			186.00	193.40			0	0	0.98	0.94

							13	14.3	8.1									109.8	108.0		
W5P8I3	RIDA	Uncharacterized protein	69	8	50	8	7	0	2	145.00	121.50	100.60	72.40	82.60	86.40	87.90	175.40	8	8	0.98	0.95
							18	205.	6.5									200.0	196.7		
W5NQN3	PTPRF	Protein-tyrosine-phosphatase	1	1	2	1	53	50	2	200.10	200.00				188.90	204.50		5	0	0.98	0.71
							39	44.1	8.8									183.8	180.4		
W5QE15	CHI3L2	Glyco_18 domain-containing protein	10	3	9	3	5	0	8	171.50			196.10	137.10			223.70	0	0	0.98	0.95
							15	17.6	7.5									121.0	118.7		
P54230	CATHL1A	Cathelicidin-1	63	10	65	9	5	0	9	191.60	128.10	99.00	65.40	71.50	90.70	100.20	212.60	3	5	0.98	0.96
							91	101.	7.2												
W5NTW3	ITIH1	Uncharacterized protein	17	10	35	10	2	60	7	89.90	88.10	121.70	98.00	104.20	98.50	114.80	71.80	99.43	97.33	0.98	0.87
							19	212.	4.9												
W5PVV7	MIA3	SH3 domain-containing protein	2	3	9	3	17	10	3	62.70	118.90	96.20	106.80	115.60	95.60	86.50	78.50	96.15	94.05	0.98	0.89
							45	50.6	7.3												
W5NYE6		Uncharacterized protein	5	2	9	2	3	0	3	146.30	84.70	79.70	87.80	71.20	105.20	93.90	119.00	99.63	97.33	0.98	0.91
							25	29.6	8.0												
W5P2L1	SKA1	Uncharacterized protein	3	1	33	1	5	0	6	68.50	91.60	108.00	101.00	103.40	104.00	76.80	76.20	92.28	90.10	0.98	0.86
		U6 snRNA-associated Sm-like protein					14	15.6	9.9												
W5PSM5	LSM4	LSm4	5	1	170	1	5	0	5	75.40	115.50	93.50	96.20	101.60	112.90	110.10	46.90	95.15	92.88	0.98	0.90
							21	23.8	6.7									133.4	130.1		
W5Q3E6	RAB2A	Uncharacterized protein	27	5	17	2	5	0	9	119.10	134.30		146.90	134.30	136.50		119.60	3	3	0.98	0.75
	LOC10111495						14	17.0	9.3									102.4			
W5PTZ8	9	RNase_Pc domain-containing protein	50	7	70	7	7	0	8	102.40	82.70	106.60	118.10	95.90	125.10	76.20	102.10	5	99.83	0.97	0.84
							21	23.2	4.9									154.6	150.4		
W5QH64	SNAP23	Synaptosomal-associated protein	32	4	8	4	1	0	4	203.30		134.70	125.90	132.50		158.70	160.20	3	7	0.97	0.88
W5NVZ5	DNAH10	Uncharacterized protein	1	1	24	1	44	514.	5.7	65.60	124.20	92.00	110.50	118.00	88.10	110.60	65.00	98.08	95.43	0.97	0.88

							72	40	3												
							47	54.2	7.4												
W5PAQ4	FUCA1	Alpha-L-fucosidase	15	6	23	6	3	0	0	98.20	95.10	95.50	96.40	89.30	96.10	106.00	82.90	96.30	93.58	0.97	0.61
		Serpin peptidase inhibitor clade B					37	42.2	6.5									116.3	113.0		
D8X187	SERPINB1	ovalbumin member 1	46	17	177	17	7	0	7	188.60	130.00	75.40	71.50	74.50	98.70	82.50	196.50	8	5	0.97	0.94
							11	13.6	6.9									109.3	106.2		
A4ZVY8		Beta-2-microglobulin	65	6	143	6	8	0	2	107.40	119.00	99.80	111.10	112.30	100.20	133.40	78.90	3	0	0.97	0.80
A0A3R5S							37	41.8	5.4									143.0	138.9		
S76		Actg1	54	16	315	1	5	0	8	259.60		99.20	70.40	76.30		88.70	251.80	7	3	0.97	0.96
							13	15.1	7.6									124.3	120.7		
B9VH00	FABP5	Fatty acid binding protein 5	53	6	15	6	5	0	9	240.00	100.80	92.80	63.70	63.80	91.60	112.60	214.90	3	3	0.97	0.95
							62	70.4	5.5									111.0	107.7		
W5PDD0	LCP1	Uncharacterized protein	54	28	139	28	8	0	0	137.40	137.80	97.50	71.50	82.90	76.50	78.10	193.50	5	5	0.97	0.92
							47	53.6	8.6									107.2	104.0		
Q29524	LPL	Lipoprotein lipase	20	9	53	9	8	0	6	120.30	82.40	118.20	108.00	94.10	115.60	90.90	115.50	3	3	0.97	0.78
		FAM20C golgi associated secretory					46	53.3	8.7									104.7	101.5		
W5P862	FAM20C	pathway kinase	16	8	15	7	6	0	2	91.30	99.30	110.90	117.40	99.10	100.10	107.80	99.20	3	5	0.97	0.63
							12	144.	6.9												
W5NX96	ATRN	Uncharacterized protein	2	3	8	3	93	20	6	92.60	97.10	99.30	103.50	109.90	100.70	96.40	73.60	98.13	95.15	0.97	0.72
							34	38.1	7.4									209.2	202.7		
W5PFV1	CTSL	Cathepsin L1	7	2	3	2	1	0	3	201.30			217.20	213.10			192.30	5	0	0.97	0.67
							25	28.2	6.1									108.2	104.8		
W5PUW4	IFI30	Uncharacterized protein	20	4	31	4	2	0	5	150.50	92.60	89.30	100.50	100.40	97.30	104.20	117.30	3	0	0.97	0.83
		LOC10110912					11	12.4	11.									154.2	149.2		
W5QFN8	9	Histone H4	39	5	18	5	1	0	21	219.20		137.50	106.10	93.20		133.10	221.50	7	7	0.97	0.93

							32	36.6	7.2									108.4	104.6		
W5NUN8	AKR1A1	Aldo_ket_red domain-containing protein	10	2	6	2	5	0	7	94.50	105.40	127.20	106.60	102.90	99.20	91.10	125.30	3	3	0.96	0.72
							43	48.0	8.2									101.6			
W5PEY4	TCN2	Uncharacterized protein	32	10	32	10	7	0	2	100.90	101.40	107.40	96.80	89.30	100.90	100.50	101.30	3	98.00	0.96	0.36
							87	101.	5.6									107.2	103.3		
W5P707	ACTN4	Uncharacterized protein	45	33	70	26	7	30	9	123.60	122.40	92.90	90.10	88.60	94.20	88.80	141.70	5	3	0.96	0.81
							34	38.8	6.5									160.3	154.3		
W5PSZ5	ANXA1	Annexin	51	15	43	15	6	0	8	285.90		104.30	90.80	92.30		109.70	261.10	3	7	0.96	0.95
							33	366.	7.0									114.4	110.1		
W5PCV9	LAMA3	Uncharacterized protein	5	15	62	15	34	90	9	170.40	94.50	98.50	94.30	84.20	90.50	126.00	139.90	3	5	0.96	0.86
							93	104.	6.9									103.7			
W5PGT6	C6	Uncharacterized protein	23	17	49	17	4	80	9	88.30	102.20	118.40	106.10	110.00	95.60	96.80	96.90	5	99.83	0.96	0.60
							62	69.0	7.8									104.4	100.1		
W5NUI6	SGSH	Uncharacterized protein	8	4	14	4	2	0	5	99.20	102.00	116.10	100.60	96.90	98.10	90.70	115.00	7	8	0.96	0.53
							84	89.9	5.4												
W5QBJ2	SLC38A10	Aa_trans domain-containing protein	25	14	54	14	0	0	7	71.30	104.30	110.30	104.50	111.40	101.10	96.00	65.80	97.60	93.58	0.96	0.77
							41	46.0	6.2												
HWXR3	SERPINA1	Alpha-1-antitrypsin transcript variant 1	38	18	298	18	6	0	0	86.90	91.50	108.60	104.70	109.90	105.30	77.60	82.50	97.93	93.83	0.96	0.68
							28	29.0	7.9									123.5	117.8		
B9VQ09	IGFBP-7	Insulin-like growth factor-binding protein-7	13	3	13	1	2	0	0	121.80	108.40	140.30		116.10	121.00	116.30		0	0	0.95	0.58
							64	70.4	5.9									100.8			
W5PG95	HSPA1A	Uncharacterized protein	31	15	82	10	3	0	2	109.70	108.70	96.40	88.40	98.10	95.80	74.10	116.30	0	96.08	0.95	0.66
							73	80.7	5.8									101.6			
F2YQ13	GSN	Gelsolin isoform b	39	26	269	26	1	0	5	100.10	91.20	99.70	115.70	94.00	99.80	103.90	89.60	8	96.83	0.95	0.45
W5Q9A2	AZGP1	Alpha-2-glycoprotein 1, zinc-binding	41	11	109	11	31	35.4	6.0	86.20	99.20	95.80	99.00	89.40	98.90	94.10	79.50	95.05	90.48	0.95	0.41

							3	0	2												
							16	188.	6.6									102.9			
W5P6F4	C5	Uncharacterized protein	20	29	126	29	80	80	5	105.40	88.60	104.40	113.30	105.10	96.60	111.00	78.60	3	97.83	0.95	0.58
		IGFBP N-terminal domain-containing					18	19.8	6.3									163.8	155.6		
W5PDW1	ESM1	protein	27	4	10	4	3	0	5	170.00	151.50		170.10	149.70	151.70		165.60	7	7	0.95	0.36
							17	20.0	9.9									154.8	147.0		
W5QEHI	PTH LH	Parathyroid hormone-related protein	9	2	4	2	5	0	2	179.30	105.20	180.10		121.30	149.90	169.90		7	3	0.95	0.80
							21	23.7	9.3									109.7	103.9		
W5QHU9	PPIB	Peptidyl-prolyl cis-trans isomerase	42	10	75	10	6	0	2	108.80	114.40	114.00	101.70	98.40	94.20	118.30	104.70	3	0	0.95	0.37
							20	23.5	7.1									199.5	188.9		
W5Q8A7	RALA	Uncharacterized protein	17	3	6	2	6	0	1	193.90	205.20			214.20	163.60			5	0	0.95	0.72
							72	80.5	8.6									243.7	230.5		
W5Q981	ACSL4	AMP-binding domain-containing protein	2	1	2	1	2	0	0			243.90	243.50			228.40	232.60	0	0	0.95	0.03
							44	48.1	5.0									105.3			
W5Q282	PDIA6	Uncharacterized protein	21	7	26	7	0	0	5	117.00	113.20	96.10	95.00	94.10	93.90	93.90	116.10	3	99.50	0.94	0.49
							54	60.4	7.3									127.0	119.9		
W5QI29	ECM1	Uncharacterized protein	8	4	6	4	3	0	0	139.60	124.30	117.20		143.00	117.80	99.00		3	3	0.94	0.65
							37	39.7	5.8									102.3			
W5PJI1	IGSF5	Ig-like domain-containing protein	18	4	13	4	1	0	7	72.40	97.90	124.70	114.40	125.90	96.60	89.90	74.10	5	96.63	0.94	0.73
							33	36.8	6.2									113.0	106.7		
W5QGD1	LDHB	L-lactate dehydrogenase	35	11	73	9	7	0	4	142.30	132.60	99.80	77.50	84.60	84.90	79.40	178.00	5	3	0.94	0.83
							61	68.7	6.7									113.9	107.4		
W5PBY0	C4BPA	Uncharacterized protein	21	12	38	12	3	0	7	91.30	108.50	131.10	124.80	139.90	112.10	98.10	79.80	3	8	0.94	0.69
							34	38.3	5.4												
W5Q6N7	TXNDC5	Thioredoxin domain containing 5	26	6	14	6	4	0	8	87.00	110.60	103.10	93.00	95.10	86.90	101.90	87.00	98.43	92.73	0.94	0.41

							14	15.0	8.0								141.2	132.8			
W5P4H2	SLPI	Antileukoproteinase	13	2	6	2	0	0	7	72.60		209.80	78.80				186.90	0	5	0.94	0.93
							24	27.9	4.7								154.1	144.8			
W5QBD7	YWHAZ	14-3-3 protein zeta/delta	51	11	45	7	7	0	9	171.90	190.70	99.90	103.90	114.90			215.60	7	0	0.94	0.85
							35	38.4	6.0								103.9				
W5QFQ1	MDH1	Malate dehydrogenase	16	6	20	6	2	0	2	115.20	108.90	94.50	97.30	95.50	93.70	96.00	104.40	6	97.40	0.94	0.27
							31	33.8	8.6								101.3				
W5P363	VAT1	PKS_ER domain-containing protein	23	6	18	6	1	0	5	77.00	110.10	112.80	105.60	95.70	96.90	96.40	90.70	8	94.93	0.94	0.47
							24	26.4	6.7												
W5NQP5	SOD3	Superoxide dismutase [Cu-Zn]	31	6	91	6	4	0	9	97.20	92.90	109.20	99.00	100.10	105.70	97.60	69.50	99.58	93.23	0.94	0.50
							34	38.1	8.0												
W5Q268	APOH	Uncharacterized protein	29	9	103	9	5	0	7	86.70	96.20	105.70	109.10	100.50	103.60	96.30	71.40	99.43	92.95	0.93	0.49
							44	46.4	5.9								203.7	190.2			
W5Q8M1	PRRC1	NTPase_I-T domain-containing protein	3	1	2	1	5	0	9	174.60		232.80		202.30		178.10		0	0	0.93	0.71
							56	64.8	7.9									117.6	109.7		
W5QGY1	IL1RAP	Uncharacterized protein	6	4	11	4	3	0	0	119.30	124.20	127.60	99.60	99.50	83.70	92.80	163.10	8	8	0.93	0.69
							249											103.1			
P11839	CSN2	Beta-casein	52	10	6	7	2	0	5	77.30	133.50	90.30	111.60	112.20	75.80	103.30	93.50	8	96.20	0.93	0.65
		Isocitrate dehydrogenase [NADP]					41	46.8	6.8												
Q6XUZ5	IDH1	cytoplasmic	71	25	305	1	4	0	0	72.00	102.10	57.30	137.30	128.10	51.00	106.20	58.40	92.18	85.93	0.93	0.82
							12	137.	6.9									225.3	209.7		
W5PFF9		Uncharacterized protein	20	21	117	3	18	90	3	211.30		239.30	246.50				173.00	0	5	0.93	0.73
							22	26.3	7.8												
E7BQS5	CSN1S2	Alpha-s2-casein	77	21	518	3	3	0	7	86.20	113.60	72.60	84.10	102.10	103.10	59.40	67.10	89.13	82.93	0.93	0.68
W5QDB7	LOC10110783	Uncharacterized protein	19	4	10	1	22	26.8	8.1			193.50	250.30			229.70	182.60	221.9	206.1	0.93	0.71

								9	0	0								0	5		
								44	49.9	6.5								100.4			
C5IS96	LCAT	Lecithin-cholesterol acyltransferase	5	2	6	2	0	0	2	99.70	104.10	113.30	84.80	94.60	92.80	87.40	98.30	8	93.28	0.93	0.30
								10	11.7	7.9								119.3	110.5		
W5QIV1	S100A11	Protein S100	25	3	21	3	6	0	9	183.70	151.10	78.80	63.80	78.10	73.00	74.00	217.20	5	8	0.93	0.85
								58	66.4	6.4								104.9			
W5PDR5	C8A	MACPF domain-containing protein	14	7	24	7	7	0	0	96.00	107.00	109.10	107.60	105.60	99.20	90.70	93.30	3	97.20	0.93	0.14
								71	80.9	8.3								124.1	114.8		
W5PGP1	LPO	Uncharacterized protein	54	33	740	1	7	0	7	175.40	122.40		74.60	134.40	105.50		104.60	3	3	0.93	0.78
								10	120.	5.7								100.7			
W5P4S0	CP	Ceruloplasmin	42	31	207	31	61	60	1	101.30	85.30	103.60	112.60	101.30	95.40	100.20	74.90	0	92.95	0.92	0.39
								60	67.0	7.3								199.4	184.0		
W5P4C6	F12	Uncharacterized protein	3	2	2	2	8	0	9	186.50	212.40			188.10	180.00			5	5	0.92	0.37
								49	54.6	7.3											
W5Q4Q3	SERPIND1	Serpin family D member 1	20	8	55	8	7	0	4	86.40	94.10	102.80	104.30	88.10	107.40	85.40	76.40	96.90	89.33	0.92	0.37
								57	63.3	5.0											
W5Q8K4	SLC3A2	Aamy domain-containing protein	28	12	45	12	7	0	7	70.90	108.50	91.10	116.40	94.10	104.30	83.60	74.60	96.73	89.15	0.92	0.55
								14	15.1	10.								123.2	113.3		
W5Q6F0	H2AFX	Histone H2A	16	3	9	3	3	0	74	223.50	92.00	100.30	77.10	60.80	100.10	123.80	168.80	3	8	0.92	0.82
								64	72.5	5.0								106.7			
W5QC35	PDIA4	Protein disulfide-isomerase	15	8	19	8	7	0	2	116.30	118.70	97.00	94.80	93.40	85.60	97.60	115.40	0	98.00	0.92	0.37
								12	143.	6.1								212.0	194.7		
W5Q6Z8	STAG3	SCD domain-containing protein	1	1	2	1	75	60	3	146.80	277.30			207.30	182.20			5	5	0.92	0.82
								10	111.	5.2								106.0			
W5PSK1	HYOU1	Uncharacterized protein	29	21	92	21	02	40	6	110.10	104.90	107.70	101.30	101.90	94.90	104.10	88.50	0	97.35	0.92	0.08

								34	38.0	8.3												
A5YBU8	C2	Complement component C2 (Fragment)	21	6	32	1	2	0	1	72.90	102.70	111.40	90.30	94.90	100.60	76.10	74.80	94.33	86.60	0.92	0.49	
								22	25.8	6.6								142.9	131.1			
W5PTW6	RALB	Uncharacterized protein	14	3	6	2	8	0	1	151.80		144.30	132.70	126.50		117.00	150.00	3	7	0.92	0.36	
					137		23	25.1	6.1									107.6				
W5PSQ7		Uncharacterized protein	43	10	5	10	5	0	8	95.10	115.10	112.30	108.10	99.20	87.70	102.10	105.90	5	98.73	0.92	0.18	
							26	27.1	11.									144.4	132.3			
W5NTA0	HIST1H1C	Histone cluster 1 H1 family member c	17	4	10	3	7	0	18	172.30	124.60		136.40	119.20	139.40		138.30	3	0	0.92	0.49	
	LOC10111950						41	46.6	5.7									101.1				
W5Q124	9	SERPIN domain-containing protein	42	17	200	14	7	0	3	109.50	93.10	94.40	107.50	101.30	105.80	81.20	82.10	3	92.60	0.92	0.31	
							50	57.3	8.5									112.6	103.1			
W5Q021	FAM20A	Fam20C domain-containing protein	24	8	31	7	6	0	6	107.50	131.40	98.80	113.00	113.80	96.40	121.00	81.30	8	3	0.92	0.43	
							20	23.7	6.7									107.7				
W5PG55	SELENOP	SelP_N domain-containing protein	12	3	14	3	7	0	1	94.10	83.80	146.60	106.40	109.90	121.20	82.70	79.90	3	98.43	0.91	0.61	
							48	52.1	6.8									101.9				
W5NYJ9	AGT	Angiotensinogen	35	11	63	11	5	0	9	88.50	104.20	104.90	110.00	88.40	98.20	104.90	80.50	0	93.00	0.91	0.26	
							26	29.0	5.8									145.7	133.0			
W5PLE9	ERP29	Uncharacterized protein	12	3	8	3	0	0	2	166.70	173.20		97.40	112.00	105.50		181.60	7	3	0.91	0.73	
	LOC10110273						42	49.0	6.8													
W5PXZ3	1	Uncharacterized protein	2	1	9	1	3	0	6	73.10	95.30	102.00	106.30	76.50	110.70	78.80	77.60	94.18	85.90	0.91	0.48	
								11.1	6.7									147.8	134.8			
Q10994	CSTB	Cystatin-B	63	4	25	2	98	0	9	143.20	148.70		151.70	126.40	125.10		152.90	7	0	0.91	0.24	
								9.7										113.2	103.1			
R4R2H5		Beta-casein (Fragment)	87	4	818	1	45	5.00	0	108.30	144.00	107.70	92.90	102.50	79.00	90.40	140.70	3	5	0.91	0.58	
W5PTR2	DKKL1	Uncharacterized protein	12	3	8	3	23	26.4	7.8	109.30	97.40	122.20	142.40	127.00	93.40	137.20	71.70	117.8	107.3	0.91	0.58	

								3	0	1								3	3		
								81	91.1	7.2								101.5			
WSP3R3	PLG	Plasminogen	31	22	104	21	6	0	7	107.10	95.40	93.40	110.40	83.40	97.20	92.60	96.50	8	92.43	0.91	0.13
								32	35.7	7.8								188.7	171.4		
WSP9M2	PTGR1	PKS_ER domain-containing protein	7	1	2	1	9	0	1			169.60	207.80			143.10	199.70	0	0	0.91	0.66
								11	125.	6.7								113.9	103.3		
D6PZY4	fH	Factor H (Fragment)	28	26	194	8	11	30	1	98.50	95.20	130.20	131.70	117.50	128.70	103.20	64.10	0	8	0.91	0.56
								15	15.7	6.6								104.3			
P09670	SOD1	Superoxide dismutase [Cu-Zn]	39	6	34	6	2	0	2	114.20	111.70	85.60	105.70	103.90	91.10	87.50	94.80	0	94.33	0.90	0.23
								89	99.3	5.8								104.6			
W5NSH2	ITIH3	Uncharacterized protein	14	10	31	10	1	0	3	90.20	101.50	119.00	107.70	95.90	95.20	93.40	93.70	0	94.55	0.90	0.15
								71	81.9	5.9								111.4	100.6		
WSP338	C1R	Uncharacterized protein	11	9	11	9	9	0	6	123.30	112.10	100.30	109.90	89.30	94.20	109.10	110.10	0	8	0.90	0.18
								94	105.	7.6								106.3			
WSPW21	ITIH2	Uncharacterized protein	18	16	66	16	6	90	6	91.20	90.60	112.90	130.80	108.10	98.60	118.50	58.50	8	95.93	0.90	0.55
								46	53.5	5.2								104.8			
WSPS94	NUCB1	Uncharacterized protein	61	28	409	27	0	0	4	86.90	101.50	114.20	116.80	103.60	104.30	98.40	71.20	5	94.38	0.90	0.35
								66	74.6	7.2								129.3	116.2		
WSPXX3	F13B	Uncharacterized protein	2	1	4	1	1	0	0	105.50		132.50	150.00	109.40		131.80	107.60	3	7	0.90	0.44
								85	94.5	6.2								107.5			
W5Q3F0	TGFB3	ZP domain-containing protein	13	10	40	10	7	0	9	118.00	101.70	107.00	103.60	87.70	98.90	104.70	95.50	8	96.70	0.90	0.08
								47	53.4	5.3								101.2			
WSPTH1	GC	Uncharacterized protein	65	26	378	26	6	0	0	86.80	103.60	110.10	104.50	97.40	96.10	89.60	80.90	5	91.00	0.90	0.15
								34	38.2	7.6								124.8	112.0		
W5QI70	CTSS	Uncharacterized protein	12	4	13	4	2	0	2	168.90	134.00	112.10	84.30	66.30	90.00	98.70	193.20	3	5	0.90	0.71

							42	45.4	6.4												
W5QH56	AHSG	Alpha-2-HS-glycoprotein	39	12	282	12	3	0	7	82.10	78.40	86.70	111.20	79.10	100.70	76.20	65.70	89.60	80.43	0.90	0.41
							12	13.6	4.5									113.2	101.5		
W5PZU1	SELENOF	Selenoprotein F	33	3	38	3	4	0	0	87.60	141.10	106.60	117.60	109.20	92.80	121.30	83.00	3	8	0.90	0.44
							37	40.6	6.8									110.4			
W5PHJ0	CNTFR	Uncharacterized protein	9	2	8	2	2	0	3	100.70	96.50	140.10	104.60	102.10	121.80	80.40	92.10	8	99.10	0.90	0.43
A0A068J							10	11.5	7.9									234.1	209.8		
AR6	RETN	Resistin	41	4	10	4	9	0	3	288.70			179.50	121.90			297.70	0	0	0.90	0.84
							31	36.4	6.7									144.7	129.6		
W5PIS2	C1GALT1C1	Uncharacterized protein	9	3	5	3	8	0	1	130.20	123.20	180.90		127.60	137.60	123.60		7	0	0.90	0.46
							56	63.2	8.5									137.2	122.7		
W5QIA8	YARS	Tyrosine--tRNA ligase	4	2	5	2	5	0	4	110.40		159.80	141.60	132.50		102.90	132.80	7	3	0.89	0.45
							31	34.4	8.2									101.7			
W5NPP5	PRSS22	Peptidase S1 domain-containing protein	34	6	45	6	9	0	1	94.90	96.50	117.20	98.30	72.00	105.10	83.70	102.00	3	90.70	0.89	0.29
							16	188.	6.9									105.9			
W5PYS8		Uncharacterized protein	3	4	6	4	77	00	9	100.80	104.80	99.90	118.30	95.80	98.20	106.30	77.30	5	94.40	0.89	0.17
							46	53.7	5.1									171.8	152.9		
W5PNW7	VIM	Vimentin	33	15	44	14	7	0	6	251.70		167.20	96.60	91.30		124.90	242.70	3	7	0.89	0.78
							43	48.3	7.3									117.8	104.8		
W5PNP1	MFGE8	Uncharacterized protein	55	23	522	23	2	0	1	157.70	111.30	95.80	106.50	101.70	115.40	108.50	93.60	3	0	0.89	0.40
	LOC10110965						22	22.6	11.									118.7	105.6		
W5NS65	2	H15 domain-containing protein	12	3	21	2	1	0	24	167.90	103.20	120.70	83.20	82.80	96.70	96.10	146.80	5	0	0.89	0.59
		Olfactomedin-like domain-containing					40	45.9	6.8									287.6	255.6		
W5QFB2	OLFML3	protein	2	1	2	1	6	0	0	386.40			188.90	163.10			348.10	5	0	0.89	0.84
W5Q3T9	PDCD6IP	BR01 domain-containing protein	11	8	12	8	87	96.8	6.5	200.70		166.10	120.20	127.70		124.30	180.60	162.3	144.2	0.89	0.57

								5	0	7								3	0		
					122			78	85.4	7.7											
W5P9V5	PIGR	Uncharacterized protein	49	26	0	26	2	0	5	79.90	81.60	111.10	109.90	97.80	89.70	80.70	70.80	95.63	84.75	0.89	0.34
								22	25.1	6.3								113.5	100.3		
M4T8F1	Prdx6	Peroxiredoxin 6	38	8	19	8	4	0	8	126.50	129.40	106.30	91.90	77.80	82.50	88.10	152.90	3	3	0.88	0.53
								61	69.5	6.2								113.9	100.6		
W5PRR5	LTA4H	Leukotriene A(4) hydrolase	22	11	26	11	4	0	0	134.90	126.90	103.10	90.80	78.30	102.10	92.10	129.90	3	0	0.88	0.41
								34	37.6	6.3								104.3			
W5PGC5	GALM	Aldose 1-epimerase	23	6	27	6	2	0	3	97.40	111.40	84.10	124.60	100.80	105.90	78.10	83.20	8	92.00	0.88	0.31
								57	65.7	7.5								218.3	192.0		
W5PUF0	IL1R1	Uncharacterized protein	6	2	6	2	3	0	5	237.40		199.20		185.20		198.80		0	0	0.88	0.32
								61	67.8	5.3								105.4			
W5Q3P7	ITFG1	Uncharacterized protein	14	7	45	7	2	0	8	85.90	105.90	121.80	108.30	106.60	103.40	93.10	67.80	8	92.73	0.88	0.31
								84	93.3	7.1								111.3			
W5PH81	C7	Uncharacterized protein	37	29	220	29	4	0	1	86.00	115.10	126.20	118.10	121.40	98.00	95.10	77.00	5	97.88	0.88	0.33
								45	47.5	8.4								142.0	124.8		
W5PCR7	RELT	TNFR-Cys domain-containing protein	3	1	7	1	5	0	3	119.70	153.00	153.50		133.30	130.20	110.90		7	0	0.88	0.26
								74	82.2	6.5								221.2	194.2		
W5NVW7	NAGLU	Uncharacterized protein	2	1	2	1	1	0	4		204.20		238.20		184.80		203.60	0	0	0.88	0.30
								15	17.1	5.5											
W5Q3I2	GLYCAM1	Uncharacterized protein	52	8	690	8	4	0	7	67.70	95.40	81.90	100.80	94.50	92.70	71.40	44.80	86.45	75.85	0.88	0.47
		LOC10111557						27	31.8	5.9								150.5	131.9		
W5Q0X5	6	SERPIN domain-containing protein	41	13	183	4	9	0	5	139.50	139.70		172.30	155.50	180.80		59.60	0	7	0.88	0.66
		LOC10111108						20	22.7	4.8								107.1			
W5NXP3	3	SERPIN domain-containing protein	30	6	82	4	5	0	6	103.50	107.10	107.00	110.80	109.40	106.00	84.40	75.80	0	93.90	0.88	0.16

								61	69.6	6.8											108.9	
W5P0W4	SEMA7A	Uncharacterized protein	42	21	88	21	4	0	3	107.30	102.00	115.40	111.20	99.90	108.60	100.10	73.50	8	95.53	0.88	0.15	
								24	25.9	8.7											143.8	126.0
W5PDS4	C1QA	C1q domain-containing protein	13	2	3	2	4	0	2	136.70		137.70	157.10	137.10		144.90	96.10	3	3	0.88	0.34	
								37	41.6	6.2											210.6	184.4
W5NZ32	CANT1	Uncharacterized protein	5	1	2	1	4	0	0	149.10		272.10		201.50		167.30		0	0	0.88	0.72	
								56	61.7	7.2											129.6	113.4
W5P769	TRIM32	Uncharacterized protein	1	1	3	1	4	0	3	119.80	135.60		133.50	116.60	134.30		89.40	3	3	0.88	0.31	
								55	57.3	5.0											102.5	
W5QG8	MUC20	Uncharacterized protein	25	10	56	10	4	0	2	102.80	116.20	77.70	113.60	88.20	88.40	104.10	77.50	8	89.55	0.87	0.26	
	LOC10111962							21	22.5	5.3											129.4	112.7
W5QA54	9	C1q domain-containing protein	11	2	13	2	2	0	1	122.30	131.90		134.00	111.40	122.20		104.50	0	0	0.87	0.06	
	LOC10111689							20	22.7	5.1											103.1	
W5PHI7	2	SERPIN domain-containing protein	52	8	165	3	3	0	0	85.60	105.80	105.20	115.80	99.60	95.50	89.70	74.00	0	89.70	0.87	0.16	
								21	24.3	5.9											107.0	
W5QGJ0	CHP1	Uncharacterized protein	9	2	4	2	1	0	2	81.00	116.30	121.70	109.00	114.10	96.20	86.20	75.60	0	93.03	0.87	0.30	
								22	23.9	6.3												
W5PRQ8	HSD17B14	Uncharacterized protein	3	1	28	1	7	0	3	79.80	91.30	76.50	134.20	104.20	80.60	99.00	48.00	95.45	82.95	0.87	0.52	
	A0A0A0Y							37	42.8	7.5											255.8	221.7
Q60	GDF8	Growth differentiation factor 8	3	1	3	1	5	0	2	275.30		236.30		219.20		224.30		0	5	0.87	0.23	
								46	53.1	5.6											106.4	
W5Q5W1	SIL1	Uncharacterized protein	41	17	125	17	7	0	7	99.20	112.80	104.60	109.10	101.50	100.90	94.50	71.80	3	92.18	0.87	0.11	
								13	14.3	8.3											191.1	165.5
W5QHZ8		Ig-like domain-containing protein	6	1	4	1	0	0	1		229.20	153.10			207.20	123.80		5	0	0.87	0.69	
W5Q961	LOC10110794	Uncharacterized protein	7	2	9	2	25	28.4	5.8	96.10	96.00	94.60	129.20	88.20	121.40	80.30	69.20	103.9	89.78	0.86	0.35	

							59	65.9	8.8									222.2	190.2		
W5P1A1	GASK1A	Golgi associated kinase 1A	5	2	4	2	8	0	5	240.30	204.10			194.10	186.40			0	5	0.86	0.23
							43	48.7	6.2									104.1			
W5NRR7	SERPINA7	Thyroxine-binding globulin	18	7	20	7	5	0	5	76.70	107.30	98.40	134.10	90.50	98.10	101.70	65.80	3	89.03	0.85	0.33
							51	56.2	6.4									106.0			
W5PB46	PLTP	Uncharacterized protein	12	5	15	5	1	0	7	79.60	118.70	94.60	131.10	92.40	88.40	101.90	78.60	0	90.33	0.85	0.26
							52	57.1	5.9									106.2			
W5PJZ1	SERPING1	SERPIN domain-containing protein	24	11	131	11	1	0	2	95.90	96.10	118.10	115.00	109.20	89.40	101.60	60.80	8	90.25	0.85	0.24
							34	39.0	9.2									199.2	168.6		
W5P5R3	ST3GAL1	Uncharacterized protein	5	1	3	1	1	0	2	178.20			220.20	191.40			145.80	0	0	0.85	0.43
							12	144.	5.5									102.8			
W5PDD5	STAG1	SCD domain-containing protein	1	1	38	1	58	40	9	64.20	116.50	111.00	119.70	111.40	83.70	104.00	48.70	5	86.95	0.85	0.44
		Fibrinogen C-terminal domain-containing					31	35.7	9.2									103.6			
W5P0U9	ANGPTL4	protein	32	8	33	1	5	0	2	65.50	103.10	135.10	110.90	83.20	90.40	96.70	80.10	5	87.60	0.85	0.32
							43	48.7	6.5									120.6	101.7		
W5QH45	KNG1	Uncharacterized protein	32	13	69	1	6	0	4	124.00	113.90	135.30	109.40	77.70	107.90	120.60	100.60	5	0	0.84	0.13
							74	81.5	8.9									117.9			
W5Q9K1	QSOX1	Sulfhydryl oxidase	24	14	51	14	7	0	7	181.20	95.20	87.70	107.50	75.50	90.40	105.90	125.70	0	99.38	0.84	0.47
							19	21.2	6.5									126.3	106.4		
Q9XSM0	PTGDS	Prostaglandin-H2 D-isomerase	37	5	70	5	1	0	5	118.10	134.40	85.30	167.70	146.40	95.10	124.50	59.70	8	3	0.84	0.46
							91	101.	6.4									108.7			
W5NRG7	ITIH4	Uncharacterized protein	26	22	113	22	7	80	0	96.20	103.50	119.80	115.60	109.80	81.90	88.50	85.70	8	91.48	0.84	0.08
							22	25.3	6.7									112.5			
W5PD71	CRP	Pentaxin	33	7	48	7	4	0	7	99.70	113.70	135.30	101.50	111.70	83.90	96.20	86.70	5	94.63	0.84	0.13
W5Q263	ICAM1	Ig-like domain-containing protein	4	2	4	2	53	58.5	6.1	289.40			210.10	139.90			279.80	249.7	209.8	0.84	0.67

							6	0	4									5	5		
							45	49.9	5.6									101.3			
W5NXW9	IGHM	Immunoglobulin heavy constant mu	70	19	471	19	6	0	8	96.80	88.10	119.20	101.10	108.20	82.80	78.30	71.10	0	85.10	0.84	0.17
W5NWM							37	41.5	5.7												
2	APOA4	Apolipoprotein A4	51	19	207	19	0	0	6	88.10	100.60	96.70	107.40	80.00	99.70	73.40	74.80	98.20	81.98	0.83	0.07
							88	97.9	4.9									101.7			
W5NZU3	CDH1	Uncharacterized protein	11	8	31	8	3	0	4	83.60	113.10	98.10	112.30	82.80	95.20	81.00	80.80	8	84.95	0.83	0.07
							35	40.4	4.9									102.3			
W5P7W2	SDF4	Uncharacterized protein	54	16	161	16	1	0	2	92.40	95.10	110.60	111.40	96.40	101.80	85.20	58.40	8	85.45	0.83	0.17
							20	22.3	5.6									102.6			
W5PN97	CLEC3B	C-type lectin domain-containing protein	50	8	85	8	5	0	4	81.10	107.20	110.00	112.20	91.80	96.70	80.60	73.50	3	85.65	0.83	0.11
							37	41.9	7.4									103.6			
W5PGT9		Uncharacterized protein	23	7	36	7	1	0	0	75.60	81.50	177.00	80.30	94.50	149.30	53.10	48.90	0	86.45	0.83	0.63
							72	84.2	9.2									169.2	141.1		
W5PK40	SULF2	Uncharacterized protein	2	2	4	2	7	0	2	198.00		191.80	118.00	114.80		160.50	148.00	7	0	0.83	0.39
									4.6									109.4			
Q7M371		Plasma proteinase inhibitor (Fragment)	40	1	21	1	20	2.20	1	99.00	99.50	107.70	131.70	108.80	91.10	92.90	72.10	8	91.23	0.83	0.14
							42	47.6	6.8									203.5	169.6		
W5PPD6	FLOT1	Flotillin	3	1	3	1	9	0	9			190.30	216.80			181.70	157.50	5	0	0.83	0.20
	LOC10111339						37	39.2	8.1									109.4			
W5NUD7	8	C-type lectin domain-containing protein	21	7	48	7	5	0	3	96.80	115.50	115.50	109.90	122.10	87.70	78.30	75.50	3	90.90	0.83	0.16
							47	53.5	6.5									106.2			
W5Q0V2	BTD	CN hydrolase domain-containing protein	23	11	65	11	9	0	1	99.30	111.80	96.90	117.10	96.20	84.60	98.60	73.70	8	88.28	0.83	0.05
							28	30.6	5.9									142.5	118.1		
W5QH34	ADIPOQ	C1q domain-containing protein	5	1	3	1	3	0	2	126.70	135.60		165.20	114.70	125.10		114.50	0	0	0.83	0.12

							41	45.9	7.9														
B6UV62	SERPINF1	SERPINF1	45	16	136	16	6	0	6	90.20	92.80	107.50	108.70	90.70	88.90	83.50	67.70	99.80	82.70	0.83	0.05		
							47	53.5	8.1												108.0		
WSPX02	MINPP1	Uncharacterized protein	11	5	17	5	0	0	6	103.80	118.90	100.00	109.30	98.50	102.70	91.50	65.20	0	89.48	0.83	0.10		
							74	83.4	5.5												151.3	125.2	
W5NUW3		Amine oxidase	3	2	14	1	8	0	3	118.60	159.30		176.10	174.20	119.70		81.90	3	7	0.83	0.46		
							34	36.7	6.9													110.6	
WSPG90		Peptidase S1 domain-containing protein	15	4	13	4	2	0	2	102.00	98.10	131.10	111.30	102.90	107.80	83.80	71.40	3	91.48	0.83	0.14		
																						108.8	
W5NQ53		Uncharacterized protein	75	4	21	4	77	8.10	4	115.00	93.40	114.90	112.00	88.10	115.50	84.80	71.00	3	89.85	0.83	0.13		
					468		60	69.3	6.1														
WSPWE9	ALB	Serum albumin	74	63	0	2	9	0	5	77.00	100.20	109.60	95.00	90.30	93.60	53.70	77.60	95.45	78.80	0.83	0.19		
		von Willebrand factor A domain containing					39	41.7	7.3													112.6	
W5NZR6	VWA1	1	10	2	8	2	3	0	9	133.10	104.80	110.50	102.10	83.50	103.30	87.80	97.00	3	92.90	0.82	0.06		
							23	26.2	8.9													113.0	
WSPDM2	FGFBP1	Uncharacterized protein	25	6	30	6	4	0	1	155.00	136.20	82.50	78.60	69.00	80.90	112.50	110.10	8	93.13	0.82	0.40		
							23	26.6	6.7													105.1	
WSP4A8	RNASSET2	Uncharacterized protein	21	5	30	5	0	0	9	82.40	113.80	128.10	96.20	98.60	86.10	82.90	78.70	3	86.58	0.82	0.14		
							14	16.4	7.9													121.6	100.1
W5NSH8	NPC2	ML domain-containing protein	59	9	155	9	9	0	9	118.20	126.00	112.00	130.20	104.60	86.20	130.60	79.10	0	3	0.82	0.13		
		Polypeptide					56	64.2	7.7													110.9	
WSP6I9	GALNT1	N-acetylgalactosaminyltransferase	14	7	21	7	0	0	2	87.40	136.00	102.90	117.40	103.40	83.00	108.30	70.60	3	91.33	0.82	0.20		
							24	26.4	9.4													165.6	136.1
WSPDP6	C1QB	C1q domain-containing protein	3	1	3	1	9	0	1	200.60	135.30	161.10		139.50	118.40	150.50		7	3	0.82	0.24		
WSPA89	ST6GALNAC	Uncharacterized protein	6	2	5	2	37	41.8	9.4	99.60	109.40	135.50	116.00	99.20	93.40	81.20	104.40	115.1	94.55	0.82	0.06		

	2						7	0	4									3			
	LOC10110241						41	46.2	8.2									116.2			
W5P0Q4	3	Uncharacterized protein	49	19	331	19	6	0	9	236.10	80.10	53.80	94.80	46.90	90.30	103.90	140.50	0	95.40	0.82	0.66
							61	68.9	6.5									191.5	157.0		
W5QH46	KNG1	Uncharacterized protein	21	13	64	1	9	0	2	164.20			218.80	180.50			133.50	0	0	0.82	0.44
							47	52.9	5.8									106.2			
W5Q5N9	KRT8	IF rod domain-containing protein	17	8	20	6	2	0	2	110.90	104.50	111.10	98.40	78.90	96.00	104.10	68.00	3	86.75	0.82	0.07
							64	70.3	6.7									199.4	162.5		
W5Q0F3	TGFB1	Uncharacterized protein	2	1	3	1	5	0	3		209.80	189.00			157.80	167.20		0	0	0.81	0.08
							14	16.8	9.0									113.4			
W5PTS4	RNASE4	RNase_Pc domain-containing protein	56	7	80	7	7	0	1	143.20	80.80	98.40	131.50	82.20	110.30	99.10	77.70	8	92.33	0.81	0.24
							66	72.6	7.1									104.0			
W5P2R7	SYDE1	Rho-GAP domain-containing protein	4	1	186	1	9	0	5	68.60	116.60	103.50	127.30	104.80	86.40	101.20	45.70	0	84.53	0.81	0.34
		LAM_G_DOMAIN domain-containing					42	45.9	6.0									139.1	112.6		
W5Q0R1	SHBG	protein	8	2	4	2	5	0	4	93.30		175.20	148.90	119.60		105.30	113.10	3	7	0.81	0.34
							53	60.4	4.4									114.4			
W5QAL0	PRKCSH	EF-hand domain-containing protein	7	4	17	4	6	0	6	88.40	128.70	110.10	130.50	98.40	101.00	91.60	78.20	3	92.30	0.81	0.09
							12	13.0	7.9									140.3	113.0		
W5PSP9		Ig-like domain-containing protein	33	3	51	1	7	0	7	113.80	156.00	151.10		115.10	110.60	113.50		0	7	0.81	0.11
							16	19.0	5.2									237.1	191.0		
W5P677	MCFD2	Uncharacterized protein	10	1	2	1	7	0	4		260.80		213.40		169.00		213.10	0	5	0.81	0.29
							23	24.9	8.4									217.7	175.4		
B5AN56		Insulin-like growth factor-binding protein-6	3	1	2	1	6	0	1		186.00		249.50		158.00		192.80	5	0	0.81	0.36
							76	88.5	5.3									118.4			
W5Q4T2	KRI1	Kri1_C domain-containing protein	1	1	6	1	4	0	8	97.50	136.10	113.30	127.00	105.40	76.10	99.30	100.20	8	95.25	0.80	0.07

						10	11.9	9.1									181.2	145.4			
W5Q3X2		Peptidylprolyl isomerase	12	1	3	1	8	0	1		155.10	207.30			134.70	156.10	0	0	0.80	0.33	
						10	115.	4.9									110.6				
W5PB40	CLSTN1	Uncharacterized protein	7	6	15	6	34	50	7	92.10	98.10	146.00	106.20	96.50	95.20	97.30	65.30	0	88.58	0.80	0.18
						44	52.4	5.1													
W5P1C2	NUCB2	Uncharacterized protein	55	23	266	22	1	0	5	69.80	96.50	129.00	100.40	92.50	84.80	83.70	55.80	98.93	79.20	0.80	0.22
		Fe2OG dioxygenase domain-containing					31	34.9	8.2								132.4	105.9			
W5Q560	OGFOD3	protein	7	2	5	2	5	0	5	114.30		156.80	126.30	118.10		117.50	82.20	7	3	0.80	0.20
		AdoHcyase_NAD domain-containing					43	47.7	6.1								147.6	117.9			
W5PHX1	AHCY	protein	22	9	13	9	2	0	8	174.20	135.70		133.00	94.20	127.00		132.70	3	7	0.80	0.17
						54	57.2	5.5									113.7				
W5Q160	KRT10	IF rod domain-containing protein	17	10	112	5	5	0	0	72.50	130.60	147.00	104.90	128.90	89.90	73.20	70.50	5	90.63	0.80	0.32
						21	24.1	5.6									123.1				
W5QGP4	APOD	Apolipoprotein D	18	3	6	3	3	0	0	151.70	117.20	115.20	108.60	70.00	91.60	102.90	127.70	8	98.05	0.80	0.16
						91	101.	6.8									110.7				
W5PND2	DDR1	Uncharacterized protein	8	6	32	6	6	40	7	99.40	133.50	95.80	114.30	89.20	88.80	97.70	75.80	5	87.88	0.80	0.06
						45	50.9	7.3									198.8	157.6			
W5NZA9	MAOB	Amine oxidase	4	1	2	1	1	0	3	149.30	248.30			172.00	143.20			0	0	0.80	0.51
						17	17.7	9.3									102.9				
W5NV14		Ig-like domain-containing protein	9	2	26	2	2	0	5	80.40	137.60	91.20	102.40	90.10	68.10	81.90	86.10	0	81.55	0.79	0.16
		Gal_mutarotas_2 domain-containing					93	105.	6.0								121.2				
W5Q305	GANAB	protein	14	11	28	11	2	60	4	113.00	158.40	117.50	96.20	91.70	82.70	110.10	99.40	8	95.98	0.79	0.13
						54	59.1	9.4									119.5				
W5PDP2	CD55	Uncharacterized protein	15	8	20	8	7	0	2	167.70	107.60	114.20	88.80	95.50	96.70	78.00	108.00	8	94.55	0.79	0.21
W5PI67	IDS	Sulfatase domain-containing protein	14	4	10	4	42	47.1	5.3	87.90	119.90	103.80	129.70	94.50	84.50	93.60	76.20	110.3	87.20	0.79	0.06

							0	0	0													3
		LOC10111372			160		43	51.0	6.0													109.5
W5PZ11	8	Clusterin	54	27	1	27	9	0	7	179.70	85.70	63.70	109.10	51.90	93.50	90.70	109.80	5	86.48	0.79	0.44	
		Lipoch_n_cytosolic_FA-bd_dom					20	23.1	9.5													119.9
W5PMH6	LCN2	domain-containing protein	54	10	247	10	0	0	1	103.20	129.10	139.30	108.00	85.20	72.80	99.30	120.90	0	94.55	0.79	0.11	
		LOC10110394					20	23.2	5.3													115.9
W5P7S6	7	Alpha-1-acid glycoprotein	47	11	121	11	2	0	1	171.30	98.50	93.60	100.40	89.90	39.70	75.40	160.60	5	91.40	0.79	0.46	
		DMAP-interaction domain-containing					30	32.6	7.1													112.1
W5Q1W8	GNPTG	protein	28	6	42	6	3	0	5	105.50	118.50	103.70	121.00	90.70	97.60	105.60	58.90	8	88.20	0.79	0.08	
							18	21.4	8.1													150.9 118.4
W5QFH6	KRAS	Uncharacterized protein	24	4	8	4	8	0	2	171.20		135.50	146.10	102.10		127.50	125.70	3	3	0.78	0.07	
							36	41.5	7.2													173.7 136.0
O46390	BGN	Biglycan	26	7	19	7	9	0	7	165.20	223.50	132.60		152.60	94.80	160.80		7	7	0.78	0.33	
							54	60.4	7.1													111.5
W5QGE5	SPINT1	Uncharacterized protein	5	2	12	2	4	0	5	87.80	127.70	102.30	128.40	93.00	85.40	103.70	66.90	5	87.25	0.78	0.10	
							49	54.3	6.7													229.3 178.9
W5Q430	IDUA	Uncharacterized protein	9	3	6	3	6	0	3		233.20		225.50		196.10		161.80	5	5	0.78	0.10	
							62	64.7	8.9													122.5
W5Q5V9	KRT3	IF rod domain-containing protein	12	11	71	2	0	0	1	78.50	126.60	154.60	130.60	129.70	111.00	67.70	74.00	8	95.60	0.78	0.26	
							53	59.6	7.9													107.2
W5PLH1	SIAE	SASA domain-containing protein	12	5	14	5	4	0	6	83.60	109.00	115.20	121.10	98.10	103.50	81.20	51.10	3	83.48	0.78	0.15	
		PP1ase cyclophilin-type domain-containing					31	35.0	6.7													128.1
W5PLA5	PP1L6	protein	3	1	5	1	1	0	9	101.20		104.80	178.30	118.20		125.30	55.60	0	99.70	0.78	0.44	
		Epidermal growth factor receptor							4.8													138.6 107.6
Q30DU1	EGFR	(Fragment)	19	1	3	1	83	9.30	8	112.30	151.90		151.70	133.90	111.10		77.90	3	3	0.78	0.21	

								45	50.2	5.6											110.7	
W5Q6V2	KRT7	IF rod domain-containing protein	32	16	38	12	2	0	8	129.50	105.20	92.70	115.60	70.60	98.20	103.60	70.80	5	85.80	0.77	0.08	
								44	50.2	5.0											218.9	169.2
W5QEG9	CCDC91	Uncharacterized protein	3	1	2	1	2	0	5	182.60			255.30	213.10			125.40	5	5	0.77	0.48	
								47	54.2	6.6											142.6	110.2
W5Q834	ERO1A	Uncharacterized protein	12	6	15	6	1	0	8		162.00	151.90	114.10		130.70	90.60	109.40	7	3	0.77	0.16	
								59	63.6	6.7											220.8	170.2
W5NYF4	PGLYRP2	Uncharacterized protein	5	2	2	2	1	0	7		226.00	215.70			135.40	205.00		5	0	0.77	0.29	
								82	90.7	7.5											145.9	112.4
W5NUR4	ADAM9	Uncharacterized protein	2	1	4	1	1	0	2	128.80	155.80		153.10	123.10	131.40		82.80	0	3	0.77	0.13	
	LOC10110543							14	16.2	7.3												
W5QCY8	7	GLOBIN domain-containing protein	76	10	66	4	6	0	0	94.10	82.50	102.70	57.00	65.30	86.10	64.40	41.80	84.08	64.40	0.77	0.19	
								81	89.2	6.2											107.4	
W5Q5H8	FGA	Fibrinogen alpha chain	38	32	365	32	2	0	7	118.20	79.20	110.60	121.90	75.40	95.70	97.10	60.90	8	82.28	0.77	0.10	
								24	27.1	6.8											180.5	137.8
W5P7X3	TALDO1	Transaldolase	22	6	13	3	5	0	0	243.80	163.60		134.10	95.80	122.50		195.20	0	3	0.76	0.39	
								14	15.0	8.4											213.6	162.4
A2P2H9	VH	VH region (Fragment)	15	1	5	1	0	0	8		216.50		210.70		145.60		179.30	0	5	0.76	0.10	
								17	18.8	5.4												
W5PIA0	CUTA	Uncharacterized protein	16	2	11	2	7	0	8	34.30	100.20	91.00	51.50	19.10	94.70	83.80	12.70	69.25	52.58	0.76	0.55	
								49	56.2	7.6											147.6	111.7
W5P726	PRCP	Uncharacterized protein	8	3	6	3	7	0	4		181.30	125.50	136.10		93.00	135.70	106.60	3	7	0.76	0.17	
								51	56.5	5.1											106.5	
W5NYZ7	CREB3L1	BZIP domain-containing protein	5	2	19	2	4	0	6	80.60	113.10	114.40	118.20	102.30	78.80	85.20	55.70	8	80.50	0.76	0.09	
W5PVL4	MBL2	C-type lectin domain-containing protein	21	4	12	4	24	26.6	5.2	118.10	90.10	100.00	124.30	119.90	103.90	72.50	29.30	108.1	81.40	0.75	0.26	

						9	0	0													3
						14	15.7	10.													126.5
W5QA24		Histone H2B	36	5	17	5	1	0	20	207.90	99.40	103.00	96.00	64.70	87.80	81.60	146.10	8	95.05	0.75	0.37
						70	76.4	5.2													130.7
W5QBV7	CD44	Link domain-containing protein	4	3	15	3	5	0	7	153.20	114.80	158.60	96.50	85.00	71.20	80.70	154.00	8	97.73	0.75	0.22
		Rib_recpt_KP_reg domain-containing					15	164.	9.0												116.3
W5Q8J3	RRBP1	protein	30	24	58	24	35	40	9	166.00	96.00	113.10	90.30	61.60	98.70	88.20	98.10	5	86.65	0.74	0.18
						14	15.2	8.6													
P68240		Hemoglobin subunit alpha-1/2	40	6	49	6	2	0	8	68.80	110.90	74.90	37.30	44.70	80.90	46.10	44.40	72.98	54.03	0.74	0.32
						12	13.7	7.4													119.1
W5Q927	CD59	CD59 glycoprotein	16	1	6	1	2	0	7	106.60	121.70	159.60	88.70	85.20	97.60	79.70	89.80	5	88.08	0.74	0.09
						60	66.6	7.0													237.9
																					175.6
W5QBA3	SMPD1	Sphingomyelin phosphodiesterase	9	5	13	1	3	0	6	260.20	215.60			164.70	186.60			0	5	0.74	0.13
						54	62.1	6.4													259.5
																					190.0
W5NU21	FUCA2	Alpha-L-fucosidase	8	3	3	3	2	0	8	311.50			207.50	141.70			238.30	0	0	0.73	0.43
						40	46.0	5.2													122.7
W5Q5M3	KRT18	IF rod domain-containing protein	4	2	31	1	9	0	1	53.00	140.00	185.10	112.70	164.40	80.40	66.20	48.00	0	89.75	0.73	0.42
						11	12.5	6.7													199.7
																					145.8
WSPSH2		Ig-like domain-containing protein	7	1	2	1	9	0	6	164.60	234.90			135.70	156.00			5	5	0.73	0.28
						11	127.	7.0													264.4
																					192.6
WSPWC5	EGFR	Receptor protein-tyrosine kinase	1	1	3	1	55	80	2	293.70		235.20		187.20		198.10		5	5	0.73	0.14
						67	75.2	5.1													120.2
W5Q749	PROS1	Uncharacterized protein	8	4	7	4	5	0	9	106.10	121.00	95.90	157.80	84.30	92.00	107.60	63.50	0	86.85	0.72	0.09
						12	14.5	5.5													105.3
Q29439	C4	Complement component C4 (Fragment)	44	5	31	2	9	0	3	76.50	111.20	133.80	99.90	85.10	78.30	76.10	64.20	5	75.93	0.72	0.06

								53	57.3	8.3												117.3
W5Q6B8	KRT6A	IF rod domain-containing protein	18	12	64	3	4	0	1	54.00	160.20	166.70	88.50	146.10	73.00	61.10	57.00	5	84.30	0.72	0.38	
								15	17.3	7.2												124.3
W5PDJ6	GPX3	Glutathione peroxidase	46	7	32	7	1	0	8	165.50	106.90	119.80	105.20	71.40	96.60	108.20	80.80	5	89.25	0.72	0.08	
								53	59.0	4.8												108.6
W5PSD8	GP2	ZP domain-containing protein	34	18	185	18	3	0	6	77.80	118.80	143.40	94.50	82.70	98.60	67.90	62.60	3	77.95	0.72	0.11	
								59	62.7	7.8												125.7
W5Q687	KRT5	IF rod domain-containing protein	20	14	94	4	7	0	1	48.20	112.70	215.00	127.10	174.80	83.90	49.10	52.00	5	89.95	0.72	0.46	
								27	30.9	5.8												119.2
W5Q7I2		Ig-like domain-containing protein	27	6	263	3	5	0	6	115.20	132.00	103.30	126.60	68.00	90.00	118.80	64.10	8	85.23	0.70	0.05	
								43	48.6	5.2												117.1
W5Q6L8	KRT17	IF rod domain-containing protein	18	9	57	2	6	0	6	76.80	118.70	167.30	105.90	125.00	90.10	52.30	67.00	8	83.60	0.71	0.22	
								16	180.	5.2												147.7
W5Q5Q6	COL14A1	Uncharacterized protein	7	8	11	8	55	40	9	130.60		162.60	150.00	114.20		125.40	74.80	3	0	0.71	0.08	
								41	45.5	8.7												110.8
W6AXS1		ANGPTL4	21	8	33	1	0	0	5	83.80	98.30	143.60	117.60	75.70	94.10	77.30	67.00	3	78.53	0.71	0.06	
	LOC10112000							19	22.4	7.2												131.1
W5PDE5	1	Uncharacterized protein	20	4	15	4	9	0	5	89.70	155.10	145.30	134.50	120.90	87.40	92.10	69.80	5	92.55	0.71	0.08	
								53	56.2	5.1												127.3
W5PZW9	KRT24	IF rod domain-containing protein	6	4	44	1	5	0	2	57.50	115.00	195.50	141.40	183.30	82.90	37.20	55.40	5	89.70	0.70	0.42	
									3.9													108.9
P68214	FGA	Fibrinogen alpha chain (Fragment)	100	1	22	1	19	1.80	5	114.40	77.00	105.50	138.70	61.10	94.40	102.40	47.30	0	76.30	0.70	0.13	
								75	75.8	8.7												126.0
W5Q611	KRT1	IF rod domain-containing protein	6	6	60	3	6	0	0	73.50	113.10	194.10	123.60	147.00	90.70	51.00	63.40	8	88.03	0.70	0.29	
W5QH96	LIPH	Lipase domain-containing protein	6	2	2	2	45	51.4	7.5	155.30		274.70		175.10		124.70		215.0	149.9	0.70	0.42	

								7	0	9								0	0		
								25	28.1	4.9								115.2			
W5P8F9		BP11 domain-containing protein	27	5	130	5	4	0	8	99.60	72.60	132.30	156.50	77.90	68.20	133.90	40.40	5	80.10	0.70	0.24
	LOC10111679	Lipochn_cytosolic_FA-bd_dom						17	19.6	4.7								251.9	174.4		
W5PHS2	9	domain-containing protein	12	2	3	2	2	0	5		292.10	211.70			166.10	182.70		0	0	0.69	0.20
								13	15.0	9.6								235.6	162.4		
A2P2H7	VH	VH region (Fragment)	15	1	3	1	9	0	0	159.20			312.00	196.90			127.90	0	0	0.69	0.48
								49	56.6	7.7								112.2			
W5NQ46	FGB	Fibrinogen beta chain	45	18	223	18	4	0	2	125.20	87.10	110.60	125.90	65.30	95.80	96.80	50.20	0	77.03	0.69	0.05
		Fibrinogen C-terminal domain-containing						43	49.2	6.1								112.8			
W5Q5A6	FGG	protein	57	23	235	23	4	0	3	129.80	81.60	111.00	129.10	63.40	97.50	96.80	52.00	8	77.43	0.69	0.07
								45	50.9	6.3								104.7			
W5PBM9	SCPEP1	Carboxypeptidase	24	8	36	8	2	0	8	97.30	85.60	149.60	86.40	76.70	101.80	50.30	56.60	3	71.35	0.68	0.13
								97	108.	6.4								141.9			
W5P8V8	EPHA5	Receptor protein-tyrosine kinase	4	2	5	2	3	00	3	98.10	186.50		141.20	118.80	108.50		62.60	3	96.63	0.68	0.22
								12	14.5	10.								261.3	177.6		
A6N8N9	CCL28	C-C motif chemokine	24	3	4	3	9	0	01	284.50		238.20		165.00		190.20		5	0	0.68	0.09
																		4.4			
P68116	FGB	Fibrinogen beta chain (Fragment)	60	1	4	1	20	2.30	4	111.00	75.10	110.50	139.40	63.80	94.30	100.00	33.60	0	72.93	0.67	0.12
								19	21.0	5.1								272.8	180.2		
W5PF33	GM2A	ML domain-containing protein	13	3	10	3	3	0	4	309.00		236.60		154.80		205.70		0	5	0.66	0.17
								34	37.6	7.5								264.1	173.5		
W5P197	CCN3	Uncharacterized protein	11	3	4	3	6	0	8	249.20		279.00		190.30		156.80		0	5	0.66	0.06
								19	215.	5.1								116.0			
W5PBD8	LAMB1	Uncharacterized protein	9	13	27	13	53	90	4	77.80	136.40	154.50	95.60	62.30	85.00	72.80	84.10	8	76.05	0.66	0.07

							11	12.2	6.0								169.6	110.7			
W5NWX6	APOC3	Uncharacterized protein	31	3	4	3	0	0	6	218.70		136.50	153.80	93.10		107.20	132.00	7	7	0.65	0.10
							16	17.7	8.9								139.4				
P49929		Cathelin-related peptide SC5	58	9	88	6	0	0	8	186.60	211.40	82.20	77.70	73.80	29.60	56.20	203.60	8	90.80	0.65	0.39
							51	58.0	8.7								137.8				
W5QH04		Amine oxidase	37	17	39	17	8	0	2	191.50	131.20	103.80	124.70	75.50	85.90	115.00	81.80	0	89.55	0.65	0.06
							55	62.1	5.7								233.9	150.1			
W5QFM2	LRMP	Lymphoid restricted membrane protein	1	1	2	1	2	0	2		205.20		262.70		183.80		116.50	5	5	0.64	0.20
							11	136.	7.3												
W5Q6S3	WASHC4	Uncharacterized protein	1	1	12	1	73	30	6	34.80	80.70	54.70	46.80	24.50	55.30	31.10	28.30	54.25	34.80	0.64	0.16
							20	22.0	4.7								119.8				
W5P408	SDC2	Syndecan	15	4	31	4	2	0	2	95.30	98.10	164.00	122.10	91.20	101.60	71.20	31.00	8	73.75	0.62	0.08
							62	69.3	6.5								239.7	146.5			
C8BKD7	SMPD1	Sphingomyelin phosphodiesterase	10	5	14	1	5	0	2	213.90			265.60	167.60			125.40	5	0	0.61	0.11
							43	47.6	4.8								236.7	143.0			
W5NTW0	CADM1	Uncharacterized protein	5	2	2	2	1	0	1			200.70	272.70			170.70	115.30	0	0	0.60	0.18
							16	18.9	8.1								278.9	167.9			
W5P8S0	LY96	ML domain-containing protein	21	3	4	3	0	0	6	308.60			249.20	147.90			188.00	0	5	0.60	0.09
					237		14	16.2	5.3								111.6				
W5QD52	LALBA	Alpha-lactalbumin	43	12	5	3	2	0	0	58.80	114.60	159.10	113.90	80.40	77.10	77.30	27.60	0	65.60	0.59	0.11
		Lipocln_cytosolic_FA-bd_dom					14	15.4	8.9								134.6				
W5P559		domain-containing protein	52	7	179	7	3	0	0	110.60	151.20	198.10	78.80	40.50	157.10	23.50	87.80	8	77.23	0.57	0.20
		Proto-oncogene tyrosine-protein kinase					11	124.	6.7								256.9	146.7			
W5P1A8	RET	receptor Ret	1	1	2	1	23	90	6			279.90	234.00			164.30	129.10	5	0	0.57	0.06
W5NQQ1	TTC17	Uncharacterized protein	1	1	3	1	11	130.	6.5		266.80		217.50		143.20		132.60	242.1	137.9	0.57	0.05

							58	90	5								5	0			
							17	19.1	5.6								135.4				
W5NV32		domain-containing protein	8	2	49	2	2	0	0	112.50	142.50	202.20	84.70	43.40	152.80	22.50	89.90	8	77.15	0.57	0.18
	LOC10111723						40	44.2	6.8								143.7				
W5NXH0	1	Uncharacterized protein	2	1	5	1	4	0	6	172.00	123.10	136.10			115.40	56.90	67.80	3	80.03	0.56	0.05
							35	37.8	7.9								304.4	161.8			
W5PFI0	LYPD3	UPAR/Ly6 domain-containing protein	5	2	4	2	8	0	9	299.00		309.80	198.50				125.20	0	5	0.53	0.06
							15	18.6	5.4								140.9				
W5PTE0	AP1S2	AP complex subunit sigma	16	1	7	1	7	0	7	44.20	241.30	110.00	168.10	55.90	44.20	121.60	52.50	0	68.55	0.49	0.16
	LOC10111144						53	58.0	8.2								197.3				
W5Q6G0	0	IF rod domain-containing protein	8	6	21	1	1	0	2	159.00	262.70	170.20			135.90	71.00	69.60	0	92.17	0.47	0.06
							31	35.0	5.3								294.8	134.7			
W5QF69	FSTL1	Uncharacterized protein	11	4	6	4	1	0	9	343.90		245.70	146.30				123.20	0	5	0.46	0.09
							10	12.2	9.1								340.3	152.8			
W5QHS2	MGP	Matrix Gla protein	23	2	2	2	3	0	4	372.40		308.30	112.40				193.20	5	0	0.45	0.07
							71	80.4	8.6								280.6	106.4			
Q9MZYZ		Airway lactoperoxidase	54	34	748	2	2	0	9	163.30		398.00			116.70		96.20	5	5	0.38	0.28
							18	19.5	10.								360.1	131.6			
W5NV16		Ig-like domain-containing protein	24	2	39	1	2	0	18	415.90	304.30		148.70	114.50			0	0	0.37	0.06	

Supplementary Table 3 Significantly upregulated low abundant proteins in STH and DM sheep milk

Accession	Description	Gene name	FC ^a	P-value
STH Significantly upregulated milk proteins				
W5PZD0	Uncharacterized protein	LOC101110099	2.55	0.012
W5PZJ1	Secretoglobin Family 2A Member 2	SCGB2A2	2.46	0.009
W5PAM5	Retinol Binding Protein 1	RBP1	1.73	0.022
W5PUQ1	Solute Carrier Family 39 member 8	SLC39A8	1.73	0.017
W5NV22	ATP Binding Cassette Subfamily G Member 2 (Junior Blood Group)	ABCG2	1.69	0.038
W5NXP6	Anaphylatoxin-like domain-containing protein	—	1.66	0.005
W5Q695	Solute Carrier Family 6 Member 14	SLC6A14	1.63	0.024
W5Q6N3	Uncharacterized protein	LOC101115115	1.61	0.049
C5IJA1	RAC1	—	1.58	0.031
W5PCL0	Uncharacterized protein	LOC101103343	1.58	0.0002
W5PMT0	Xanthine Dehydrogenase	XDH	1.57	4.92E-06
W5NXM1	A2M domain-containing protein	—	1.55	0.006
W5NPK5	A2M_recep domain-containing protein	LOC443475	1.53	0.0124
W5NRH2	Anaphylatoxin-like domain-containing protein	—	1.52	0.008
W5PFB9	Alkaline Phosphatase, Biomineralization Associated	ALPL	1.51	0.016
W5NRI1	A2M_N_2 domain-containing protein	—	1.51	0.009
W5P5T4	NTR domain-containing protein	LOC101108131	1.51	0.003
DM Significantly upregulated milk proteins				
W5Q5H4	Uncharacterized protein	—	2.54	0.001
W5Q5J4	Uncharacterized protein	LOC101110855	2.31	0.022
W5NXL7	Ig-like domain-containing protein	—	2.15	0.001
W5PQH2	Alanyl Aminopeptidase, Membrane	ANPEP	2.03	6.72E-05
W5NRA2	S100 Calcium Binding Protein A2	S100A2	2	0.044
W5P8R7	Fc Fragment Of IgG Binding Protein	FCGBP	1.94	0.0001
W5PJ97	Apolipoprotein A2	APOA2	1.92	0.009
W5Q3W1	AE Binding Protein 1	AEBP1	1.91	0.018
W5PBU7	Transmembrane Serine Protease 13	TMPRSS13	1.83	0.038
W5NXZ8	G Protein Regulated Inducer Of Neurite Outgrowth 1	GPRIN1	1.82	0.022
W5P4H9	Peptidase A1 domain-containing protein	—	1.77	0.0002
W5PSC1	Ig-like domain-containing protein	—	1.76	0.024
W5PUH5	Legumain	LGMN	1.72	0.005
W5PAJ2	Prosaposin	PSAP	1.7	0.001
W5PCE0	Phospholipase B Domain Containing 2	PLBD2	1.69	6.47E-05
W5PI61	Apolipoprotein E	APOE	1.69	0.029
W5QA64	C1q domain-containing protein	LOC101119895	1.68	0.022
Q9MZS8	Cathepsin D	CTSD	1.68	0.001

W5QG24	Palmitoyl-Protein Thioesterase 1	PPT1	1.65	2.65E-05
W5QHZ5	Uncharacterized protein	—	1.63	0.043
W5PRG8	Cellular Repressor of E1A Stimulated Genes 1	CREG1	1.59	0.019
W5Q686	Tripeptidyl Peptidase 1	TPP1	1.56	0.007
W5PBB5	Cathepsin F	CTSF	1.54	0.024
W5PFY3	N-Acylsphingosine Amidohydrolase 1	ASAH1	1.54	0.0003
W5QBZ7	Alpha-N-Acetylgalactosaminidase	NAGA	1.51	8.61E-05
W5P3R0	Thioredoxin domain-containing protein	—	1.51	0.017
W5Q9D5	Vitronectin	VTN	1.5	0.017
A2P2I3	VH region	VH	1.5	0.006
W5Q7J0	Vitellogenin domain-containing protein	APOB	1.5	0.006

^aFC: = fold change, mean value of peak area obtained from STH group / mean value of peak area obtained from DM group.

Supplementary Table4 Gene ontology terms enriched for significantly upregulated proteins in STH and DM milk

GO_function	GO ID	GO-Term	Protein IDs	No. of proteins	P-value	FDR
STH						
	GO:0072562	blood microparticle	W5P5T4;W5NPK5;W5NXM1;W5NRH2;W5NXP6	5	0.000	0.341
	GO:0070062	extracellular exosome	W5NXM1;W5Q695;W5NRH2;W5P5T4;W5PFB9; W5NPK5;W5NXP6	7	0.001	0.482
	GO:0031090	organelle membrane	W5PUQ1	1	0.003	0.482
cellular_component	GO:0065010	extracellular membrane-bounded organelle	W5PFB9	1	0.003	0.602
	GO:0031526	brush border membrane	W5Q6N3	1	0.021	0.341
	GO:0031225	anchored component of membrane	W5PFB9	1	0.037	0.649
	GO:0005777	peroxisome	W5PMT0	1	0.049	0.701
	GO:0042470	melanosome	C5IJA1	1	0.052	0.421
	GO:0005829	cytosol	W5PMT0;C5IJA1;W5PAM5	3	0.082	0.341
	GO:0031715	C5L2 anaphylatoxin chemotactic receptor binding	W5NPK5;W5NRH2;W5NXM1;W5NRI1;W5NXP6 ;W5P5T4	6	0.000	0.256
	GO:0004866	endopeptidase inhibitor activity	W5NPK5;W5NRI1;W5P5T4;W5NXP6;W5NRH2; W5NXM1	6	0.000	0.341
molecular_function	GO:0004855	xanthine oxidase activity	W5PMT0	1	0.002	1.000
	GO:0051022	Rho GDP-dissociation inhibitor binding	C5IJA1	1	0.002	0.421
	GO:0016903	oxidoreductase activity, acting on the	W5PMT0	1	0.003	0.418

	aldehyde or oxo group of donors					
	GO:0043546	molybdopterin cofactor binding	W5PMT0	1	0.003	0.341
	GO:0004854	xanthine dehydrogenase activity	W5PMT0	1	0.003	0.366
	GO:0016918	retinal binding	W5PAM5	1	0.004	0.010
	GO:0004035	alkaline phosphatase activity	W5PFB9	1	0.004	0.341
	GO:0016462	pyrophosphatase activity	W5PFB9	1	0.004	0.602
	GO:0019841	retinol binding	W5PAM5	1	0.005	0.850
	GO:0016614	oxidoreductase activity, acting on CH-OH group of donors	W5PMT0	1	0.007	1.000
	GO:0015171	amino acid transmembrane transporter activity	W5Q695	1	0.010	0.341
	GO:0005328	neurotransmitter:sodium symporter activity	W5Q695	1	0.015	0.013
	GO:0005385	zinc ion transmembrane transporter activity	W5PUQ1	1	0.019	0.488
	GO:0051537	2 iron, 2 sulfur cluster binding	W5PMT0	1	0.021	0.341
	GO:0050660	flavin adenine dinucleotide binding	W5PMT0	1	0.051	0.488
	GO:0042626	ATPase activity, coupled to transmembrane movement of substances	W5NV22	1	0.053	0.019
	GO:0005215	transporter activity	W5PAM5	1	0.069	0.544
biological_process	GO:0045745	positive regulation of G-protein coupled receptor protein signaling pathway	W5P5T4;W5NXP6;W5NPK5;W5NXM1;W5NRH2 ;W5NRI1	6	0.000	0.544
	GO:0010866	regulation of triglyceride biosynthetic	W5NRI1;W5NXM1;W5NRH2;W5P5T4;W5NXP6;	6	0.005	0.482

	process	W5NPK5			
GO:0010828	positive regulation of glucose transmembrane transport	W5NPK5;W5NRI1;W5NXM1;W5NXP6;W5NRH2;W5P5T4	6	0.000	0.017
GO:0010884	positive regulation of lipid storage	W5NXP6;W5NPK5;W5NRI1;W5NRH2;W5P5T4;W5NXM1	6	0.000	0.421
GO:0001970	positive regulation of activation of membrane attack complex	W5NRH2;W5P5T4;W5NXP6;W5NXM1;W5NPK5	5	0.000	0.544
GO:0001798	positive regulation of type IIa hypersensitivity	W5P5T4;W5NRH2;W5NPK5;W5NXP6;W5NXM1	5	0.000	0.602
GO:2000427	positive regulation of apoptotic cell clearance	W5NPK5;W5P5T4;W5NXP6;W5NXM1;W5NRH2	5	0.000	0.421
GO:0001934	positive regulation of protein phosphorylation	W5NRH2;W5NRI1;W5P5T4;W5NXM1;W5NXP6;C5IJA1;W5NPK5	7	0.000	0.341
GO:0006956	complement activation	W5NRH2;W5NXM1;W5NPK5;W5P5T4;W5NXP6	5	0.000	0.010
GO:0010575	positive regulation of vascular endothelial growth factor production	W5NXP6;W5NRH2;W5P5T4;W5NPK5;W5NXM1	5	0.000	0.010
GO:0010951	negative regulation of endopeptidase activity	W5NXM1;W5NXP6;W5NPK5;W5P5T4;W5NRH2;W5NRI1	6	0.000	0.341
GO:0045766	positive regulation of angiogenesis	W5NXM1;W5NPK5;W5NXP6;W5P5T4;W5NRH2	5	0.000	0.443
GO:0006954	inflammatory response	W5NXP6;W5NRH2;W5NPK5;W5NRI1;W5P5T4;W5NXM1	6	0.000	0.341
GO:0030852	regulation of granulocyte differentiation	W5PAM5	1	0.001	0.341

GO:0006776	vitamin A metabolic process	W5PAM5	1	0.001	0.651
GO:0070543	response to linoleic acid	W5Q6N3	1	0.002	0.443
GO:0033189	response to vitamin A	W5PAM5	1	0.002	0.651
GO:0003006	developmental process involved in reproduction	W5PFB9	1	0.002	0.482
GO:0002138	retinoic acid biosynthetic process	W5PAM5	1	0.002	0.544
GO:0070508	cholesterol import	W5Q6N3	1	0.003	1.000
GO:0034197	triglyceride transport	W5Q6N3	1	0.003	0.602
GO:0033993	response to lipid	W5Q6N3	1	0.003	0.418
GO:0009115	xanthine catabolic process	W5PMT0	1	0.003	0.443
GO:0070574	cadmium ion transmembrane transport	W5PUQ1	1	0.003	0.421
GO:0070542	response to fatty acid	W5Q6N3	1	0.003	1.000
GO:0030299	intestinal cholesterol absorption	W5Q6N3	1	0.004	0.421
GO:1990000	amyloid fibril formation	W5Q6N3	1	0.004	0.872
GO:0044539	long-chain fatty acid import	W5Q6N3	1	0.006	0.618
GO:0033280	response to vitamin D	W5PFB9	1	0.006	0.341
GO:0071578	zinc II ion transmembrane import	W5PUQ1	1	0.006	0.544
GO:0046415	urate metabolic process	W5NV22	1	0.007	0.544
GO:0006520	cellular amino acid metabolic process	W5Q695	1	0.008	0.418
GO:0006957	complement activation, alternative pathway	W5NRI1	1	0.008	0.482
GO:0031214	biomineral tissue development	W5PFB9	1	0.009	0.341
GO:0048870	cell motility	C5IJA1	1	0.001	0.544
GO:0050892	intestinal absorption	W5Q6N3	1	0.010	0.544

GO:0071404	cellular response to low-density lipoprotein particle stimulus	W5Q6N3	1	0.011	0.418
GO:0050909	sensory perception of taste	W5Q6N3	1	0.012	0.602
GO:0046677	response to antibiotic	W5PFB9	1	0.013	0.701
GO:0042572	retinol metabolic process	W5PAM5	1	0.013	1.000
GO:0006882	cellular zinc ion homeostasis	W5PUQ1	1	0.013	0.421
GO:0071726	cellular response to diacyl bacterial lipopeptide	W5Q6N3	1	0.014	1.000
GO:0003333	amino acid transmembrane transport	W5Q695	1	0.015	0.602
GO:1900227	positive regulation of NLRP3 inflammasome complex assembly	W5Q6N3	1	0.015	1.000
GO:0050702	interleukin-1 beta secretion	W5Q6N3	1	0.016	0.701
GO:0071526	semaphorin-plexin signaling pathway	C5IJA1	1	0.018	0.341
GO:0006836	neurotransmitter transport	W5Q695	1	0.021	
GO:0031623	receptor internalization	W5Q6N3	1	0.021	0.421
GO:0001958	endochondral ossification	W5PFB9	1	0.028	0.341
GO:0006631	fatty acid metabolic process	W5NRI1	1	0.029	0.602
GO:0071407	cellular response to organic cyclic compound	W5PFB9	1	0.030	0.411
GO:0006958	complement activation, classical pathway	W5NRI1	1	0.034	0.341
GO:0009636	response to toxic substance	W5Q695	1	0.036	0.411
GO:0030334	regulation of cell migration	C5IJA1	1	0.037	
GO:0016311	dephosphorylation	W5PFB9	1	0.047	0.341

	GO:0007204	positive regulation of cytosolic calcium ion concentration	W5Q6N3	1	0.049	0.544
	GO:0001649	osteoblast differentiation	W5PFB9	1	0.079	0.482
DM	GO:0005764	lysosome	W5PCE0;W5PFY3;W5PBB5;W5P4H9;W5PAJ2;Q9MZS8;W5QG24;W5Q686	8	0.000	1.000
	GO:0005615	extracellular space	W5PAJ2;W5P3R0;W5PRG8;W5PBB5;W5QHZ5;W5PFY3;W5Q3W1;W5PQH2;W5PSC1	9	0.000	0.341
	GO:0034361	very-low-density lipoprotein particle	W5Q7J0;W5PJ97	2	0.000	0.341
	GO:0070062	extracellular exosome	W5PQH2;W5P8R7;W5QBZ7;W5PRG8;W5Q3W1;W5PFY3;W5PBB5;W5PCE0;W5PJ97;W5Q9D5;W5Q7J0	11	0.000	0.482
cellular_component	GO:0072562	blood microparticle	W5PJ97;W5Q9D5;A2P2I3	3	0.000	
	GO:0034359	mature chylomicron	W5Q7J0	1	0.001	0.421
	GO:0034363	intermediate-density lipoprotein particle	W5Q7J0	1	0.002	0.544
	GO:0042627	chylomicron	W5PJ97	1	0.007	0.341
	GO:0005576	extracellular region	W5QA64;W5PI61;W5QG24;W5NXL7	4	0.009	0.341
	GO:0034366	spherical high-density lipoprotein particle	W5PJ97	1	0.010	0.341
	GO:0034362	low-density lipoprotein particle	W5Q7J0	1	0.010	0.341
	GO:0042571	immunoglobulin complex, circulating	A2P2I3	1	0.035	0.341
	GO:0030173	integral component of Golgi membrane	W5P3R0	1	0.043	0.482

	GO:0005793	endoplasmic reticulum-Golgi intermediate compartment	W5PQH2	1	0.050	0.341
	GO:0009897	external side of plasma membrane	W5PQH2;A2P2I3	2	0.055	0.482
	GO:0005581	collagen trimer	W5QA64	1	0.058	0.341
	GO:0008021	synaptic vesicle	W5QG24	1	0.070	0.341
	GO:0042470	melanosome	W5Q686	1	0.087	0.421
	GO:0017127	cholesterol transporter activity	W5PJ97;W5Q7J0	2	0.000	
	GO:0017129	triglyceride binding	W5PJ97	1	0.001	0.421
	GO:0034190	apolipoprotein receptor binding	W5PJ97	1	0.001	0.341
	GO:0004252	serine-type endopeptidase activity	W5PBU7;W5NXL7;W5Q686	3	0.002	0.421
	GO:0008240	tripeptidyl-peptidase activity	W5Q686	1	0.002	0.421
	GO:0008456	alpha-N-acetylgalactosaminidase activity	W5QBZ7	1	0.002	0.010
	GO:0017040	N-acylsphingosine amidohydrolase activity	W5PFY3	1	0.003	0.544
molecular_function	GO:0070653	high-density lipoprotein particle receptor binding	W5PJ97	1	0.003	0.341
	GO:0055102	lipase inhibitor activity	W5PJ97	1	0.003	1.000
	GO:0016971	flavin-linked sulfhydryl oxidase activity	W5P3R0	1	0.003	0.341
	GO:0035473	lipase binding	W5Q7J0	1	0.004	0.651
	GO:0008035	high-density lipoprotein particle binding	W5PJ97	1	0.004	0.421
	GO:0060228	phosphatidylcholine-sterol O-acyltransferase activator activity	W5PJ97	1	0.004	0.341
	GO:0004190	aspartic-type endopeptidase activity	W5P4H9;Q9MZS8	2	0.006	0.088

GO:0016290	palmitoyl-CoA hydrolase activity	W5QG24	1	0.008	0.341
GO:0005044	scavenger receptor activity	W5Q9D5;W5PBU7	2	0.009	0.421
GO:0008474	palmitoyl-(protein) hydrolase activity	W5QG24	1	0.010	1.000
GO:0004185	serine-type carboxypeptidase activity	W5Q3W1	1	0.016	0.341
GO:0003823	antigen binding	A2P2I3;W5NXL7	2	0.016	0.421
GO:0030247	polysaccharide binding	W5Q9D5	1	0.017	0.421
GO:0050750	low-density lipoprotein particle receptor binding	W5Q7J0	1	0.017	0.341
GO:0031210	phosphatidylcholine binding	W5PJ97	1	0.019	1.000
GO:0003756	protein disulfide isomerase activity	W5P3R0	1	0.025	0.341
GO:0010181	FMN binding	W5PRG8	1	0.025	
GO:0004175	endopeptidase activity	W5Q686	1	0.028	0.162
GO:0008047	enzyme activator activity	W5PAJ2	1	0.028	0.341
GO:0008233	peptidase activity	W5PUH5	1	0.029	0.341
GO:0004181	metallocarboxypeptidase activity	W5Q3W1	1	0.029	0.341
GO:0051219	phosphoprotein binding	W5NXZ8	1	0.031	0.421
GO:0050840	extracellular matrix binding	W5Q9D5	1	0.032	0.544
GO:0005125	cytokine activity	W5Q5J4;W5Q5H4	2	0.033	0.341
GO:0008237	metallopeptidase activity	W5PQH2	1	0.034	0.482
GO:0015485	cholesterol binding	W5PJ97	1	0.036	0.411
GO:0034987	immunoglobulin receptor binding	A2P2I3	1	0.038	0.602
GO:0004197	cysteine-type endopeptidase activity	W5PBB5	1	0.044	0.544
GO:0001227	transcriptional repressor activity, RNA polymerase II transcription regulatory region sequence-specific DNA binding	W5Q3W1	1	0.056	0.482

	GO:0005543	phospholipid binding	W5Q7J0	1	0.059	0.341
	GO:0001664	G-protein coupled receptor binding	W5PAJ2	1	0.060	0.482
	GO:0008289	lipid binding	W5PI61	1	0.114	0.341
	GO:0006508	proteolysis	Q9MZS8;W5NXL7;W5PBU7;W5PQH2;W5PUH5; W5Q686;W5P4H9	7	0.000	1.000
	GO:0034374	low-density lipoprotein particle remodeling	W5PJ97;W5Q7J0	2	0.000	0.421
	GO:0006898	receptor-mediated endocytosis	W5QG24;W5Q9D5;W5NXL7;W5PBU7	4	0.000	0.498
	GO:0007399	nervous system development	W5Q7J0;W5QG24;W5Q686	3	0.000	0.602
	GO:0042157	lipoprotein metabolic process	W5PI61;W5PJ97	2	0.000	0.482
	GO:0033344	cholesterol efflux	W5PJ97;W5Q7J0	2	0.000	0.482
	GO:0048260	positive regulation of receptor-mediated endocytosis	W5Q9D5;W5QG24	2	0.001	0.780
biological_process	GO:0034370	triglyceride-rich lipoprotein particle remodeling	W5PJ97	1	0.001	0.162
	GO:0060695	negative regulation of cholesterol transporter activity	W5PJ97	1	0.001	0.421
	GO:0061302	smooth muscle cell-matrix adhesion	W5Q9D5	1	0.001	0.421
	GO:0000045	autophagosome assembly	W5P4H9;Q9MZS8	2	0.001	1.000
	GO:0043085	positive regulation of catalytic activity	W5PJ97;W5PAJ2	2	0.001	0.651
	GO:0006955	immune response	W5QHZ5;W5Q9D5;W5Q5J4;W5Q5H4;W5PSC1; W5NXL7	6	0.001	0.766
	GO:0006958	complement activation, classical pathway	W5NXL7;A2P2I3	2	0.002	0.341

GO:0042632	cholesterol homeostasis	W5PJ97;W5Q7J0	2	0.002	0.010
GO:0008203	cholesterol metabolic process	W5PJ97;W5Q7J0	2	0.002	0.341
GO:0042159	lipoprotein catabolic process	W5Q7J0	1	0.002	0.602
GO:0051186	cofactor metabolic process	W5QG24	1	0.002	0.443
GO:0019377	glycolipid catabolic process	W5QBZ7	1	0.002	0.341
GO:0010903	negative regulation of very-low-density lipoprotein particle remodeling	W5PJ97	1	0.002	0.341
GO:0060621	negative regulation of cholesterol import	W5PJ97	1	0.002	0.443
GO:0018158	protein oxidation	W5PJ97	1	0.002	0.341
GO:0051181	cofactor transport	W5QG24	1	0.002	0.443
GO:0045540	regulation of cholesterol biosynthetic process	W5Q7J0	1	0.003	1.000
GO:0006642	triglyceride mobilization	W5Q7J0	1	0.003	0.645
GO:0018206	peptidyl-methionine modification	W5PJ97	1	0.003	1.000
GO:0060192	negative regulation of lipase activity	W5PJ97	1	0.003	0.482
GO:0002377	immunoglobulin production	W5QHZ5;W5PSC1	2	0.003	0.482
GO:0031579	membrane raft organization	W5QG24	1	0.004	0.544
GO:0010886	positive regulation of cholesterol storage	W5Q7J0	1	0.004	0.445
GO:0016052	carbohydrate catabolic process	W5QBZ7	1	0.004	0.421
GO:0034384	high-density lipoprotein particle clearance	W5PJ97	1	0.004	0.482
GO:0002740	negative regulation of cytokine secretion involved in immune response	W5PJ97	1	0.004	0.341

GO:0050995	negative regulation of lipid catabolic process	W5PJ97	1	0.005	0.341
GO:0042158	lipoprotein biosynthetic process	W5Q7J0	1	0.005	0.341
GO:0006907	pinocytosis	W5QG24	1	0.005	
GO:0048549	positive regulation of pinocytosis	W5QG24	1	0.007	0.544
GO:0007042	lysosomal lumen acidification	W5QG24	1	0.007	0.341
GO:0030300	regulation of intestinal cholesterol absorption	W5PJ97	1	0.007	0.421
GO:0034380	high-density lipoprotein particle assembly	W5PJ97	1	0.008	0.794
GO:0002084	protein depalmitoylation	W5QG24	1	0.008	0.421
GO:0010873	positive regulation of cholesterol esterification	W5PJ97	1	0.009	0.442
GO:0006457	protein folding	W5P3R0;W5PJ97	2	0.009	0.341
GO:0030449	regulation of complement activation	W5NXL7	1	0.010	0.421
GO:0010744	positive regulation of macrophage derived foam cell differentiation	W5Q7J0	1	0.010	0.482
GO:0033627	cell adhesion mediated by integrin	W5Q9D5	1	0.011	0.341
GO:0060742	epithelial cell differentiation involved in prostate gland development	W5PAJ2	1	0.011	0.482
GO:0006518	peptide metabolic process	W5Q3W1	1	0.011	0.421
GO:0006656	phosphatidylcholine biosynthetic process	W5PJ97	1	0.012	0.047
GO:0034383	low-density lipoprotein particle clearance	W5Q7J0	1	0.012	0.341

GO:0038096	Fc-gamma receptor signaling pathway involved in phagocytosis	W5NXL7	1	0.012	0.651
GO:0033700	phospholipid efflux	W5PJ97	1	0.013	0.341
GO:0046340	diacylglycerol catabolic process	W5PJ97	1	0.013	0.421
GO:0034375	high-density lipoprotein particle remodeling	W5PJ97	1	0.014	0.560
GO:0042953	lipoprotein transport	W5Q7J0	1	0.015	0.421
GO:0043691	reverse cholesterol transport	W5PJ97	1	0.017	0.341
GO:0038095	Fc-epsilon receptor signaling pathway	W5NXL7	1	0.017	0.482
GO:0043171	peptide catabolic process	W5Q686	1	0.017	0.341
GO:0009395	phospholipid catabolic process	W5PJ97	1	0.017	0.482
GO:0042742	defense response to bacterium	W5PJ97;A2P2I3	2	0.019	0.421
GO:0019433	triglyceride catabolic process	W5Q7J0	1	0.019	0.341
GO:0014911	positive regulation of smooth muscle cell migration	W5Q9D5	1	0.024	0.421
GO:0043542	endothelial cell migration	W5NRA2	1	0.024	1.000
GO:0048709	oligodendrocyte differentiation	W5Q9D5	1	0.025	0.162
GO:0048844	artery morphogenesis	W5Q7J0	1	0.025	0.341
GO:0006687	glycosphingolipid metabolic process	W5PAJ2	1	0.026	0.341
GO:0060736	prostate gland growth	W5PAJ2	1	0.028	0.421
GO:0045453	bone resorption	W5Q686	1	0.030	0.421
GO:0006956	complement activation	W5NXL7	1	0.031	
GO:0019216	regulation of lipid metabolic process	W5PAJ2	1	0.031	0.341
GO:0050996	positive regulation of lipid catabolic process	W5PJ97	1	0.034	0.829

GO:0050900	leukocyte migration	W5NXL7	1	0.035	1.000
GO:0010811	positive regulation of cell-substrate adhesion	W5Q9D5	1	0.038	0.341
GO:0035987	endodermal cell differentiation	W5Q9D5	1	0.042	0.341
GO:0050871	positive regulation of B cell activation	A2P2I3	1	0.045	1.000
GO:0051603	proteolysis involved in cellular protein catabolic process	W5PBB5	1	0.046	0.341
GO:0009566	fertilization	W5Q7J0	1	0.049	0.701
GO:0006911	phagocytosis, engulfment	A2P2I3	1	0.049	0.544
GO:0006910	phagocytosis, recognition	A2P2I3	1	0.049	0.421
GO:0045416	positive regulation of interleukin-8 biosynthetic process	W5PJ97	1	0.050	0.482
GO:0007193	adenylate cyclase-inhibiting G-protein coupled receptor signaling pathway	W5PAJ2	1	0.052	0.421
GO:0009749	response to glucose	W5PJ97	1	0.058	0.341
GO:0031647	regulation of protein stability	W5PJ97	1	0.061	0.651
GO:0030317	flagellated sperm motility	W5Q7J0	1	0.062	1.000
GO:0050776	regulation of immune response	W5NXL7	1	0.062	0.482
GO:0009615	response to virus	W5Q7J0	1	0.063	1.000
GO:0007417	central nervous system development	W5Q686	1	0.067	0.340
GO:0032092	positive regulation of protein binding	W5Q9D5	1	0.071	0.701
GO:0016042	lipid catabolic process	W5QG24	1	0.073	0.341
GO:0050853	B cell receptor signaling pathway	A2P2I3	1	0.073	0.341
GO:0045454	cell redox homeostasis	W5P3R0	1	0.074	0.651
GO:0006869	lipid transport	W5PI61	1	0.078	0.421

GO:0006629	lipid metabolic process	W5PFY3	1	0.082	0.482
GO:0016485	protein processing	W5Q3W1	1	0.087	0.651

Supplementary Table 5 Enriched pathways by upregulated proteins in STH and DM milk

Pathway ID	Pathway name	P- value	FDR	No. of proteins	Proteins
STH					
ko05134	Legionellosis	2.67E-09	0.922	6	W5P5T4;W5NPK5;W5NXM1;W5NRH2;W5NRI1;W5NXP6
ko04610	Complement and coagulation cascades	4.10E-09	1	6	W5NXM1;W5NPK5;W5P5T4;W5NXP6;W5NRI1;W5NRH2
ko05133	Pertussis	5.37E-09	0.363	6	W5NRH2;W5NXM1;W5NPK5;W5P5T4;W5NXP6;W5NRI1
ko05203	Viral carcinogenesis	4.64E-08	0.922	7	W5NXP6;C5IJA1;W5NRH2;W5P5T4;W5NPK5;W5NRI1;W5NXM1
ko05167	Kaposi sarcoma-associated herpesvirus infection	5.84E-08	1	7	W5NPK5;C5IJA1;W5NXM1;W5NXP6;W5P5T4;W5NRI1;W5NRH2
ko05142	Chagas disease (American trypanosomiasis)	2.92E-07	0.721	6	W5P5T4;W5NRI1;W5NXP6;W5NPK5;W5NRH2;W5NXM1
ko04145	Phagosome	8.06E-06	0.469	8	W5Q6N3;W5NRI1;W5NRH2;W5NXM1;C5IJA1;W5NXP6;W5P5T4;W5NPK5
ko05140	Leishmaniasis	0.001	1	6	W5P5T4;W5NRI1;W5NXM1;W5NRH2;W5NXP6;W5NPK5
ko05150	Staphylococcus aureus infection	0.0003	1	6	W5NRH2;W5NXP6;W5NPK5;W5NRI1;W5P5T4;W5NXM1

ko05322	Systemic lupus erythematosus	0.0004	0.389	6	W5NRI1;W5NXP6;W5NXM1;W5NPK5;W5P5T4;W5NRH2
ko05152	Tuberculosis	0.001	0.922	6	W5NXP6;W5NRI1;W5NXM1;W5NPK5;W5NRH2;W5P5T4
ko05168	Herpes simplex infection	0.001	0.389	6	W5NRH2;W5NXM1;W5P5T4;W5NPK5;W5NRI1;W5NXP6
ko00232	Caffeine metabolism	0.007	1	1	W5PMT0
ko05120	Epithelial cell signaling in Helicobacter pylori infection	0.009	1	1	C5IJA1
ko05131	Shigellosis	0.018	1	1	C5IJA1
ko00730	Thiamine metabolism	0.023	0.922	1	W5PFB9
ko00760	Nicotinate and nicotinamide metabolism	0.042		1	W5PAM5
ko04975	Fat digestion and absorption	0.063	0.372	1	W5Q6N3
ko01523	Antifolate resistance	0.063		1	W5NV22
ko04979	Cholesterol metabolism	0.067	1	1	W5Q6N3
ko00790	Folate biosynthesis	0.072	0.967	1	W5PFB9

	ko04370	VEGF signaling pathway	0.081	1	1	C5IJA1
	ko02010	ABC transporters	0.086		1	W5NV22
DM						
	ko04142	Lysosome	4.16E-12	1	9	W5P4H9;Q9MZS8;W5QBZ7;W5Q686;W5QG24; W5PBB5; W5PFY3;W5PUH5;W5PAJ2
	ko04979	Cholesterol metabolism	0.0002	1	3	W5Q7J0;W5PI61;W5PJ97
	ko04071	Sphingolipid signaling pathway	0.002	0.922	3	W5PFY3;W5P4H9;Q9MZS8
	ko04210	Apoptosis	0.007	1	3	Q9MZS8;W5P4H9;W5PBB5
	ko00603	Glycosphingolipid biosynthesis-globo and isoglobo series	0.028	0.372	1	W5QBZ7
	ko04140	Autophagy - animal	0.037	0.922	2	W5P4H9;Q9MZS8
	ko04977	Vitamin digestion and absorption	0.045	0.922	1	W5Q7J0
	ko04915	Estrogen signaling pathway	0.046	1	2	W5P4H9;Q9MZS8
	ko04614	Renin-angiotensin system	0.054	1	1	W5PQH2
	ko00062	Fatty acid elongation	0.057	0.881	1	W5QG24

ko04640	Hematopoietic cell lineage	0.076	0.372	4	A2P2I3;W5Q5H4;W5Q5J4;W5PQH2
ko04975	Fat digestion and absorption	0.096	0.372	1	W5Q7J0
ko00600	Sphingolipid metabolism	0.096	1	1	W5PFY3
