

Supplementary Data4-1:DElncRNAs					
gene	mean of LRBM group	mean of HRBM group	log2FoldChange	padj	
AC018816.1 ENSG00000235978 antisense	34.75661	202.1529	2.540243	6.66E-30	
AC023301.1 ENSG00000265579 sense_intronic	6.909692	83.73592	3.082113	4.78E-19	
BHLHE40-AS1 ENSG00000235831 antisense	57.72646	160.2995	1.040438	4.76E-14	
AC245014.3 ENSG00000276216 lincRNA	10.27128	21.59696	1.067938	1.58E-13	
LINC01141 ENSG00000236963 lincRNA	2.117838	7.083595	1.718817	1.79E-13	
AC093904.4 ENSG00000261104 lincRNA	3.71679	15.53514	2.051828	8.80E-13	
AC084346.2 ENSG00000264448 lincRNA	3.390334	8.371495	1.303698	1.81E-12	
AC022098.3 ENSG00000267783 antisense	3.246762	7.251891	1.176909	5.31E-12	
NAALADL2-AS2 ENSG00000226779 antisense	9.918371	31.54555	2.09173	1.38E-11	
AC002456.1 ENSG00000223969 antisense	27.87736	57.18676	1.032316	1.38E-11	
AC104076.1 ENSG00000236153 antisense	3.291124	9.124494	1.476659	3.12E-11	
AC093001.1 ENSG00000244468 antisense	572.3692	529.9721	1.640703	1.10E-10	
AC117382.2 ENSG00000261758 antisense	3.25067	11.03319	1.218317	2.37E-10	
AC010186.1 ENSG00000256442 antisense	0.944529	2.987325	1.696759	2.62E-10	
AL353753.1 ENSG00000276759 lincRNA	8.824984	86.65824	3.57264	5.04E-10	
LINC01612 ENSG00000250266 lincRNA	5.270339	33.06912	2.650708	5.39E-10	
AC004233.4 ENSG00000274367 lincRNA	1.15924	2.946534	1.355113	5.46E-10	
AL109615.2 ENSG00000231881 lincRNA	0.456037	1.835784	1.925238	5.79E-10	
LINC02544 ENSG00000261039 lincRNA	1.660636	2.093742	1.592711	6.45E-10	
AL445490.1 ENSG00000225886 antisense	4.493652	13.41467	1.58039	6.83E-10	

TERC ENSG00000270141 lincRNA	0.71504	2.446127	1.798436	1.09E-09
BX284668.6 ENSG00000272426 lincRNA	3.293129	7.214394	1.136882	2.45E-09
AC005041.3 ENSG00000272183 antisense	2.517535	5.443076	1.109396	3.20E-09
AC098818.2 ENSG00000260278 antisense	1.233542	3.438975	1.505091	3.43E-09
KRTAP5-AS1 ENSG00000233930 antisense	23.02781	46.13981	1.005365	4.63E-09
NRIR ENSG00000225964 antisense	4.546162	9.919155	1.134255	5.79E-09
AC015849.5 ENSG00000270977 lincRNA	4.163002	9.096438	1.101872	7.12E-09
LINC00482 ENSG00000185168 lincRNA	15.98309	36.82107	1.20551	1.19E-08
AC017074.1 ENSG00000227359 lincRNA	36.3647	107.2414	1.06892	2.75E-08
AL032819.1 ENSG00000260132 antisense	2.315696	5.208488	1.177126	2.75E-08
LINC01614 ENSG00000230838 lincRNA	8.840563	8.555733	1.13946	2.84E-08
AP001625.3 ENSG00000239930 sense_intronic	2.909893	7.547679	1.106394	2.89E-08
AL645608.8 ENSG00000273443 lincRNA	2.042168	5.007897	1.29397	3.02E-08
AC106028.5 ENSG00000275175 lincRNA	0.980378	2.748575	1.525764	3.02E-08
LINC01833 ENSG00000259439 lincRNA	0.390021	1.698497	2.000266	3.26E-08
AC091138.1 ENSG00000263958 lincRNA	0.525235	4.825675	2.575591	5.66E-08
AC093904.2 ENSG00000242136 processed_transcript	1.027144	3.560857	1.777232	6.13E-08
AP001476.1 ENSG00000224413 lincRNA	11.44329	28.20428	1.291792	9.21E-08
AC004835.1 ENSG00000230392 lincRNA	0.446939	1.670109	1.863703	1.20E-07
AC083843.1 ENSG00000254028 lincRNA	2.320131	4.792195	1.052736	1.22E-07
AC125603.2 ENSG00000257883 lincRNA	2.562687	6.693219	1.374228	2.14E-07
AL133163.3 ENSG00000259017 lincRNA	5.358478	14.05529	1.386963	2.40E-07

AC105219.1 ENSG00000254548 antisen se	2.458265	6.042513	1.319915	4.60E- 07
AL109615.3 ENSG00000237686 antisen se	8.534421	17.14687	1.001996	4.95E- 07
LINC02512 ENSG00000251061 lincRNA	0.792019	7.431382	2.684898	6.13E- 07
AP005230.1 ENSG00000263745 lincRN A	1.747004	3.068884	1.304429	6.43E- 07
AC073316.1 ENSG00000217455 lincRN A	2.290347	8.103575	1.829307	6.43E- 07
AC093895.1 ENSG00000249001 antisen se	1.235623	3.02226	2.26254	1.15E- 06
AC092535.3 ENSG00000251652 antisen se	5.776653	12.04184	1.072123	1.17E- 06
AC009336.1 ENSG00000272729 antisen se	1.700275	3.650186	1.106357	1.32E- 06
AC020907.3 ENSG00000269303 antisen se	1.475215	2.924361	1.032764	1.76E- 06
AC008574.1 ENSG00000251293 lincRN A	0.322737	2.824159	2.223444	1.87E- 06
AL451065.1 ENSG00000223446 antisen se	0.242986	3.029629	2.989464	2.33E- 06
AP006216.1 ENSG00000226645 antisen se	0.862138	1.690322	1.020358	2.93E- 06
AL353803.4 ENSG00000261334 lincRNA	1.277491	6.298743	1.332763	3.14E- 06
FEZF1-AS1 ENSG00000230316 antisens e	17.81723	36.82177	1.04677	4.50E- 06
AL391427.1 ENSG00000224251 antisen se	1.064008	2.435334	1.176898	4.61E- 06
DSCR8 ENSG00000198054 lincRNA	0.493289	8.877932	2.95569	4.67E- 06
AP003472.1 ENSG00000253824 lincRN A	0.952918	2.248711	1.292831	9.22E- 06
KCNH1-IT1 ENSG00000234233 sense_in tronic	0.656927	1.745627	1.407144	9.53E- 06
AC015813.3 ENSG00000266290 lincRN A	0.571443	1.837382	1.364229	1.37E- 05
LINC01497 ENSG00000237560 lincRNA	2.446534	5.043928	1.072253	1.81E- 05
AC010967.1 ENSG00000228033 lincRN A	1.134926	2.666425	1.236571	2.06E- 05
AC011352.3 ENSG00000251320 antisen se	2.216404	5.299692	1.255581	2.18E- 05

AC011352.1 ENSG00000248362 antisen se	1.356612	3.396567	1.324719	2.44E- 05
AC025575.2 ENSG00000258053 lincRN A	2.507681	5.410305	1.079021	2.54E- 05
LINC02100 ENSG00000248693 lincRNA	1.173963	2.579605	1.083735	3.08E- 05
AC010894.3 ENSG00000236449 antisen se	8.801333	25.06289	1.294718	3.18E- 05
LINC02200 ENSG00000250358 lincRNA	1.323802	3.417358	1.356764	3.65E- 05
AC009478.1 ENSG00000225258 lincRN A	31.87299	68.73347	1.108774	3.85E- 05
AC078923.1 ENSG00000258077 lincRN A	0.508598	1.604277	1.691746	4.03E- 05
AC069228.1 ENSG00000258162 antisen se	104.4757	316.2888	1.598722	4.73E- 05
AL391845.2 ENSG00000233542 antisen se	1.697071	3.52261	1.063079	5.61E- 05
AC092894.1 ENSG00000243081 lincRN A	1.596991	12.04932	1.238907	6.28E- 05
AC061975.6 ENSG00000266830 lincRN A	1.206687	2.892653	1.230207	6.67E- 05
ELDR ENSG00000280890 lincRNA	0.796079	1.669719	1.076253	8.03E- 05
AC061975.1 ENSG00000260777 lincRN A	0.935227	3.710201	1.006505	9.01E- 05
BARX1-DT ENSG00000235601 lincRNA	0.318116	1.17068	1.742462	9.71E- 05
LINC01647 ENSG00000235643 lincRNA	0.567215	3.424641	1.60115	0.0001 02
AC092598.1 ENSG00000223523 sense_ overlapping	2.613606	8.20152	1.240417	0.0001 03
SCHLAP1 ENSG00000281131 lincRNA	392.8384	981.1847	1.320598	0.0001 04
LINC01551 ENSG00000186960 lincRNA	1.05174	4.193611	1.890539	0.0001 19
AC110813.1 ENSG00000249690 antisen se	1.644121	5.968172	1.055446	0.0001 56
MIR2052HG ENSG00000254349 lincRN A	58.80805	126.475	1.103155	0.0001 74
AC026726.1 ENSG00000249483 lincRN A	0.914457	1.844853	1.045832	0.0002 43
AC131902.1 ENSG00000253369 lincRN A	58.52327	104.6274	1.13092	0.0002 43

AC116345.1 ENSG00000249743 lincRNA	1.765773	3.92809	1.15459	0.000276
AC106772.2 ENSG00000250385 antisense	0.812825	2.595326	1.712578	0.000283
LAMP5-AS1 ENSG00000225988 antisense	3.058746	7.562233	1.176344	0.000325
LINC02201 ENSG00000251538 lincRNA	0.440446	1.139505	1.257308	0.000332
AP002759.1 ENSG00000255178 lincRNA	0.328501	1.271815	1.849651	0.000365
LINC02197 ENSG00000250387 lincRNA	8.9878	20.94546	1.218704	0.0004
AL021395.1 ENSG00000233508 lincRNA	17.6817	40.69744	1.204973	0.000401
AL121906.1 ENSG00000271803 antisense	0.482603	1.029283	1.114903	0.000415
ZFPM2-AS1 ENSG00000251003 processed_transcript	1.506563	3.272954	1.05248	0.000503
AC092920.1 ENSG00000232461 lincRNA	0.866729	1.892167	1.119301	0.000513
AC010132.1 ENSG00000231539 lincRNA	0.767049	3.342699	2.164534	0.000537
LINC00536 ENSG00000249917 lincRNA	0.469769	1.02928	1.11142	0.000578
WASIR1 ENSG00000185203 antisense	1.675163	3.879355	1.198844	0.000613
AC008109.1 ENSG00000266602 lincRNA	0.44807	1.272422	1.899328	0.000731
KCNMB2-AS1 ENSG00000237978 antisense	16.92109	36.31916	1.097431	0.000808
AC087379.2 ENSG00000254695 lincRNA	1.277437	6.662298	1.797145	0.000848
AL596442.1 ENSG00000232197 antisense	1.00686	3.291548	1.697834	0.000871
AC093673.2 ENSG00000272619 lincRNA	0.466353	1.749009	1.303243	0.000945
AC009139.1 ENSG00000260922 antisense	0.542523	1.283472	1.280843	0.001005
AC141424.1 ENSG00000241525 antisense	0.658086	1.302336	1.001179	0.001014
AC008897.2 ENSG00000247372 antisense	0.581043	1.16863	1.024299	0.001099
LINC01446 ENSG00000205628 lincRNA	3.168834	8.163633	1.694825	0.001119

AC092131.1 ENSG00000259846 lincRNA	0.713509	1.512516	1.039322	0.001149
AC017074.2 ENSG00000233479 lincRNA	0.319972	1.46787	2.062344	0.001153
AC024559.2 ENSG00000276407 lincRNA	0.304632	0.762996	1.193162	0.00134
AL022725.1 ENSG00000236336 antisense	0.34793	0.986533	1.362257	0.001345
AC104564.4 ENSG00000264647 antisense	1.135951	2.345188	1.033182	0.001379
AL591468.1 ENSG00000226004 lincRNA	0.523508	1.066902	1.060856	0.001622
AL136537.2 ENSG00000261761 processed_transcript	1.040884	10.54705	2.406984	0.001669
AL442224.1 ENSG00000231990 lincRNA	0.641586	1.51954	1.250652	0.001694
AC040914.1 ENSG00000254372 antisense	0.451864	0.899099	1.03704	0.00173
AC069277.1 ENSG00000189229 lincRNA	2.080556	5.308855	1.541657	0.00176
PPFIA2-AS1 ENSG00000257467 lincRNA	14.1842	29.82897	1.07165	0.001786
AC104350.1 ENSG00000253523 lincRNA	0.472803	1.035138	1.092637	0.002055
GS1-594A7.3 ENSG00000225833 antisense	1.436066	2.268685	1.208306	0.002243
AC020934.2 ENSG00000267735 antisense	0.340846	0.732796	1.033303	0.002358
AC009908.1 ENSG00000253513 antisense	0.30401	0.744667	1.156941	0.002722
CR392039.3 ENSG00000279501 lincRNA	0.439549	1.9246	1.692613	0.003179
AC024132.3 ENSG00000251325 lincRNA	0.496985	1.682231	1.267552	0.003263
AC092435.1 ENSG00000248346 lincRNA	0.24377	0.733256	1.282875	0.003485
LINC02398 ENSG00000256287 lincRNA	0.822195	1.69705	1.070444	0.0042
AC005786.2 ENSG00000267231 lincRNA	0.378605	0.772805	1.092034	0.004413
AC078955.1 ENSG00000258026 antisense	0.500856	1.091392	1.068314	0.004445
AC008554.1 ENSG00000269043 lincRNA	0.509949	1.109462	1.004373	0.004467

AL596325.1 ENSG00000259788 antisense	0.309635	1.185439	1.222954	0.004952
AC106712.1 ENSG00000241280 lincRNA	0.591426	1.276926	1.107401	0.005022
AC022392.1 ENSG00000272988 lincRNA	0.537609	0.738664	1.150199	0.00517
AC083801.2 ENSG00000260377 lincRNA	0.27766	0.684298	1.153363	0.006059
AC099509.1 ENSG00000249746 lincRNA	0.451643	1.512606	1.281816	0.00644
MIR137HG ENSG00000225206 lincRNA	5.421167	39.04508	1.655922	0.007169
DSCR4 ENSG00000184029 lincRNA	0.116279	1.136475	2.052426	0.008638
AC007128.2 ENSG00000272328 lincRNA	1.384507	3.652707	1.383195	0.009048
AL157778.1 ENSG00000281566 lincRNA	0.291009	1.501526	2.113233	0.009208
AP000943.1 ENSG00000233536 lincRNA	0.675868	1.209258	1.184365	0.009215
Z97206.2 ENSG00000237567 lincRNA	49.73662	74.94323	1.153517	0.010136
AL122019.1 ENSG00000227579 lincRNA	0.724226	1.565383	1.099784	0.01045
LINC02466 ENSG00000246876 lincRNA	0.904295	2.582322	1.49998	0.010575
AC103843.1 ENSG00000255101 antisense	0.502981	1.089753	1.050555	0.01098
AL157387.1 ENSG00000234918 lincRNA	11.51404	33.32962	1.684542	0.011706
LINC02163 ENSG00000251026 lincRNA	3.818454	11.05466	1.533875	0.011825
AC078820.1 ENSG00000258088 lincRNA	0.247192	0.755281	1.29673	0.012362
AC112493.1 ENSG00000242021 lincRNA	1.625251	3.665025	1.15229	0.014532
AC096734.1 ENSG00000251517 lincRNA	0.315943	1.008444	1.125227	0.014914
AC107419.1 ENSG00000228933 lincRNA	5.122481	10.94769	1.088643	0.016186
AP000769.3 ENSG00000279243 lincRNA	0.453668	0.984463	1.066421	0.017935
TLX1NB ENSG00000236311 lincRNA	0.24648	0.720146	1.167428	0.018301

AL117382.1 ENSG00000226812 antisen se	0.219496	0.620734	1.200498	0.0188 44
AC010595.1 ENSG00000250874 lincRN A	0.248807	1.076083	1.734134	0.0206 17
LINC01214 ENSG00000243550 lincRNA	0.328079	0.765471	1.06404	0.0207 74
BX005019.1 ENSG00000259946 lincRNA	0.289252	1.361166	1.666793	0.0209 25
AP003550.1 ENSG00000254236 antisen se	0.128616	0.603728	1.455329	0.0209 72
AC019103.1 ENSG00000250259 lincRN A	0.18692	0.738366	1.55238	0.0244 81
Z82214.2 ENSG00000236272 antisense	0.247979	0.72868	1.275493	0.0251 27
AP005121.1 ENSG00000263618 lincRN A	0.929192	1.159012	1.495331	0.0260 32
AC128709.2 ENSG00000235126 lincRN A	0.154838	0.532751	1.196756	0.0265 99
AC098934.4 ENSG00000260021 antisen se	0.196401	0.813491	1.17912	0.0340 18
LINC01632 ENSG00000277199 lincRNA	0.436626	1.583871	1.365521	0.0397
AC104831.1 ENSG00000242790 lincRN A	1.221095	4.345699	1.069961	0.0464 68
AC103808.6 ENSG00000266743 lincRN A	0.510027	1.193004	1.150721	0.0468 2
AL354863.1 ENSG00000238276 process ed_transcript	7.71649	12.86649	1.236258	0.0469 57
AC020571.1 ENSG00000229056 antisen se	1109.242	527.3623	-1.07286	1.79E- 13
AC010327.3 ENSG00000267577 antisen se	25.59962	9.586386	-2.62403	1.47E- 10
RMDN2-AS1 ENSG00000235848 antisen se	22.42528	9.515616	-1.23304	2.62E- 10
AL031663.3 ENSG00000277022 lincRNA	18.45962	7.749175	-1.24231	4.97E- 10
AGBL1-AS1 ENSG00000260125 antisens e	6.906444	5.69764	-2.10579	5.25E- 08
FP671120.3 ENSG00000280800 lincRNA	16.10485	0.387636	-2.8461	2.34E- 07
AC147651.1 ENSG00000229380 antisen se	6.029871	2.557739	-1.22474	3.70E- 07
LINC01698 ENSG00000231648 lincRNA	13.32582	10.09252	-1.5341	4.98E- 07



AC026469.1 ENSG00000275088 lincRNA	10.95408	4.1922	-1.07421	1.87E-06
AL354714.1 ENSG00000198358 antisense	4.872881	3.17182	-1.01611	4.84E-06
AC104137.1 ENSG00000248479 lincRNA	11.13705	5.355268	-1.05506	4.87E-06
LINC02055 ENSG00000254101 lincRNA	6.569701	3.053603	-1.86353	1.06E-05
AC116025.1 ENSG00000261978 antisense	6.4199	3.113259	-1.05774	1.77E-05
AC007750.1 ENSG00000236841 antisense	148.6496	64.71382	-1.19953	1.96E-05
AP002478.2 ENSG00000266513 sense_intronic	1.279814	0.440984	-1.55208	2.64E-05
LINC02120 ENSG00000248279 lincRNA	22.40922	6.704046	-1.41957	2.94E-05
AC018358.1 ENSG00000281160 antisense	3.597481	1.580827	-1.17971	4.45E-05
AP001269.2 ENSG00000267079 lincRNA	1.861281	0.84653	-1.1158	5.03E-05
AL449403.2 ENSG00000275465 lincRNA	14.42162	6.521651	-1.14293	6.57E-05
AC113192.1 ENSG00000254619 lincRNA	1.306743	0.419279	-1.70828	7.45E-05
AC246817.2 ENSG00000254319 lincRNA	28.07094	19.26867	-1.13376	9.71E-05
AP001094.3 ENSG00000266149 antisense	20.43386	10.21921	-1.00176	0.000124
AC084816.1 ENSG00000256995 lincRNA	1.412549	0.551978	-1.32521	0.000176
AL138881.1 ENSG00000228793 lincRNA	36.16108	17.20624	-1.16974	0.000271
LINC01187 ENSG00000249601 lincRNA	10.37152	6.845305	-1.28066	0.000296
C17orf77 ENSG00000182352 antisense	9.561159	6.567937	-1.44085	0.000415
AC113192.4 ENSG00000255169 lincRNA	2.665437	1.087269	-1.31341	0.000452
LINC01139 ENSG00000215808 lincRNA	23.78963	11.11883	-1.09643	0.000494
U95743.1 ENSG00000262267 lincRNA	5.207668	2.196374	-1.23131	0.000597
LINC02064 ENSG00000248391 lincRNA	1.896448	0.777163	-1.25063	0.000599

LINC01344 ENSG00000228918 lincRNA	2.124751	1.036982	-1.0448	0.000685
LINC02199 ENSG00000250198 lincRNA	0.977953	0.708383	-1.56998	0.00089
LINC00336 ENSG00000197251 lincRNA	1.150679	0.55006	-1.08443	0.001159
AL158066.1 ENSG00000217576 processed_transcript	1.2502	0.59452	-1.2113	0.001177
LINC01343 ENSG00000237290 lincRNA	0.766622	0.344418	-1.10595	0.001531
AC093496.1 ENSG00000255021 lincRNA	30.45638	3.704583	-1.64847	0.002421
C5orf17 ENSG00000248874 lincRNA	38.54037	19.63957	-1.2739	0.002613
MIR1-1HG ENSG00000174407 antisense	23.48873	8.743009	-1.00227	0.002839
AC097713.1 ENSG00000228162 lincRNA	1.597669	0.731093	-1.11449	0.00369
AC015878.1 ENSG00000265751 antisense	4.392856	1.531044	-2.38225	0.004412
LINC01661 ENSG00000237460 lincRNA	0.79767	0.387757	-1.03229	0.006121
AC121342.1 ENSG00000233403 lincRNA	4.164669	1.640698	-1.12918	0.006589
PCAT5 ENSG00000280719 lincRNA	41.3794	19.20383	-1.10597	0.007802
AC098936.1 ENSG00000224717 lincRNA	0.754084	0.32494	-1.00337	0.009208
AL356277.3 ENSG00000272243 lincRNA	6.642004	2.712351	-1.29295	0.01192
AC009142.1 ENSG00000261410 antisense	1.216266	0.550181	-1.06947	0.014504
AL157414.1 ENSG00000203266 lincRNA	0.863688	0.404731	-1.03572	0.016186
LINC02270 ENSG00000251210 lincRNA	0.648485	0.175739	-1.24702	0.023368
AL161431.1 ENSG00000275216 lincRNA	1.784306	0.590855	-1.14493	0.02393
LINC01581 ENSG00000259724 lincRNA	1.491329	0.611203	-1.08724	0.027237
AL355596.1 ENSG00000259828 lincRNA	1.827645	1.312202	-1.02781	0.032676
LINC01405 ENSG00000185847 lincRNA	29.28531	12.18328	-1.35348	0.038296

AL391704.1 ENSG00000224750 lincRNA	1.387418	1.358059	-1.02264	0.04607
------------------------------------	----------	----------	----------	---------

Supplementary Data4-2:DEmiRNAs				
gene	mean of LRBM group	mean of HRBM group	log2FoldChange	padj
hsa-mir-210	261.2413	689.144	1.399289	8.62E-17
hsa-mir-592	5.584297	22.13319	1.331864	8.83E-11
hsa-mir-653	7.418493	11.73756	0.664891	7.88E-10
hsa-mir-5680	2.816552	5.569482	0.991199	7.38E-09
hsa-mir-137	7.194244	25.86411	2.121851	1.63E-08
hsa-mir-3614	2.251066	3.466262	0.63135	0.000459
hsa-mir-7156	0.696134	1.472423	1.090436	0.000578
hsa-mir-4664	0.509845	0.95362	0.930596	0.002506
hsa-mir-767	1.240424	2.226141	1.269525	0.004606
hsa-mir-449a	5.466919	9.52474	1.162333	0.005975
hsa-mir-4501	0.844114	1.382606	0.769029	0.017915
hsa-mir-612	0.91548	1.189156	1.075234	0.020103
hsa-mir-4636	0.394895	0.649005	0.591864	0.035013
hsa-mir-105-1	0.786305	2.100403	0.928557	0.03736
hsa-mir-3662	0.29997	0.628479	0.686214	0.04795
hsa-mir-5002	0.350238	0.586783	0.642352	0.049071
hsa-mir-4766	0.469455	0.769493	0.629902	0.049951
hsa-mir-184	9.460701	6.212005	-1.48424	5.94E-09
hsa-mir-133b	97.28803	54.896	-0.82524	3.68E-08
hsa-mir-133a-1	312.1982	194.4605	-0.68289	6.91E-08
hsa-mir-133a-2	280.4872	178.0972	-0.65511	2.36E-07
hsa-mir-508	179.5153	9.037174	-0.98947	2.10E-06
hsa-mir-6510	26.67336	13.66561	-0.96154	2.74E-06
hsa-mir-23c	2.928975	1.335848	-1.12683	5.76E-06
hsa-mir-7641-	1.276956	0.367302	-1.75107	2.19E-05

1				
hsa-mir-6715b	8.748858	3.686533	-1.0408	6.84E-05
hsa-mir-891a	20.74194	12.63247	-0.71985	6.84E-05
hsa-mir-7641-2	0.88773	0.285565	-1.44272	0.000534
hsa-mir-514a-1	13.38529	1.025652	-1.09355	0.000747
hsa-mir-1258	5.779094	3.686174	-0.61435	0.001214
hsa-mir-378d-1	1.165537	0.749523	-0.67395	0.003631
hsa-mir-509-1	9.281989	0.698164	-0.92454	0.008238
hsa-mir-3622a	1.003318	0.635903	-0.6416	0.010377
hsa-mir-514a-3	13.50021	1.226487	-0.76929	0.01278
hsa-mir-514a-2	13.68334	1.358583	-0.74592	0.013026
hsa-mir-499a	3.163858	2.701792	-0.69831	0.013241
hsa-mir-509-3	11.26123	0.764107	-0.86811	0.015366
hsa-mir-509-2	9.179771	0.737556	-0.88285	0.019274

Supplementary Data4-3:DEmRNAs					
gene	mean of LRBM group	mean of HRBM group	log2FoldChange	padj	
NETO1 ENSG00000166342 protein_coding	27.15553362	304.4266401	3.39337	6.71E-30	
UBE2C ENSG00000175063 protein_coding	170.1506608	510.1268994	1.584716	6.11E-29	
TICRR ENSG00000140534 protein_coding	68.78937596	138.2248842	1.004883	4.43E-27	
MYBL2 ENSG00000101057 protein_coding	248.2171393	667.9170427	1.427815	2.84E-26	
CENPA ENSG00000115163 protein_coding	47.49012856	123.0165576	1.372467	2.91E-25	
ORC6 ENSG00000091651 protein_coding	78.8260329	158.0682171	1.004785	2.91E-25	
KIF18B ENSG00000186185 protein_coding	61.886546	157.359111	1.344587	4.21E-	

ng	54	6		25
RAD54L ENSG00000085999 protein_coding	53.54047146	117.0030017	1.125885	1.68E-24
CDC20 ENSG00000117399 protein_coding	209.9495882	489.7098139	1.221758	5.55E-24
SHCBP1 ENSG00000171241 protein_coding	71.23556821	158.6929225	1.154959	7.65E-24
PKMYT1 ENSG00000127564 protein_coding	153.5820711	318.9604388	1.054183	1.37E-23
PLK1 ENSG00000166851 protein_coding	180.9160403	376.5091575	1.056918	2.79E-23
TPX2 ENSG00000088325 protein_coding	376.0229466	832.8294228	1.146879	2.79E-23
TROAP ENSG00000135451 protein_coding	110.8512914	252.7883854	1.189564	7.19E-23
UTS2B ENSG00000188958 protein_coding	28.21694414	141.9021165	2.095441	1.07E-22
POLQ ENSG00000051341 protein_coding	49.23379832	112.0158303	1.182658	2.07E-22
NUF2 ENSG00000143228 protein_coding	63.45344636	135.4787743	1.093786	2.32E-22
PTPRR ENSG00000153233 protein_coding	42.66492278	351.2890524	2.005415	4.94E-22
MCM10 ENSG00000065328 protein_coding	44.08995242	102.7311374	1.216905	5.03E-22
CDKN3 ENSG00000100526 protein_coding	83.33538227	172.2731209	1.046928	7.23E-22
EXO1 ENSG00000174371 protein_coding	56.18046798	124.0383575	1.13859	1.06E-21
SUCNR1 ENSG00000198829 protein_coding	51.80892836	430.8736002	2.05773	2.73E-21
KIF15 ENSG00000163808 protein_coding	102.3524725	213.9613303	1.062386	4.86E-21
MELK ENSG00000165304 protein_coding	111.9288611	249.2078146	1.153372	4.86E-21
INSM2 ENSG00000168348 protein_coding	2.235753544	21.98545493	2.783232	5.21E-21
CDK1 ENSG00000170312 protein_coding	317.2413161	684.5634118	1.10938	6.08E-21
KIF4A ENSG00000090889 protein_coding	171.0679592	388.1306993	1.181324	6.08E-21
UHRF1 ENSG00000276043 protein_coding	120.3950211	256.7186579	1.090804	1.03E-20

ESPL1 ENSG00000135476 protein_coding	99.71199492	211.851972	1.085404	1.45E-20
NEK2 ENSG00000117650 protein_coding	84.39167807	198.6083704	1.233607	1.47E-20
BIRC5 ENSG00000089685 protein_coding	291.1705751	640.8928543	1.138329	3.10E-20
ASF1B ENSG00000105011 protein_coding	200.4636169	408.0338171	1.02457	3.40E-20
FAM72B ENSG00000188610 protein_coding	9.585061807	20.4172371	1.075957	3.40E-20
SGO1 ENSG00000129810 protein_coding	36.13915244	80.21942772	1.148073	6.03E-20
DLGAP5 ENSG00000126787 protein_coding	98.10358003	216.9948557	1.144025	1.19E-19
EFNA3 ENSG00000143590 protein_coding	167.5430742	348.9844078	1.059713	1.74E-19
BUB1 ENSG00000169679 protein_coding	161.4451886	341.6848051	1.080451	1.86E-19
COL11A1 ENSG00000060718 protein_coding	100.6922355	133.2059591	1.891483	2.39E-19
IQGAP3 ENSG00000183856 protein_coding	165.9229413	351.9630384	1.084429	2.72E-19
CBX2 ENSG00000173894 protein_coding	212.0243516	462.4560852	1.125108	2.81E-19
RRM2 ENSG00000171848 protein_coding	354.756884	776.2249808	1.129205	3.05E-19
SYT4 ENSG00000132872 protein_coding	116.4260089	517.5414346	2.44689	4.95E-19
NUSAP1 ENSG00000137804 protein_coding	325.3788802	660.874498	1.02168	6.29E-19
MTRF2 ENSG00000146410 protein_coding	21.37343419	43.09334906	1.00562	1.37E-18
NCAPG ENSG00000109805 protein_coding	112.6870927	237.0773391	1.071995	3.04E-18
KIF20A ENSG00000112984 protein_coding	165.4435001	359.3774421	1.118746	3.72E-18
CKAP2L ENSG00000169607 protein_coding	62.59353613	136.3941355	1.121124	4.29E-18
PNMA5 ENSG00000198883 protein_coding	2.376691582	53.95010454	2.38516	5.21E-18
LIPF ENSG00000182333 protein_coding	2.934990394	1565.715082	5.037251	8.23E-18
HOXB5 ENSG00000120075 protein_coding	17.50194917	31.02549784	1.603758	1.06E-17

ANLN ENSG00000011426 protein_coding	193.2785863	408.949242	1.080329	1.18E-17
NCAPH ENSG00000121152 protein_coding	111.0796271	224.811448	1.01588	2.10E-17
CENPF ENSG00000117724 protein_coding	428.6132485	890.0473507	1.05383	2.35E-17
HOXD1 ENSG00000128645 protein_coding	19.90912907	69.38620597	1.980592	2.58E-17
CEP55 ENSG00000138180 protein_coding	105.8285185	223.1587978	1.073763	3.35E-17
TOP2A ENSG00000131747 protein_coding	699.8175403	1526.760724	1.125223	3.93E-17
NEIL3 ENSG00000109674 protein_coding	19.33802505	43.55579859	1.165385	9.26E-17
SERPINI1 ENSG00000163536 protein_coding	489.2070087	1167.849835	1.25535	9.84E-17
NCAM2 ENSG00000154654 protein_coding	269.6563626	668.2987104	1.514659	1.21E-16
GTSE1 ENSG00000075218 protein_coding	109.5203877	221.5761032	1.016109	1.53E-16
CDC25C ENSG00000158402 protein_coding	49.49097027	99.24381684	1.00406	2.07E-16
KLK14 ENSG00000129437 protein_coding	160.3737285	462.4439725	1.781653	2.30E-16
FAM72D ENSG00000215784 protein_coding	4.519289203	10.21458859	1.192124	3.30E-16
KIF14 ENSG00000118193 protein_coding	47.41849769	99.57402252	1.067599	1.06E-15
THBS2 ENSG00000186340 protein_coding	1709.775493	2888.208559	1.025935	2.96E-15
TUBB3 ENSG00000258947 protein_coding	35.84164571	82.21696207	1.19578	3.57E-15
EFNA2 ENSG00000099617 protein_coding	7.280486342	23.41073109	1.690546	4.18E-15
KRT75 ENSG00000170454 protein_coding	15.53551938	47.0820355	2.126786	4.58E-15
ASPM ENSG00000066279 protein_coding	126.7887162	264.406398	1.058856	6.22E-15
HJURP ENSG00000123485 protein_coding	178.1488793	367.1515987	1.043037	6.24E-15
PBK ENSG00000168078 protein_coding	80.28501012	169.0648404	1.073109	6.74E-15
SGK2 ENSG00000101049 protein_coding	48.92088677	125.1915838	1.355807	9.77E-15

DEPDC1B ENSG00000035499 protein_coding	74.36828132	153.0511106	1.040034	6.44E-14
SSTR1 ENSG00000139874 protein_coding	762.2074702	2026.157839	1.410517	1.22E-13
CTHRC1 ENSG00000164932 protein_coding	278.6066037	442.723946	1.010921	1.97E-13
RDM1 ENSG00000278023 protein_coding	10.22573368	21.29616862	1.061828	2.51E-13
PLEKHD1 ENSG00000175985 protein_coding	19.78704153	41.1822533	1.061277	4.16E-13
AKR1C3 ENSG00000196139 protein_coding	240.4155667	518.3709178	1.108767	6.93E-13
BMP6 ENSG00000153162 protein_coding	370.8620688	783.3268508	1.078948	8.51E-13
CAMKV ENSG00000164076 protein_coding	4.745831218	30.2571365	1.886628	1.23E-12
E2F8 ENSG00000129173 protein_coding	33.67394131	68.61767363	1.023113	1.43E-12
DNAH8 ENSG00000124721 protein_coding	1475.247515	3433.710147	1.523547	3.57E-12
UGT2B15 ENSG00000196620 protein_coding	52.45212123	131.2621319	1.803824	4.53E-12
SCRT1 ENSG00000261678 protein_coding	3.841716967	23.98900963	1.197497	9.35E-12
MYT1 ENSG00000196132 protein_coding	49.35823376	158.0544178	1.678535	1.16E-11
MUC1 ENSG00000185499 protein_coding	1242.155985	2937.868383	1.241927	1.26E-11
PTK6 ENSG00000101213 protein_coding	614.8531393	1295.920662	1.075653	3.00E-11
EOMES ENSG00000163508 protein_coding	43.19780976	96.39115045	1.155663	3.11E-11
COL10A1 ENSG00000123500 protein_coding	453.9047021	759.116208	1.320095	3.81E-11
IFI44L ENSG00000137959 protein_coding	460.4996621	938.7982605	1.027903	4.64E-11
CELSR3 ENSG00000008300 protein_coding	300.916533	618.2586197	1.039042	9.57E-11
S100P ENSG00000163993 protein_coding	726.9955498	1618.352579	1.520938	9.61E-11
OMP ENSG00000254550 protein_coding	4.67261063	11.15725314	1.248435	1.01E-10
HTR2A ENSG00000102468 protein_coding	11.72012019	25.88493452	1.143982	1.64E-10



HOXB6 ENSG00000108511 protein_coding	34.40838945	56.6334882	1.018765	1.92E-10
CST2 ENSG00000170369 protein_coding	718.3465453	1632.081965	1.470239	2.14E-10
PDIA2 ENSG00000185615 protein_coding	96.35176931	288.2029444	1.581974	2.36E-10
FNDC1 ENSG00000164694 protein_coding	107.7344583	153.5520622	1.118859	3.06E-10
MAGEA8 ENSG00000156009 protein_coding	7.842683696	30.97650529	1.668845	3.06E-10
FGB ENSG00000171564 protein_coding	15.86237548	134.3820205	3.15592	3.18E-10
LHX2 ENSG00000106689 protein_coding	5.669855772	13.5385162	1.267422	3.99E-10
ZBBX ENSG00000169064 protein_coding	12.98785696	36.21470582	1.798234	4.89E-10
FAM72C ENSG00000263513 protein_coding	2.817033615	5.910498521	1.094672	4.95E-10
LRTM2 ENSG00000166159 protein_coding	4.3720224	15.33975593	1.421352	1.31E-09
MAB21L2 ENSG00000181541 protein_coding	8.46093593	18.25121112	1.12601	1.36E-09
ZPLD1 ENSG00000170044 protein_coding	1.322770979	3.530349158	1.449131	2.41E-09
TTC29 ENSG00000137473 protein_coding	14.79242137	34.1944224	1.520848	2.51E-09
CDC20B ENSG00000164287 protein_coding	50.77245127	483.6451572	1.729127	3.77E-09
A1CF ENSG00000148584 protein_coding	18.86801044	48.70315339	1.639357	6.59E-09
ODF3L2 ENSG00000181781 protein_coding	15.52562915	32.42101452	1.064747	6.92E-09
DHRS2 ENSG00000100867 protein_coding	104.3925647	547.6246756	1.311062	6.96E-09
C6orf10 ENSG00000204296 protein_coding	4.129058247	32.47222065	1.751499	7.25E-09
HTR1F ENSG00000179097 protein_coding	5.979435654	12.44271495	1.04891	8.03E-09
BARX1 ENSG00000131668 protein_coding	10.45066846	26.57431845	1.350808	8.48E-09
DIRAS2 ENSG00000165023 protein_coding	65.56205534	173.7028985	1.405485	9.70E-09
RAB3C ENSG00000152932 protein_coding	18.95989505	38.88793522	1.036568	2.31E-08

SI ENSG00000090402 protein_coding	354.2966557	929.5965287	1.391539	2.43E-08
DQX1 ENSG00000144045 protein_coding	10.3007988	27.07765783	1.105081	3.05E-08
PCDHGA5 ENSG00000253485 protein_coding	326.6614556	673.3254174	1.043436	3.19E-08
ARHGDIG ENSG00000242173 protein_coding	138.9181691	293.3847196	1.08093	3.58E-08
DMBX1 ENSG00000197587 protein_coding	3.344948563	7.445152673	1.149339	5.17E-08
GRIK1 ENSG00000171189 protein_coding	152.4237445	353.3016055	1.212819	6.01E-08
ACY3 ENSG00000132744 protein_coding	57.40363795	440.3301713	1.286269	7.90E-08
TUNAR ENSG00000250366 protein_coding	38.46562351	111.0731132	1.770529	9.00E-08
CA1 ENSG00000133742 protein_coding	4.582838903	10.22448419	1.749662	9.89E-08
CCDC194 ENSG00000269720 protein_coding	0.995184105	5.986367478	1.528257	1.10E-07
TEX19 ENSG00000182459 protein_coding	1.019521599	2.42676782	1.202358	1.67E-07
SLC9A3 ENSG00000066230 protein_coding	100.4358579	209.2067083	1.057969	2.33E-07
FAM135B ENSG00000147724 protein_coding	40.50337111	99.16844219	1.292561	2.43E-07
AKR1D1 ENSG00000122787 protein_coding	4.630258566	9.60348768	1.349796	3.05E-07
HIST1H3B ENSG00000274267 protein_coding	2.756117059	6.696680512	1.28093	3.18E-07
IL36RN ENSG00000136695 protein_coding	10.60717067	27.66429071	1.387746	3.18E-07
WFDC5 ENSG00000175121 protein_coding	50.25068263	212.3805826	1.45405	3.94E-07
HIST1H3C ENSG00000278272 protein_coding	3.417190215	7.502142568	1.137322	4.04E-07
CST5 ENSG00000170367 protein_coding	6.371963379	11.92059986	1.16521	4.46E-07
BRS3 ENSG00000102239 protein_coding	0.492803493	1.522274437	1.717721	4.70E-07
MATN4 ENSG00000124159 protein_coding	9.198508289	24.55234146	1.080706	6.49E-07
FOXG1 ENSG00000176165 protein_coding	7.007541225	13.08637713	2.379006	6.85E-07

MAGEA1 ENSG00000198681 protein_coding	1.816198245	35.99456507	3.461184	7.47E-07
OPRK1 ENSG00000082556 protein_coding	419.1943196	842.9052192	1.007591	7.47E-07
ASZ1 ENSG00000154438 protein_coding	2.353525008	19.54261083	1.621493	1.10E-06
NKX6-1 ENSG00000163623 protein_coding	32.90444412	89.17425124	1.43761	1.38E-06
ANO3 ENSG00000134343 protein_coding	32.82203637	36.35669198	1.100239	1.82E-06
VWA5B1 ENSG00000158816 protein_coding	62.17154805	221.1171698	1.531688	1.82E-06
C5orf46 ENSG00000178776 protein_coding	16.27791753	35.58417531	1.13049	1.83E-06
CCDC144NL ENSG00000205212 protein_coding	14.94152924	43.47109418	1.228983	2.48E-06
RFX6 ENSG00000185002 protein_coding	82.945683	186.4445286	1.168548	2.87E-06
TYRP1 ENSG00000107165 protein_coding	40.48628205	86.30692453	1.09255	4.82E-06
DGKK ENSG00000274588 protein_coding	7.058782018	28.95307244	1.081806	5.78E-06
ZNF556 ENSG00000172000 protein_coding	34.40526279	86.06196258	1.321238	5.97E-06
KCNQ2 ENSG00000075043 protein_coding	125.8608435	343.4536683	1.200541	6.52E-06
AVPR1B ENSG00000198049 protein_coding	3.086727596	11.08243159	1.101606	7.95E-06
OTOR ENSG00000125879 protein_coding	2.064396372	10.38930071	1.876689	1.72E-05
HAND1 ENSG00000113196 protein_coding	0.945855137	3.215906139	1.771626	1.79E-05
AP002373.1 ENSG00000255663 protein_coding	0.583488364	1.445583568	1.331538	1.89E-05
TRPC5OS ENSG00000204025 protein_coding	0.404611826	0.915342492	1.143546	1.92E-05
MUC6 ENSG00000184956 protein_coding	901.9215107	1881.274976	1.583262	1.93E-05
TUBA4B ENSG00000243910 protein_coding	23.1771235	23.9616762	1.234232	2.01E-05
CLRN3 ENSG00000180745 protein_coding	1.653029137	7.692290912	1.228037	2.04E-05
ADAM18 ENSG00000168619 protein_coding	1.604581943	3.588764605	1.555583	2.15E-05

CALML5 ENSG00000178372 protein_coding	3.94936597	143.3264271	1.176178	2.30E-05
TM4SF20 ENSG00000168955 protein_coding	1.714362768	15.70553242	1.327753	2.38E-05
SOX11 ENSG00000176887 protein_coding	7.82146957	13.51815258	1.141241	2.69E-05
STMN2 ENSG00000104435 protein_coding	85.41023695	170.7980044	1.000067	3.10E-05
CTAG2 ENSG00000126890 protein_coding	28.3641054	33.02625191	2.972305	3.12E-05
ATP12A ENSG00000075673 protein_coding	127.2561816	804.0908348	1.223573	3.19E-05
SLC17A4 ENSG00000146039 protein_coding	29.70293551	71.76673499	1.611312	3.25E-05
KCNK4 ENSG00000182450 protein_coding	0.445615278	1.054929458	1.219146	3.36E-05
KHDC1L ENSG00000256980 protein_coding	7.709907134	26.49770586	1.135921	3.36E-05
PAEP ENSG00000122133 protein_coding	2.152418403	5.717115147	1.52631	3.63E-05
ASIC2 ENSG00000108684 protein_coding	55.77603816	123.5523609	1.147163	4.37E-05
CER1 ENSG00000147869 protein_coding	0.887034189	1.672919602	1.356887	4.38E-05
FCRL2 ENSG00000132704 protein_coding	18.83686457	25.44743377	1.014591	4.63E-05
HIST1H2AJ ENSG00000276368 protein_coding	0.967572939	1.991942237	1.085918	4.87E-05
PPFIA2 ENSG00000139220 protein_coding	481.0711157	1029.000932	1.096883	6.28E-05
IBSP ENSG00000029559 protein_coding	3.675471268	6.812618331	1.553161	7.65E-05
HIST1H4A ENSG00000278637 protein_coding	0.47745762	1.213962048	1.348654	7.82E-05
AL928654.3 ENSG00000257341 protein_coding	0.701651778	1.480322279	1.0708	8.20E-05
DDX53 ENSG00000184735 protein_coding	0.806755876	3.467968173	2.291538	8.62E-05
OTOP3 ENSG00000182938 protein_coding	3.599132312	12.44214553	1.345604	0.000101
UGT1A1 ENSG00000241635 protein_coding	12.98410829	46.91576673	1.522706	0.000116
UGT2B17 ENSG00000197888 protein_coding	9.092144507	17.36089317	1.154037	0.000134

ABCC11 ENSG00000121270 protein_coding	612.7897259	972.4698512	1.022437	0.000141
SCRT2 ENSG00000215397 protein_coding	0.290477693	9.025470505	2.121507	0.000214
ANKRD30B ENSG00000180777 protein_coding	13.53889086	18.9886804	1.017868	0.00023
TLX1 ENSG00000107807 protein_coding	2.257885925	5.981935213	1.066541	0.000263
TLX2 ENSG00000115297 protein_coding	1.308411064	2.610243724	1.033827	0.000296
OR51D1 ENSG00000197428 protein_coding	2.920398252	6.405892059	1.14756	0.000297
PSCA ENSG00000167653 protein_coding	7733.1153	16119.15048	1.059666	0.000419
HIST1H3I ENSG00000275379 protein_coding	0.601360207	3.259474327	1.51786	0.000429
LRRTM3 ENSG00000198739 protein_coding	6.651276311	33.6916746	1.055989	0.000439
CARD18 ENSG00000255501 protein_coding	0.315887122	10.89041387	3.138526	0.000507
TGM6 ENSG00000166948 protein_coding	1.758196089	2.532490419	1.056457	0.000531
ADGB ENSG00000118492 protein_coding	6.773775065	8.099581556	1.023455	0.000572
HIST1H3F ENSG00000277775 protein_coding	1.289411693	2.645032917	1.024478	0.000573
PLAC1 ENSG00000170965 protein_coding	1.66324769	3.389720705	1.050852	0.000681
RP1 ENSG00000104237 protein_coding	2.158738222	3.795483563	1.119381	0.000698
C9orf135 ENSG00000204711 protein_coding	2.955773224	6.195641557	1.084103	0.000894
ANKRD34B ENSG00000189127 protein_coding	377.2573853	823.9382616	1.12696	0.000925
CCDC166 ENSG00000255181 protein_coding	0.512391747	1.107018955	1.091715	0.001093
CHAT ENSG00000070748 protein_coding	3.000920514	32.7100541	1.395798	0.00134
OR1Q1 ENSG00000165202 protein_coding	0.409479518	1.034700275	1.157107	0.002175
OR1J1 ENSG00000136834 protein_coding	0.381791068	0.901484714	1.140166	0.002326
LHX9 ENSG00000143355 protein_coding	9.042210941	24.33526657	1.027462	0.002502

CRISP3 ENSG00000096006 protein_coding	7842.244656	16311.42259	1.056543	0.002611
ANKRD30A ENSG00000148513 protein_coding	41.92723925	93.63940313	1.337625	0.002686
SERPINA4 ENSG00000100665 protein_coding	85.05830033	89.81011418	1.115328	0.002888
GPR149 ENSG00000174948 protein_coding	3.768578485	7.955490455	1.730461	0.003191
CLPSL1 ENSG00000204140 protein_coding	1.301025278	2.612442586	1.40674	0.003257
IAPP ENSG00000121351 protein_coding	27.4523073	31.01489851	1.233546	0.003311
LHFPL5 ENSG00000197753 protein_coding	0.629802595	1.383703782	1.121535	0.003388
B3GNT6 ENSG00000198488 protein_coding	531.2110062	1085.183366	1.030501	0.003998
C16orf92 ENSG00000167194 protein_coding	0.238663266	0.700118247	1.272965	0.004234
MAGEA12 ENSG00000213401 protein_coding	5.34147082	11.95462276	1.229727	0.00505
KLHL1 ENSG00000150361 protein_coding	10.79917182	32.5829923	1.035677	0.00518
SLC13A1 ENSG00000081800 protein_coding	0.605887349	1.310081564	1.088826	0.00557
FDCSP ENSG00000181617 protein_coding	16.08770245	25.42384894	1.167052	0.00557
CSAG2 ENSG00000268902 protein_coding	1.102275719	1.647537999	1.000313	0.006411
SIM1 ENSG00000112246 protein_coding	1.561402609	6.517429629	1.119748	0.006499
DYTN ENSG00000232125 protein_coding	27.35588225	57.76317913	1.079343	0.008531
PLA2G2E ENSG00000188784 protein_coding	0.834453457	1.945395978	1.236242	0.009904
SLC17A1 ENSG00000124568 protein_coding	1.244916647	2.549702622	1.097167	0.011641
CT45A10 ENSG00000269586 protein_coding	0.119802569	10.22385892	3.067674	0.012609
REG1A ENSG00000115386 protein_coding	10.61963215	21.40554538	1.197719	0.013831
MAGEA6 ENSG00000197172 protein_coding	8.093728173	18.32006368	2.034949	0.014617
UGT2A3 ENSG00000135220 protein_coding	0.780726231	6.611336347	1.524122	0.018595

APOH ENSG00000091583 protein_coding	22.30775308	57.82441037	1.329214	0.020076
DCAF4L2 ENSG00000176566 protein_coding	2.389995928	7.027840399	2.345518	0.020658
CPN1 ENSG00000120054 protein_coding	2.013116707	4.278660022	1.179894	0.023129
FGA ENSG00000171560 protein_coding	19.33134206	35.36733038	1.787218	0.026852
SPRR2F ENSG00000244094 protein_coding	0.941306052	2.165465937	1.210606	0.027787
ASIC5 ENSG00000256394 protein_coding	4.595709637	7.312950034	1.222933	0.032246
C3orf30 ENSG00000163424 protein_coding	0.928427758	3.232051142	1.383048	0.032316
IFNL3 ENSG00000197110 protein_coding	0.219013501	0.654344007	1.282685	0.032919
AKR1C4 ENSG00000198610 protein_coding	1.230094615	1.976567025	1.041173	0.033473
HRG ENSG00000113905 protein_coding	3.245466087	3.755477239	1.077301	0.036557
APOA2 ENSG00000158874 protein_coding	17.70761012	44.97787907	1.497373	0.037169
ZNF280A ENSG00000169548 protein_coding	0.22866832	0.592914862	1.101173	0.039035
TRIM49B ENSG00000182053 protein_coding	0.377307279	1.994111303	1.223879	0.040085
SLC18A3 ENSG00000187714 protein_coding	13.54654393	48.17690044	1.005844	0.044434
PAH ENSG00000171759 protein_coding	212.2538632	43.74090043	-2.8991	2.48E-23
PROK1 ENSG00000143125 protein_coding	231.8181409	80.30976022	-1.52928	1.27E-15
FMOD ENSG00000122176 protein_coding	15898.7405	7917.205683	-1.00586	2.31E-13
CHI3L2 ENSG00000064886 protein_coding	573.8972866	178.2515231	-1.6869	3.42E-13
CHRNA2 ENSG00000120903 protein_coding	9460.848073	4599.241112	-1.04059	8.16E-12
CDC42EP5 ENSG00000167617 protein_coding	2176.388791	1011.224608	-1.10581	1.81E-11
CA14 ENSG00000118298 protein_coding	116.7423807	58.15671704	-1.00531	1.81E-11
CPNE6 ENSG00000100884 protein_coding	166.359627	61.36188108	-1.43822	2.08E-11

RPE65 ENSG00000116745 protein_coding	47.31579773	15.89098367	-1.57447	2.82E-11
SCGB3A1 ENSG00000161055 protein_coding	240.0993377	152.9084395	-1.42024	1.48E-10
CD38 ENSG00000004468 protein_coding	3618.286695	1422.528531	-1.34684	3.98E-10
SAA2 ENSG00000134339 protein_coding	261.2713305	105.0963787	-1.65738	4.60E-10
IGSF1 ENSG00000147255 protein_coding	122.0917554	53.65197093	-1.18516	5.10E-10
PHYHD1 ENSG00000175287 protein_coding	2029.505762	994.4860385	-1.02905	1.29E-09
SLC5A8 ENSG00000256870 protein_coding	118.8836569	43.2515031	-1.45718	1.33E-09
AL049839.2 ENSG00000273259 protein_coding	45.23110469	24.40884042	-1.26046	1.44E-09
TG ENSG00000042832 protein_coding	1729.514954	305.2280415	-1.30603	1.60E-09
RAMACL ENSG00000235272 protein_coding	8.384769968	4.098970946	-1.62767	1.77E-09
LY6G6F-LY6G6D ENSG00000250641 protein_coding	12.2102142	10.42559572	-1.28534	3.12E-09
SLC18A2 ENSG00000165646 protein_coding	139.0643671	63.91862005	-1.1207	4.95E-09
GFAP ENSG00000131095 protein_coding	84.97054922	58.36063347	-1.35268	4.97E-09
LY6G6D ENSG00000244355 protein_coding	11.99064355	9.74760828	-1.25434	1.37E-08
INSYN2B ENSG00000204767 protein_coding	10.91492027	4.375502118	-1.3142	2.23E-08
NPR3 ENSG00000113389 protein_coding	3971.871291	1747.324996	-1.18468	3.15E-08
IP6K3 ENSG00000161896 protein_coding	140.9029883	67.16882186	-1.06755	3.44E-08
ORM1 ENSG00000229314 protein_coding	6886.633853	4465.874095	-2.23701	3.94E-08
LCN2 ENSG00000148346 protein_coding	3600.681074	1457.620794	-1.30469	4.04E-08
FAM3D ENSG00000198643 protein_coding	2277.328522	1114.023621	-1.03152	6.76E-08
PEBP4 ENSG00000134020 protein_coding	2007.733812	943.232648	-1.08995	6.85E-08
SLC7A14 ENSG00000013293 protein_coding	12.52553364	9.019873192	-1.06413	1.14E-07



MAB21L1 ENSG00000180660 protein_coding	136.952063	52.79801229	-1.2371	1.63E-07
ANPEP ENSG00000166825 protein_coding	27862.6639	11227.60992	-1.31128	1.75E-07
CLCA2 ENSG00000137975 protein_coding	137.9429572	67.82325713	-1.34971	1.80E-07
GABRQ ENSG00000268089 protein_coding	79.55508425	38.5857124	-1.0427	1.92E-07
TMEM213 ENSG00000214128 protein_coding	19.42977689	10.48475978	-1.33068	2.09E-07
CXCL5 ENSG00000163735 protein_coding	140.5227733	63.85481741	-1.38199	2.10E-07
EDN3 ENSG00000124205 protein_coding	109.7523056	87.6828868	-1.06484	2.31E-07
KCTD8 ENSG00000183783 protein_coding	45.00198108	21.68149094	-1.05665	2.59E-07
LRTM1 ENSG00000144771 protein_coding	16.8743918	3.486405057	-2.47322	2.98E-07
CKM ENSG00000104879 protein_coding	2136.636615	685.5543647	-1.34474	5.00E-07
CST4 ENSG00000101441 protein_coding	49.08227609	85.37104137	-1.26948	5.14E-07
SLC7A4 ENSG00000099960 protein_coding	408.7607077	186.0424316	-1.13547	7.91E-07
MGAM2 ENSG00000257743 protein_coding	15.58605713	7.014883467	-1.14885	9.88E-07
ITLN2 ENSG00000158764 protein_coding	72.22674445	38.59050026	-1.00773	1.88E-06
CRYBA4 ENSG00000196431 protein_coding	23.64276729	13.3361026	-1.78776	2.91E-06
ARSF ENSG00000062096 protein_coding	4.823620567	2.151419695	-1.15849	3.39E-06
GPX5 ENSG00000224586 protein_coding	21.56406375	10.6507571	-1.39353	5.21E-06
SLC1A6 ENSG00000105143 protein_coding	6.436020861	3.208578549	-1.00652	6.18E-06
GRP ENSG00000134443 protein_coding	126.0880585	29.35698312	-1.02678	7.24E-06
PON1 ENSG00000005421 protein_coding	230.2983854	148.0976369	-1.49985	8.72E-06
SERPINA3 ENSG00000196136 protein_coding	326.1700055	158.7072784	-1.03916	9.36E-06
VGLL3 ENSG00000206538 protein_coding	6276.393297	2723.913516	-1.20424	9.43E-06

PCARE ENSG00000179270 protein_coding	7.951417216	3.72998934	-1.0711	1.01E-05
ZNF648 ENSG00000179930 protein_coding	2.175493853	0.875036071	-1.32054	1.15E-05
CLEC4M ENSG00000104938 protein_coding	2.642978871	1.06467621	-1.26992	1.27E-05
CDH18 ENSG00000145526 protein_coding	9.731659525	4.63772106	-1.0633	1.61E-05
CCDC169 ENSG00000242715 protein_coding	311.8613863	154.0441397	-1.01724	1.67E-05
ACTA1 ENSG00000143632 protein_coding	5365.125219	1394.117146	-1.35455	2.11E-05
NRAP ENSG00000197893 protein_coding	1631.027923	511.1379276	-1.6091	2.15E-05
OLFM4 ENSG00000102837 protein_coding	8881.471054	3773.516552	-1.2349	2.32E-05
KRT9 ENSG00000171403 protein_coding	3.758238807	1.717007351	-1.11802	2.54E-05
RLN1 ENSG00000107018 protein_coding	5364.891497	2010.533849	-1.41598	3.77E-05
CYP4F2 ENSG00000186115 protein_coding	309.3446644	488.0610562	-1.31562	4.38E-05
SAA2-SAA4 ENSG00000255071 protein_coding	28.65822492	11.06668552	-1.3894	4.48E-05
CARTPT ENSG00000164326 protein_coding	150.713089	55.12515412	-1.06908	4.93E-05
SLC39A2 ENSG00000165794 protein_coding	93.6852979	73.72114726	-1.1586	7.32E-05
TECTB ENSG00000119913 protein_coding	14.11410998	18.6855278	-1.10169	7.89E-05
SAA1 ENSG00000173432 protein_coding	727.3825565	321.5009027	-1.05816	9.15E-05
KCNG4 ENSG00000168418 protein_coding	1.107736888	0.430225977	-1.21604	9.15E-05
ATP6V0A4 ENSG00000105929 protein_coding	38.01498318	23.24280486	-1.02766	0.000104
SOHLH2 ENSG00000120669 protein_coding	76.58939058	37.43480831	-1.0322	0.000108
SMCO1 ENSG00000214097 protein_coding	10.51623179	3.68422124	-1.18461	0.000143
UNC45B ENSG00000141161 protein_coding	85.66893047	38.60252523	-1.14755	0.000157
CCK ENSG00000187094 protein_coding	487.2643207	236.2525866	-1.04426	0.000162

PADI3 ENSG00000142619 protein_coding	23.00382365	13.21944642	-1.21891	0.00017
AL645922.1 ENSG00000244255 protein_coding	1.229628224	0.499431152	-1.24265	0.000179
SMR3B ENSG00000171201 protein_coding	8.113622766	1.253961016	-2.55959	0.000179
MT1B ENSG00000169688 protein_coding	5.91281192	2.874779366	-1.03093	0.000209
SYNPO2L ENSG00000166317 protein_coding	210.8570592	83.90491712	-1.13823	0.000238
MYOZ2 ENSG00000172399 protein_coding	187.6661135	56.46269316	-1.07962	0.000242
GPR101 ENSG00000165370 protein_coding	1.121478525	0.676456587	-1.12937	0.0003
FOX11 ENSG00000168269 protein_coding	97.08138605	60.6769044	-1.17504	0.000411
GCG ENSG00000115263 protein_coding	62.38311399	31.16127426	-1.00294	0.000413
TMPRSS11A ENSG00000187054 protein_coding	12.92899992	6.609850358	-1.16014	0.000989
LTF ENSG00000012223 protein_coding	53258.25965	26478.99387	-1.00816	0.000994
KRT76 ENSG00000185069 protein_coding	1.124908297	0.223242363	-1.89764	0.001043
AQP2 ENSG00000167580 protein_coding	15.1401635	27.38073868	-1.16017	0.001295
CCDC169-SOHLH2 ENSG00000250709 protein_coding	10.1949359	5.060205381	-1.00992	0.001463
PRB2 ENSG00000121335 protein_coding	3.034004886	2.351427613	-1.15953	0.001485
XIRP1 ENSG00000168334 protein_coding	407.8698325	130.7846201	-1.13502	0.001579
MUC21 ENSG00000204544 protein_coding	6.042221701	2.701674889	-1.17082	0.003069
MYH7 ENSG00000092054 protein_coding	9037.346818	2264.53185	-1.54054	0.003158
CFC1B ENSG00000152093 protein_coding	7.112607503	1.509607433	-1.23282	0.003182
COL6A5 ENSG00000172752 protein_coding	6.10821019	1.61349633	-1.17752	0.003241
ATP1B4 ENSG00000101892 protein_coding	35.15788383	14.78485786	-1.26883	0.003945
AGBL1 ENSG00000273540 protein_coding	6.323147273	2.800885132	-1.24167	0.004337

TRDN ENSG00000186439 protein_coding	431.9605221	118.022926	-1.1465	0.004815
HJV ENSG00000168509 protein_coding	33.68809191	11.00055225	-1.01048	0.005489
MT4 ENSG00000102891 protein_coding	7.044827694	0.736210661	-2.45756	0.005586
ASB10 ENSG00000146926 protein_coding	10.99816741	3.872547751	-1.33213	0.005918
MYL2 ENSG00000111245 protein_coding	3405.787571	908.3121277	-1.59721	0.006515
FBXO40 ENSG00000163833 protein_coding	52.79586364	21.67732631	-1.27171	0.006742
C10orf71 ENSG00000177354 protein_coding	103.1343892	37.98173709	-1.13185	0.009313
DHRS7C ENSG00000184544 protein_coding	4.263257001	1.684705228	-1.59992	0.009503
CCDC63 ENSG00000173093 protein_coding	2.525748552	0.916000917	-1.21202	0.009872
MYL1 ENSG00000168530 protein_coding	1608.964058	465.820773	-1.81765	0.0102
LINC02203 ENSG00000280709 protein_coding	1.615150367	0.724133182	-1.16565	0.013417
XIRP2 ENSG00000163092 protein_coding	782.9509806	250.8833846	-1.73862	0.015205
PRDM13 ENSG00000112238 protein_coding	0.875138597	0.356388349	-1.24274	0.015351
SPRR3 ENSG00000163209 protein_coding	6.993878582	2.64995672	-1.11434	0.017151
SBK2 ENSG00000187550 protein_coding	1.27510555	0.355635153	-1.13642	0.019303
KLHL40 ENSG00000157119 protein_coding	101.1023557	35.01172228	-1.17705	0.019811
LMOD2 ENSG00000170807 protein_coding	388.0128118	105.735601	-1.13463	0.022634
PPP1R3A ENSG00000154415 protein_coding	21.77228018	7.325828463	-2.20773	0.030958
DUPD1 ENSG00000188716 protein_coding	8.150130053	2.781372617	-1.51904	0.041382
OR10H2 ENSG00000171942 protein_coding	0.651935575	0.216054679	-1.16703	0.042047
SPAG11A ENSG00000178287 protein_coding	1.625139204	0.392717327	-1.34003	0.045724
OR1N2 ENSG00000171501 protein_coding	6.781910745	2.104023259	-1.89915	0.047502

