Appendix (I)

Gene expression and ontology analysis for microarray experiment.

a) **Lists of differentially expressed genes:**
    1. **Upregulated: Fh1-/- vs Fh1+/+**
    2. **Downregulated: Fh1-/- vs Fh1+/+**
    3. **Upregulated: Fh1-/- Hif-1α-/- vs Fh1+/+**
    4. **Downregulated: Fh1-/- Hif-1α-/- vs Fh1+/+**
    5. **Upregulated: Fh1-/- Hif-1α-/- vs Fh1-/-**
    6. **Downregulated: Fh1-/- Hif-1α-/- vs Fh1-/-**

b) **Gene Ontology Analysis (GSEA):**
    1. **Upregulated: Fh1-/- vs Fh1+/+**
    2. **Downregulated: Fh1-/- vs Fh1+/+**
    3. **Upregulated: Fh1-/- Hif-1α-/- vs Fh1+/+**
    4. **Downregulated: Fh1-/- Hif-1α-/- vs Fh1+/+**
    5. **Upregulated: Fh1-/- Hif-1α-/- vs Fh1-/-**
    6. **Downregulated: Fh1-/- Hif-1α-/- vs Fh1-/-**

c) **Gene Ontology Analysis (KEGG):**
    1. **Fh1-/- vs Fh1+/+**
    2. **Fh1-/- Hif-1α-/- vs Fh1+/+**
    3. **Fh1-/- Hif-1α-/- vs Fh1-/-**

Appendix I (a1)

List of upregulated genes: Fh1-/- vs Fh1+/+ kidneys.

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2883392	0.624002797	15.3859172	7.632502804	8.5036E-06	0.001636463	S100a11	Mus musculus S100 calcium binding protein A11 (calgizzarin) (S100a11), mRNA.
ILMN_1251098	0.302732225	15.29900761	3.708630224	0.003278932	0.048003159	scl0020042.1_302	
ILMN_1240350	0.390370616	14.90381813	3.981632809	0.00202938	0.036548755	LOC380692	
ILMN_1257965	0.719456992	14.8841432	6.567029661	3.49322E-05	0.003688442	Ldh1	Mus musculus lactate dehydrogenase A (Ldha), mRNA.
ILMN_2651886	0.39598436	14.87623507	5.350667442	0.000210431	0.010124002	Pgk1	
ILMN_2874228	0.470188829	14.85111147	3.860242614	0.002509584	0.04127236	Rpl12	Mus musculus ribosomal protein L12 (Rpl12), mRNA.
ILMN_1241437	0.728968321	14.82380192	6.928462229	2.129E-05	0.002731415	Gsta3	
ILMN_2536024	0.398609727	14.74511589	3.711033206	0.003265008	0.047903344	LOC383793	
ILMN_2958159	0.627495511	14.72229961	5.344077223	0.000212608	0.010187658	Eno1	Mus musculus enolase 1, alpha non-neuron (Eno1), mRNA.
ILMN_2599130	0.763122781	14.6353088	6.046253163	7.34978E-05	0.005567863	Aldoa	
ILMN_2616328	0.606361357	14.60561008	4.123658703	0.001586178	0.032268508	Fxyd2	
ILMN_2668083	0.538449302	14.50580735	4.428513312	0.00094238	0.024360602	Rpl12	
ILMN_1251449	0.691995111	14.4960336	3.708036479	0.003282382	0.048024202	Gstm2	Mus musculus glutathione S-transferase, mu 2 (Gstm2), mRNA.
ILMN_2529458	0.381989312	14.45595909	3.718350193	0.003222983	0.047544414	LOC230253	
ILMN_2677046	0.712584961	14.42021421	4.575060655	0.000736828	0.021600637	Gstp1	Mus musculus glutathione S-transferase, pi 1 (Gstp1), mRNA.
ILMN_2692845	0.863613817	14.41245396	9.001389744	1.67521E-06	0.000642591	Gpi1	
ILMN_1234314	0.503540485	14.37999495	4.468547684	0.000880869	0.023512515	LOC382790	
ILMN_1223317	1.618821956	14.35865861	8.509308772	2.93676E-06	0.000934398	Lgals3	Mus musculus lectin, galactose binding, soluble 3 (Lgals3), mRNA.
ILMN_2599618	0.516207024	14.30072585	5.517233489	0.000162563	0.008808363	Morf4l2	
ILMN_1245604	0.907191418	14.28317483	5.019223344	0.000355811	0.014044772	Cyp4a10	
ILMN_2540573	0.390959362	14.26374355	4.394019204	0.000998979	0.025271868	LOC385505	
ILMN_2866189	0.593086334	14.21813928	4.29846779	0.001175086	0.027626679	Btg1	Mus musculus B-cell translocation gene 1, anti-proliferative (Btg1), mRNA.
ILMN_2708644	0.454651141	14.11275186	4.012850454	0.001922012	0.035598834	Eef1b2	Mus musculus eukaryotic translation elongation factor 1 beta 2 (Eef1b2), mRNA.
ILMN_2740852	1.108348698	14.10064106	7.216917637	1.45114E-05	0.002178577	F2r	Mus musculus coagulation factor II (thrombin) receptor (F2r), mRNA.
ILMN_2874853	0.480070705	14.07714846	4.229989961	0.001321025	0.029377247	Eef1b2	Mus musculus eukaryotic translation elongation factor 1 beta 2 (Eef1b2), mRNA.
ILMN_2735184	0.897002238	14.03184462	6.148175498	6.33569E-05	0.005076096	Col18a1	Mus musculus procollagen, type XVIII, alpha 1 (Col18a1), mRNA.
ILMN_1221817	0.704614964	14.010533	4.407536934	0.000976387	0.024945947	Ii	

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2671517	0.443990895	13.98852202	4.22678511	0.001328302	0.029406872	Rps15	Mus musculus ribosomal protein S15 (Rps15), mRNA.
ILMN_2657175	0.501053132	13.97626691	3.733331356	0.003138669	0.046888191	Anxa2	
ILMN_2712066	0.974292382	13.93109063	9.999977846	5.75017E-07	0.000404037	Pgd	
ILMN_1254523	1.795409677	13.9287895	6.913472188	2.17245E-05	0.00277167	Gsto1	Mus musculus glutathione S-transferase omega 1 (Gsto1), mRNA.
ILMN_2704499	0.487221903	13.92745387	5.035870653	0.000346419	0.013800661	Hprt	
ILMN_3133448	0.574426338	13.90726056	4.30686509	0.001158384	0.027532392	Mfge8	Mus musculus milk fat globule-EGF factor 8 protein (Mfge8), transcript variant 2, mRNA.
ILMN_1231513	1.138556579	13.89522259	6.858642269	2.33964E-05	0.002834057	Tacstd2	
ILMN_2642681	0.550817636	13.89103489	4.575874275	0.000735828	0.021597853	Atf4	
ILMN_2747923	0.800649785	13.88597906	5.006480088	0.000363182	0.014230886	Slc40a1	
ILMN_2756041	1.362292094	13.88559587	7.915364963	5.97897E-06	0.001229967	Pkm2	Mus musculus pyruvate kinase, muscle (Pkm2), mRNA. XM_979725 XM_979753 XM_979779 XM_979805 XM_979833 XM_979863 XM_979890 XM_979922 XM_979949
ILMN_2746086	0.438318302	13.85457683	4.095923648	0.001664062	0.032881451	Tax1bp3	
ILMN_1217180	0.671456035	13.84339006	4.369164382	0.001041956	0.02581953	Ifitm1	Mus musculus interferon induced transmembrane protein 1 (Ifitm1), mRNA.
ILMN_2665490	0.94857851	13.81092834	5.173523464	0.000278091	0.012021874	Litaf	
ILMN_1223230	0.759852865	13.79189981	5.514092841	0.00016335	0.008808363	Gstp1	Mus musculus glutathione S-transferase, pi 1 (Gstp1), mRNA.
ILMN_2687706	0.401993252	13.76096839	4.886176054	0.000441242	0.016071601	Tceb2	Mus musculus transcription elongation factor B (SIII), polypeptide 2 (Tceb2), mRNA.
ILMN_1220865	0.961066208	13.75892496	7.306948326	1.29022E-05	0.00203898	C630041L24Rik	
ILMN_3089584	0.644059746	13.74962874	4.157216789	0.001496982	0.031230912	Ii	
ILMN_2747959	0.885206685	13.747322	4.466216275	0.000884334	0.023552295	Dcn	
ILMN_2866185	0.718496346	13.71908836	5.35933251	0.000207604	0.010048794	Btg1	Mus musculus B-cell translocation gene 1, anti-proliferative (Btg1), mRNA.
ILMN_2476733	0.626136044	13.6821768	3.889059181	0.002385851	0.04011611	1200016E24Rik	
ILMN_2878071	1.179550604	13.65026383	8.468470896	3.08019E-06	0.000945346	Lyz	Mus musculus lysozyme (Lyz), mRNA.
ILMN_1259174	1.100751297	13.64505255	7.056024211	1.79476E-05	0.002456944	Scin	Mus musculus scinderin (Scin), mRNA.
ILMN_1248947	0.564641318	13.63757828	4.102525314	0.00164517	0.032706637	Mal	
ILMN_2530916	0.500089549	13.63317969	3.742215187	0.003089748	0.046371477	LOC225058	
ILMN_2658501	0.688617238	13.62694529	5.015279529	0.000358075	0.014100246	Ifitm3	Mus musculus interferon induced transmembrane protein 3 (Ifitm3), mRNA.
ILMN_1244853	0.604605988	13.61388957	3.685829798	0.003414131	0.048668703	LOC382127	

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2760979	0.489725187	13.58396725	3.721848079	0.00320309	0.047416468	Tgfbr2	Mus musculus transforming growth factor, beta receptor II (Tgfbr2), transcript variant 1, mRNA.
ILMN_3160292	1.363133249	13.57995356	4.730659079	0.00056921	0.018734729	Akr1c19	Mus musculus aldo-keto reductase family 1, member C19 (Akr1c19), mRNA.
ILMN_1227164	0.649951611	13.55849038	4.672660763	0.000626452	0.019669775	Tubb5	
ILMN_2628271	0.69000347	13.5548871	4.566418733	0.000747538	0.021754261	Eno1	
ILMN_2987107	1.185577827	13.55471331	9.418813599	1.05977E-06	0.000549767	2310056P07Rik	Mus musculus RIKEN cDNA 2310056P07 gene (2310056P07Rik), mRNA.
ILMN_3007072	0.71418905	13.52509849	7.510043012	9.93281E-06	0.001809267	Tpm1	Mus musculus tropomyosin 1, alpha (Tpm1), mRNA.
ILMN_2429025	0.934716095	13.52499127	5.206431333	0.000263966	0.011600404	Wbp5	
ILMN_2515363	0.670252678	13.5155685	7.319330799	1.26963E-05	0.00203898	Tpm4	
ILMN_2773537	0.899177912	13.51483234	6.150136326	6.31771E-05	0.005076096	Ckmt1	
ILMN_2680142	0.503731587	13.48496119	4.475517642	0.000870597	0.023369021	Anxa5	Mus musculus annexin A5 (Anxa5), mRNA.
ILMN_2772954	1.117949021	13.48349434	5.839841311	9.97163E-05	0.006555176	Aqp2	
ILMN_1216732	0.409768813	13.45680923	5.191302163	0.000270363	0.011794653	Mcl1	Mus musculus myeloid cell leukemia sequence 1 (Mcl1), mRNA.
ILMN_1224561	0.367403461	13.45502068	4.207373409	0.001373277	0.029789167	Ube2d2	Mus musculus ubiquitin-conjugating enzyme E2D 2 (Ube2d2), mRNA.
ILMN_1249378	0.65043775	13.45343458	4.066446064	0.001751209	0.034067743	Bhlhb2	Mus musculus basic helix-loop-helix domain containing, class B2 (Bhlhb2), mRNA.
ILMN_2645208	0.31181743	13.415755	3.751344357	0.003040293	0.045889008	Arhgef3	Mus musculus Rho guanine nucleotide exchange factor (GEF) 3 (Arhgef3), mRNA.
ILMN_2742042	2.081184945	13.4141865	8.164556726	4.41652E-06	0.001158147	Nupr1	Mus musculus nuclear protein 1 (Nupr1), mRNA.
ILMN_1249905	0.527955118	13.33920062	3.771745753	0.002932703	0.044976285	D2Bwg0891e	
ILMN_3067068	0.677399636	13.33919716	4.015648625	0.00191268	0.035598834	Tmsb10	Mus musculus thymosin, beta 10 (Tmsb10), mRNA.
ILMN_2691680	3.232978421	13.33848178	3.86648098	0.002482246	0.041079672	Cyp4a14	Mus musculus cytochrome P450, family 4, subfamily a, polypeptide 14 (Cyp4a14), mRNA.
ILMN_2940195	1.086858871	13.32591505	7.315776097	1.27551E-05	0.00203898	Mgst1	Mus musculus microsomal glutathione S-transferase 1 (Mgst1), mRNA.
ILMN_2614380	0.554255102	13.29889712	5.684747853	0.000125897	0.007596807	Map3k1	Mus musculus mitogen activated protein kinase kinase kinase 1 (Map3k1), mRNA.
ILMN_2621643	0.708620793	13.28334806	5.501460506	0.000166557	0.008852006	Col4a1	Mus musculus procollagen, type IV, alpha 1 (Col4a1), mRNA.
ILMN_1221157	0.404257817	13.28266407	3.726245579	0.003178261	0.04713124	Krt2-8	
ILMN_1259528	0.504783635	13.28101086	4.202409318	0.001385031	0.029878798	LOC382092	
ILMN_2458765	0.673757705	13.24916273	4.551800923	0.000766027	0.021970795	1110004P15Rik	

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_1251729	0.530955425	13.22752348	4.473812844	0.000873098	0.023383545	Nfe2l1	Mus musculus nuclear factor, erythroid derived 2,-like 1 (Nfe2l1), mRNA.
ILMN_2925711	0.641515281	13.22705455	4.001144501	0.001961565	0.035704678	Dusp6	Mus musculus dual specificity phosphatase 6 (Dusp6), mRNA.
ILMN_2912471	0.410955608	13.21320741	3.915112745	0.002279414	0.039303838	4930570C03Rik	Mus musculus RIKEN cDNA 4930570C03 gene (4930570C03Rik), mRNA.
ILMN_2991272	0.753067898	13.19586717	4.315897509	0.001140695	0.027193218	Aqp3	Mus musculus aquaporin 3 (Aqp3), mRNA.
ILMN_2613306	0.904039043	13.15176545	5.789124984	0.000107576	0.006882243	Efhd1	
ILMN_2501026	0.423394768	13.15067109	4.866897909	0.00045531	0.016469596	Dnajc5	
ILMN_2664224	1.959651387	13.14798709	12.11941446	7.73182E-08	0.000115315	Ephx1	Mus musculus epoxide hydrolase 1, microsomal (Ephx1), mRNA.
ILMN_2829636	0.503603453	13.14163091	4.788082581	0.000517925	0.017834414	Dnajb9	Mus musculus DnaJ (Hsp40) homolog, subfamily B, member 9 (Dnajb9), mRNA.
ILMN_2488997	0.496518641	13.1190354	5.523026116	0.000161122	0.008807827	2010005O13Rik	
ILMN_3109491	0.377120536	13.11628024	3.89389868	0.002365698	0.04011611	6430527G18Rik	Mus musculus RIKEN cDNA 6430527G18 gene (6430527G18Rik), mRNA.
ILMN_3086136	0.449143263	13.10903084	4.736546484	0.000563715	0.01860571	Centg2	Mus musculus centaurin, gamma 2 (Centg2), transcript variant 2, mRNA.
ILMN_1251143	0.377121744	13.07517478	4.401403604	0.00098657	0.025098647	9130415E20Rik	
ILMN_2862470	0.751620322	13.07367379	4.188595411	0.001418295	0.030219442	Gstm2	Mus musculus glutathione S-transferase, mu 2 (Gstm2), mRNA.
ILMN_1219016	0.427835177	13.04752172	5.377670405	0.000201754	0.009885941	2310058J06Rik	
ILMN_2944666	1.727543773	13.04177149	7.417625099	1.11814E-05	0.001892358	Ifit3	Mus musculus interferon-induced protein with tetratricopeptide repeats 3 (Ifit3), mRNA.
ILMN_2913166	0.738674701	13.01883821	5.308804512	0.000224671	0.010430612	Serping1	Mus musculus serine (or cysteine) peptidase inhibitor, clade G, member 1 (Serping1), mRNA.
ILMN_2878430	0.305525063	13.01347774	3.774290158	0.002919563	0.044886364	Rpl30	Mus musculus ribosomal protein L30 (Rpl30), mRNA.
ILMN_1236539	1.127440291	13.01208167	5.758593499	0.000112622	0.007053813	Pfkl	Mus musculus phosphofructokinase, liver, B-type (Pfkl), mRNA.
ILMN_2594714	0.310365042	12.98838117	4.184420326	0.001428511	0.030369904	Ets2	Mus musculus E26 avian leukemia oncogene 2, 3' domain (Ets2), mRNA.
ILMN_2491831	0.341552588	12.98528004	4.300589343	0.001170843	0.027607357	D11Bwg0414e	
ILMN_2419138	0.541320607	12.98441594	6.447441598	4.13057E-05	0.004023179	Vcl	
ILMN_1258601	0.468651202	12.97814245	3.940098008	0.002181955	0.038398217	Ywhag	Mus musculus 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide (Ywhag), mRNA.
ILMN_2960044	0.717251395	12.96488904	4.095281191	0.001665913	0.032881451	BC013476	Mus musculus cytochrome P450, family 4, subfamily a, polypeptide 31 (Cyp4a31), mRNA.

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_1218799	1.459395313	12.96135831	9.14300971	1.43156E-06	0.000630202	Emb	Mus musculus embigin (Emb), mRNA.
ILMN_2914744	0.53894307	12.92842068	4.147091446	0.001523331	0.031582319	Hn1	Mus musculus hematological and neurological expressed sequence 1 (Hn1), mRNA.
ILMN_1233175	0.476106024	12.91633518	5.61131262	0.000140756	0.008078229	Ppp1r14b	
ILMN_1217849	0.770276373	12.89019329	4.362960652	0.001052982	0.02603866	Laptm5	Mus musculus lysosomal-associated protein transmembrane 5 (Laptm5), mRNA.
ILMN_2659644	0.401821506	12.87888792	4.056542446	0.001781541	0.034383219	Map2k3	Mus musculus mitogen activated protein kinase kinase 3 (Map2k3), mRNA.
ILMN_1227540	0.374925862	12.83485672	4.68256886	0.000616261	0.019581666	Phf10	Mus musculus PHD finger protein 10 (Phf10), mRNA.
ILMN_2669416	1.116475374	12.8316555	8.684699079	2.39756E-06	0.000791434	Mgst1	Mus musculus microsomal glutathione S-transferase 1 (Mgst1), mRNA.
ILMN_2822579	0.770407158	12.83141122	6.268886406	5.32384E-05	0.004619736	Col4a2	Mus musculus procollagen, type IV, alpha 2 (Col4a2), mRNA.
ILMN_2621708	2.102986099	12.81955525	8.890541689	1.89706E-06	0.000656082	Abcc4	
ILMN_3005873	0.691457467	12.81702199	5.057620025	0.000334541	0.013462294	Sort1	Mus musculus sortilin 1 (Sort1), mRNA.
ILMN_2776552	0.438134702	12.81667289	4.163922201	0.001479793	0.031030145	Hprt	
ILMN_2690839	0.880165787	12.80752416	4.620728898	0.00068284	0.020810486	Esam1	Mus musculus endothelial cell-specific adhesion molecule (Esam1), mRNA.
ILMN_2987062	0.279669048	12.80060467	3.778956921	0.00289562	0.04477793	Thyn1	Mus musculus thymocyte nuclear protein 1 (Thyn1), mRNA.
ILMN_2979237	2.814278034	12.78493962	7.001669448	1.92975E-05	0.002558313	Gsta1	Mus musculus glutathione S-transferase, alpha 1 (Ya) (Gsta1), mRNA.
ILMN_1227926	0.491647119	12.78248082	3.779370777	0.002893506	0.04477793	Flt1	
ILMN_2661650	1.602437966	12.77746303	7.939699818	5.80296E-06	0.001206616	Dp1l1	Mus musculus receptor accessory protein 6 (Reep6), mRNA.
ILMN_1242377	0.492061724	12.7760333	4.461963589	0.00089069	0.02367177	Ptdsr	
ILMN_2775421	0.69608145	12.77439773	5.152784373	0.0002874	0.012184885	Serping1	
ILMN_1258159	1.414951114	12.764173	9.113545796	1.47891E-06	0.000630202	Slc2a1	Mus musculus solute carrier family 2 (facilitated glucose transporter), member 1 (Slc2a1), mRNA.
ILMN_2515601	0.382483673	12.74630918	3.781224646	0.002884058	0.044747911	Vldlr	Mus musculus very low density lipoprotein receptor (Vldlr), mRNA.
ILMN_1212626	0.898773749	12.73556506	8.114631232	4.69028E-06	0.001172956	S100a11	
ILMN_1219717	0.776236345	12.73479595	4.91486558	0.000421147	0.015629582	Sort1	
ILMN_3136561	0.975067204	12.73044846	9.998867835	5.75673E-07	0.000404037	Sparc	Mus musculus secreted acidic cysteine rich glycoprotein (Sparc), mRNA.
ILMN_2712075	4.51823985	12.72493649	14.79741145	9.10797E-09	2.71679E-05	Lcn2	Mus musculus lipocalin 2 (Lcn2), mRNA.
ILMN_2939138	0.470467364	12.69717565	3.667167405	0.003529057	0.049392308	Bicc1	Mus musculus bicaudal C homolog 1

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
							(Drosophila) (Bicc1), mRNA.
ILMN_2892441	2.542516843	12.69557418	6.031137113	7.51432E-05	0.005638814	Gsta4	Mus musculus glutathione S-transferase, alpha 4 (Gsta4), mRNA.
ILMN_2871660	0.665678524	12.69030146	3.705357503	0.003297994	0.048074549	Car15	Mus musculus carbonic anhydrase 15 (Car15), mRNA.
ILMN_2659229	0.624912864	12.68982217	5.486085745	0.00017055	0.008973917	Rpl22	Mus musculus ribosomal protein L22 (Rpl22), mRNA.
ILMN_2771034	0.718433067	12.68161254	5.868980943	9.54786E-05	0.006382088	Mfge8	
ILMN_2742152	0.619771761	12.67094878	3.936029849	0.002197524	0.038501851	Gadd45a	Mus musculus growth arrest and DNA-damage-inducible 45 alpha (Gadd45a), mRNA.
ILMN_1260046	0.523020481	12.65650776	4.286007345	0.001200334	0.028007353	2010005O13Rik	
ILMN_1243988	0.455718315	12.65297832	3.823386091	0.002677571	0.042882473	LOC269251	
ILMN_2620435	0.490030791	12.65073928	3.919925285	0.002260298	0.03921404	Ctps	Mus musculus cytidine 5'-triphosphate synthase (Ctps), mRNA.
ILMN_2589640	1.18068163	12.64259805	11.58630019	1.24312E-07	0.000151872	Ednrb	Mus musculus endothelin receptor type B (Ednrb), mRNA.
ILMN_2759914	0.499627102	12.63346831	4.301081314	0.001169861	0.027607357	Scnn1g	
ILMN_2943599	1.206903242	12.62041516	7.249543418	1.39047E-05	0.002140698	Ngfrap1	Mus musculus nerve growth factor receptor (TNFRSF16) associated protein 1 (Ngfrap1), mRNA.
ILMN_2966722	0.464700039	12.61923703	4.035578162	0.001847562	0.035018566	Ywhah	Mus musculus tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide (Ywhah), mRNA.
ILMN_2726371	1.758935564	12.61598958	8.931443716	1.81172E-06	0.000647512	Nqo1	
ILMN_2955671	0.718285332	12.61115312	4.760547383	0.000541882	0.018110563	Slc38a2	Mus musculus solute carrier family 38, member 2 (Slc38a2), mRNA.
ILMN_3111877	0.441325725	12.60951637	4.578608906	0.000732477	0.021533709	Rbms2	Mus musculus RNA binding motif, single stranded interacting protein 2 (Rbms2), transcript variant 2, mRNA.
ILMN_1260325	0.295907694	12.59609342	3.665744571	0.003537981	0.049459186	Pabpc4	
ILMN_2821850	0.716979693	12.58982532	3.945132976	0.002162843	0.03814628	Pbef1	Mus musculus pre-B-cell colony-enhancing factor 1 (Pbef1), mRNA.
ILMN_2731949	0.818166833	12.58823316	5.327289528	0.000218261	0.010272925	Copeb	
ILMN_2646985	3.071841046	12.57664779	15.51201258	5.46085E-09	1.8616E-05	Atf5	Mus musculus activating transcription factor 5 (Atf5), mRNA.
ILMN_1244312	0.448177718	12.5739546	3.714290493	0.00324623	0.047729387	LOC212399	
ILMN_1253237	0.457442764	12.5698998	4.843804202	0.000472787	0.016788861	Pdcd4	Mus musculus programmed cell death 4 (Pdcd4), mRNA.

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ILMN_2419854	0.768457493	12.56154485	4.678865743	0.000620049	0.019625613	Efhd1	
ILMN_2591127	0.312185126	12.55883699	3.731180921	0.003150631	0.046989688	MGC68323	Mus musculus predicted gene, EG277333 (EG277333), mRNA.
ILMN_2710419	0.627767841	12.55829014	5.136398019	0.000294989	0.012436963	Plec1	
ILMN_1241171	0.750785495	12.55437846	4.84928051	0.00046858	0.016664259	Anxa3	Mus musculus annexin A3 (Anxa3), mRNA.
ILMN_2677772	1.483472275	12.53174156	8.921387488	1.83231E-06	0.000647512	Npn3	Mus musculus sulfiredoxin 1 homolog (S. cerevisiae) (Srxn1), mRNA.
ILMN_1215212	1.016247429	12.51280451	9.028907331	1.62458E-06	0.000642591	Rhob	
ILMN_2756435	0.843254597	12.49636403	4.99688965	0.000368835	0.014334712	Cebpb	Mus musculus CCAAT/enhancer binding protein (C/EBP), beta (Cebpb), mRNA.
ILMN_3128019	0.606988197	12.49545535	7.441886668	1.08381E-05	0.001882796	Dnajc10	Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 10 (Dnajc10), mRNA.
ILMN_2764781	0.481506212	12.49369017	4.705725022	0.000593115	0.019074809	Pls3	Mus musculus plastin 3 (T-isoform) (Pls3), mRNA.
ILMN_2670398	1.448288061	12.47905356	5.959303677	8.35166E-05	0.005913815	Eif4ebp1	
ILMN_2644587	0.621170114	12.46923308	5.996683283	7.9042E-05	0.005802907	Bzw2	Mus musculus basic leucine zipper and W2 domains 2 (Bzw2), mRNA.
ILMN_2671708	0.51407613	12.46495132	3.683698975	0.003427056	0.048707465	Dnajc5	
ILMN_1218890	0.719388924	12.45851328	3.985454687	0.002015908	0.036443646	LOC381140	
ILMN_2671204	0.335375916	12.43901486	3.676576568	0.003470625	0.04900563	Psme1	Mus musculus proteasome (prosome, macropain) 28 subunit, alpha (Psme1), mRNA.
ILMN_1227803	0.40284095	12.42764138	4.160671565	0.0014881	0.031149586	LOC383883	
ILMN_2896768	3.72884632	12.42591141	12.77817404	4.40618E-08	8.08805E-05	Cbr3	Mus musculus carbonyl reductase 3 (Cbr3), mRNA.
ILMN_2663805	0.433549666	12.40360592	3.9817313	0.002029032	0.036548755	Map4k3	
ILMN_2772410	0.559287595	12.39906132	4.990336276	0.000372751	0.014339722	Anxa4	
ILMN_2484465	0.898515646	12.39639077	7.686746832	7.94253E-06	0.001540916	Txnrd1	
ILMN_2834777	0.513299792	12.38015426	3.964224993	0.002091934	0.037365141	Irf1	Mus musculus interferon regulatory factor 1 (Irf1), mRNA.
ILMN_2513837	0.571971173	12.37920347	3.918929963	0.002264238	0.03921404	Gng10	
ILMN_1230119	1.246413435	12.36031583	7.980974134	5.51701E-06	0.001196191	Gcap27	
ILMN_2712120	0.844285197	12.34715624	6.313457894	4.99503E-05	0.004431096	S100a6	
ILMN_2495888	0.505983247	12.3458541	3.862689206	0.002498825	0.041209031	scl0002617.1_582	
ILMN_2841720	0.359951517	12.33958455	3.695398057	0.003356709	0.048311907	Ttc3	Mus musculus tetratricopeptide repeat domain 3 (Ttc3), mRNA.
ILMN_1238227	0.535750952	12.31519276	4.312771284	0.001146785	0.02728389	Rpl23	Mus musculus ribosomal protein L23 (Rpl23), mRNA.
ILMN_2776087	0.647153297	12.31457698	3.752240417	0.003035483	0.045850623	Rab25	

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ILMN_2738893	0.567757216	12.30758061	4.707121658	0.000591749	0.019056545	D19Wsu12e	
ILMN_1232261	0.636034176	12.30659518	3.790511313	0.002837207	0.04430908	Catnal1	Mus musculus catenin (cadherin associated protein), alpha-like 1 (Ctnnal1), mRNA.
ILMN_1216409	0.447982651	12.28919256	5.218043465	0.000259164	0.011452669	1500012F01Rik	
ILMN_2888742	0.375082939	12.28673392	4.015755256	0.001912326	0.035598834	Ntan1	
ILMN_2776419	0.49077794	12.27414462	3.871175608	0.002461876	0.040925426	Dnclc1	
ILMN_2939012	0.565734724	12.26040319	5.712654124	0.000120695	0.007423043	1500012F01Rik	Mus musculus RIKEN cDNA 1500012F01 gene (1500012F01Rik), mRNA.
ILMN_2525423	0.744642769	12.25535818	5.156524079	0.000285698	0.012184885	BC037006	
ILMN_2878060	0.767849062	12.25339163	3.826860415	0.002661251	0.042785765	Anxa6	Mus musculus annexin A6 (Anxa6), mRNA.
ILMN_2919860	0.671603059	12.250255	6.020279268	7.63493E-05	0.005711362	Cds1	Mus musculus CDP-diacylglycerol synthase 1 (Cds1), mRNA.
ILMN_2624938	1.009472311	12.24399247	5.843809173	9.91277E-05	0.006534484	Pea15	
ILMN_2634749	0.339673202	12.23336279	4.107677422	0.001630581	0.032612308	Txnl4	Mus musculus thioredoxin-like 4 (Txnl4), transcript variant 2, mRNA.
ILMN_2733852	0.52660568	12.23015361	4.760865114	0.0005416	0.018110563	Gnb1	
ILMN_2771956	0.396006857	12.22858146	4.095729501	0.001664621	0.032881451	Calu	
ILMN_1239720	0.41462671	12.22207028	3.965125142	0.002088651	0.037334444	6330407G11Rik	
ILMN_2698046	0.732362319	12.22164804	7.424685725	1.10803E-05	0.001888643	Stat3	
ILMN_1229056	0.732357237	12.20980074	6.010141731	7.74941E-05	0.005742983	D6Wsu176e	
ILMN_1240938	0.549818738	12.19762657	4.22948053	0.001322179	0.029377247	AW212394	
ILMN_2733356	0.702357252	12.19275495	4.35869406	0.001060635	0.026119648	2310067E08Rik	Mus musculus endonuclease domain containing 1 (Endod1), mRNA.
ILMN_2874507	0.348179798	12.18290953	3.895728446	0.002358125	0.04010829	Rpl4	Mus musculus ribosomal protein L4 (Rpl4), mRNA.
ILMN_2510875	0.532593057	12.17533501	4.19450997	0.001403952	0.030020172	Dnajb9	
ILMN_2916705	0.507256466	12.1718147	5.510230569	0.000164324	0.008811811	Tuba1a	Mus musculus tubulin, alpha 1A (Tuba1a), mRNA.
ILMN_2637094	0.958295344	12.15899935	6.038966892	7.42861E-05	0.005609774	Pace4	
ILMN_1260378	0.930615907	12.15781286	6.229306668	5.63519E-05	0.004765097	Csrp1	Mus musculus cysteine and glycine-rich protein 1 (Csrp1), mRNA.
ILMN_1228611	0.509538879	12.15729088	3.80535596	0.002763941	0.043650505	LOC245676	
ILMN_2608016	1.0694089	12.14906343	6.216862833	5.73704E-05	0.004820528	Gclc	Mus musculus glutamate-cysteine ligase, catalytic subunit (Gclc), mRNA.
ILMN_1214071	0.904469337	12.14682395	4.892288971	0.000436877	0.015965081	Ifitm1	Mus musculus interferon induced transmembrane protein 1 (Ifitm1), mRNA.
ILMN_2461707	0.51879088	12.1413324	5.890661772	9.245E-05	0.006214462	Rbms2	
ILMN_2648100	1.055721033	12.14122583	5.452524153	0.000179624	0.009211619	Gpi1	

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ILMN_2755492	0.691434213	12.12721818	6.180489749	6.04616E-05	0.004946176	D6Wsu176e	
ILMN_2651715	0.53634761	12.12484508	3.90439716	0.002322583	0.039673446	Axl	Mus musculus AXL receptor tyrosine kinase (Axl), mRNA.
ILMN_2792868	0.543234063	12.11701297	5.253853	0.00024493	0.011069633	Blvrb	Mus musculus biliverdin reductase B (flavin reductase (NADPH)) (Blvrb), mRNA.
ILMN_2498263	1.531095503	12.11565353	4.113028542	0.001615571	0.032526852	Hspa1b	
ILMN_1222512	0.786450499	12.11450139	4.890211277	0.000438355	0.015994613	9630055N22Rik	
ILMN_2794276	1.38133949	12.10570019	7.076894312	1.74564E-05	0.002421873	Aqp2	Mus musculus aquaporin 2 (Aqp2), mRNA.
ILMN_2461172	0.90430518	12.10436402	7.694714189	7.86353E-06	0.001538093	Slc16a5	
ILMN_2856157	0.567947114	12.10232841	3.864684401	0.002490087	0.041121765	Pgam1	Mus musculus phosphoglycerate mutase 1 (Pgam1), mRNA.
ILMN_3006644	0.576873811	12.09502235	4.449046132	0.00091029	0.023840137	Abi2	Mus musculus abl-interactor 2 (Abi2), mRNA.
ILMN_1237868	0.822373147	12.09155461	5.760860687	0.000112239	0.007048309	Cd24a	
ILMN_1256795	0.400950436	12.09064773	3.86468531	0.002490083	0.041121765	Eif2s2	
ILMN_1243212	0.954611634	12.08792139	6.380683519	4.53941E-05	0.004182396	Sparc	
ILMN_3006643	0.586848082	12.0827076	4.225943492	0.00133022	0.029406872	Abi2	Mus musculus abl-interactor 2 (Abi2), mRNA.
ILMN_1236010	0.535610746	12.08252594	4.707142172	0.000591729	0.019056545	scl0003799.1_2	
ILMN_1250279	0.489751805	12.07725902	3.664168095	0.003547895	0.049501467	Serpinb6a	
ILMN_2588051	0.931479678	12.0713952	5.966694795	8.26109E-05	0.005896485	Tubb2b	Mus musculus tubulin, beta 2b (Tubb2b), mRNA.
ILMN_2602858	0.798399158	12.06611529	4.427955744	0.000943268	0.024360602	Plp2	Mus musculus proteolipid protein 2 (Plp2), mRNA.
ILMN_2748914	0.394498034	12.05701252	4.140074623	0.001541874	0.031667539	2700023B17Rik	
ILMN_2603647	0.521407287	12.04493875	4.708458449	0.000590444	0.019056545	Ocil	Mus musculus C-type lectin domain family 2, member d (Clec2d), mRNA.
ILMN_2633179	2.228036793	12.03836002	3.742450953	0.00308846	0.046371477	Igh-1a	
ILMN_1225071	0.702832878	12.03580801	5.133064064	0.000296559	0.012481091	Fgfr2	
ILMN_2942276	0.50040644	12.02935132	5.610111281	0.000141014	0.008078229	Luzp1	Mus musculus leucine zipper protein 1 (Luzp1), mRNA.
ILMN_2494251	0.652057754	12.02872965	5.511024492	0.000164123	0.008811811	Tuba1	
ILMN_2759484	2.015058014	12.01721131	8.47056633	3.07265E-06	0.000945346	C3	
ILMN_1258658	0.342372773	11.99702057	3.752372481	0.003034775	0.045850623	D130072O21Rik	
ILMN_3018017	0.769116837	11.99675346	8.365102452	3.47803E-06	0.001024644	Cxadr	Mus musculus coxsackievirus and adenovirus receptor (Cxadr), transcript variant 1, mRNA.
ILMN_3135781	0.664035706	11.99526571	4.483135848	0.000859513	0.023204922	Anxa3	Mus musculus annexin A3 (Anxa3), mRNA.
ILMN_2961152	0.520495874	11.99498784	4.220045635	0.00134374	0.029566123	Krt7	Mus musculus keratin 7 (Krt7), mRNA.
ILMN_3073486	0.486961235	11.98955749	4.748030628	0.000553155	0.018362845	Rpl31	Mus musculus ribosomal protein L31 (Rpl31), mRNA.

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ILMN_2690256	0.322414749	11.98855967	4.234099265	0.001311756	0.02927192	Insig2	Mus musculus insulin induced gene 2 (Insig2), mRNA.
ILMN_2939681	1.258588207	11.96683785	7.461977524	1.05624E-05	0.001867043	Lyzs	Mus musculus lysozyme (Lyzs), mRNA.
ILMN_2629112	0.704324829	11.95258234	4.989729942	0.000373116	0.014339722	CRG-L1	Mus musculus N-acylsphingosine amidohydrolase 3-like (Asah3l), mRNA.
ILMN_2712731	0.290588444	11.93778899	3.825814371	0.002666154	0.042785765	Phf10	Mus musculus PHD finger protein 10 (Phf10), mRNA.
ILMN_2761205	1.333454583	11.9263677	9.589146507	8.83198E-07	0.000524777	Hspb8	Mus musculus heat shock protein 8 (Hspb8), mRNA.
ILMN_2735350	3.054097408	11.91214491	12.32716846	6.45707E-08	0.000102723	Gdf15	Mus musculus growth differentiation factor 15 (Gdf15), mRNA.
ILMN_2667346	1.23631057	11.90132558	5.339931328	0.000213989	0.010220994	Npn3	Mus musculus sulfiredoxin 1 homolog (S. cerevisiae) (Srxn1), mRNA.
ILMN_2953277	0.635837462	11.89623621	4.900323556	0.000431209	0.015806366	LOC433182	Mus musculus predicted gene, EG433182 (EG433182), mRNA.
ILMN_3079919	0.655890985	11.89438484	3.875411539	0.002443645	0.040749623	Ahnak	Mus musculus AHNAK nucleoprotein (desmoyokin) (Ahnak), transcript variant 1, mRNA.
ILMN_2879588	0.769522846	11.88872814	5.323655323	0.000219506	0.010290917	Lhfp	Mus musculus lipoma HMGIC fusion partner (Lhfp), mRNA.
ILMN_2686975	0.684146529	11.87809369	4.968011223	0.000386425	0.014636926	9130404D14Rik	Mus musculus RIKEN cDNA 9130404D14 gene (9130404D14Rik), mRNA.
ILMN_3083163	1.343139921	11.87691482	5.777163789	0.000109523	0.006936327	Cp	Mus musculus ceruloplasmin (Cp), transcript variant 2, mRNA.
ILMN_2596346	0.926338623	11.8736813	3.927900737	0.002228982	0.038881717	Dcn	
ILMN_2716247	0.345588073	11.87231318	3.733110468	0.003139896	0.046888191	C78212	Mus musculus FAST kinase domains 5 (Fastkd5), mRNA.
ILMN_2789948	0.737160309	11.8558194	4.370988638	0.001038737	0.025793329	Arhgdib	Mus musculus Rho, GDP dissociation inhibitor (GDI) beta (Arhgdib), mRNA.
ILMN_1228287	0.351680992	11.85419985	3.655473772	0.003603089	0.049901634	Calu	
ILMN_2627041	0.565626952	11.85120077	5.771386466	0.000110478	0.006956012	Cx3cl1	
ILMN_1223029	0.666657233	11.84943547	4.476171413	0.00086964	0.023369021	Rab8b	Mus musculus RAB8B, member RAS oncogene family (Rab8b), mRNA.
ILMN_1227993	0.921327135	11.84836214	6.906087267	2.1942E-05	0.00277167	Vav3	
ILMN_1232278	0.65127189	11.83370485	5.812203706	0.000103921	0.006775562	Pgam1	Mus musculus phosphoglycerate mutase 1 (Pgam1), mRNA.
ILMN_1251119	0.304045524	11.81926796	3.831295881	0.002640566	0.042604337	Bmpr1a	Mus musculus bone morphogenetic protein receptor, type 1A (Bmpr1a), mRNA.
ILMN_1254015	1.246170355	11.81481657	6.380993251	4.53742E-05	0.004182396	Akr1c12	
ILMN_2658804	1.00710895	11.80498806	9.076016217	1.54169E-06	0.000642591	Rras	Mus musculus Harvey rat sarcoma oncogene,

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							subgroup R (Rras), mRNA.
ILMN_3006611	0.577845625	11.80353577	4.34151762	0.001092039	0.026478999	Map3k1	Mus musculus mitogen activated protein kinase kinase kinase 1 (Map3k1), mRNA.
ILMN_1216322	2.193881646	11.79915584	4.902738444	0.000429521	0.015768698	Hmgcs2	Mus musculus 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 (Hmgcs2), mRNA.
ILMN_2535779	0.485574217	11.79024144	3.801629637	0.002782146	0.043793114	LOC383706	
ILMN_2591731	0.615694679	11.76023464	4.202877716	0.001383918	0.029878798	Ptprb	
ILMN_2643513	2.157910027	11.75871815	5.547822614	0.000155104	0.008644125	Asns	Mus musculus asparagine synthetase (Asns), mRNA.
ILMN_2618696	0.3511764	11.74940438	3.726555375	0.003176519	0.04713124	D15Ertd405e	Mus musculus transmembrane protein 106C (Tmem106c), mRNA.
ILMN_2599719	0.966212916	11.74610211	7.938024184	5.8149E-06	0.001206616	1110028E10Rik	
ILMN_2714534	0.603478026	11.74123569	5.606357891	0.000141823	0.008078229	Map2k1	
ILMN_2947568	0.626046778	11.73744729	3.960082672	0.002107112	0.037523886	Gadd45a	Mus musculus growth arrest and DNA-damage-inducible 45 alpha (Gadd45a), mRNA.
ILMN_2685329	0.74715264	11.73170844	6.067231947	7.12773E-05	0.005451574	Hspg2	
ILMN_2744337	0.398906322	11.7194688	3.661841279	0.003562581	0.049570764	Cd47	Mus musculus CD47 antigen (Rh-related antigen, integrin-associated signal transducer) (Cd47), mRNA.
ILMN_2518346	0.713036179	11.71732761	6.284385575	5.20696E-05	0.004568148	Tpm1	
ILMN_2767605	0.61321499	11.71347572	3.928043232	0.002228426	0.038881717	Lmo2	Mus musculus LIM domain only 2 (Lmo2), mRNA.
ILMN_2514377	0.712246976	11.71064796	6.651728751	3.10579E-05	0.003431174	Cxadr	
ILMN_1221124	0.470885424	11.7106304	4.275837555	0.001221359	0.028236202	Rpl31	Mus musculus ribosomal protein L31 (Rpl31), mRNA.
ILMN_1223949	1.868256602	11.69896325	9.341591693	1.15205E-06	0.000561047	Cldn4	Mus musculus claudin 4 (Cldn4), mRNA.
ILMN_1223414	0.862919768	11.68498123	7.979717494	5.52549E-06	0.001196191	Ptp4a1	
ILMN_1223416	1.519731935	11.68479447	9.35208132	1.13902E-06	0.000561047	Fer1l3	
ILMN_2652645	0.471170027	11.68363943	3.887881977	0.00239078	0.040148619	Gnb2-rs1	Mus musculus guanine nucleotide binding protein (G protein), beta polypeptide 2 like 1 (Gnb2l1), mRNA.
ILMN_1221199	0.354644649	11.67820506	3.74239989	0.003088739	0.046371477	Ppm1f	Mus musculus protein phosphatase 1F (PP2C domain containing) (Ppm1f), mRNA.
ILMN_1237695	1.489447609	11.67058501	6.712065052	2.85792E-05	0.003232158	Pfkp	
ILMN_2887065	0.43888126	11.66994227	3.667948491	0.003524168	0.049381808	Mvp	Mus musculus major vault protein (Mvp), mRNA.
ILMN_2659380	0.371833575	11.66163928	4.747895256	0.000553279	0.018362845	Elf1	
ILMN_2847332	0.660824479	11.65566584	4.544890673	0.000774934	0.022146393	Mid1ip1	Mus musculus Mid1 interacting protein 1 (gastrulation specific G12-like (zebrafish))

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							(Mid1ip1), mRNA.
ILMN_2605819	1.463870358	11.65110295	7.954350225	5.69968E-06	0.001203641	Egln3	Mus musculus EGL nine homolog 3 (C. elegans) (Egln3), mRNA.
ILMN_2661340	1.476126651	11.65071245	4.954222861	0.000395133	0.014895845	Slco4a1	Mus musculus solute carrier organic anion transporter family, member 4a1 (Slco4a1), mRNA.
ILMN_1248608	0.411302186	11.64606287	3.684759161	0.003420619	0.048700719	Shroom2	Mus musculus shroom family member 2 (Shroom2), mRNA.
ILMN_2862567	0.5140238	11.62690685	4.641438689	0.00065974	0.020235706	Fndc3b	Mus musculus fibronectin type III domain containing 3B (Fndc3b), mRNA.
ILMN_2850753	0.486909509	11.62627709	4.484986791	0.000856842	0.023182334	Mdm2	Mus musculus transformed mouse 3T3 cell double minute 2 (Mdm2), mRNA.
ILMN_1233160	0.545352819	11.61129231	4.597221158	0.000710092	0.021234245	1810015M01Rik	Mus musculus TP53 regulated inhibitor of apoptosis 1 (Triap1), mRNA.
ILMN_2540489	0.444917758	11.59476317	5.315572039	0.000222302	0.010394211	LOC385467	
ILMN_2508910	0.480706746	11.58813701	5.201264063	0.000266133	0.011652705	Tpst2	
ILMN_2917471	1.144321686	11.57402854	11.18273783	1.80347E-07	0.000195619	Ednrb	Mus musculus endothelin receptor type B (Ednrb), mRNA.
ILMN_2751494	0.977441987	11.57186583	9.581669827	8.90244E-07	0.000524777	Stk39	Mus musculus serine/threonine kinase 39, STE20/SPS1 homolog (yeast) (Stk39), mRNA.
ILMN_2843782	0.52394584	11.56673247	5.902129203	9.08895E-05	0.00616164	Tpst2	Mus musculus protein-tyrosine sulfotransferase 2 (Tpst2), mRNA.
ILMN_2428164	0.409380507	11.56021002	4.008173599	0.001937714	0.035598834	Rad23b	
ILMN_1254253	0.333881723	11.55119864	3.736172307	0.003122938	0.046722682	Aof2	Mus musculus amine oxidase (flavin containing) domain 2 (Aof2), mRNA.
ILMN_2717439	0.52150923	11.54672263	4.641733638	0.000659417	0.020235706	Pip5k2a	
ILMN_2500370	0.410507874	11.54200312	4.149786891	0.00151627	0.031490641	9430080K19Rik	
ILMN_2599659	0.668174874	11.53588634	4.345470542	0.001084727	0.026401249	Fmnl3	Mus musculus formin-like 3 (Fmnl3), mRNA.
ILMN_1244291	1.081897938	11.52530277	3.854154742	0.002536562	0.041496192	Gja1	Mus musculus gap junction membrane channel protein alpha 1 (Gja1), mRNA.
ILMN_2603791	5.020073856	11.50745605	13.16465761	3.20542E-08	6.37424E-05	Sprr2g	Mus musculus small proline-rich protein 2G (Sprr2g), mRNA.
ILMN_1258629	1.250186719	11.50586161	7.799363457	6.90056E-06	0.001362932	Col3a1	Mus musculus procollagen, type III, alpha 1 (Col3a1), mRNA.
ILMN_3157483	0.583780439	11.50459072	4.744392495	0.000556478	0.018443376	Ets1	Mus musculus E26 avian leukemia oncogene 1, 5' domain (Ets1), transcript variant 2, mRNA.
ILMN_2424299	1.352413662	11.50456777	6.365898139	4.63568E-05	0.004235945	Tnfrsf12a	Mus musculus tumor necrosis factor receptor superfamily, member 12a (Tnfrsf12a), mRNA.
ILMN_1232716	0.600993454	11.48631428	3.691068505	0.003382568	0.048460368	Cyp1b1	
ILMN_1252076	1.202324853	11.48516562	7.820085301	6.72534E-06	0.001348629	Lyzs	

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ILMN_2860479	0.941129009	11.4840143	4.064841806	0.001756086	0.034097221	Arpc1b	Mus musculus actin related protein 2/3 complex, subunit 1B (Arpc1b), mRNA.
ILMN_3127335	0.807217507	11.46779041	5.797309014	0.000106264	0.006872708	Sytl2	Mus musculus synaptotagmin-like 2 (Sytl2), transcript variant 5, mRNA.
ILMN_2639272	0.504531167	11.46663673	4.605490249	0.000700378	0.021102428	Ddx21	
ILMN_2470799	0.862284301	11.46603505	4.345389664	0.001084876	0.026401249	Tmem20	
ILMN_2589790	0.665677143	11.45212954	6.532186951	3.66731E-05	0.003791987	Stat3	
ILMN_2909782	0.311822935	11.45090566	3.781886335	0.002880694	0.044724789	Rras2	Mus musculus related RAS viral (r-ras) oncogene homolog 2 (Rras2), mRNA.
ILMN_2588995	0.638461993	11.4419215	4.694631817	0.000604087	0.019248961	Rab8b	Mus musculus RAB8B, member RAS oncogene family (Rab8b), mRNA.
ILMN_1248537	0.795758318	11.43866269	4.053226167	0.00179182	0.034426886	Dusp6	Mus musculus dual specificity phosphatase 6 (Dusp6), mRNA.
ILMN_1239333	0.667056192	11.42264782	6.12472257	6.55506E-05	0.005128634	Iqgap1	
ILMN_3119014	0.756703023	11.41837073	4.586715549	0.000722638	0.021394912	Elk3	Mus musculus ELK3, member of ETS oncogene family (Elk3), transcript variant 2, mRNA.
ILMN_1220198	0.671189972	11.41137333	4.81641255	0.000494435	0.017376599	Lhfp	Mus musculus lipoma HMGIC fusion partner (Lhfp), mRNA.
ILMN_1235499	0.769787301	11.39692413	5.203928755	0.000265013	0.011625009	Pros1	
ILMN_1252204	0.654087653	11.39305172	3.827645893	0.002657576	0.042763137	Sepw1	
ILMN_1246808	0.775999501	11.39211587	4.828873352	0.000484461	0.017126942	Serpine2	
ILMN_1226157	1.259552489	11.38967817	6.88474924	2.25838E-05	0.00277167	Pik3r3	
ILMN_2695819	0.780617711	11.37646312	3.663286551	0.003553451	0.049501467	Ddit4l	Mus musculus DNA-damage-inducible transcript 4-like (Ddit4l), mRNA.
ILMN_1240883	0.339007207	11.37293277	3.858234378	0.00251845	0.041332721	Rnf4	Mus musculus ring finger protein 4 (Rnf4), mRNA.
ILMN_2953700	0.622035455	11.37082174	4.580737374	0.00072988	0.021502624	Smad1	Mus musculus MAD homolog 1 (Drosophila) (Smad1), mRNA.
ILMN_2483948	0.639986678	11.36430732	4.549980126	0.000768363	0.021984956	2810012G08Rik	
ILMN_2623536	1.26515732	11.36378232	9.061262718	1.56715E-06	0.000642591	Golph2	
ILMN_2772538	0.408096323	11.35797878	4.335198628	0.001103835	0.026534226	Tlk2	
ILMN_1219200	1.043876112	11.3566424	6.204725068	5.83828E-05	0.004842715	P2ry14	
ILMN_2965275	0.43529879	11.35617724	4.769300197	0.000534143	0.018054192	Inpp5a	Mus musculus inositol polyphosphate-5-phosphatase A (Inpp5a), mRNA.
ILMN_2769567	0.790300215	11.35353881	4.498358569	0.000837804	0.022927193	F2rl1	
ILMN_2959291	0.730931422	11.34642818	5.506221227	0.000165341	0.008826679	Upp1	Mus musculus uridine phosphorylase 1 (Upp1), mRNA.
ILMN_2520249	0.924707225	11.33810986	6.683805891	2.97127E-05	0.003344502	Hspg2	

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ILMN_2652909	2.407326219	11.32889605	10.82800231	2.52515E-07	0.000219266	Ddit3	Mus musculus DNA-damage inducible transcript 3 (Ddit3), mRNA.
ILMN_1222069	0.469167056	11.32224599	3.919104527	0.002263546	0.03921404	Bbx	
ILMN_1215644	0.357758243	11.30162206	4.106896667	0.001632783	0.032612308	Eif2ak3	
ILMN_1245467	0.371731139	11.29798773	4.457024989	0.000898131	0.023708067	0610011N22Rik	Mus musculus coiled-coil domain containing 127 (Ccdc127), mRNA.
ILMN_2971479	0.500933895	11.29204213	4.760990825	0.000541488	0.018110563	Trp53inp1	Mus musculus transformation related protein 53 inducible nuclear protein 1 (Trp53inp1), mRNA.
ILMN_2996683	0.988084749	11.29049766	7.798158288	6.9109E-06	0.001362932	Pvrl2	Mus musculus poliovirus receptor-related 2 (Pvrl2), mRNA.
ILMN_2942989	0.52364662	11.28386329	5.941262285	8.57719E-05	0.005984722	Mtpn	Mus musculus myotrophin (Mtpn), mRNA.
ILMN_3003631	0.598313796	11.28325829	4.451519248	0.000906503	0.023840137	Ppap2c	Mus musculus phosphatidic acid phosphatase type 2c (Ppap2c), mRNA.
ILMN_2776619	1.045596877	11.28051386	7.217253469	1.4505E-05	0.002178577	Ltbp3	
ILMN_2713464	0.410410728	11.27983995	4.011528677	0.001926436	0.035598834	Abhd4	Mus musculus abhydrolase domain containing 4 (Abhd4), mRNA.
ILMN_1248521	0.973951845	11.27971204	4.775541929	0.000528695	0.017961831	Pik3r3	
ILMN_1235701	0.372316226	11.27895373	3.96782774	0.002078826	0.037242511	Ythdf1	Mus musculus YTH domain family 1 (Ythdf1), mRNA.
ILMN_2860480	1.210040583	11.27686455	3.714805313	0.003243273	0.047715301	Arpc1b	Mus musculus actin related protein 2/3 complex, subunit 1B (Arpc1b), mRNA.
ILMN_2874739	0.403077215	11.27171553	3.913181167	0.002287134	0.039321242	Morc3	Mus musculus microrchidia 3 (Morc3), mRNA. XM_978468 XM_978538 XM_978584 XM_978615
ILMN_2857114	0.606137581	11.26490432	5.756382129	0.000112997	0.007058783	Strbp	Mus musculus spermatid perinuclear RNA binding protein (Strbp), mRNA.
ILMN_1248740	0.688343046	11.25936054	6.78619138	2.58198E-05	0.003035165	Sema3f	Mus musculus sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3 F (Sema3f), mRNA.
ILMN_1250531	0.621615332	11.25159743	8.352814959	3.52887E-06	0.001026946	Slc19a2	
ILMN_2588737	1.06067265	11.2464643	5.998055145	7.88828E-05	0.005802907	Rab3d	Mus musculus RAB3D, member RAS oncogene family (Rab3d), mRNA.
ILMN_2648967	0.768237312	11.24021371	4.21575904	0.001353657	0.029594028	Arrdc4	
ILMN_2831283	0.544926433	11.23690098	5.495112428	0.000168194	0.008899348	Tmem43	Mus musculus transmembrane protein 43 (Tmem43), mRNA.
ILMN_2936427	0.480104109	11.2276328	3.765677445	0.002964289	0.045315071	Mcm4	Mus musculus minichromosome maintenance deficient 4 homolog (S. cerevisiae) (Mcm4), mRNA.
ILMN_1226829	1.202928952	11.22047761	7.589930066	8.97371E-06	0.00167913	C1qr1	

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ILMN_2990420	0.445100704	11.21241476	4.149946872	0.001515852	0.031490641	Jmjd2b	Mus musculus jumonji domain containing 2B (Jmjd2b), mRNA.
ILMN_1212894	0.461214688	11.21056748	4.318655772	0.00113535	0.027119975	Cask	Mus musculus calcium/calmodulin-dependent serine protein kinase (MAGUK family) (Cask), transcript variant 1, mRNA.
ILMN_1250704	0.441007223	11.21002706	4.44282751	0.000919887	0.023990441	BC025872	
ILMN_2524100	0.415123595	11.20817654	4.105954611	0.001635445	0.032612308	2900036G02Rik	
ILMN_2696592	0.706996335	11.20667641	4.518601874	0.000809821	0.022565283	C77080	
ILMN_2707895	0.718078971	11.1977374	7.215904208	1.45307E-05	0.002178577	Jmjd1a	
ILMN_2757641	0.782362425	11.19659425	5.102675693	0.000311279	0.01289593	Efna5	Mus musculus ephrin A5 (Efna5), transcript variant 1, mRNA.
ILMN_2870696	0.997604086	11.193071	5.623862754	0.00013809	0.008002585	Hfe	Mus musculus hemochromatosis (Hfe), mRNA.
ILMN_1238423	0.592246045	11.18252089	5.545057847	0.000155763	0.008644125	Tcerg1	
ILMN_1238276	0.7126944	11.18170496	4.017469135	0.001906634	0.035598834	Hist1h2ai	Mus musculus histone cluster 1, H2ai (Hist1h2ai), mRNA.
ILMN_2718645	0.565228149	11.18035163	4.721316912	0.000578046	0.018869922	Luzp1	Mus musculus leucine zipper protein 1 (Luzp1), mRNA.
ILMN_2522571	0.638015864	11.17765491	4.076249605	0.001721712	0.033676402	Set7	
ILMN_1231997	4.231173446	11.16884692	10.80858787	2.57279E-07	0.000219266	Gsta1	Mus musculus glutathione S-transferase, alpha 1 (Ya) (Gsta1), mRNA.
ILMN_2700505	0.451441576	11.15841442	5.427313954	0.000186775	0.009351103	Tmem43	Mus musculus transmembrane protein 43 (Tmem43), mRNA.
ILMN_2627566	0.78117694	11.14739218	4.642126917	0.000658987	0.020235706	Capn5	
ILMN_2592810	0.458814493	11.14453306	3.881020768	0.002419718	0.040435394	Map3k3	Mus musculus mitogen activated protein kinase kinase kinase 3 (Map3k3), mRNA.
ILMN_3059326	0.906139784	11.13923045	6.017636124	7.66461E-05	0.00571564	Sparc	Mus musculus secreted acidic cysteine rich glycoprotein (Sparc), mRNA.
ILMN_2806188	0.422332566	11.13784195	4.145803186	0.001526718	0.03158335	Zdhhc13	Mus musculus zinc finger, DHHC domain containing 13 (Zdhhc13), mRNA.
ILMN_2445324	0.736911755	11.11477229	6.130500273	6.50028E-05	0.005127824	Zfpm1	Mus musculus zinc finger protein, multitype 1 (Zfpm1), mRNA.
ILMN_1230458	1.577459347	11.1073526	3.963161121	0.002095821	0.037406573	Ifit3	Mus musculus interferon-induced protein with tetratricopeptide repeats 3 (Ifit3), mRNA.
ILMN_1238289	0.569204383	11.10105884	4.782888245	0.000522358	0.017880383	Prkx	Mus musculus protein kinase, X-linked (Prkx), mRNA.
ILMN_2898637	0.684318706	11.08291276	4.708269934	0.000590628	0.019056545	Wwc1	Mus musculus WW, C2 and coiled-coil domain containing 1 (Wwc1), mRNA.
ILMN_2778655	1.159605737	11.08112332	5.546245686	0.00015548	0.008644125	Vcam1	Mus musculus vascular cell adhesion molecule 1 (Vcam1), mRNA.
ILMN_1226329	1.20898727	11.0770597	7.157041554	1.56998E-05	0.002270576	6030404G09Rik	

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ILMN_2775202	0.333191716	11.06602558	3.855285637	0.002531528	0.041470484	Rragd	
ILMN_2608811	3.319805849	11.06410306	11.56029055	1.27286E-07	0.000151872	Cbr3	Mus musculus carbonyl reductase 3 (Cbr3), mRNA.
ILMN_1256430	1.270890939	11.06118449	8.000872969	5.3846E-06	0.001196191	Mcoln3	Mus musculus mucolipin 3 (Mcoln3), mRNA.
ILMN_2702434	0.424244732	11.06046403	4.38356602	0.001016824	0.025514688	AU040829	Mus musculus expressed sequence AU040829 (AU040829), mRNA.
ILMN_2973024	0.454625812	11.05609817	4.171406634	0.00146085	0.030713894	1500011H22Rik	Mus musculus RIKEN cDNA 1500011H22 gene (1500011H22Rik), mRNA.
ILMN_2736783	0.76896134	11.04507276	4.233754048	0.001312532	0.02927192	Kctd12	
ILMN_1252831	0.56899371	11.04446404	4.007022342	0.0019416	0.035598834	2310014H01Rik	
ILMN_2634083	2.643130943	11.0434095	13.90056345	1.78838E-08	4.20795E-05	Cdkn1a	Mus musculus cyclin-dependent kinase inhibitor 1A (P21) (Cdkn1a), mRNA.
ILMN_1249220	0.643625332	11.04285737	4.053863741	0.001789839	0.034426886	Col6a3	
ILMN_2756704	0.917990489	11.04178195	4.526145422	0.000799645	0.022520285	9130213B05Rik	
ILMN_2851671	0.503283028	11.01412641	4.020960461	0.001895095	0.035552397	Myadm	Mus musculus myeloid-associated differentiation marker (Myadm), mRNA.
ILMN_2694275	0.968836609	11.01045163	4.282810545	0.001206902	0.028070472	Lxn	Mus musculus latexin (Lxn), mRNA.
ILMN_2714787	0.482728133	11.00969387	3.758279992	0.003003268	0.045603623	1110038B12Rik	
ILMN_2434472	0.563335002	11.00660444	5.027386915	0.000351172	0.013920304	Tpd52l1	Mus musculus tumor protein D52-like 1 (Tpd52l1), mRNA.
ILMN_1244211	0.707364715	11.00507607	4.355984572	0.001065526	0.026186033	LOC238943	
ILMN_1217009	1.240262617	10.99920559	6.473309057	3.98288E-05	0.00398676	Rab15	Mus musculus RAB15, member RAS oncogene family (Rab15), mRNA.
ILMN_2927373	2.12733917	10.99263988	10.06301032	5.39058E-07	0.000401986	Ddit3	Mus musculus DNA-damage inducible transcript 3 (Ddit3), mRNA.
ILMN_2768087	1.029812368	10.99237628	4.942885474	0.000402449	0.015147685	Col6a1	
ILMN_1221153	1.164232184	10.98928898	4.081321941	0.001706653	0.033409237	Dsg2	
ILMN_1237116	0.596771403	10.98564153	3.918872425	0.002264466	0.03921404	LOC385403	
ILMN_2640971	0.648889367	10.97999142	4.020324447	0.001897192	0.035563773	Pafah1b3	Mus musculus platelet-activating factor acetylhydrolase, isoform 1b, alpha1 subunit (Pafah1b3), mRNA.
ILMN_2809443	3.463235915	10.97892744	13.79596588	1.93972E-08	4.20795E-05	EG638695	Mus musculus predicted gene, EG638695 (EG638695), mRNA.
ILMN_2755483	0.498320121	10.97050838	3.797353604	0.002803191	0.044019163	Kctd1	
ILMN_2715840	0.9242269	10.96434202	6.412713008	4.33812E-05	0.004093714	C1qg	
ILMN_1228535	0.599382154	10.96375054	4.837840498	0.000477414	0.016927972	Pmp22	
ILMN_2598585	0.837985635	10.96323696	7.113429975	1.66309E-05	0.0023483	Ikbkg	Mus musculus inhibitor of kappaB kinase gamma (Ikbkg), transcript variant 2, mRNA.

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ILMN_1246861	0.821689785	10.96292609	6.287729181	5.1821E-05	0.004563119	Ctss	Mus musculus cathepsin S (Ctss), mRNA.
ILMN_2671572	0.557473585	10.96034273	4.807809055	0.000501448	0.017468696	Smad1	Mus musculus MAD homolog 1 (Drosophila) (Smad1), mRNA.
ILMN_1248843	0.662081743	10.95811778	4.858951493	0.000461246	0.016489931	Gata3	Mus musculus GATA binding protein 3 (Gata3), mRNA.
ILMN_1227240	1.459899663	10.95515585	6.210942406	5.78619E-05	0.004827824	Cdkn2b	
ILMN_3163006	1.091308532	10.95044456	5.853854877	9.76539E-05	0.006455166	Il17re	Mus musculus interleukin 17 receptor E (Il17re), transcript variant 2, mRNA.
ILMN_2795022	0.471637164	10.94894858	4.244501083	0.001288594	0.029091512	Wdr20a	Mus musculus WD repeat domain 20a (Wdr20a), mRNA.
ILMN_2601519	1.342178512	10.94775337	4.850095405	0.000467957	0.016664259	Abp1	Mus musculus amiloride binding protein 1 (amine oxidase, copper-containing) (Abp1), mRNA.
ILMN_2764995	0.898492086	10.94463232	8.229544899	4.0856E-06	0.001120629	Kpnb3	
ILMN_3160137	1.052199701	10.94397978	5.221450768	0.000257773	0.01141232	Aldoc	Mus musculus aldolase 3, C isoform (Aldoc), mRNA.
ILMN_2606804	1.193733658	10.94353463	8.465749231	3.09001E-06	0.000945346	Alcam	
ILMN_2499747	0.653706028	10.94306552	5.409856129	0.000191904	0.009500835	Trim27	
ILMN_2418426	0.60115314	10.94195758	4.236079295	0.001307314	0.029237519	Wig1	
ILMN_2712792	0.718587092	10.94184351	5.676731681	0.000127435	0.007640637	Csnk1e	Mus musculus casein kinase 1, epsilon (Csnk1e), mRNA.
ILMN_1214866	0.719717099	10.93626044	6.49423902	3.8675E-05	0.003927242	Eml1	
ILMN_2599657	0.658761053	10.93547321	4.538949066	0.000782678	0.022208148	Fmnl3	Mus musculus formin-like 3 (Fmnl3), mRNA.
ILMN_2956942	0.573147453	10.92190941	3.909781541	0.002300787	0.039442299	Prkcdbp	Mus musculus protein kinase C, delta binding protein (Prkcdbp), mRNA.
ILMN_1249224	0.427306628	10.91824046	3.841530069	0.002593468	0.041986375	Tpd52l1	Mus musculus tumor protein D52-like 1 (Tpd52l1), mRNA.
ILMN_2747754	1.024807323	10.90980482	4.355376647	0.001066626	0.02618611	Pygb	Mus musculus brain glycogen phosphorylase (Pygb), mRNA.
ILMN_2498471	0.713330501	10.90821362	4.514372545	0.000815585	0.022656932	2310075E07Rik	
ILMN_1249934	1.026675871	10.90625939	5.535626861	0.000158034	0.008749776	Gna13	
ILMN_1260506	1.19334858	10.90584707	5.337993837	0.000214638	0.010223378	Pea15	
ILMN_1249767	0.698584807	10.89278931	5.612163365	0.000140574	0.008078229	Thbd	Mus musculus thrombomodulin (Thbd), mRNA.
ILMN_2679037	0.629034079	10.88130104	3.851900763	0.002546626	0.041594896	Cklfsf3	Mus musculus CKLF-like MARVEL transmembrane domain containing 3 (Cmtm3), mRNA.
ILMN_1232884	1.199214475	10.8776391	5.224695798	0.000256455	0.011396268	Sphk1	
ILMN_2601441	0.450435062	10.87614997	4.757366051	0.000544725	0.018180088	4931406P16Rik	
ILMN_2626401	0.721427725	10.87588371	4.056283214	0.001782343	0.034383219	Amotl1	

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ILMN_1253854	0.821761833	10.87560442	6.502474186	3.82309E-05	0.003898732	Tgif	Mus musculus TG interacting factor 1 (Tgif1), mRNA.
ILMN_1239716	0.430962885	10.86908722	4.269306056	0.001235065	0.028338807	Farp1	
ILMN_1254855	0.459054999	10.86446654	4.534092333	0.000789069	0.022307886	Mknk1	
ILMN_2755511	0.871200051	10.85849158	4.992913505	0.000371206	0.014339722	2310061F22Rik	
ILMN_2870320	0.553784128	10.85479389	4.131805133	0.001564029	0.03198832	Prkd2	Mus musculus protein kinase D2 (Prkd2), mRNA.
ILMN_2721357	1.696596735	10.85333215	7.202430798	1.47898E-05	0.002178577	Lhfpl2	Mus musculus lipoma HMGIC fusion partner-like 2 (Lhfpl2), mRNA.
ILMN_2777769	0.492348195	10.85187487	3.717255462	0.003229235	0.047596809	H2-DMa	
ILMN_3148550	1.124747584	10.84504892	8.037619532	5.14896E-06	0.001181438	Golph2	Mus musculus golgi membrane protein 1 (Golm1), transcript variant 2, mRNA.
ILMN_2993109	0.937269694	10.84466604	4.825689088	0.000486989	0.017165476	Ddit4	Mus musculus DNA-damage-inducible transcript 4 (Ddit4), mRNA.
ILMN_1232209	0.71080645	10.82861593	4.419808594	0.000956339	0.024512482	Pbef1	Mus musculus pre-B-cell colony-enhancing factor 1 (Pbef1), mRNA.
ILMN_2616164	0.608084459	10.82459353	6.07543997	7.04281E-05	0.00540958	Itga3	Mus musculus integrin alpha 3 (Itga3), mRNA.
ILMN_2650275	0.576823184	10.81880411	5.521325653	0.000161544	0.008807827	1810055G02Rik	Mus musculus RIKEN cDNA 1810055G02 gene (1810055G02Rik), mRNA.
ILMN_2726315	0.641861401	10.81605259	5.334886848	0.000215683	0.010232307	Sdf4	
ILMN_2515982	2.756201778	10.80972069	7.402797994	1.1397E-05	0.00191525	Ugt1a9	
ILMN_2769136	1.98548427	10.79863995	7.579666619	9.09117E-06	0.001681725	Mthfd2	
ILMN_1259777	0.629154038	10.79474724	3.830126555	0.002646003	0.042663218	1600029D21Rik	
ILMN_2758264	0.889401888	10.78575597	5.113718226	0.000305843	0.012759311	Cyp2s1	Mus musculus cytochrome P450, family 2, subfamily s, polypeptide 1 (Cyp2s1), mRNA.
ILMN_2624622	1.102320518	10.77937541	5.992597056	7.95185E-05	0.005802907	Akap12	
ILMN_1222734	2.023452716	10.77249235	16.81336734	2.26883E-09	1.35352E-05	Aldh1a1	
ILMN_2420956	0.76257659	10.77136606	5.15862065	0.000284748	0.012177301	Dysf	
ILMN_2857684	0.68369187	10.7672713	3.955993789	0.002122205	0.037698744	Ildr1	Mus musculus immunoglobulin-like domain containing receptor 1 (Ildr1), mRNA.
ILMN_1229318	1.355683065	10.765041	8.060988498	5.00488E-06	0.001174913	Pdk1	
ILMN_3001616	0.955760979	10.76504018	5.386364278	0.000199042	0.009793256	Plp2	Mus musculus proteolipid protein 2 (Plp2), mRNA.
ILMN_2830830	0.380820942	10.76005957	4.136179949	0.001552267	0.031850173	2700094F01Rik	Mus musculus RIKEN cDNA 2700094F01 gene (2700094F01Rik), mRNA.
ILMN_2951682	0.499249814	10.75418728	3.79644861	0.002807666	0.044020582	Cobl	Mus musculus cordon-bleu (Cobl), mRNA.
ILMN_1215919	0.527475265	10.74902025	4.217259756	0.001350176	0.029586099	Egfl7	Mus musculus EGF-like domain 7 (Egfl7), transcript variant b, mRNA.
ILMN_1217969	1.117114289	10.74811893	8.307543492	3.72323E-06	0.00106308	Gpihbp1	

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ILMN_2592476	0.489340933	10.74422262	4.773285481	0.000530658	0.017961831	Nfkb1	
ILMN_2740069	0.637051859	10.73528061	4.225810091	0.001330524	0.029406872	Rassf6	
ILMN_3140913	0.747853275	10.73153603	5.081489126	0.000321997	0.01309485	A630005A06Rik	
ILMN_2660328	0.458192334	10.72820821	4.649666137	0.000650792	0.020126584	2210404D11Rik	Mus musculus UBX domain containing 8 (Ubxd8), mRNA.
ILMN_3128178	0.410421041	10.72787863	4.354338598	0.001068508	0.026202221	Pcqap	Mus musculus mediator complex subunit 15 (Med15), transcript variant 2, mRNA.
ILMN_2745889	0.883301397	10.72303954	4.507430895	0.00082514	0.022789705	Acot2	Mus musculus acyl-CoA thioesterase 2 (Acot2), mRNA.
ILMN_2715802	0.603659135	10.72217762	4.335027169	0.001104157	0.026534226	Hmga1	
ILMN_2692696	1.804740384	10.72129038	8.213367045	4.16541E-06	0.001129536	Pla2g7	Mus musculus phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma) (Pla2g7), mRNA.
ILMN_2502317	2.663169957	10.72102698	4.396128405	0.000995418	0.025243003	Ugt1a13	
ILMN_2711267	1.244310186	10.7181593	8.092560923	4.81707E-06	0.001172956	Krt1-18	Mus musculus keratin 18 (Krt18), mRNA.
ILMN_2774596	0.504457131	10.71723816	4.200334956	0.001389974	0.029878798	Lamc1	
ILMN_2457437	0.60624578	10.7128756	3.91162141	0.002293388	0.039369989	A830080H07Rik	
ILMN_2508001	0.362744213	10.70108105	3.739161415	0.003106475	0.046534721	Cltc	
ILMN_2967266	0.724551146	10.69971605	4.500130567	0.000835314	0.022885311	Fxyd5	Mus musculus FXYD domain-containing ion transport regulator 5 (Fxyd5), mRNA.
ILMN_2416628	0.648863906	10.69498424	3.65586447	0.00360059	0.049901634	Pscd4	
ILMN_2781721	0.623607038	10.69457469	4.436654051	0.000929518	0.02421516	Rab25	Mus musculus RAB25, member RAS oncogene family (Rab25), mRNA.
ILMN_2793817	0.439895853	10.68905791	4.113983844	0.001612907	0.032525949	Cldn15	Mus musculus claudin 15 (Cldn15), mRNA.
ILMN_2975250	2.153734169	10.68208338	9.426203201	1.05137E-06	0.000549767	Sprr1a	Mus musculus small proline-rich protein 1A (Sprr1a), mRNA.
ILMN_2689333	0.555889197	10.67060063	4.267546582	0.001238785	0.028368591	Csnk1e	Mus musculus casein kinase 1, epsilon (Csnk1e), mRNA.
ILMN_2814005	0.686946964	10.66901647	4.382512897	0.00101864	0.025533412	Nid1	Mus musculus nidogen 1 (Nid1), mRNA.
ILMN_2669461	0.693870867	10.6634881	3.803807997	0.002771489	0.043711851	Bbx	
ILMN_1246392	0.642942424	10.66102364	3.673956188	0.003486797	0.049030897	Prom2	Mus musculus prominin 2 (Prom2), transcript variant 2, mRNA.
ILMN_2614842	1.045419691	10.65514924	5.360927579	0.000207088	0.010048794	Gpihbp1	
ILMN_3001914	0.342248338	10.65084805	4.207641846	0.001372645	0.029789167	Nfkbia	Mus musculus nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha (Nfkbia), mRNA.
ILMN_2615513	0.563294724	10.6474803	4.277217176	0.001218485	0.028202425	Frk	Mus musculus fyn-related kinase (Frk), mRNA.
ILMN_1219188	3.09778493	10.6459174	18.22285867	9.38461E-10	1.35352E-05	Akr1b8	Mus musculus aldo-keto reductase family 1, member B8 (Akr1b8), mRNA.

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ILMN_2635631	0.601476311	10.6439129	6.422582228	4.27803E-05	0.004083465	Sema3f	Mus musculus sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3 F (Sema3f), mRNA.
ILMN_1218981	1.407671859	10.64164435	6.386629743	4.5013E-05	0.004179557	Aldh1a7	
ILMN_1257291	0.60761024	10.64057121	4.405916234	0.000979067	0.024961882	D030029J20Rik	
ILMN_1252481	1.332821068	10.62843933	10.82177511	2.54033E-07	0.000219266	Fosl2	Mus musculus fos-like antigen 2 (Fosl2), mRNA.
ILMN_2622801	0.638086132	10.62385033	4.722928359	0.000576512	0.018869922	Sh3bgrl2	
ILMN_1250928	0.714694221	10.62017418	3.936558221	0.002195496	0.038501851	Atbf1	
ILMN_1219162	0.325551889	10.61583296	3.866331057	0.002482899	0.041079672	4933407H13Rik	
ILMN_2420434	0.450898612	10.6137638	4.710382059	0.000588572	0.019056545	5530401J07Rik	
ILMN_2977129	0.991409803	10.61330793	6.599015502	3.34117E-05	0.003607703	Atp8b1	Mus musculus ATPase, class I, type 8B, member 1 (Atp8b1), mRNA.
ILMN_2700166	0.741984128	10.61195619	3.954678959	0.002127083	0.037698744	Ccnd2	
ILMN_2656268	0.598690012	10.61155628	4.488907464	0.000851213	0.023134971	Fmnl2	
ILMN_1253819	1.344095912	10.60709996	4.866396143	0.000455683	0.016469596	Prkar2b	
ILMN_2499746	0.526274189	10.60234611	5.604325654	0.000142264	0.008078229	Trim27	
ILMN_2681516	0.736417875	10.60184942	5.909918626	8.98456E-05	0.006149465	Slc39a6	
ILMN_2734097	0.96320711	10.59386043	5.895599011	9.17747E-05	0.006204021	Btc	Mus musculus betacellulin, epidermal growth factor family member (Btc), mRNA.
ILMN_2680086	0.518507883	10.59283003	3.88202637	0.002415455	0.040392427	4930418P06Rik	Mus musculus rhomboid domain containing 1 (Rhbdd1), mRNA.
ILMN_2760840	0.435652385	10.58900458	4.341423761	0.001092213	0.026478999	Ppp1r8	Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 8 (Ppp1r8), mRNA.
ILMN_1219474	0.516969264	10.58562455	3.700648322	0.003325624	0.048209189	6430548M08Rik	
ILMN_2630512	0.37492089	10.58470234	3.758106895	0.003004186	0.045603623	1200013F24Rik	
ILMN_1225528	3.262999066	10.5827549	15.87860758	4.23548E-09	1.79453E-05	Trib3	
ILMN_1246876	1.036265209	10.57938327	6.531518091	3.67074E-05	0.003791987	Kit	
ILMN_2634933	1.038933682	10.57810483	4.448501679	0.000911126	0.023840137	Il17re	Mus musculus interleukin 17 receptor E (Il17re), transcript variant 1, mRNA.
ILMN_1245994	0.802841487	10.57309525	4.460669342	0.000892633	0.02367177	Flna	
ILMN_2645493	1.065198219	10.56556532	9.033207182	1.61682E-06	0.000642591	Pvrl2	Mus musculus poliovirus receptor-related 2 (Pvrl2), mRNA.
ILMN_2568516	0.48669069	10.56314485	4.988053569	0.000374126	0.01435332	Rbpms	
ILMN_2430813	0.99220931	10.55789119	5.449857548	0.000180366	0.009211619	Pdlim7	
ILMN_1246609	1.099840167	10.55410045	5.953792267	8.41988E-05	0.005918704	Rasgrp1	Mus musculus RAS guanyl releasing protein 1 (Rasgrp1), mRNA.

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ILMN_2721337	0.707346684	10.55309486	5.645872411	0.000133544	0.007850081	G6pdx	
ILMN_2820260	0.460041956	10.55171741	5.455844098	0.000178704	0.009211619	Wdr77	Mus musculus WD repeat domain 77 (Wdr77), mRNA.
ILMN_2627328	0.854152882	10.55079648	5.154578489	0.000286582	0.012184885	Dnase2a	
ILMN_2729771	0.395195032	10.54667898	3.772437064	0.002929127	0.044950328	Rrn3	
ILMN_1242427	0.539791865	10.54458253	4.618046601	0.000685893	0.020850283	6720458D17Rik	
ILMN_1220121	1.486724509	10.5317408	7.604801657	8.8064E-06	0.001667834	Kif23	
ILMN_2715042	0.444156861	10.52611833	4.243357798	0.001291119	0.029093462	Sdc3	
ILMN_2788073	2.491995731	10.52389887	7.867377072	6.3431E-06	0.001293722	Hmox1	Mus musculus heme oxygenase (decycling) 1 (Hmox1), mRNA.
ILMN_2611755	0.784820297	10.51896977	6.621540583	3.23833E-05	0.003525473	Serpinb6b	Mus musculus serine (or cysteine) peptidase inhibitor, clade B, member 6b (Serpinb6b), mRNA.
ILMN_1260446	0.452676036	10.5177144	4.030585428	0.001863656	0.035128304	Ttc3	Mus musculus tetratricopeptide repeat domain 3 (Ttc3), mRNA.
ILMN_1240615	0.798695177	10.51255811	4.700343788	0.000598411	0.0191934	Olfm1	
ILMN_2497526	0.486666497	10.51209877	3.694689681	0.003360926	0.048343441	Usp48	
ILMN_2755585	0.536085691	10.50940247	4.157124285	0.00149722	0.031230912	Avpi1	Mus musculus arginine vasopressin-induced 1 (Avpi1), mRNA.
ILMN_2702540	0.875905139	10.50636831	7.587026371	9.00678E-06	0.00167913	Chka	
ILMN_2711948	1.553354828	10.50284356	9.84290793	6.76386E-07	0.000424753	Slc7a5	Mus musculus solute carrier family 7 (cationic amino acid transporter, y+ system), member 5 (Slc7a5), mRNA.
ILMN_1212835	2.516522461	10.49889701	7.378430471	1.17609E-05	0.001948959	Ugt1a6a	Mus musculus UDP glucuronosyltransferase 1 family, polypeptide A6A (Ugt1a6a), mRNA.
ILMN_2672543	0.688491403	10.49580779	5.506900644	0.000165168	0.008826679	DXImx50e	
ILMN_2754435	0.633866862	10.48878534	4.50856386	0.000823572	0.022772772	Ldb2	
ILMN_2748222	0.555061329	10.48861914	4.00719448	0.001941019	0.035598834	Tesc	
ILMN_1230157	0.540710914	10.48762687	4.525023142	0.00080115	0.022520285	Rhoe	
ILMN_2644632	0.734138324	10.48300788	4.578393801	0.00073274	0.021533709	Stxbp1	Mus musculus syntaxin binding protein 1 (Stxbp1), mRNA.
ILMN_1228320	0.951879391	10.48045539	3.812021184	0.002731682	0.043370676	Pfc	
ILMN_2511913	0.779201688	10.4761855	5.771645609	0.000110435	0.006956012	Wnt5a	Mus musculus wingless-related MMTV integration site 5A (Wnt5a), mRNA.
ILMN_2723860	1.407314792	10.47355446	6.883586654	2.26193E-05	0.00277167	Pkm2	
ILMN_2711163	0.725799413	10.46928243	5.499829648	0.000166976	0.008854546	Ctsk	Mus musculus cathepsin K (Ctsk), mRNA.
ILMN_3154419	0.987164309	10.46763942	6.823114618	2.45529E-05	0.002929529	P2ry14	
ILMN_1220360	0.536834073	10.46505707	3.804315332	0.002769012	0.043701681	Unc13b	

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ILMN_2629601	1.055155423	10.45974194	8.058166298	5.02205E-06	0.001174913	Slc4a7	
ILMN_1229553	0.979965758	10.45417775	6.803610871	2.52136E-05	0.002993397	Igsf3	
ILMN_1259388	0.836648334	10.45291223	4.379615558	0.001023654	0.02557504	Col6a1	
ILMN_2954881	0.911148955	10.44686681	8.140963518	4.54369E-06	0.001172956	Tcirg1	Mus musculus T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 protein A3 (Tcirg1), mRNA.
ILMN_3137552	0.720194563	10.44280274	4.648507564	0.000652044	0.020129023	Mtap2	
ILMN_1214608	0.682111946	10.44251867	4.941749855	0.000403189	0.01515166	Plxnd1	
ILMN_2682120	1.351738888	10.44085058	5.418258909	0.000189417	0.009418976	Scel	
ILMN_2822825	2.427947914	10.43836214	10.51002535	3.44168E-07	0.000273762	Fbxo2	Mus musculus F-box protein 2 (Fbxo2), mRNA.
ILMN_1255834	0.60816601	10.4342071	4.809593393	0.000499985	0.017468696	Stk17b	Mus musculus serine/threonine kinase 17b (apoptosis-inducing) (Stk17b), mRNA.
ILMN_1227836	1.116029048	10.43406017	3.92276709	0.002249087	0.039118054	Arpc1b	Mus musculus actin related protein 2/3 complex, subunit 1B (Arpc1b), mRNA.
ILMN_1229994	1.119452152	10.43088227	4.992014851	0.000371744	0.014339722	Npn3	Mus musculus sulfiredoxin 1 homolog (S. cerevisiae) (Srxn1), mRNA.
ILMN_2734693	0.813361871	10.429393	5.064936951	0.000330642	0.013350422	Ildr1	Mus musculus immunoglobulin-like domain containing receptor 1 (Ildr1), mRNA.
ILMN_2746783	0.655798301	10.42175557	4.808256319	0.000501081	0.017468696	Fa2h	Mus musculus fatty acid 2-hydroxylase (Fa2h), mRNA.
ILMN_2644025	0.90063525	10.41757279	3.983093811	0.002024219	0.036538534	Hk1	
ILMN_2638721	0.439418465	10.41593085	4.520763241	0.000806891	0.022520285	BC035295	
ILMN_2850233	1.131762476	10.41449964	5.298096191	0.000228476	0.010525313	Elf3	Mus musculus E74-like factor 3 (Elf3), mRNA.
ILMN_1222716	0.548044283	10.40941414	5.047087142	0.000340238	0.013645565	Sgcb	
ILMN_2632585	0.627109171	10.39930336	6.716223265	2.84163E-05	0.003229044	Marveld3	
ILMN_2447991	1.323046398	10.3956394	6.437010663	4.19177E-05	0.004066192	A730054J21Rik	
ILMN_2525025	0.356662009	10.39382972	3.812146888	0.002731077	0.043370676	D330050I23Rik	
ILMN_2456776	0.382122439	10.39019458	3.835164821	0.002622658	0.042401407	scl0001345.1_85	
ILMN_2784230	0.902953356	10.38821784	4.541025536	0.000779962	0.022202893	St8sia4	Mus musculus ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4 (St8sia4), mRNA.
ILMN_2717716	0.605313371	10.38189278	4.282217591	0.001208124	0.028071543	Rapgef5	
ILMN_1217723	0.768544153	10.3781763	7.308212111	1.28811E-05	0.00203898	Stau2	
ILMN_2673323	0.918790839	10.3760622	5.798897174	0.000106012	0.006872708	Sema3c	
ILMN_1221703	0.532475779	10.37283017	5.569632646	0.000150008	0.008402899	Abca7	Mus musculus ATP-binding cassette, sub-family A (ABC1), member 7 (Abca7), mRNA.
ILMN_1241915	0.729388318	10.37040233	4.774347219	0.000529733	0.017961831	Notch1	Mus musculus Notch gene homolog 1 (Drosophila) (Notch1), mRNA.
ILMN_1241827	0.6801352	10.36830558	4.181499654	0.001435704	0.030426466	Slc44a1	Mus musculus solute carrier family 44, member

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							1 (Slc44a1), mRNA.
ILMN_2624209	0.83902448	10.35566566	4.571614978	0.000741079	0.021678851	St14	
ILMN_1216880	1.002987161	10.35443916	5.545955264	0.000155549	0.008644125	Emr1	Mus musculus EGF-like module containing, mucin-like, hormone receptor-like sequence 1 (Emr1), mRNA.
ILMN_2718217	0.79613683	10.35152032	5.100396672	0.000312414	0.012910982	2310057H16Rik	Mus musculus tubulin, beta 6 (Tubb6), mRNA.
ILMN_2734683	0.550602777	10.31478229	3.729189355	0.00316175	0.047043484	Fstl1	Mus musculus follistatin-like 1 (Fstl1), mRNA.
ILMN_2556157	0.378449791	10.31252797	3.706329223	0.003292322	0.048051796	3010027N08Rik	
ILMN_1230766	0.771732997	10.30787206	5.934842772	8.659E-05	0.006006674	Scmh1	
ILMN_2876755	1.745086178	10.30403662	9.165583343	1.39638E-06	0.000628715	Defb42	Mus musculus defensin beta 42 (Defb42), mRNA.
ILMN_1239397	3.067613039	10.30053038	6.42493375	4.26384E-05	0.004083465	Hk2	Mus musculus hexokinase 2 (Hk2), mRNA.
ILMN_2611180	1.121073927	10.29592345	4.1730727	0.001456668	0.030687118	Ccdc3	
ILMN_2700168	0.695486424	10.29494992	4.237278711	0.001304631	0.029237519	Ccnd2	
ILMN_2518197	0.442954027	10.2925805	4.142707563	0.001534889	0.031662552	Tnk1	Mus musculus tyrosine kinase, non-receptor, 1 (Tnk1), mRNA.
ILMN_2928160	0.577304221	10.29000895	4.482388129	0.000860594	0.023204922	Vars	Mus musculus valyl-tRNA synthetase (Vars), mRNA.
ILMN_2677092	0.481632053	10.28960067	3.937991768	0.002190001	0.038483064	Nutf2	Mus musculus nuclear transport factor 2 (Nutf2), mRNA.
ILMN_2599794	1.766707836	10.28881165	6.85390499	2.35472E-05	0.002837915	Apoc1	Mus musculus apolipoprotein C-I (Apoc1), mRNA.
ILMN_2596979	0.691197467	10.28661331	4.002519334	0.001956876	0.035646521	Nrarp	
ILMN_2876482	0.506454711	10.28600084	4.931851249	0.000409705	0.015276248	Bzw2	Mus musculus basic leucine zipper and W2 domains 2 (Bzw2), mRNA.
ILMN_2923607	1.606767288	10.28193909	7.464763543	1.05248E-05	0.001867043	Phlda3	Mus musculus pleckstrin homology-like domain, family A, member 3 (Phlda3), mRNA.
ILMN_1249975	2.012964344	10.28176889	4.096769368	0.001661629	0.032881451	AU044919	
ILMN_1234959	0.379405123	10.27913795	3.716701208	0.003232405	0.047600766	Whsc1	
ILMN_2744356	0.830662125	10.26285617	6.255491102	5.42711E-05	0.004648671	Arbp	Mus musculus acidic ribosomal phosphoprotein P0 (Arbp), mRNA.
ILMN_2755008	0.716224173	10.26135596	3.677575481	0.00346448	0.04900563	Nfkbiz	
ILMN_2974720	0.527631042	10.25706897	5.669437113	0.000128851	0.007706222	Igf2bp2	Mus musculus insulin-like growth factor 2 mRNA binding protein 2 (Igf2bp2), mRNA.
ILMN_1250438	0.925853627	10.25353677	6.010356874	7.74696E-05	0.005742983	Mlp	
ILMN_2737710	0.700160407	10.25227329	4.18648144	0.001423458	0.030301505	Tiam1	Mus musculus T-cell lymphoma invasion and metastasis 1 (Tiam1), mRNA.
ILMN_2937542	1.000629413	10.2468494	6.373267733	4.58743E-05	0.004210375	Col18a1	Mus musculus procollagen, type XVIII, alpha 1 (Col18a1), mRNA.

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ILMN_2648098	0.965584016	10.2350758	5.985112572	8.03992E-05	0.005831509	Srgap2	
ILMN_1240726	0.826181093	10.23457	3.782448265	0.00287784	0.044724789	Mmp14	Mus musculus matrix metallopeptidase 14 (membrane-inserted) (Mmp14), mRNA.
ILMN_1252628	0.786810924	10.22911146	8.16483902	4.41502E-06	0.001158147	Mal2	Mus musculus mal, T-cell differentiation protein 2 (Mal2), mRNA.
ILMN_2826264	0.937616217	10.22705059	4.801873233	0.000506347	0.017588018	Serinc2	Mus musculus serine incorporator 2 (Serinc2), mRNA.
ILMN_2491419	0.430338451	10.22634772	4.393573247	0.000999734	0.025271868	Kif3b	
ILMN_1248830	0.875526614	10.22089188	4.345889168	0.001083955	0.026401249	Hist1h2an	Mus musculus histone cluster 1, H2an (Hist1h2an), mRNA.
ILMN_2645845	0.848656133	10.21784596	4.356257865	0.001065031	0.026186033	Spint2	
ILMN_2474858	0.710858054	10.21680606	4.422560986	0.000951902	0.024466329	Tnfaip2	Mus musculus tumor necrosis factor, alpha-induced protein 2 (Tnfaip2), mRNA.
ILMN_1221952	0.913872437	10.20833185	4.694968541	0.000603751	0.019248961	Steap	Mus musculus six transmembrane epithelial antigen of the prostate 1 (Steap1), mRNA.
ILMN_2630646	1.735818001	10.20495798	8.283469354	3.83124E-06	0.00106308	Pappa	
ILMN_2695944	3.11371308	10.2037663	5.682276609	0.000126369	0.007596807	Sprr2f	
ILMN_2418855	2.339577557	10.1959062	8.104570972	4.74762E-06	0.001172956	Ugt1a6a	Mus musculus UDP glucuronosyltransferase 1 family, polypeptide A6A (Ugt1a6a), mRNA.
ILMN_2631704	0.581197479	10.19383183	3.899356957	0.00234318	0.039910995	Cfi	
ILMN_2777798	0.587964284	10.19362264	6.559641067	3.52939E-05	0.003710211	Ptp4a1	
ILMN_2617468	2.480053992	10.1830785	7.318988056	1.2702E-05	0.00203898	1810008K03Rik	Mus musculus ChaC, cation transport regulator-like 1 (E. coli) (Chac1), mRNA.
ILMN_1244187	0.92600802	10.18275857	5.955251275	8.40176E-05	0.005918704	2310057G13Rik	
ILMN_2598103	0.871964119	10.17725398	5.263097262	0.000241391	0.01095118	Emp2	
ILMN_1215791	0.809918847	10.17414834	4.036546531	0.001844457	0.034987507	Alox5ap	
ILMN_1228654	0.919438883	10.17025608	7.203512825	1.47688E-05	0.002178577	2010007E07Rik	
ILMN_2506727	0.943382655	10.16870122	5.466112146	0.00017589	0.009124494	9430052C07Rik	
ILMN_2657478	0.742623259	10.16152143	4.992754956	0.000371301	0.014339722	Cd53	
ILMN_2974041	0.519408853	10.1597521	4.701522148	0.000597247	0.01918185	Pmm1	Mus musculus phosphomannomutase 1 (Pmm1), mRNA.
ILMN_2505185	0.96010399	10.15819042	6.269857766	5.31643E-05	0.004619736	Sox4	
ILMN_1253634	0.64678241	10.1556347	4.039524242	0.001834944	0.034862471	Amotl1	
ILMN_2642815	1.004249167	10.15240636	5.965084411	8.28073E-05	0.005896485	BC010552	Mus musculus solute carrier family 44, member 3 (Slc44a3), mRNA.
ILMN_2424703	0.652681645	10.15210388	7.205048316	1.47391E-05	0.002178577	4933426L22Rik	
ILMN_1242619	0.56971682	10.15174763	4.582762115	0.000727419	0.021456599	4931400A14Rik	
ILMN_1231814	0.736007363	10.1485255	3.877885554	0.002433062	0.040629924	Ccl5	Mus musculus chemokine (C-C motif) ligand 5

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							(Ccl5), mRNA.
ILMN_2898319	2.825441189	10.14567727	16.85013598	2.21526E-09	1.35352E-05	Aldh1l2	Mus musculus aldehyde dehydrogenase 1 family, member L2 (Aldh1l2), mRNA.
ILMN_2847144	0.647240471	10.12876113	3.916373065	0.002274392	0.039300374	Hist1h2ak	Mus musculus histone cluster 1, H2ak (Hist1h2ak), mRNA.
ILMN_1231490	0.581390527	10.117563	5.062325573	0.000332028	0.013383739	2410006H16Rik	
ILMN_1246108	0.815235721	10.1163425	4.39186748	0.001002625	0.025318147	Hist1h2ah	Mus musculus histone cluster 1, H2ah (Hist1h2ah), mRNA.
ILMN_2640927	0.339748197	10.10941374	3.705463322	0.003297376	0.048074549	Slc23a2	Mus musculus solute carrier family 23 (nucleobase transporters), member 2 (Slc23a2), mRNA.
ILMN_2727116	0.990714595	10.10780166	6.504588189	3.81177E-05	0.003898732	Sox4	
ILMN_2758215	0.468683884	10.10722932	5.314759616	0.000222585	0.010394211	C030027K23Rik	
ILMN_1244819	0.360990453	10.10246641	3.729122701	0.003162123	0.047043484	Spg20	
ILMN_2518483	0.364465235	10.09992823	4.588258616	0.00072078	0.021394912	Pla2g12a	
ILMN_2644630	1.125358462	10.09739795	6.943683345	2.08583E-05	0.002719898	Hig1	Mus musculus HIG1 domain family, member 1A (Higd1a), mRNA.
ILMN_2735429	0.992099614	10.09673129	5.621774538	0.00013853	0.008004216	AW146242	Mus musculus expressed sequence AW146242 (AW146242), mRNA.
ILMN_2955452	0.777281492	10.09408103	6.406801411	4.37454E-05	0.004093714	Mapk13	Mus musculus mitogen activated protein kinase 13 (Mapk13), mRNA.
ILMN_2677824	1.099849706	10.08926477	8.188688084	4.2904E-06	0.001150357	E430021N18Rik	
ILMN_2596396	0.691459565	10.0882041	6.203972234	5.84462E-05	0.004842715	Grasp	
ILMN_1235347	0.521601239	10.08652587	4.062440879	0.001763411	0.034183816	Frag1	
ILMN_1250116	0.927998698	10.08304734	5.591849101	0.000144999	0.008160619	scl0001849.1_2273	
ILMN_1255342	0.725345943	10.08177435	4.102201685	0.001646091	0.032706637	St14	
ILMN_2658815	0.884375699	10.08125151	3.921745033	0.002253113	0.039159522	Tmem98	Mus musculus transmembrane protein 98 (Tmem98), mRNA.
ILMN_2760043	0.427363128	10.08027214	4.175227892	0.001451276	0.030647615	Fnbp3	
ILMN_2473692	0.822029652	10.07420035	5.793154051	0.000106928	0.006877676	1110059G02Rik	
ILMN_1218866	0.651285542	10.07328264	4.106229542	0.001634668	0.032612308	Sept8	Mus musculus septin 8 (Sept8), mRNA.
ILMN_2521065	0.399870434	10.07049994	3.846114561	0.002572652	0.041828621	Top1	
ILMN_2846775	1.711577691	10.06897419	11.60824671	1.21861E-07	0.000151872	Cdkn1a	Mus musculus cyclin-dependent kinase inhibitor 1A (P21) (Cdkn1a), mRNA.
ILMN_2729103	0.648218774	10.06761163	4.558770539	0.000757152	0.021831509	Adamts2	
ILMN_2435392	0.936115909	10.06276145	6.579425655	3.43343E-05	0.003657681	Dnase2a	
ILMN_2671923	0.597671247	10.06169924	4.448930884	0.000910467	0.023840137	Ly86	Mus musculus lymphocyte antigen 86 (Ly86), mRNA.

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ILMN_2524691	0.725692522	10.05803302	4.815216609	0.000495404	0.017385036	1190002N15Rik	
ILMN_2830837	0.484930407	10.05624221	4.712024296	0.000586978	0.019056545	2700094F01Rik	Mus musculus RIKEN cDNA 2700094F01 gene (2700094F01Rik), mRNA.
ILMN_3011353	0.733229082	10.05507942	4.600761633	0.000705916	0.021190964	Mbp	Mus musculus myelin basic protein (Mbp), transcript variant 8, mRNA.
ILMN_2959292	0.667753368	10.05068789	4.940076352	0.000404283	0.015166059	Upp1	Mus musculus uridine phosphorylase 1 (Upp1), mRNA.
ILMN_2638781	0.806342683	10.04458147	6.180367161	6.04723E-05	0.004946176	2310057G13Rik	
ILMN_1234336	0.387028334	10.0411549	4.008353007	0.00193711	0.035598834	Csda	
ILMN_2596998	0.799019981	10.03801826	5.478573336	0.000172538	0.009034583	2310010M24Rik	Mus musculus RIKEN cDNA 2310010M24 gene (2310010M24Rik), mRNA.
ILMN_2474378	2.904068442	10.03452278	4.120796046	0.001594038	0.03231821	Ugt1a13	
ILMN_1257327	0.502471946	10.03428489	4.389196102	0.001007172	0.025352465	Rod1	
ILMN_2592620	0.376817258	10.02906228	3.799024592	0.002794948	0.043965612	Rhog	Mus musculus ras homolog gene family, member G (Rhog), mRNA.
ILMN_2793329	0.756899821	10.02536367	6.359827579	4.67583E-05	0.004242558	Gstp1	Mus musculus glutathione S-transferase, pi 1 (Gstp1), mRNA.
ILMN_2795040	0.804290621	10.02084177	4.968126709	0.000386353	0.014636926	Hist1h2ad	Mus musculus histone cluster 1, H2ad (Hist1h2ad), mRNA.
ILMN_1251504	1.176910942	10.0200291	9.01887145	1.64285E-06	0.000642591	Cyp4v3	
ILMN_2987685	0.586948807	10.01609559	3.893841476	0.002365936	0.04011611	Ctsd	Mus musculus cathepsin D (Ctsd), mRNA.
ILMN_2777319	1.063461116	10.01456429	6.033457444	7.48881E-05	0.005637398	Stc1	
ILMN_2645872	1.155753732	10.01386332	6.319786086	4.95013E-05	0.004407652	Sim2	
ILMN_2814484	0.847457534	10.00603057	4.286037725	0.001200272	0.028007353	Ifitm1	Mus musculus interferon induced transmembrane protein 1 (Ifitm1), mRNA.
ILMN_2822552	0.757284755	10.00387268	5.797243316	0.000106275	0.006872708	Ubtd2	Mus musculus ubiquitin domain containing 2 (Ubtd2), mRNA.
ILMN_1220034	1.216967698	9.999165003	4.458152552	0.000896426	0.023708067	Junb	Mus musculus Jun-B oncogene (Junb), mRNA.
ILMN_2622804	0.615389438	9.998602892	4.676008555	0.000622989	0.019638557	Sh3bgrl2	
ILMN_2967455	0.441184461	9.995769234	3.871283055	0.002461412	0.040925426	Ppp1r13b	Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 13B (Ppp1r13b), mRNA.
ILMN_2550095	0.709934258	9.995191724	4.58475101	0.000725009	0.02143853	6230425C21Rik	
ILMN_3118169	0.439474398	9.980328208	4.932750551	0.000409109	0.015276248	Jmjd1a	Mus musculus jumonji domain containing 1A (Jmjd1a), transcript variant 1, mRNA. XM_895834 XM_895843 XM_895849 XM_895856 XM_895859 XM_895866 XM_895873 XM_909665 XM_921390 XM_921393 XM_921399 XM_921405

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							XM_921412 XM_921421 XM_921426 XM_921433 XM_921440 XM_921445 XM_921451
ILMN_3151149	1.248833953	9.972097061	4.938252354	0.000405479	0.015166059	Cpne8	Mus musculus copine VIII (Cpne8), transcript variant 2, mRNA.
ILMN_2621448	2.323067886	9.96837779	15.78660029	4.51209E-09	1.79453E-05	Adh7	Mus musculus alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide (Adh7), mRNA.
ILMN_1214521	0.85635507	9.966992923	5.254063651	0.000244849	0.011069633	LOC218482	
ILMN_1249815	0.977465662	9.964502957	6.967675085	2.01967E-05	0.002648101	Arbp	Mus musculus acidic ribosomal phosphoprotein P0 (Arbp), mRNA.
ILMN_2866267	0.9863761	9.963897085	5.975732929	8.15176E-05	0.005852537	F2rl1	Mus musculus coagulation factor II (thrombin) receptor-like 1 (F2rl1), mRNA.
ILMN_2742075	0.697031534	9.962058902	5.162653971	0.00028293	0.012143071	Cd14	
ILMN_2611027	0.47160422	9.960568853	4.660849775	0.000638833	0.019878039	Pmm1	Mus musculus phosphomannomutase 1 (Pmm1), mRNA.
ILMN_2701815	0.564310935	9.955372324	4.583882458	0.00072606	0.021443041	Plxna2	
ILMN_1247054	0.456293008	9.95163004	5.446984683	0.00018117	0.009211619	Clasp1	
ILMN_2628567	1.470845365	9.948883907	6.539847093	3.62826E-05	0.003782173	Phlda3	Mus musculus pleckstrin homology-like domain, family A, member 3 (Phlda3), mRNA.
ILMN_2770609	1.172121092	9.946592956	7.432665431	1.09673E-05	0.001882819	Ier5l	
ILMN_2770917	0.41837192	9.946276971	4.906069795	0.000427203	0.01574471	Blvrb	
ILMN_2698115	0.379523033	9.945998543	4.283578338	0.001205321	0.028061052	2610020N02Rik	Mus musculus LTV1 homolog (S. cerevisiae) (Ltv1), mRNA.
ILMN_3091003	0.855290011	9.943030229	4.695277029	0.000603443	0.019248961	Ms4a7	
ILMN_2837671	0.944539176	9.942283316	5.036116933	0.000346282	0.013800661	Fblim1	Mus musculus filamin binding LIM protein 1 (Fblim1), mRNA.
ILMN_2609412	0.500802567	9.937498113	5.275155173	0.000236856	0.010807087	Pip5k1b	
ILMN_2656422	0.79394046	9.936230816	3.966096761	0.002085113	0.037318432	BC028528	Mus musculus cDNA sequence BC028528 (BC028528), mRNA.
ILMN_2746456	0.756704493	9.924685526	7.293357293	1.31324E-05	0.00204822	Tcirg1	Mus musculus T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 protein A3 (Tcirg1), mRNA.
ILMN_2731454	0.72518016	9.923946835	5.065038852	0.000330588	0.013350422	Evl	Mus musculus Ena-vasodilator stimulated phosphoprotein (Evl), mRNA. XM_923143
ILMN_2750089	0.863601109	9.915613322	5.012892364	0.000359453	0.014131184	Slc38a3	Mus musculus solute carrier family 38, member 3 (Slc38a3), mRNA.
ILMN_1257070	0.983834894	9.915478825	6.858762229	2.33926E-05	0.002834057	Tcfcp2l3	
ILMN_2786442	0.973660371	9.9076016	5.070645046	0.000327633	0.013273873	Ptges	Mus musculus prostaglandin E synthase (Ptges), mRNA.

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ILMN_1260448	0.991905741	9.896318542	9.941315984	6.10816E-07	0.000416454	Plk2	Mus musculus polo-like kinase 2 (Drosophila) (Plk2), mRNA.
ILMN_1234419	0.981935857	9.893470001	5.513412912	0.000163521	0.008808363	Bag2	
ILMN_2489147	0.465164453	9.891775985	4.568663356	0.00074474	0.021699316	6330407I18Rik	
ILMN_2926198	0.731526412	9.883851551	4.85986259	0.000460561	0.016489931	2310016C08Rik	Mus musculus RIKEN cDNA 2310016C08 gene (2310016C08Rik), mRNA.
ILMN_2703698	1.143924572	9.88347427	5.8572848	9.71561E-05	0.006440097	Tdrkh	
ILMN_2675669	0.686678858	9.88346452	4.347089908	0.001081746	0.026401249	Cd72	Mus musculus CD72 antigen (Cd72), mRNA.
ILMN_1247592	0.500617563	9.877313313	3.899909965	0.002340911	0.039910995	Casp1	
ILMN_1227008	0.48788028	9.873495192	3.6902746	0.003387332	0.048460368	Csnk2a2	
ILMN_1214353	0.855823878	9.869214671	7.504125829	1.00081E-05	0.001809267	Ifrd1	
ILMN_1242170	0.605254139	9.860894887	3.88611549	0.002398196	0.040214634	Adra2a	
ILMN_1235493	0.589042264	9.860848825	4.209849811	0.001367452	0.029746142	Fxyd5	Mus musculus FXYD domain-containing ion transport regulator 5 (Fxyd5), mRNA.
ILMN_2742849	0.533740274	9.860126796	3.959565144	0.002109016	0.037529789	Mcm5	
ILMN_2654997	1.092971973	9.857762733	4.058158674	0.001776554	0.034354875	5730453H04Rik	
ILMN_1230375	1.339776991	9.856387131	4.912094892	0.000423045	0.015675298	LOC383125	
ILMN_3006123	1.80842528	9.846890744	6.897614844	2.21945E-05	0.00277167	Asns	Mus musculus asparagine synthetase (Asns), mRNA.
ILMN_1253182	0.719102803	9.844370105	4.30425164	0.001163556	0.02756042	Hs3st1	Mus musculus heparan sulfate (glucosamine) 3-O-sulfotransferase 1 (Hs3st1), mRNA.
ILMN_2422360	0.615452563	9.843267832	4.054729758	0.001787152	0.034426886	1110036D12Rik	
ILMN_2953751	0.498985805	9.838337216	4.113654145	0.001613826	0.032525949	Sec14l1	Mus musculus SEC14-like 1 (S. cerevisiae) (Sec14l1), mRNA.
ILMN_2766755	0.738033566	9.837692765	5.503333813	0.000166077	0.008846211	1700012H17Rik	
ILMN_2821460	0.509974972	9.83570042	4.105801715	0.001635877	0.032612308	Ptpn18	Mus musculus protein tyrosine phosphatase, non-receptor type 18 (Ptpn18), mRNA.
ILMN_2512463	1.498663142	9.83441591	7.995526599	5.41983E-06	0.001196191	2610016A17Rik	
ILMN_2777427	0.468334661	9.834187309	4.219798947	0.001344309	0.029566123	LOC329416	
ILMN_2623280	0.881892676	9.825924283	5.131523593	0.000297287	0.012489713	Osmr	Mus musculus oncostatin M receptor (Osmr), mRNA.
ILMN_1239430	1.414817373	9.822085886	8.915180625	1.84515E-06	0.000647512	Mrc1	Mus musculus mannose receptor, C type 1 (Mrc1), mRNA.
ILMN_2769945	0.476876841	9.816725812	3.913922652	0.002284168	0.039305637	BC014795	
ILMN_1232537	0.908154779	9.813305184	4.492234668	0.000846467	0.02303441	Arl4c	Mus musculus ADP-ribosylation factor-like 4C (Arl4c), mRNA.
ILMN_1212692	0.715132145	9.806909239	5.360358096	0.000207272	0.010048794	Mapk13	Mus musculus mitogen activated protein kinase 13 (Mapk13), mRNA.

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ILMN_3065164	0.870741538	9.793411777	5.222440993	0.00025737	0.01141232	Bex2	Mus musculus brain expressed X-linked 2 (Bex2), mRNA.
ILMN_2623793	0.613210876	9.790876132	3.932955139	0.002209368	0.038652604	Atbf1	
ILMN_2618148	1.003711336	9.78198326	5.09660589	0.000314311	0.012954058	C330008K14Rik	
ILMN_2517041	1.160087371	9.779528368	9.128590467	1.45453E-06	0.000630202	Uhrf1	Mus musculus ubiquitin-like, containing PHD and RING finger domains, 1 (Uhrf1), mRNA.
ILMN_2904321	0.634256424	9.774421595	4.018365068	0.001903666	0.035598834	Akt3	Mus musculus thymoma viral proto-oncogene 3 (Akt3), mRNA.
ILMN_1221243	1.101283856	9.770466643	8.98447168	1.70718E-06	0.000642591	Rhobtb3	Mus musculus Rho-related BTB domain containing 3 (Rhobtb3), mRNA.
ILMN_1215755	0.496847654	9.769839325	4.13168168	0.001564362	0.03198832	Grwd1	Mus musculus glutamate-rich WD repeat containing 1 (Grwd1), mRNA.
ILMN_2712900	0.821912252	9.766985906	6.166276384	6.17174E-05	0.005009393	Sars1	
ILMN_2576590	1.715407727	9.761460319	11.05948532	2.02512E-07	0.000203408	Ddx26	
ILMN_2977624	0.471472099	9.754844029	4.128192448	0.001573811	0.032099022	Rrm1	Mus musculus ribonucleotide reductase M1 (Rrm1), mRNA.
ILMN_3002505	0.639823427	9.752011791	5.690755837	0.000124757	0.007575263	Abhd8	Mus musculus abhydrolase domain containing 8 (Abhd8), mRNA.
ILMN_2753604	0.561065975	9.750729046	3.90588685	0.002316532	0.03959842	2810404F18Rik	Mus musculus CDC42 small effector 2 (Cdc42se2), mRNA.
ILMN_2798340	0.452068169	9.74095975	3.866624969	0.002481619	0.041079672	Tmem63a	Mus musculus transmembrane protein 63a (Tmem63a), mRNA.
ILMN_3091574	0.506503483	9.739931475	4.54334018	0.000776947	0.022169643	Olfm1	Mus musculus olfactomedin 1 (Olfm1), transcript variant 2, mRNA.
ILMN_2454204	1.236421217	9.737850365	7.176514241	1.53023E-05	0.002226576	Tnfrsf22	
ILMN_2669714	0.795639207	9.732141783	4.786896975	0.000518933	0.017843385	Pltp	
ILMN_2430422	2.131598277	9.727914517	14.52267238	1.11543E-08	2.95751E-05	Gpi1	
ILMN_2589412	0.434423823	9.725575149	4.178988939	0.001441917	0.030503955	Slc20a1	Mus musculus solute carrier family 20, member 1 (Slc20a1), mRNA.
ILMN_1220293	0.782120564	9.721420397	4.372102042	0.001036778	0.025771486	Gpc6	
ILMN_1253323	0.823793366	9.718056298	6.281340488	5.2297E-05	0.004571297	D5Wsu178e	
ILMN_2650603	0.981244272	9.715944335	5.110328109	0.000307501	0.012798136	Irx5	Mus musculus Iroquois related homeobox 5 (Drosophila) (Irx5), mRNA.
ILMN_2625940	1.717112421	9.712213472	9.528329337	9.42302E-07	0.000535385	Neurl	
ILMN_2757966	1.319218077	9.710091345	7.965120801	5.62501E-06	0.001198479	Cxcl4	Mus musculus chemokine (C-X-C motif) ligand 4 (Cxcl4), mRNA.
ILMN_1247267	0.493846542	9.707546963	4.117551904	0.001602995	0.032430615	Smox	Mus musculus spermine oxidase (Smox), mRNA.
ILMN_2732336	0.567021914	9.705642039	3.943894189	0.002167529	0.038200695	0610010I15Rik	

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ILMN_2656645	0.857596407	9.702956358	4.082144334	0.001704224	0.033389085	AA536743	
ILMN_1255259	0.346863707	9.698306977	4.07064975	0.001738497	0.033949069	AW050020	Mus musculus alkB, alkylation repair homolog 5 (E. coli) (Alkbh5), mRNA.
ILMN_2812900	0.551702874	9.697849636	4.390074546	0.001005674	0.025341506	Bmpr1b	Mus musculus bone morphogenetic protein receptor, type 1B (Bmpr1b), mRNA.
ILMN_2704134	0.78395867	9.686983605	4.449189136	0.000910071	0.023840137	BC025575	
ILMN_2671253	0.752067175	9.680487235	6.939349193	2.09803E-05	0.002720933	Gspt2	
ILMN_2748402	0.757802343	9.676453647	4.145645135	0.001527134	0.03158335	Col5a1	Mus musculus procollagen, type V, alpha 1 (Col5a1), mRNA.
ILMN_2728270	1.11659639	9.675811071	5.635469773	0.000135672	0.007948237	Galgt1	
ILMN_2689998	0.602906926	9.674195457	3.764873143	0.002968502	0.045321403	Fjx1	
ILMN_1233864	0.451027685	9.673551523	3.668089993	0.003523283	0.049381808	Ptgs1	
ILMN_2735118	0.588767978	9.673060925	4.668097125	0.000631206	0.019715264	Pprc1	
ILMN_1255254	1.029383676	9.661468433	5.347799567	0.000211375	0.010148978	Serinc2	Mus musculus serine incorporator 2 (Serinc2), mRNA.
ILMN_2730329	0.890764373	9.651749337	5.664329138	0.000129854	0.007727417	Hist1h2ah	Mus musculus histone cluster 1, H2ah (Hist1h2ah), mRNA.
ILMN_2907370	0.534578593	9.651487108	5.860354645	9.67128E-05	0.00642857	Optn	Mus musculus optineurin (Optn), mRNA.
ILMN_2733524	0.647283997	9.644343892	4.338273725	0.001098078	0.026478999	Nrm	Mus musculus nurim (nuclear envelope membrane protein) (Nrm), mRNA.
ILMN_2687403	0.906034219	9.643130568	4.989639368	0.00037317	0.014339722	Fcgr3	
ILMN_3096144	0.577811417	9.64247292	6.087449525	6.92049E-05	0.005344458	Stat3	
ILMN_2637714	0.595700843	9.639469797	4.595793229	0.000711784	0.021236623	Rasa3	
ILMN_3138685	0.767013126	9.632326464	7.385055958	1.16607E-05	0.001945872	Gsta3	
ILMN_1244829	0.8673251	9.627765719	5.313523879	0.000223016	0.010394211	Hap1	
ILMN_1223552	0.567734594	9.623373923	4.564815704	0.000749542	0.02177358	Fbn1	
ILMN_1237917	0.787476599	9.619411964	5.976130268	8.14699E-05	0.005852537	Sparcl1	Mus musculus SPARC-like 1 (mast9, hevin) (Sparcl1), mRNA.
ILMN_1260372	0.627739176	9.613006037	3.726180282	0.003178628	0.04713124	Pald	Mus musculus cDNA sequence X99384 (X99384), mRNA.
ILMN_2838317	0.701096681	9.610568289	3.674158121	0.003485548	0.049030897	Pqlc3	Mus musculus PQ loop repeat containing (Pqlc3), mRNA.
ILMN_1239592	0.659877796	9.606564478	3.759497047	0.002996819	0.045603623	1700012H17Rik	
ILMN_2692072	0.904125203	9.596173333	4.518179247	0.000810395	0.022565283	Elf3	Mus musculus E74-like factor 3 (Elf3), mRNA.
ILMN_1226099	0.685766085	9.594841423	3.691592035	0.00337943	0.048460368	Tnfsf13b	
ILMN_2507286	0.780221301	9.584626396	3.825988018	0.002665339	0.042785765	Tnfsf13b	
ILMN_2513173	0.753101451	9.584399076	4.558487179	0.000757511	0.021831509	2810026P18Rik	
ILMN_2734646	0.594846069	9.581499929	5.632784858	0.000136228	0.007948237	Stim1	Mus musculus stromal interaction molecule 1

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							(Stim1), mRNA.
ILMN_2544305	0.860707757	9.579908467	7.986116086	5.48246E-06	0.001196191	Nnmt	
ILMN_3085946	0.440464041	9.578748383	4.067470473	0.001748103	0.034067743	Zfp295	Mus musculus zinc finger protein 295 (Zfp295), transcript variant 3, mRNA.
ILMN_2955919	1.104262681	9.577284185	9.434347622	1.04219E-06	0.000549767	Mcam	Mus musculus melanoma cell adhesion molecule (Mcam), mRNA.
ILMN_2757125	0.926575305	9.574514026	5.429768639	0.000186066	0.009351103	Prc1	Mus musculus protein regulator of cytokinesis 1 (Prc1), mRNA.
ILMN_2925008	0.578496152	9.570563003	6.330943109	4.87202E-05	0.004354344	Sft2d2	Mus musculus SFT2 domain containing 2 (Sft2d2), mRNA.
ILMN_3136205	0.565853062	9.565997029	4.303935263	0.001164183	0.02756042	Acsl4	Mus musculus acyl-CoA synthetase long-chain family member 4 (Acsl4), transcript variant 3, mRNA.
ILMN_1232041	0.532964053	9.565903359	4.105206262	0.001637562	0.032618646	Copeb	
ILMN_2655437	0.429873397	9.565344467	3.851440516	0.002548686	0.041600072	Rnf126	Mus musculus ring finger protein 126 (Rnf126), mRNA.
ILMN_2737713	0.807705321	9.565230036	4.206346679	0.0013757	0.029789167	Edn1	Mus musculus endothelin 1 (Edn1), mRNA.
ILMN_2771550	0.600258501	9.565200005	4.395105818	0.000997143	0.025259896	Cdh5	
ILMN_1242622	0.578289881	9.559329003	4.348077788	0.001079932	0.026401249	Crem	
ILMN_1230926	1.324951882	9.557573192	4.555414318	0.000761412	0.021917474	Odz4	
ILMN_1238886	1.872441204	9.551893452	11.8719205	9.61676E-08	0.000134991	Ccl8	Mus musculus chemokine (C-C motif) ligand 8 (Ccl8), mRNA.
ILMN_2683528	0.826986936	9.550367487	5.331285306	0.000216901	0.010249345	2610020H15Rik	Mus musculus glycerophosphodiester phosphodiesterase domain containing 1 (Gdpd1), mRNA.
ILMN_1245141	0.61792521	9.54830799	4.803111495	0.000505321	0.017577961	LOC271374	
ILMN_2963091	1.426728851	9.53884304	6.241350514	5.53844E-05	0.004703339	E130012A19Rik	Mus musculus RIKEN cDNA E130012A19 gene (E130012A19Rik), mRNA.
ILMN_1236727	2.757335728	9.536858898	12.59442489	5.14107E-08	8.76295E-05	C730031G17	Mus musculus UDP glucuronosyltransferase 2 family, polypeptide B35 (Ugt2b35), mRNA.
ILMN_3118707	0.782274034	9.525799338	6.670229195	3.02743E-05	0.003391716	Sla	Mus musculus src-like adaptor (Sla), transcript variant 2, mRNA.
ILMN_2630423	0.342799511	9.521008812	4.02834199	0.001870936	0.035209886	Ikbkg	
ILMN_1228091	0.515038414	9.519122368	3.75918369	0.002998478	0.045603623	Bcor	Mus musculus Bcl6 interacting corepressor (Bcor), transcript variant b, mRNA.
ILMN_2776603	1.334924355	9.516174051	5.527102836	0.000160116	0.008785642	Ccl9	
ILMN_2841290	0.63434208	9.515660089	3.820710296	0.002690211	0.042912101	Tnfaip2	Mus musculus tumor necrosis factor, alpha-induced protein 2 (Tnfaip2), mRNA.
ILMN_2602938	0.888840576	9.514461158	4.457662894	0.000897166	0.023708067	Smpdl3b	

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ILMN_2702039	0.621485736	9.512452222	7.13726347	1.6115E-05	0.002307003	Cblb	
ILMN_1238547	2.72460642	9.51081631	9.348270658	1.14373E-06	0.000561047	Areg	Mus musculus amphiregulin (Areg), mRNA.
ILMN_2674351	0.622315087	9.505312579	4.200301705	0.001390054	0.029878798	Ednra	
ILMN_1244086	0.888510976	9.503689103	5.357136152	0.000208317	0.010062876	Impa2	
ILMN_2764846	0.69938547	9.498728573	4.871982838	0.000451554	0.016395805	Tcfap2a	
ILMN_2827646	0.963482013	9.496686712	4.997264904	0.000368612	0.014334712	Tmem98	Mus musculus transmembrane protein 98 (Tmem98), mRNA.
ILMN_2671235	0.71340834	9.492187015	8.03810497	5.14592E-06	0.001181438	Myo1b	
ILMN_2847787	0.914547956	9.491470168	7.018995495	1.88558E-05	0.002527838	Emr1	Mus musculus EGF-like module containing, mucin-like, hormone receptor-like sequence 1 (Emr1), mRNA.
ILMN_2707319	1.227430876	9.484903684	5.631174137	0.000136562	0.007948237	Mgl2	
ILMN_2437867	0.383607074	9.481681005	3.699016545	0.003335253	0.048209189	Golga3	
ILMN_2904641	0.568596093	9.480254531	4.799347925	0.000508447	0.017589026	Snora65	Mus musculus small nucleolar RNA, H/ACA box 65 (Snora65) on chromosome 2.
ILMN_2700848	0.449466992	9.47823504	3.820869159	0.002689459	0.042912101	Arrb2	
ILMN_2444121	0.474957217	9.476797914	5.267424947	0.000239753	0.010897584	5430416N02Rik	
ILMN_2622255	0.852675379	9.472079526	4.422869922	0.000951405	0.024466329	Ephb2	
ILMN_2597030	0.560226229	9.470009701	5.212492898	0.000261448	0.011532222	Smox	Mus musculus spermine oxidase (Smox), mRNA.
ILMN_3115162	0.403272082	9.459431843	3.675041508	0.003480089	0.049030897	Jak2	Mus musculus Janus kinase 2 (Jak2), transcript variant 2, mRNA.
ILMN_2671411	0.419134669	9.451981479	4.142604252	0.001535162	0.031662552	Kns2	
ILMN_2471128	0.77118457	9.450829689	3.659704998	0.003576119	0.049672246	A830073O21Rik	
ILMN_2828916	0.60333063	9.44328047	4.221850291	0.001339588	0.029516703	Frmd6	Mus musculus FERM domain containing 6 (Frmd6), mRNA.
ILMN_2766386	1.309764601	9.438818141	8.406725232	3.31156E-06	0.000987796	Nqo1	
ILMN_3162394	0.511596775	9.435469361	4.458453719	0.000895971	0.023708067	LOC629605	Mus musculus hypothetical protein LOC629605 (LOC629605), mRNA.
ILMN_2776431	0.605914461	9.433527373	4.224563233	0.001333371	0.029406872	C1qa	
ILMN_2740217	0.592810168	9.430881425	4.056819201	0.001780686	0.034383219	Rasip1	
ILMN_2886260	0.599061624	9.430717412	3.802748577	0.002776667	0.043735706	Foxc1	Mus musculus forkhead box C1 (Foxc1), mRNA.
ILMN_1247207	0.843835487	9.430466212	3.925505544	0.002238339	0.038987945	Adm	Mus musculus adrenomedullin (Adm), mRNA.
ILMN_1244169	2.296866877	9.426912182	7.025204574	1.87001E-05	0.002521134	Sftpd	Mus musculus surfactant associated protein D (Sftpd), mRNA.
ILMN_1216262	0.597014856	9.425533739	4.212184456	0.001361985	0.029682276	Bmpr1b	Mus musculus bone morphogenetic protein receptor, type 1B (Bmpr1b), mRNA.

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ILMN_1258330	0.731220008	9.424676854	5.514326008	0.000163292	0.008808363	LOC384348	
ILMN_2633062	0.690647115	9.421805124	4.972857011	0.000383413	0.01456908	9130422G05Rik	
ILMN_3104139	0.586712891	9.416939015	4.106010303	0.001635287	0.032612308	Rbm12	
ILMN_3030340	0.276665184	9.409227842	3.65823748	0.003585449	0.049743938	Csnk1d	
ILMN_2707099	0.83404693	9.403395117	5.152614339	0.000287478	0.012184885	Mgl2	
ILMN_2663585	1.180362905	9.401890566	6.738127896	2.75747E-05	0.00317588	Jundm2	Mus musculus Jun dimerization protein 2 (Jundm2), mRNA.
ILMN_2954575	0.469874279	9.400062875	3.883188893	0.002410535	0.040338428	Arhgap30	Mus musculus Rho GTPase activating protein 30 (Arhgap30), mRNA.
ILMN_2641541	0.604860958	9.399715427	5.457798585	0.000178165	0.009211619	Diap1	Mus musculus diaphanous homolog 1 (Drosophila) (Diap1), mRNA.
ILMN_2945560	0.554337042	9.398321934	4.182874955	0.001432312	0.030381573	Kctd12b	Mus musculus potassium channel tetramerisation domain containing 12b (Kctd12b), mRNA.
ILMN_2483578	0.583035247	9.396355935	5.606138139	0.000141871	0.008078229	Dnajc10	
ILMN_2781689	0.32174515	9.393833036	3.654248913	0.003610936	0.049952321	Kif2a	Mus musculus kinesin family member 2A (Kif2a), mRNA.
ILMN_1260061	1.180593673	9.388957591	5.922088735	8.82399E-05	0.00608575	D17H6S56E-5	Mus musculus DNA segment, Chr 17, human D6S56E 5 (D17H6S56E-5), mRNA.
ILMN_1241695	1.373364712	9.386225536	5.68219029	0.000126385	0.007596807	Ms4a6d	
ILMN_3121784	0.524281607	9.384995368	4.461404877	0.000891528	0.02367177	A930008G19Rik	Mus musculus RIKEN cDNA A930008G19 gene (A930008G19Rik), mRNA.
ILMN_2752044	0.582436975	9.366417029	5.180615837	0.00027498	0.011908991	Rgs19	Mus musculus regulator of G-protein signaling 19 (Rgs19), mRNA.
ILMN_2748850	1.258496678	9.36215696	5.664649483	0.00012979	0.007727417	Agtrl1	Mus musculus angiotensin receptor-like 1 (Agtrl1), mRNA.
ILMN_2959293	0.544626436	9.35733768	4.959881446	0.000391535	0.01478354	Upp1	Mus musculus uridine phosphorylase 1 (Upp1), mRNA.
ILMN_2692412	1.321746678	9.347717574	6.470259767	3.99999E-05	0.00398676	Defb2	Mus musculus defensin beta 2 (Defb2), mRNA.
ILMN_2763002	1.943913961	9.346368811	8.095848299	4.79795E-06	0.001172956	Eno2	Mus musculus enolase 2, gamma neuronal (Eno2), mRNA.
ILMN_2885277	0.799148849	9.344374879	6.430694184	4.2293E-05	0.004083465	Nnmt	Mus musculus nicotinamide N-methyltransferase (Nnmt), mRNA.
ILMN_2744138	0.367459626	9.342230379	4.340335143	0.001094236	0.026478999	BC003236	
ILMN_1225182	0.349476688	9.333594752	4.522570409	0.00080445	0.022520285	Cdca3	Mus musculus cell division cycle associated 3 (Cdca3), mRNA.
ILMN_1215670	0.47112596	9.333546876	4.539200574	0.000782349	0.022208148	9130422G05Rik	
ILMN_2423372	0.582925161	9.332107582	4.516299474	0.000812953	0.022610146	2310014D11Rik	
ILMN_2790357	1.114309617	9.331656437	7.284033601	1.32928E-05	0.002059778	Sema7a	Mus musculus sema domain, immunoglobulin

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							domain (Ig), and GPI membrane anchor, (semaphorin) 7A (Sema7a), mRNA.
ILMN_2655869	0.461600413	9.330470505	3.748598313	0.003055083	0.046053974	Kctd15	Mus musculus potassium channel tetramerisation domain containing 15 (Kctd15), mRNA.
ILMN_1226259	0.657313137	9.330014536	4.255216638	0.001265179	0.028660045	Adamts2	
ILMN_3143358	0.842147741	9.328977813	5.049671453	0.000338831	0.013611995	Adora1	Mus musculus adenosine A1 receptor (Adora1), transcript variant 1, mRNA.
ILMN_1254016	1.035587114	9.323567531	7.179067898	1.5251E-05	0.002226576	Adora1	
ILMN_1253925	0.858352966	9.320066892	5.469728704	0.00017491	0.009097093	4632401N01Rik	
ILMN_1250612	0.705772425	9.319148236	4.917275774	0.000419503	0.015592829	Tbc1d2	
ILMN_1246777	0.653826389	9.317821604	3.846407902	0.002571326	0.041828621	Ptprm	
ILMN_2590884	1.197568784	9.311448882	6.407088873	4.37276E-05	0.004093714	Plaur	Mus musculus plasminogen activator, urokinase receptor (Plaur), mRNA.
ILMN_2643534	0.631537564	9.310944753	4.765762099	0.000537258	0.018110563	Angptl6	
ILMN_2675697	0.804915849	9.309499559	5.533559985	0.000158536	0.008757266	Kdelr3	
ILMN_2759371	1.373750758	9.302902169	6.451335408	4.10797E-05	0.004017563	Fgfbp1	
ILMN_1243090	0.310833112	9.298618005	3.687820457	0.003402102	0.048561234	Ankra2	
ILMN_2687872	1.102427024	9.290328718	5.208968199	0.000262909	0.011575272	Col1a1	
ILMN_2630459	1.178864023	9.289468042	5.452153056	0.000179727	0.009211619	Cxcr4	
ILMN_2643096	0.460739327	9.281810658	4.595651868	0.000711951	0.021236623	E230026N22Rik	
ILMN_2686244	0.646085396	9.277811092	4.006928098	0.001941919	0.035598834	Rassf4	Mus musculus Ras association (RalGDS/AF-6) domain family 4 (Rassf4), mRNA.
ILMN_1235811	0.698359799	9.275622004	4.243452955	0.001290909	0.029093462	1110032E23Rik	
ILMN_2676606	0.401910975	9.273308212	4.6105872	0.00069446	0.021003676	Optn	Mus musculus optineurin (Optn), mRNA.
ILMN_1230054	0.304065369	9.272870685	3.763307458	0.00297672	0.045417816	B630005N14Rik	Mus musculus RIKEN cDNA B630005N14 gene (B630005N14Rik), mRNA.
ILMN_2653725	1.933571535	9.269657342	8.717538496	2.309E-06	0.000776051	Inhbb	
ILMN_2614531	0.734311715	9.268281957	6.630275068	3.19937E-05	0.003502138	Mcam	Mus musculus melanoma cell adhesion molecule (Mcam), mRNA.
ILMN_1250001	4.047549132	9.267416743	17.3333958	1.62546E-09	1.35352E-05	4930583H14Rik	Mus musculus RIKEN cDNA 4930583H14 gene (4930583H14Rik), mRNA.
ILMN_2739544	1.028230582	9.265769613	6.618894206	3.25024E-05	0.003525473	Stc2	
ILMN_2948143	2.24372548	9.261275803	10.96229575	2.22065E-07	0.000211966	Slc7a11	Mus musculus solute carrier family 7 (cationic amino acid transporter, y+ system), member 11 (Slc7a11), mRNA.
ILMN_2421549	0.838632407	9.259624233	4.172938341	0.001457005	0.030687118	scl00260315.1_244	
ILMN_2944366	1.120515359	9.253631795	7.974014882	5.56414E-06	0.001196191	Hspb8	Mus musculus heat shock protein 8 (Hspb8),

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							mRNA.
ILMN_2813186	0.465232212	9.252406204	4.012461182	0.001923314	0.035598834	Avpi1	Mus musculus arginine vasopressin-induced 1 (Avpi1), mRNA.
ILMN_2605756	0.326912345	9.22876556	3.695592778	0.003355551	0.048311907	Kns2	
ILMN_1249776	0.761695109	9.22866625	4.052157415	0.001795145	0.034463033	Jak3	
ILMN_2864309	0.879052369	9.227875881	4.553222729	0.000764208	0.021944994	LOC100034251	Mus musculus predicted gene, OTTMUSG00000000971 (OTTMUSG00000000971), mRNA.
ILMN_2775307	0.675771962	9.2259769	6.468940768	4.00742E-05	0.00398676	Lamc2	
ILMN_1240337	0.392769015	9.221021997	3.912537079	0.002289714	0.039337261	6030448M23Rik	
ILMN_2796382	2.0075943	9.217922952	5.089781962	0.000317756	0.013028557	Cdsn	Mus musculus corneodesmosin (Cdsn), mRNA.
ILMN_2674906	0.433757538	9.217671918	3.654363078	0.003610203	0.049952321	Cldn15	Mus musculus claudin 15 (Cldn15), mRNA.
ILMN_2821676	0.520348663	9.213027872	4.112173571	0.00161796	0.032526852	Nostrin	Mus musculus nitric oxide synthase trafficker (Nostrin), mRNA.
ILMN_2777308	0.844000075	9.21239349	3.720751322	0.003209314	0.047449728	S100a14	
ILMN_1228010	0.452764139	9.21134228	4.20135477	0.001387542	0.029878798	Rem1	
ILMN_2592709	0.467976892	9.210960553	4.117735387	0.001602487	0.032430615	Ifngr2	Mus musculus interferon gamma receptor 2 (Ifngr2), mRNA.
ILMN_2671195	0.794449022	9.203600646	4.293534277	0.001185016	0.027778023	St8sia4	Mus musculus ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4 (St8sia4), mRNA.
ILMN_2750515	1.448051719	9.197698646	4.353199805	0.001070576	0.026202221	Fos	Mus musculus FBJ osteosarcoma oncogene (Fos), mRNA.
ILMN_2903972	0.537577794	9.194629737	3.777050834	0.002905375	0.044842491	Pdgfrb	Mus musculus platelet derived growth factor receptor, beta polypeptide (Pdgfrb), mRNA.
ILMN_2615672	1.160740133	9.19401681	6.53959385	3.62954E-05	0.003782173	C330008K14Rik	
ILMN_2971688	0.670601222	9.193882498	5.14028255	0.000293171	0.012382198	Nrg1	Mus musculus neuregulin 1 (Nrg1), mRNA. XM_900811 XM_900817 XM_900821 XM_900824 XM_900832 XM_900835 XM_912993 XM_922562 XM_922570 XM_922577 XM_922594 XM_922603 XM_922607 XM_922617 XM_922623 XM_922629 XM_922636 XM_986275 XM_986302 XM_986330 XM_986362 XM_986394 XM_986425 XM_986458 XM_986492 XM_986565 XM_986605 XM_986645 XM_986682 XM_986725 XM_988214 XM_990248 XM_990278
ILMN_3140383	0.628353832	9.189402939	3.779099629	0.002894891	0.04477793	Hspa2	
ILMN_2469329	0.648380408	9.189281464	4.722059893	0.000577338	0.018869922	Tnfrsf1a	Mus musculus tumor necrosis factor receptor

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
							superfamily, member 1a (Tnfrsf1a), mRNA.
ILMN_2595857	1.666249128	9.186172484	10.6117435	3.11448E-07	0.000256279	2310006J04Rik	
ILMN_2714360	0.383181819	9.18580439	3.75535169	0.003018843	0.045738832	Cd34	Mus musculus CD34 antigen (Cd34), mRNA.
ILMN_1239386	0.704616479	9.181188988	4.143753317	0.001532123	0.031654597	5230401C23Rik	
ILMN_1213947	0.425830783	9.179194282	4.809256154	0.000500261	0.017468696	Slc25a24	Mus musculus solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 24 (Slc25a24), mRNA.
ILMN_1221253	0.425477349	9.178018175	5.248720829	0.000246918	0.011138398	Mef2a	
ILMN_1214500	0.647370679	9.177786076	4.031985357	0.001859129	0.035098415	Rgma	Mus musculus RGM domain family, member A (Rgma), mRNA.
ILMN_2909105	0.47546265	9.177312537	3.861483954	0.002504119	0.041223041	2310047D13Rik	Mus musculus RIKEN cDNA 2310047D13 gene (2310047D13Rik), mRNA.
ILMN_1229960	0.602933024	9.177219515	4.611643469	0.00069324	0.020994205	Mcam	Mus musculus melanoma cell adhesion molecule (Mcam), mRNA.
ILMN_2591031	0.937120692	9.175557038	5.789898336	0.000107451	0.006882243	Niban	
ILMN_2878548	1.396370592	9.166218089	7.438295228	1.08882E-05	0.001882796	Mthfd2	Mus musculus methylenetetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate cyclohydrolase (Mthfd2), mRNA.
ILMN_1233078	0.809420229	9.164143366	3.973320872	0.002059003	0.036970651	Slc5a3	Mus musculus solute carrier family 5 (inositol transporters), member 3 (Slc5a3), mRNA.
ILMN_1253850	0.362516552	9.163517749	4.008462058	0.001936742	0.035598834	Stim2	
ILMN_3136809	0.421830985	9.163349378	3.917817382	0.00226865	0.039229569	Git2	Mus musculus G protein-coupled receptor kinase-interactor 2 (Git2), transcript variant 2, mRNA.
ILMN_2598703	0.424420668	9.162145334	3.869765643	0.002467976	0.040955013	Ifnar2	Mus musculus interferon (alpha and beta) receptor 2 (Ifnar2), mRNA.
ILMN_2959372	1.014343086	9.161700744	5.187789099	0.000271872	0.011838829	1810046I24Rik	Mus musculus C-type lectin domain family 4, member b1 (Clec4b1), mRNA.
ILMN_2685733	1.195490557	9.155994761	8.514002155	2.92074E-06	0.000934398	4732474O15Rik	
ILMN_2592519	0.938869921	9.153679368	5.478181814	0.000172643	0.009034583	Hfe	Mus musculus hemochromatosis (Hfe), mRNA.
ILMN_2784019	0.477704289	9.144925214	4.471313334	0.000876778	0.023429521	Ggta1	Mus musculus glycoprotein galactosyltransferase alpha 1, 3 (Ggta1), mRNA.
ILMN_2634235	0.628010885	9.137426172	4.732263025	0.000567708	0.018711609	E430025L02Rik	
ILMN_2760548	1.056333031	9.136891389	6.363606721	4.65079E-05	0.004235945	9330140K16Rik	
ILMN_3123473	1.101127227	9.121801222	5.784345061	0.00010835	0.006908706	Aldh18a1	Mus musculus aldehyde dehydrogenase 18 family, member A1 (Aldh18a1), transcript variant 1, mRNA.

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ILMN_2995794	0.430778649	9.118439351	3.756784935	0.00301121	0.045652157	BC063749	Mus musculus cDNA sequence BC063749 (BC063749), mRNA.
ILMN_2950622	1.185659481	9.113439083	6.46491454	4.03018E-05	0.003990548	Arhgdig	Mus musculus Rho GDP dissociation inhibitor (GDI) gamma (Arhgdig), mRNA.
ILMN_2697380	0.871200605	9.112635506	6.168560006	6.15137E-05	0.005009393	Notch3	
ILMN_2928573	0.39345457	9.107810951	4.161389817	0.00148626	0.031138393	Rev1	Mus musculus REV1 homolog (S. cerevisiae) (Rev1), mRNA.
ILMN_2758562	0.563185793	9.105872143	4.224656767	0.001333157	0.029406872	AW049765	
ILMN_2596569	0.591767569	9.092205793	3.809846808	0.002742163	0.043479221	1700113I22Rik	
ILMN_2981542	0.580494567	9.089482319	3.716511125	0.003233493	0.047600766	Mfap2	Mus musculus microfibrillar-associated protein 2 (Mfap2), mRNA.
ILMN_1228469	1.377730422	9.088626567	6.454934331	4.0872E-05	0.004013698	Apoc1	Mus musculus apolipoprotein C-I (Apoc1), mRNA.
ILMN_3110425	0.647966053	9.08413652	5.232411346	0.000253351	0.0113428	Myo1c	Mus musculus myosin IC (Myo1c), transcript variant 1, mRNA.
ILMN_1221494	0.650299354	9.073748293	6.153512314	6.28687E-05	0.005076096	Ubtd2	Mus musculus ubiquitin domain containing 2 (Ubtd2), mRNA.
ILMN_2466164	0.560525602	9.06609884	4.339790268	0.00109525	0.026478999	Wfdc1	
ILMN_2428931	0.51430393	9.064242653	3.699209569	0.003334112	0.048209189	4631426J05Rik	
ILMN_1249486	1.349181585	9.060123419	6.840745727	2.39715E-05	0.002874536	Mgl1	
ILMN_2683356	0.905102942	9.056831076	5.62350039	0.000138166	0.008002585	Atp6v1g3	
ILMN_1218681	0.693286507	9.047726941	3.911240117	0.002294919	0.039369989	Cp	
ILMN_2887992	0.435722316	9.044126397	4.0122538	0.001924008	0.035598834	Mef2c	Mus musculus myocyte enhancer factor 2C (Mef2c), mRNA.
ILMN_1230587	0.440421025	9.044011778	4.262711556	0.001249066	0.028495658	Lpxn	Mus musculus leupaxin (Lpxn), mRNA.
ILMN_2766780	0.853295949	9.040696452	5.79458748	0.000106698	0.006877676	Lyzs	
ILMN_1246800	1.73654629	9.038291327	4.813815857	0.000496541	0.017399351	Serpina3n	Mus musculus serine (or cysteine) peptidase inhibitor, clade A, member 3N (Serpina3n), mRNA.
ILMN_2776728	0.655840153	9.037931364	5.244550338	0.000248547	0.011190694	2610305D13Rik	
ILMN_2435413	0.582226233	9.032236829	7.046716503	1.81714E-05	0.002463767	3110068G20Rik	
ILMN_1223697	0.925269459	9.026369176	4.670430934	0.00062877	0.019715264	Cd44	
ILMN_2978878	0.556602837	9.026113662	4.004204585	0.001951145	0.035608858	Lrrc20	Mus musculus leucine rich repeat containing 20 (Lrrc20), mRNA.
ILMN_1235433	1.437888423	9.025217228	6.468545343	4.00965E-05	0.00398676	Bmp3	Mus musculus bone morphogenetic protein 3 (Bmp3), mRNA.
ILMN_2727432	0.678702539	9.024048127	4.201360304	0.001387529	0.029878798	Stab1	Mus musculus stabilin 1 (Stab1), mRNA.
ILMN_1225123	1.027174835	9.021771532	4.611620135	0.000693267	0.020994205	2610524H06Rik	

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2767764	0.436506913	9.014397681	4.00398603	0.001951887	0.035608858	Ifrg15	Mus musculus interferon alpha responsive gene (Ifrg15), mRNA.
ILMN_1253593	0.50027364	9.010804656	4.182979513	0.001432055	0.030381573	Zfp537	
ILMN_2846776	1.357110467	9.008256954	9.569708933	9.01641E-07	0.000524777	Cdkn1a	Mus musculus cyclin-dependent kinase inhibitor 1A (P21) (Cdkn1a), mRNA.
ILMN_2799361	0.450376091	9.007854257	4.852572132	0.00046607	0.016624553	Tnip1	Mus musculus TNFAIP3 interacting protein 1 (Tnip1), mRNA.
ILMN_2920736	0.591909645	9.007604241	4.158459608	0.00149378	0.031213726	Bbc3	Mus musculus Bcl-2 binding component 3 (Bbc3), mRNA.
ILMN_1216871	0.598191462	9.007205874	4.405894792	0.000979102	0.024961882	Lcp1	
ILMN_2689785	0.764822377	9.006992602	4.06630589	0.001751635	0.034067743	Cd68	
ILMN_3103896	1.347084054	9.004380596	4.099053274	0.001655078	0.032857845	Timp1	Mus musculus tissue inhibitor of metalloproteinase 1 (Timp1), transcript variant 2, mRNA.
ILMN_2754155	0.66763713	9.003705432	4.053451144	0.00179112	0.034426886	Gpr126	
ILMN_2524986	1.230123103	9.003259143	3.674057168	0.003486172	0.049030897	Ear10	Mus musculus eosinophil-associated, ribonuclease A family, member 10 (Ear10), mRNA.
ILMN_2631171	1.022170846	8.999518226	5.90811483	9.00862E-05	0.006149465	2310020F24Rik	
ILMN_2888834	0.972048886	8.987335214	5.124293606	0.00030073	0.012590043	Apob48r	Mus musculus apolipoprotein B48 receptor (Apob48r), mRNA.
ILMN_2951407	0.389954241	8.976958851	4.279649733	0.001213433	0.028112774	Sbsn	Mus musculus suprabasin (Sbsn), mRNA.
ILMN_2770968	1.860804079	8.976373054	6.595065919	3.35955E-05	0.003608464	Msr2	
ILMN_1243900	0.733059149	8.970901957	5.746662447	0.000114662	0.007144075	Eppk1	Mus musculus epiplakin 1 (Eppk1), mRNA.
ILMN_2651137	0.571753448	8.966621057	3.684387001	0.003422877	0.048700719	Lck	Mus musculus lymphocyte protein tyrosine kinase (Lck), mRNA.
ILMN_1258136	0.608454405	8.963580757	6.59238119	3.37211E-05	0.003608464	A430106J12Rik	
ILMN_2543108	0.565889574	8.962794002	6.107000698	6.72618E-05	0.005222573	Wdt3-pending	
ILMN_2836586	0.380977213	8.95799343	3.949904297	0.002144892	0.037896349	0610009O03Rik	Mus musculus RIKEN cDNA 0610009O03 gene (0610009O03Rik), mRNA.
ILMN_2614462	1.662163828	8.952827038	7.441152008	1.08484E-05	0.001882796	Krt1-19	
ILMN_1254383	0.406469467	8.95210214	4.586721261	0.000722631	0.021394912	Atrn	
ILMN_2997494	0.540378685	8.939652828	3.706898494	0.003289004	0.048043761	Lox	Mus musculus lysyl oxidase (Lox), mRNA.
ILMN_2731901	0.446688862	8.937288986	4.008049965	0.001938131	0.035598834	S100a4	Mus musculus S100 calcium binding protein A4 (S100a4), mRNA.
ILMN_2941972	0.35529425	8.937052248	3.954434863	0.002127989	0.037698744	AK122209	Mus musculus cDNA sequence AK122209 (AK122209), mRNA.
ILMN_1234223	0.689807618	8.936982289	4.008119349	0.001937897	0.035598834	AI132321	Mus musculus phospholipase D family, member 4 (Pld4), mRNA.

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2728889	1.290870897	8.933470543	7.606695129	8.78534E-06	0.001667834	Sdk1	
ILMN_2659151	0.631479825	8.930933441	4.171713028	0.00146008	0.030713894	Thbs1	
ILMN_2459899	0.687373635	8.921665267	5.88170562	9.36885E-05	0.006280025	Tsrc1	Mus musculus ADAMTS-like 4 (Adamtsl4), mRNA.
ILMN_1256772	0.785135518	8.897246583	6.780169927	2.6033E-05	0.003045221	Btg2	
ILMN_2495475	0.608327376	8.888352198	4.374607713	0.001032382	0.025715789	Vav3	
ILMN_2774007	0.68658747	8.888233625	4.773542352	0.000530434	0.017961831	Bub1b	
ILMN_1247359	0.650059828	8.887717525	5.701405819	0.000122764	0.00753087	LOC385414	
ILMN_2923463	0.880229673	8.883028182	5.723107621	0.000118805	0.007325718	Kif23	Mus musculus kinesin family member 23 (Kif23), mRNA.
ILMN_2598622	0.387688429	8.875500107	4.333734885	0.001106586	0.026565855	Slamf8	
ILMN_1228385	0.971783468	8.872489328	4.79917909	0.000508588	0.017589026	Itpr3	
ILMN_1233911	0.554182193	8.86902791	5.724981928	0.00011847	0.007323959	A830021K08Rik	
ILMN_2648669	1.6519642	8.85947734	9.914001432	6.28299E-07	0.000416475	Gpnmb	Mus musculus glycoprotein (transmembrane) nmb (Gpnmb), mRNA.
ILMN_1249435	0.565541968	8.857699074	3.826354484	0.002663621	0.042785765	Gprk5	Mus musculus G protein-coupled receptor kinase 5 (Grk5), mRNA.
ILMN_2853225	0.451659074	8.856283442	4.236568208	0.001306219	0.029237519	Smchd1	Mus musculus SMC hinge domain containing 1 (Smchd1), mRNA.
ILMN_1216301	0.511344369	8.852713284	5.446203003	0.000181389	0.009211619	Impdh1	Mus musculus inosine 5'-phosphate dehydrogenase 1 (Impdh1), mRNA.
ILMN_2591029	0.982211688	8.847989411	5.907754337	9.01344E-05	0.006149465	Niban	
ILMN_2705078	0.537981359	8.844909518	3.758594063	0.003001602	0.045603623	Csda	
ILMN_1244585	0.496686239	8.837544347	3.697686834	0.003343121	0.048232706	Rap1ga1	
ILMN_3161652	0.50518976	8.835813789	3.895220417	0.002360225	0.04011542	Clec4a3	Mus musculus C-type lectin domain family 4, member a3 (Clec4a3), mRNA.
ILMN_1212836	0.619503002	8.821653681	4.058292881	0.001776141	0.034354875	Ptprc	
ILMN_2711461	0.624695541	8.814390596	5.004109648	0.000364571	0.014261884	Tgfb1	Mus musculus transforming growth factor, beta 1 (Tgfb1), mRNA.
ILMN_2769918	1.336019694	8.813198867	3.782110243	0.002879556	0.044724789	Timp1	
ILMN_3134844	0.494629848	8.813155522	3.990951358	0.001996694	0.036178527	Dysf	Mus musculus dysferlin (Dysf), transcript variant 1, mRNA.
ILMN_1237773	0.576110462	8.810479738	3.782898828	0.002875554	0.044724789	Rhou	Mus musculus ras homolog gene family, member U (Rhou), mRNA.
ILMN_1254561	0.764360653	8.80983346	4.649360706	0.000651122	0.020126584	Csf1	
ILMN_2681446	0.345936985	8.808337809	3.676626376	0.003470318	0.04900563	Skd3	
ILMN_2715744	0.334202723	8.803605211	3.899566579	0.00234232	0.039910995	Mapk3	
ILMN_1251253	0.393949845	8.80338451	3.660259171	0.003572602	0.049652296	2610002I17Rik	

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_1257547	0.877102314	8.802406088	5.986342019	8.02538E-05	0.005831509	Tox	Mus musculus thymocyte selection-associated HMG box gene (Tox), mRNA. XM_919293 XM_919306
ILMN_1246270	0.628056538	8.80234664	5.361910257	0.000206771	0.010048794	4833427B12Rik	
ILMN_2501489	0.731207511	8.795908792	4.502149996	0.000832487	0.022885311	Was	Mus musculus Wiskott-Aldrich syndrome homolog (human) (Was), mRNA.
ILMN_1245326	0.797166674	8.786780508	4.599951881	0.000706869	0.021190964	Cntn1	
ILMN_2737867	1.481774601	8.782820807	11.28180219	1.64433E-07	0.00018685	Mtap1b	Mus musculus microtubule-associated protein 1 B (Mtap1b), mRNA.
ILMN_2547942	0.585026421	8.78003807	5.520834206	0.000161666	0.008807827	4833427B12Rik	
ILMN_2664686	0.656159118	8.77600315	5.333156899	0.000216268	0.010239666	Chaf1b	Mus musculus chromatin assembly factor 1, subunit B (p60) (Chaf1b), mRNA.
ILMN_1233896	0.384332375	8.772784231	3.867120508	0.002479461	0.041079672	T2bp	Mus musculus Traf2 binding protein (T2bp), mRNA.
ILMN_2551827	0.900061148	8.771928887	6.658463625	3.07701E-05	0.003431157	Dncic2	
ILMN_1213376	0.775668213	8.764839514	4.677205238	0.000621756	0.019625613	Cfl1	Mus musculus cofilin 1, non-muscle (Cfl1), mRNA.
ILMN_2892413	0.519744118	8.760713382	4.522106596	0.000805076	0.022520285	Tnfrsf22	Mus musculus tumor necrosis factor receptor superfamily, member 22 (Tnfrsf22), mRNA.
ILMN_1232925	0.689175541	8.753123967	5.288447089	0.000231962	0.010644814	BC042423	
ILMN_2818294	0.557288045	8.750788553	5.469468052	0.000174981	0.009097093	Srpx2	Mus musculus sushi-repeat-containing protein, X-linked 2 (Srpx2), mRNA.
ILMN_2427705	0.790434487	8.75065958	4.421838821	0.000953064	0.024466329	Ak7	
ILMN_1239238	0.621040438	8.748180182	5.980901241	8.08993E-05	0.005850001	Prkch	
ILMN_2972585	0.492883372	8.744387514	4.304184288	0.001163689	0.02756042	Pvr	Mus musculus poliovirus receptor (Pvr), mRNA.
ILMN_1217493	0.491890262	8.742518529	4.031056034	0.001862133	0.03512734	Efna4	
ILMN_2883164	0.61671363	8.742098417	4.709254191	0.000589669	0.019056545	Serpine2	Mus musculus serine (or cysteine) peptidase inhibitor, clade E, member 2 (Serpine2), mRNA.
ILMN_2595597	0.811661704	8.738472868	5.226750288	0.000255625	0.01138105	Anln	Mus musculus anillin, actin binding protein (scraps homolog, Drosophila) (Anln), mRNA.
ILMN_2596385	0.920413413	8.738184106	5.105182475	0.000310036	0.012866771	Kcna6	
ILMN_1258376	0.518948045	8.735508477	3.932468836	0.002211247	0.038657141	Kcnk6	
ILMN_1252762	1.057128898	8.732500055	4.885381679	0.000441812	0.016071601	Trib3	
ILMN_2627296	0.42092886	8.730326919	3.772461195	0.002929002	0.044950328	Pvr	Mus musculus poliovirus receptor (Pvr), mRNA.
ILMN_2645341	0.76328589	8.726846735	5.945457094	8.52418E-05	0.005965176	AU040576	
ILMN_3114585	0.545297495	8.722621835	3.855166476	0.002532058	0.041470484	Cd44	Mus musculus CD44 antigen (Cd44), transcript variant 2, mRNA.
ILMN_2606433	1.083555503	8.720377113	6.336653114	4.83255E-05	0.004335306	A930017N06Rik	Mus musculus RIKEN cDNA A930017N06

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
							gene (A930017N06Rik), mRNA.
ILMN_2539764	1.702484838	8.718892326	8.097697072	4.78724E-06	0.001172956	LOC384505	
ILMN_1219384	0.793549544	8.716471301	6.731790857	2.78154E-05	0.00317588	Igsf3	
ILMN_2687165	0.70093292	8.715402585	3.808652686	0.002747936	0.043541832	Chst2	Mus musculus carbohydrate sulfotransferase 2 (Chst2), mRNA.
ILMN_1226872	0.358431816	8.710919845	3.698303331	0.003339471	0.048209189	Pgk1	
ILMN_2713538	0.570532513	8.709951006	3.698913543	0.003335862	0.048209189	Bmp1	Mus musculus bone morphogenetic protein 1 (Bmp1), mRNA.
ILMN_2594779	0.441665294	8.70992747	3.849677687	0.002556593	0.041651	5430431G03Rik	Mus musculus La ribonucleoprotein domain family, member 6 (Larp6), mRNA.
ILMN_1220688	0.698976684	8.702798667	5.300531389	0.000227605	0.010515604	6330505N24Rik	
ILMN_1234413	0.77390152	8.693915354	6.114114086	6.65693E-05	0.005191315	Adamts12	
ILMN_2672624	1.017143244	8.687070234	6.251033745	5.46194E-05	0.00465494	Hcn2	
ILMN_1228031	0.557225382	8.679121914	4.938717213	0.000405174	0.015166059	Dusp8	Mus musculus dual specificity phosphatase 8 (Dusp8), mRNA.
ILMN_2760927	0.452413833	8.678096267	3.776354668	0.002908946	0.044842491	Kcna6	
ILMN_2841710	0.506792633	8.67278754	5.903356492	9.07242E-05	0.00616164	Slc25a24	Mus musculus solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 24 (Slc25a24), mRNA.
ILMN_1258935	1.664752174	8.672577317	4.97680093	0.00038098	0.014541737	Sult4a1	Mus musculus sulfotransferase family 4A, member 1 (Sult4a1), mRNA.
ILMN_1221568	0.488628407	8.672139462	3.986369096	0.002012698	0.03641321	Cdca7	Mus musculus cell division cycle associated 7 (Cdca7), mRNA.
ILMN_1233840	0.930206182	8.668331464	4.729533584	0.000570267	0.018734729	LOC381283	
ILMN_1240164	1.190409939	8.657694103	8.062391437	4.99637E-06	0.001174913	Arhgdig	Mus musculus Rho GDP dissociation inhibitor (GDI) gamma (Arhgdig), mRNA.
ILMN_1219106	0.900618288	8.656071285	7.071040056	1.75927E-05	0.002426675	Rrad	
ILMN_2639214	0.577730982	8.655639123	4.521804526	0.000805484	0.022520285	Cyp3a13	
ILMN_1254692	0.703742736	8.643161762	7.312270907	1.28133E-05	0.00203898	Ms4a6b	
ILMN_1245733	0.45811906	8.642060479	4.107035559	0.001632391	0.032612308	Homer3	Mus musculus homer homolog 3 (Drosophila) (Homer3), mRNA.
ILMN_2603898	0.812929108	8.639396869	4.865481998	0.000456362	0.016469596	1810046I24Rik	Mus musculus C-type lectin domain family 4, member b1 (Clec4b1), mRNA.
ILMN_2674315	0.527749808	8.638982577	3.814285393	0.002720812	0.043255658	Dysf	
ILMN_2761645	1.357935173	8.635116585	9.300254359	1.20497E-06	0.000563809	Fetub	Mus musculus fetuin beta (Fetub), mRNA.
ILMN_2651297	0.434162944	8.630057546	3.675673914	0.003476187	0.049030897	4632428N05Rik	
ILMN_1239088	0.752692326	8.622052528	5.311192304	0.000223832	0.010411913	Ckap4	
ILMN_2595842	0.481804603	8.621016492	4.542834081	0.000777605	0.022169643	Def6	Mus musculus differentially expressed in FDCP

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
							6 (Def6), mRNA.
ILMN_2524667	0.398069721	8.618704317	4.122624531	0.001589013	0.032273263	4833427B12Rik	
ILMN_1233243	1.143518614	8.617418087	5.907304101	9.01946E-05	0.006149465	1110019C06Rik	
ILMN_2619408	1.523875998	8.617304252	6.763436976	2.66353E-05	0.003100474	Atf3	Mus musculus activating transcription factor 3 (Atf3), mRNA.
ILMN_2972478	0.598157313	8.616424965	5.327896475	0.000218054	0.010272925	Nlgn2	Mus musculus neuroligin 2 (Nlgn2), mRNA.
ILMN_2655260	0.613873315	8.603969667	3.924450942	0.002242472	0.039031444	Ptp4a3	Mus musculus protein tyrosine phosphatase 4a3 (Ptp4a3), mRNA.
ILMN_2589350	0.559057412	8.596941037	3.726775461	0.003175283	0.04713124	9030624L02Rik	Mus musculus carboxylesterase 5 (Ces5), mRNA.
ILMN_1218525	0.830258914	8.591298133	4.237260059	0.001304672	0.029237519	Il18r1	Mus musculus interleukin 18 receptor 1 (Il18r1), mRNA.
ILMN_1237546	0.755706455	8.590361945	4.476526005	0.000869121	0.023369021	9130213B05Rik	
ILMN_1238374	0.617406221	8.589397503	4.379077758	0.001024588	0.02557504	Cdc7	
ILMN_2609887	0.549474247	8.586563766	4.412572518	0.000968108	0.024760936	Fgfr2	
ILMN_2914938	1.377707637	8.581072535	5.997005496	7.90046E-05	0.005802907	F13a1	Mus musculus coagulation factor XIII, A1 subunit (F13a1), mRNA.
ILMN_1242902	0.55003056	8.577619383	5.776797603	0.000109584	0.006936327	Rapgef5	
ILMN_1215085	0.571599875	8.572858184	4.511678368	0.000819279	0.022683599	Fkbp10	Mus musculus FK506 binding protein 10 (Fkbp10), mRNA.
ILMN_1224619	0.613920399	8.57226092	4.99304134	0.00037113	0.014339722	Siat4a	
ILMN_2543198	0.65885728	8.56889848	4.25617814	0.0012631	0.028660045	0610030P10Rik	
ILMN_3112334	0.481867731	8.557756595	4.504277599	0.000829518	0.022857735	Pitpnm3	Mus musculus PITPNM family member 3 (Pitpnm3), transcript variant 1, mRNA.
ILMN_2597827	0.743807699	8.555969864	5.473371364	0.000173929	0.009081999	Arc	
ILMN_3132588	0.678717062	8.552010882	3.872037681	0.002458155	0.040925426	D930038M13Rik	
ILMN_2685516	0.45511122	8.550349449	4.254893168	0.00126588	0.028660045	Hcls1	Mus musculus hematopoietic cell specific Lyn substrate 1 (Hcls1), mRNA.
ILMN_2780322	0.711095879	8.543748096	5.952740072	8.43297E-05	0.005918704	Tkt	Mus musculus transketolase (Tkt), mRNA.
ILMN_1252202	0.584841471	8.533486106	5.441948493	0.000182588	0.009211619	Tnfaip3	Mus musculus tumor necrosis factor, alpha-induced protein 3 (Tnfaip3), mRNA.
ILMN_2416218	0.61554841	8.524866454	4.398734253	0.000991037	0.025158641	5530400B01Rik	
ILMN_2517665	0.533083	8.514237354	4.115981395	0.00160735	0.032477723	Trpv6	Mus musculus transient receptor potential cation channel, subfamily V, member 6 (Trpv6), mRNA.
ILMN_2857947	0.556736764	8.512356899	4.02472121	0.001882746	0.035377404	Trim36	Mus musculus tripartite motif-containing 36 (Trim36), mRNA.
ILMN_2900653	0.587618513	8.504162209	4.485390436	0.000856261	0.023182334	Gadd45b	Mus musculus growth arrest and DNA-damage-inducible 45 beta (Gadd45b), mRNA.

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2608746	0.50671271	8.502023571	4.485786064	0.000855691	0.023182334	Ltbp3	
ILMN_2675674	0.536145167	8.500756601	4.477266091	0.00086804	0.023369021	BC018371	
ILMN_2680415	0.620117893	8.499560438	4.326832912	0.001119656	0.026820678	Sema6d	Mus musculus sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6D (Sema6d), transcript variant 1, mRNA.
ILMN_2752454	0.89197168	8.498096103	8.289694054	3.80299E-06	0.00106308	3830408G10Rik	
ILMN_2755900	0.51029293	8.492099103	4.003565387	0.001953317	0.035608858	Bnip3	Mus musculus BCL2/adenovirus E1B interacting protein 1, NIP3 (Bnip3), mRNA.
ILMN_1228470	1.653147243	8.491893567	8.073277749	4.93086E-06	0.001174913	Pdxp	
ILMN_1242457	1.092091024	8.48905021	5.083301887	0.000321065	0.01309485	Fpr-rs2	
ILMN_2637757	0.841586757	8.483944804	6.410617938	4.35099E-05	0.004093714	Hlx1	Mus musculus H2.0-like homeobox (Hlx), mRNA.
ILMN_2674378	1.129720874	8.47602025	8.127194985	4.61971E-06	0.001172956	Lrrc20	Mus musculus leucine rich repeat containing 20 (Lrrc20), mRNA.
ILMN_2905646	0.510615263	8.473333597	5.011326021	0.00036036	0.014143544	Pak6	Mus musculus p21 (CDKN1A)-activated kinase 6 (Pak6), mRNA. XM_924943 XM_924947 XM_924951 XM_924953
ILMN_2629764	0.556435047	8.47254735	4.059263402	0.001773154	0.034344782	Bcl6b	Mus musculus B-cell CLL/lymphoma 6, member B (Bcl6b), mRNA.
ILMN_2757008	1.534644414	8.471622546	9.447425963	1.02763E-06	0.000549767	Aldh1l2	Mus musculus aldehyde dehydrogenase 1 family, member L2 (Aldh1l2), mRNA.
ILMN_2657844	0.695843926	8.468084147	5.526947654	0.000160154	0.008785642	Cdc2a	Mus musculus cell division cycle 2 homolog A (S. pombe) (Cdc2a), mRNA.
ILMN_3072427	1.124640511	8.465389244	5.684169462	0.000126007	0.007596807	Il1rn	Mus musculus interleukin 1 receptor antagonist (Il1rn), transcript variant 1, mRNA.
ILMN_2474229	0.856096211	8.463584472	4.796859409	0.000510525	0.017630472	Cd44	
ILMN_2901944	0.592659159	8.459196865	4.326352289	0.001120572	0.026820678	Col7a1	Mus musculus procollagen, type VII, alpha 1 (Col7a1), mRNA.
ILMN_2584574	0.804457131	8.457141392	7.32376548	1.26234E-05	0.00203898	5430405G05Rik	
ILMN_1250507	1.218226387	8.453567585	6.73393058	2.77339E-05	0.00317588	Elovl4	Mus musculus elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 4 (Elovl4), mRNA.
ILMN_1241310	0.898160663	8.452411246	6.788393027	2.57424E-05	0.003035165	Cpne8	
ILMN_3004949	0.63044828	8.448821251	5.24030221	0.000250217	0.01124468	D930028F11Rik	Mus musculus RIKEN cDNA D930028F11 gene (D930028F11Rik), mRNA.
ILMN_1232202	0.695033862	8.442884677	5.283293343	0.000233847	0.010710722	E030019D07Rik	
ILMN_1260504	1.206565506	8.437099129	5.653124068	0.000132081	0.007820947	1700016D02Rik	
ILMN_2636755	1.185884436	8.433150664	4.86476641	0.000456894	0.016469596	Asns	Mus musculus asparagine synthetase (Asns),

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
							mRNA.
ILMN_2757617	0.894847866	8.4311162	5.085776288	0.000319797	0.013067339	Il1rl1	Mus musculus interleukin 1 receptor-like 1 (Il1rl1), transcript variant 2, mRNA.
ILMN_2650289	0.811902224	8.430217063	6.04996206	7.30999E-05	0.00555536	Rin1	
ILMN_2658680	0.359892611	8.413522976	3.710949966	0.003265489	0.047903344	BC024479	Mus musculus cDNA sequence BC024479 (BC024479), mRNA.
ILMN_1224923	1.133320938	8.411395183	3.665144764	0.003541749	0.049462287	Gc	
ILMN_1236700	0.386744419	8.407892679	4.285844649	0.001200667	0.028007353	Pde4d	
ILMN_2456957	0.866463033	8.39928564	3.693108392	0.003370359	0.048413203	Wnt7b	Mus musculus wingless-related MMTV integration site 7B (Wnt7b), mRNA.
ILMN_1245924	0.456162317	8.395144278	3.661309489	0.003565946	0.049588672	Map3k8	
ILMN_2809701	0.307796101	8.393946579	3.889169831	0.002385388	0.04011611	Emid1	Mus musculus EMI domain containing 1 (Emid1), mRNA.
ILMN_2993314	0.674646416	8.393287529	5.126353939	0.000299745	0.012570839	Clec4n	Mus musculus C-type lectin domain family 4, member n (Clec4n), mRNA.
ILMN_1228522	1.52167254	8.37842205	5.22672259	0.000255636	0.01138105	Grem1	
ILMN_2793260	0.655656024	8.375839602	4.147200116	0.001523046	0.031582319	Micall2	Mus musculus MICAL-like 2 (Micall2), mRNA.
ILMN_2756943	0.561925105	8.375794157	4.450641777	0.000907845	0.023840137	Sdc1	Mus musculus syndecan 1 (Sdc1), mRNA.
ILMN_2964560	1.314842365	8.373172785	4.831370142	0.000482488	0.017082497	Cd163	Mus musculus CD163 antigen (Cd163), mRNA.
ILMN_3155245	0.404340982	8.368812595	3.687750775	0.003402522	0.048561234	Arhgap25	Mus musculus Rho GTPase activating protein 25 (Arhgap25), transcript variant 2, mRNA. XM_899325 XM_899332 XM_899339 XM_899344 XM_914946 XM_923470 XM_923471 XM_923481 XM_923488 XM_923492 XM_923496 XM_923499 XM_923504
ILMN_2636738	0.715522753	8.366775265	3.78663148	0.002856685	0.04449678	Fstl3	Mus musculus follistatin-like 3 (Fstl3), mRNA.
ILMN_2703427	0.761751125	8.365225056	5.60314922	0.000142519	0.008078229	Agrp	
ILMN_1246841	0.592447765	8.359424755	3.775745947	0.002912072	0.044861705	Relb	Mus musculus avian reticuloendotheliosis viral (v-rel) oncogene related B (Relb), mRNA.
ILMN_2600389	0.562451204	8.35289257	4.317578206	0.001137435	0.027142613	Slc7a6	
ILMN_2737523	0.568564665	8.343736342	3.978617988	0.002040073	0.036680056	F2rl3	Mus musculus coagulation factor II (thrombin) receptor-like 3 (F2rl3), mRNA.
ILMN_2616262	0.700430627	8.335765611	4.24944606	0.001277733	0.028873626	Pkig	
ILMN_3162854	0.451118494	8.335269098	4.21216556	0.001362029	0.029682276	Inadl	Mus musculus InaD-like (Drosophila) (Inadl), transcript variant 2, mRNA.
ILMN_1255860	0.524081433	8.334938315	3.828223078	0.002654878	0.042748558	Klrd1	Mus musculus killer cell lectin-like receptor, subfamily D, member 1 (Klrd1), mRNA.
ILMN_2655222	1.164417358	8.324205929	5.728011138	0.00011793	0.007323959	1700049E17Rik	

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_1239077	0.438363963	8.319571673	3.768265538	0.002950775	0.045166355	Qscn6	
ILMN_3154691	0.780670861	8.314942303	3.785664408	0.002861561	0.04454366	Sirpb1	Mus musculus signal-regulatory protein beta 1 (Sirpb1), transcript variant 3, mRNA.
ILMN_1244279	0.849617723	8.310459569	5.18195595	0.000274397	0.011905325	Trib3	
ILMN_2553305	0.804335822	8.297601544	6.355421934	4.7052E-05	0.004245584	Ptpn14	
ILMN_1253772	1.297958752	8.29496991	4.631993492	0.000670172	0.020476715	LOC195357	
ILMN_2740902	0.643206872	8.277933547	3.823996999	0.002674694	0.042870338	Mki67	
ILMN_2578369	0.759437491	8.273234276	5.819652696	0.000102769	0.00671885	Hspg2	
ILMN_1218263	0.460607996	8.263267485	4.012645022	0.001922699	0.035598834	Pemt	Mus musculus phosphatidylethanolamine N-methyltransferase (Pemt), mRNA.
ILMN_1259610	1.038370304	8.258993676	5.48921642	0.000169729	0.008960717	6030411F23Rik	Mus musculus CD276 antigen (Cd276), mRNA.
ILMN_1227434	0.413397462	8.25871592	4.272248904	0.00122887	0.028332876	Itgb7	Mus musculus integrin beta 7 (Itgb7), mRNA.
ILMN_2524251	0.720901537	8.2439402	4.412720737	0.000967865	0.024760936	1500031A17Rik	
ILMN_1235488	0.529755121	8.241842854	3.712304745	0.003257664	0.047868007	Garnl3	Mus musculus GTPase activating RANGAP domain-like 3 (Garnl3), mRNA.
ILMN_2684465	0.456496538	8.240144712	4.269314537	0.001235047	0.028338807	2310043J07Rik	
ILMN_3049961	0.741025434	8.239409814	3.706769043	0.003289758	0.048043761	Syne1	Mus musculus synaptic nuclear envelope 1 (Syne1), transcript variant 1, mRNA.
ILMN_2881050	0.40839781	8.23176349	4.22996926	0.001321072	0.029377247	Rad51	Mus musculus RAD51 homolog (S. cerevisiae) (Rad51), mRNA.
ILMN_3161790	0.527193869	8.229461703	3.849854801	0.002555798	0.041651	AI451557	Mus musculus expressed sequence AI451557 (AI451557), mRNA.
ILMN_2604403	0.550577112	8.222412942	4.721825404	0.000577561	0.018869922	4933436C20Rik	
ILMN_1253365	0.688336608	8.218496452	5.359614141	0.000207513	0.010048794	Gpr39	
ILMN_1244612	0.649447654	8.218158292	3.752750609	0.003032748	0.045850623	C730010K05Rik	
ILMN_1254210	1.395220438	8.209919427	11.04875937	2.04575E-07	0.000203408	E130306M17Rik	
ILMN_2879681	0.895168559	8.193067546	4.501903738	0.000832831	0.022885311	B4galnt2	Mus musculus beta-1,4-N-acetyl-galactosaminyl transferase 2 (B4galnt2), mRNA.
ILMN_1228308	1.020537595	8.192628466	5.031648843	0.000348776	0.013848315	6330548O06Rik	Mus musculus protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), gamma isoform (Ppp2r2c), mRNA.
ILMN_1241443	0.360650571	8.188593674	3.969187348	0.002073901	0.037210156	Ifi203	
ILMN_1228718	0.803847997	8.186114013	6.258717479	5.40204E-05	0.004648671	Sdc1	Mus musculus syndecan 1 (Sdc1), mRNA.
ILMN_1219946	0.684174419	8.181339743	4.054214561	0.00178875	0.034426886	Il10ra	
ILMN_2504842	1.137338221	8.17632048	5.413997319	0.000190674	0.00945957	Ugt1a12	
ILMN_1230152	0.655671038	8.169698928	4.513655716	0.000816566	0.022657814	Adamts4	
ILMN_2602352	0.682266919	8.167886756	4.429240865	0.000941223	0.024360602	Ms4a6d	

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2879102	0.743512863	8.166573877	4.155087696	0.001502482	0.031305345	Gjb3	Mus musculus gap junction membrane channel protein beta 3 (Gjb3), mRNA.
ILMN_2424222	0.519426869	8.14614839	3.738802964	0.003108444	0.046535013	A430065P19Rik	
ILMN_2769285	0.479040455	8.144330206	4.656588027	0.000643363	0.019964317	Sema6b	Mus musculus sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6B (Sema6b), mRNA.
ILMN_2727376	0.779638637	8.142061713	5.937500324	8.62503E-05	0.006000556	Ero1l	
ILMN_1225192	0.42845889	8.137399329	3.696113411	0.003352456	0.048308969	AY078069	Mus musculus cDNA sequence AY078069 (AY078069), mRNA.
ILMN_1229458	0.459146505	8.134698457	4.270514326	0.001232518	0.028334844	Prkcb	
ILMN_2955047	0.484170208	8.133201199	5.281144432	0.000234638	0.010726353	Dsg2	Mus musculus desmoglein 2 (Dsg2), mRNA.
ILMN_2658980	0.382898346	8.128623666	3.699018771	0.00333524	0.048209189	Dab1	
ILMN_2740738	0.466110291	8.095195764	3.94974304	0.002145496	0.037896349	Slc7a11	
ILMN_2678431	0.573610123	8.088336474	4.18944393	0.001416228	0.030219442	Mns1	Mus musculus meiosis-specific nuclear structural protein 1 (Mns1), mRNA.
ILMN_3009047	0.647444674	8.086478425	4.73837677	0.000562018	0.01857539	EG625716	Mus musculus predicted gene, EG625716 (EG625716), mRNA.
ILMN_2645234	1.027626734	8.077435958	7.569047495	9.21443E-06	0.001691415	1700016D02Rik	
ILMN_2735937	0.686497585	8.073777003	4.492382249	0.000846257	0.02303441	Bmp15	Mus musculus bone morphogenetic protein 15 (Bmp15), mRNA.
ILMN_1224622	0.961185077	8.063947224	6.653410159	3.09858E-05	0.003431174	Ero1l	
ILMN_2770723	0.453450507	8.056974027	3.725959094	0.003179872	0.04713124	5830426I05Rik	
ILMN_1248916	0.49734179	8.056004249	5.696300109	0.000123715	0.007550415	2310061G07Rik	Mus musculus Ly6/Plaur domain containing 3 (Lypd3), mRNA.
ILMN_2546861	0.574074716	8.054165485	4.905573099	0.000427548	0.01574471	2700063P19Rik	
ILMN_2945694	0.587667954	8.046358705	4.166325427	0.001473683	0.030929197	Hist1h3a	Mus musculus histone cluster 1, H3a (Hist1h3a), mRNA.
ILMN_1237498	1.270704865	8.041397994	6.899937188	2.2125E-05	0.00277167	LOC385201	
ILMN_1245276	0.505017671	8.034308126	4.016441089	0.001910046	0.035598834	2010300C02Rik	
ILMN_1237243	0.400960963	8.028285096	3.746305722	0.003067487	0.046153491	Bri3bp	
ILMN_2643900	0.329327584	8.027836601	3.676751251	0.003469549	0.04900563	A730020M07Rik	
ILMN_2731135	0.676872053	8.025484226	5.041753567	0.000343163	0.013739753	1700013H19Rik	Mus musculus synaptonemal complex central element protein 2 (Syce2), mRNA.
ILMN_2782101	0.520000646	8.016016483	3.762310622	0.002981964	0.045439729	Egln3	Mus musculus EGL nine homolog 3 (C. elegans) (Egln3), mRNA.
ILMN_2780323	0.530494219	8.014101602	4.041797616	0.001827715	0.034829842	Tkt	Mus musculus transketolase (Tkt), mRNA.
ILMN_2462901	1.08837129	8.002112434	10.14652609	4.95104E-07	0.000381118	G630023A01Rik	
ILMN_2677422	0.500601955	7.997697636	4.112265206	0.001617704	0.032526852	Bcl2l14	

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2782794	0.72224299	7.996685214	5.197392713	0.000267768	0.011702849	C4bp	Mus musculus complement component 4 binding protein (C4bp), mRNA.
ILMN_2460875	0.391679796	7.99156378	4.018586197	0.001902934	0.035598834	Tnfrsf10b	Mus musculus tumor necrosis factor receptor superfamily, member 10b (Tnfrsf10b), mRNA.
ILMN_1223299	0.465002182	7.982831331	3.855931455	0.002528658	0.041470484	Pvr	
ILMN_1253329	0.517961345	7.98101401	3.820762385	0.002689964	0.042912101	1700010A17Rik	
ILMN_2712454	0.746012664	7.966472804	5.164035424	0.00028231	0.012140444	1700010A17Rik	
ILMN_2644229	0.733761739	7.96495964	4.588040902	0.000721042	0.021394912	Kcnd2	
ILMN_1234577	0.63691855	7.959475038	3.718226685	0.003223688	0.047544414	BC028663	
ILMN_1216898	0.45222368	7.94035489	4.110101981	0.001623762	0.032588598	Kit	
ILMN_1224644	0.437232818	7.939821677	4.587458876	0.000721742	0.021394912	Elk3	
ILMN_2600004	0.445010787	7.927372957	4.775791316	0.000528479	0.017961831	Plk4	
ILMN_2751102	0.887162951	7.916296689	6.138413321	6.42604E-05	0.005094502	Hist1h2ae	Mus musculus histone cluster 1, H2ae (Hist1h2ae), mRNA.
ILMN_1227999	0.59246546	7.912967622	3.901059862	0.0023362	0.039877497	Ache	
ILMN_1237729	0.816673755	7.876250706	5.426813841	0.00018692	0.009351103	Nefh	
ILMN_2455181	0.612998488	7.84117377	5.168724913	0.000280216	0.01209185	Tnfrsf10b	Mus musculus tumor necrosis factor receptor superfamily, member 10b (Tnfrsf10b), mRNA.
ILMN_2636110	0.326693463	7.823972561	3.697016628	0.003347094	0.048260847	Sgol2	
ILMN_1245780	0.465842148	7.822302024	4.425232162	0.000947617	0.024446458	C130076O07Rik	Mus musculus neuron-glia-CAM-related cell adhesion molecule (Nrcam), mRNA.
ILMN_3144535	0.47058996	7.813363734	4.049341012	0.001803939	0.034576232	Dmrtc1a	Mus musculus DMRT-like family C1a (Dmrtc1a), transcript variant 3, mRNA.
ILMN_1224479	0.4972321	7.811983842	4.597861356	0.000709335	0.021234245	Hist1h2bg	Mus musculus histone cluster 1, H2bg (Hist1h2bg), mRNA.
ILMN_2641229	0.451976672	7.802971402	3.86368701	0.002494451	0.041165348	Cd109	Mus musculus CD109 antigen (Cd109), mRNA.
ILMN_2991574	0.387981855	7.800555979	4.176738391	0.00144751	0.030595151	1200015N20Rik	Mus musculus RIKEN cDNA 1200015N20 gene (1200015N20Rik), mRNA.
ILMN_2485839	0.371158653	7.767164374	3.780412489	0.002888194	0.04477793	Tnfrsf1b	
ILMN_2614230	0.310011718	7.765332744	3.667990598	0.003523905	0.049381808	Eif5a2	
ILMN_2657905	0.654567448	7.752338481	6.567587683	3.49051E-05	0.003688442	Hemt1	
ILMN_1234988	0.536968465	7.743353372	3.739858937	0.003102646	0.046508056	Gad1	
ILMN_1234519	0.48232732	7.732325256	4.265968546	0.00124213	0.028368591	A830059I20Rik	
ILMN_1218181	0.657331144	7.725609936	4.909475715	0.000424847	0.015693692	Ifitm6	
ILMN_2754718	0.598657418	7.709458265	4.232981013	0.001314272	0.029283349	LOC383540	
ILMN_2988931	0.607942465	7.662172658	5.592827716	0.000144782	0.008160619	Stfa1	Mus musculus stefin A1 (Stfa1), mRNA.
ILMN_2766028	0.606291226	7.656634507	5.36996083	0.000204192	0.009984898	Postn	

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2542373	0.959124797	7.651974992	4.858474531	0.000461605	0.016489931	LOC385207	
ILMN_1223315	0.596636467	7.62215513	4.004546696	0.001949983	0.035608858	Scarb1	Mus musculus scavenger receptor class B, member 1 (Scarb1), mRNA.
ILMN_2749223	0.816028806	7.486137541	5.296442251	0.000229069	0.010532327	1600014C23Rik	
ILMN_2511256	1.009975102	7.429684127	5.783000822	0.000108568	0.006908706	Hif1a	

Appendix I (a2)

List of downregulated genes: Fh1-/- vs Fh1+/+ kidneys.

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2708477	-0.440055687	16.06475138	-3.718642479	0.003221316	0.047544414	Spink3	
ILMN_2860915	-0.434583779	16.06403974	-3.915523219	0.002277777	0.039303838	Keg1	Mus musculus kidney expressed gene 1 (Keg1), mRNA.
ILMN_2516699	-0.398496892	16.04905176	-3.669133817	0.003516762	0.049364996	Ubb	
ILMN_2876066	-0.450697207	16.04207758	-3.823928395	0.002675017	0.042870338	Fth1	Mus musculus ferritin heavy chain 1 (Fth1), mRNA.
ILMN_2434853	-0.448589315	16.03707532	-4.345134318	0.001085347	0.026401249	mtDNA_ND2	
ILMN_2764588	-0.424130728	16.01890824	-3.677535694	0.003464724	0.04900563	Igfbp7	
ILMN_2620695	-0.491464729	16.00618271	-3.858246541	0.002518396	0.041332721	Rpl41	Mus musculus ribosomal protein L41 (Rpl41), mRNA.
ILMN_2715546	-0.437383098	15.99359148	-3.752176016	0.003035829	0.045850623	Gpx3	Mus musculus glutathione peroxidase 3 (Gpx3), mRNA.
ILMN_3092125	-0.413573571	15.98232282	-3.933334614	0.002207903	0.038652604	LOC218963	Mus musculus ubiquitin pseudogene (LOC218963) on chromosome 14.
ILMN_2537626	-0.347351436	15.97900648	-3.893024521	0.002369325	0.04011611	LOC384206	
ILMN_2539557	-0.340723326	15.97826926	-3.921106289	0.002255632	0.039174777	LOC381799	
ILMN_2781030	-0.414964101	15.95789321	-4.215172148	0.001355021	0.029594028	Napsa	Mus musculus napsin A aspartic peptidase (Napsa), mRNA.
ILMN_2551741	-0.43602625	15.9553479	-4.826227793	0.000486561	0.017165476	0610010I05Rik	
ILMN_2419660	-0.407342315	15.94219479	-4.253756293	0.001268344	0.028688623	mtDNA_ND4L	
ILMN_2428846	-0.42808936	15.93098108	-3.891786784	0.002374471	0.04011611	mtDNA_ND4	
ILMN_3157823	-0.440192442	15.9307322	-4.501055382	0.000834018	0.022885311	Gm1821	Mus musculus gene model 1821, (NCBI) (Gm1821) on chromosome 14. XM_899826
ILMN_2454649	-0.388889717	15.92369304	-3.703981173	0.003306045	0.048108014	mtDNA_COXIII	
ILMN_2775098	-0.414753193	15.91901617	-3.821685709	0.002685596	0.042912101	Cyb5	
ILMN_1239765	-0.427964481	15.90343402	-4.338914242	0.001096883	0.026478999	Prdx5	
ILMN_2760199	-0.418359077	15.89923571	-4.010448772	0.001930059	0.035598834	Klk6	Mus musculus kallikrein 1 (Klk1), mRNA.
ILMN_1239479	-0.41824896	15.89862973	-3.891266265	0.002376638	0.04011611	mt-Cytb	
ILMN_2946482	-0.461952827	15.86417479	-4.710418052	0.000588537	0.019056545	Rpl23	Mus musculus ribosomal protein L23 (Rpl23), mRNA.
ILMN_2512204	-0.465065177	15.86057709	-4.652460342	0.000647782	0.020075358	mt-Nd4l	
ILMN_2666061	-0.422301419	15.85991956	-3.806939844	0.002756239	0.043615477	Ndufa4	Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4 (Ndufa4), mRNA.
ILMN_2658355	-0.491171284	15.85285643	-3.936476938	0.002195808	0.038501851	AI313915	
ILMN_2640116	-0.418166391	15.83803014	-3.702164326	0.003316703	0.048203902	Aldrl6	Mus musculus myo-inositol oxygenase (Miox), mRNA.
ILMN_1229177	-0.495201756	15.82585619	-4.642727898	0.00065833	0.020235706	Klk26	Mus musculus kallikrein 1-related petidase b26 (Klk1b26), mRNA.
ILMN_2773609	-0.491993036	15.81869209	-4.76328934	0.000539445	0.018110563	Pdzk1	
ILMN_2924754	-0.5061291	15.80865864	-4.492177762	0.000846548	0.02303441	Pdzk1	Mus musculus PDZ domain containing 1 (Pdzk1), mRNA.
ILMN_1247221	-0.411943676	15.79633351	-4.063854485	0.001759095	0.034127864	Hibadh	Mus musculus 3-hydroxyisobutyrate dehydrogenase (Hibadh), mRNA.
ILMN_2819294	-0.630980706	15.77372368	-5.325074095	0.000219019	0.010288306	Umod	Mus musculus uromodulin (Umod), mRNA.

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ILMN_2670038	-0.397110916	15.72443544	-3.94755403	0.002153715	0.038013383	Cdh16	
ILMN_2485729	-0.565022351	15.6935348	-3.6818141	0.003438531	0.04878339	Tmem27	Mus musculus transmembrane protein 27 (Tmem27), mRNA.
ILMN_2735522	-0.426432747	15.67120838	-4.207638422	0.001372653	0.029789167	Lrp2	
ILMN_1252131	-0.589010412	15.65202063	-4.214966368	0.001355499	0.029594028	Klk1b27	Mus musculus kallikrein 1-related peptidase b27 (Klk1b27), mRNA.
ILMN_3002872	-0.440467525	15.56025172	-3.71084579	0.003266091	0.047903344	Suclg1	Mus musculus succinate-CoA ligase, GDP-forming, alpha subunit (Suclg1), mRNA.
ILMN_2731191	-0.6097156	15.55579409	-4.66077082	0.000638916	0.019878039	Klk5	
ILMN_1238736	-0.562593329	15.55434796	-4.235199967	0.001309285	0.029254178	Ngfa	Mus musculus kallikrein 1-related pepidase b4 (Klk1b4), mRNA.
ILMN_2545963	-1.067564896	15.43253461	-3.766329387	0.002960879	0.045291956	Hbb-b1	
ILMN_1236757	-0.609754396	15.37791405	-4.699195928	0.000599547	0.019204028	Oxct	
ILMN_2650280	-0.322499818	15.34992901	-3.992833186	0.00199016	0.036087533	Sod2	
ILMN_2819295	-0.95735771	15.32888852	-5.697297658	0.000123529	0.007550415	Umod	Mus musculus uromodulin (Umod), mRNA.
ILMN_2515816	-0.532875705	15.2873066	-4.76462339	0.000538264	0.018110563	Cldn10	
ILMN_1244316	-1.165513154	15.28242647	-3.75758545	0.003006955	0.045616628	Hbb-b1	
ILMN_2724226	-0.43406493	15.26286949	-4.327152104	0.001119048	0.026820678	4833439L19Rik	
ILMN_2838308	-0.671086417	15.15536257	-5.922129887	8.82346E-05	0.00608575	Fmo1	Mus musculus flavin containing monooxygenase 1 (Fmo1), mRNA.
ILMN_2692723	-0.780518966	15.1287703	-4.86378285	0.000457627	0.016471136	Lpl	
ILMN_2761472	-0.525566042	15.03533597	-4.421560025	0.000953513	0.024466329	Lrpap1	
ILMN_1233606	-0.492384902	14.99378167	-3.720989278	0.003207963	0.047449728	Sfxn1	Mus musculus sideroflexin 1 (Sfxn1), mRNA.
ILMN_1250709	-0.336405936	14.95602945	-4.083253366	0.001700955	0.033352414	1810046J19Rik	
ILMN_2997022	-0.381665957	14.94972607	-4.043159733	0.001823398	0.034809394	Idh3g	Mus musculus isocitrate dehydrogenase 3 (NAD+), gamma (Idh3g), mRNA.
ILMN_3008406	-1.110756423	14.8829231	-3.797058813	0.002804648	0.044019163	Odc1	Mus musculus ornithine decarboxylase, structural 1 (Odc1), mRNA.
ILMN_2874554	-0.458482216	14.8416263	-3.768886181	0.002947544	0.045145854	Aldh4a1	Mus musculus aldehyde dehydrogenase 4 family, member A1 (Aldh4a1), mRNA.
ILMN_1231503	-0.724012314	14.78669655	-7.296077282	1.3086E-05	0.00204822	Oxct1	
ILMN_1235474	-0.621560917	14.77849495	-5.609390168	0.000141169	0.008078229	Pdzk1	
ILMN_3141801	-1.139725692	14.77431728	-7.053078324	1.80181E-05	0.002456944	Wfdc15	Mus musculus WAP four-disulfide core domain 15B (Wfdc15b), transcript variant 1, mRNA.
ILMN_2749556	-0.482639108	14.66091612	-3.719881268	0.00321426	0.04749343	Mucdhl	Mus musculus mucin and cadherin like (Mucdhl), mRNA.
ILMN_2757283	-0.420535395	14.64043859	-3.67736366	0.003465782	0.04900563	Clcnkb	
ILMN_2785586	-0.475933359	14.62076095	-3.746990025	0.003063779	0.046126787	Fbp1	Mus musculus fructose bisphosphatase 1 (Fbp1), mRNA.
ILMN_1243329	-0.573847035	14.61709396	-4.154728667	0.001503412	0.031305345	Dab2	
ILMN_1250816	-0.668876961	14.5807572	-4.500460596	0.000834852	0.022885311	Apeh	Mus musculus acylpeptide hydrolase (Apeh), mRNA.

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ILMN_1212739	-0.563940207	14.52671512	-4.065718401	0.00175342	0.034073171	Hgd	
ILMN_1230357	-0.313206711	14.51583567	-3.735207774	0.00312827	0.046773125	Itpr1	Mus musculus inositol 1,4,5-triphosphate receptor 1 (Itpr1), mRNA.
ILMN_1214954	-0.681394536	14.48033994	-6.291396397	5.15499E-05	0.004556056	Cldn10	Mus musculus claudin 10 (Cldn10), transcript variant 1, mRNA.
ILMN_2721439	-0.507969814	14.46221411	-4.040933916	0.001830458	0.034829842	Csrp2	Mus musculus cysteine and glycine-rich protein 2 (Csrp2), mRNA.
ILMN_2551227	-0.284104105	14.37548761	-3.793604171	0.002821779	0.044096989	E430039I23Rik	
ILMN_2666190	-0.497303424	14.35366811	-4.047272839	0.001810426	0.034617142	Rnpepl1	Mus musculus arginyl aminopeptidase (aminopeptidase B)-like 1 (Rnpepl1), mRNA.
ILMN_1224754	-0.605396956	14.24263582	-3.888968851	0.002386229	0.04011611	Ckb	
ILMN_1233340	-0.366842267	14.23400681	-4.133349844	0.001559865	0.031951128	C330001N20Rik	
ILMN_2595200	-0.331273833	14.21488966	-4.659347176	0.000640426	0.019899066	1110012O05Rik	
ILMN_2976591	-0.350208952	14.20150679	-4.520840493	0.000806787	0.022520285	Ndufc2	Mus musculus NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 2 (Ndufc2), mRNA.
ILMN_2675289	-0.725781505	14.18035428	-4.19537408	0.001401869	0.03000252	Amn	Mus musculus amnionless (Amn), mRNA.
ILMN_1229957	-0.339715051	14.15979468	-4.57135297	0.000741403	0.021678851	Il11ra1	Mus musculus interleukin 11 receptor, alpha chain 1 (Il11ra1), mRNA.
ILMN_1253148	-0.773234704	14.05867354	-3.955653941	0.002123465	0.037698744	Kl	Mus musculus klotho (Kl), mRNA.
ILMN_2760263	-0.363052058	14.05505914	-4.56360486	0.00075106	0.021777095	Poldip2	
ILMN_2773169	-0.450660961	14.02793414	-4.285999825	0.001200349	0.028007353	Grb7	
ILMN_2511953	-0.769366501	13.91195171	-4.210481226	0.001365971	0.029741036	Tnfaip8	Mus musculus tumor necrosis factor, alpha-induced protein 8 (Tnfaip8), mRNA.
ILMN_2945472	-0.591112313	13.86573761	-3.956254994	0.002121238	0.037698744	Acy1	Mus musculus aminoacylase 1 (Acy1), mRNA.
ILMN_1242167	-0.432057045	13.79074114	-4.482725568	0.000860106	0.023204922	Hist2h2aa2	Mus musculus histone cluster 2, H2aa2 (Hist2h2aa2), mRNA.
ILMN_2853508	-0.381881298	13.75935265	-4.379532172	0.001023799	0.02557504	Hspc171	Mus musculus HSPC171 protein (Hspc171), mRNA.
ILMN_2470889	-0.376151618	13.75545265	-4.005691108	0.001946103	0.035608858	9130227C08Rik	
ILMN_1236703	-0.623640928	13.74888491	-5.631529292	0.000136488	0.007948237	LOC233080	
ILMN_2679723	-0.38160521	13.73893966	-3.806434086	0.002758696	0.043625423	2410018G23Rik	Mus musculus TM2 domain containing 2 (Tm2d2), mRNA.
ILMN_2772686	-0.596440448	13.68275957	-3.913819663	0.002284579	0.039305637	0610011F06Rik	
ILMN_2684104	-2.352197626	13.66487578	-6.898002183	2.21829E-05	0.00277167	Egf	Mus musculus epidermal growth factor (Egf), mRNA.
ILMN_1231053	-0.379392206	13.59190529	-3.730013659	0.003157143	0.047028032	Hist2h2aa1	
ILMN_1237664	-0.393145857	13.58369945	-4.017465703	0.001906646	0.035598834	4930504E06Rik	Mus musculus RIKEN cDNA 4930504E06 gene (4930504E06Rik), mRNA.
ILMN_2495796	-0.826578514	13.57723421	-6.14568485	6.35861E-05	0.005076096	mtDNA_ND3	
ILMN_1248959	-0.510948666	13.57035575	-4.280515463	0.001211641	0.028112774	Tinag	Mus musculus tubulointerstitial nephritis antigen (Tinag), mRNA.
ILMN_2842999	-0.631902444	13.55503078	-4.473126135	0.000874108	0.023384337	D16H22S680E	Mus musculus DNA segment, Chr 16, human D22S680E, expressed (D16H22S680E), mRNA.

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ILMN_2940642	-0.791869117	13.55480866	-5.828692571	0.00010139	0.006646898	St6galnac2	Mus musculus ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1, 3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 2 (St6galnac2), mRNA.
ILMN_2638520	-0.734208026	13.47978098	-3.96075385	0.002104645	0.037507945	Rab11fip3	
ILMN_2499944	-0.36932996	13.41900927	-4.19987185	0.00139108	0.029878798	Tomm7	
ILMN_2862633	-1.326698148	13.38373208	-4.206823465	0.001374574	0.029789167	Dao1	Mus musculus D-amino acid oxidase 1 (Dao1), mRNA.
ILMN_3139479	-0.635673548	13.34799157	-5.576606036	0.000148416	0.008333296	Fars2	Mus musculus phenylalanine-tRNA synthetase 2 (mitochondrial) (Fars2), transcript variant 2, mRNA.
ILMN_2438555	-0.634068145	13.32052346	-4.314290664	0.001143821	0.027240528	0610011F06Rik	
ILMN_1243722	-0.510087253	13.31433534	-4.433543276	0.000934411	0.024316085	Prosapip1	Mus musculus ProSAPiP1 protein (Prosapip1), mRNA.
ILMN_2704165	-0.291815571	13.28917025	-3.663445752	0.003552447	0.049501467	Ndufs2	Mus musculus NADH dehydrogenase (ubiquinone) Fe-S protein 2 (Ndufs2), mRNA.
ILMN_1221935	-0.733214608	13.28279181	-4.523575557	0.000803096	0.022520285	Glb1	
ILMN_2893564	-0.49384162	13.27972648	-3.885256222	0.002401812	0.040220663	1190007F08Rik	Mus musculus RIKEN cDNA 1190007F08 gene (1190007F08Rik), mRNA. XM_921339 XM_921348 XM_921353
ILMN_2706205	-0.374731888	13.15351271	-4.377995506	0.001026469	0.025595228	D10Ertd214e	Mus musculus zinc finger, CDGSH-type domain 1 (Zcd1), mRNA.
ILMN_2749737	-0.818347047	13.13157384	-4.257394655	0.001260475	0.028646386	Dpp7	Mus musculus dipeptidylpeptidase 7 (Dpp7), mRNA.
ILMN_1242165	-0.696687575	13.04922745	-3.914476849	0.002281953	0.039305637	Slc5a12	
ILMN_1259467	-1.292807755	13.01398121	-5.595947894	0.000144094	0.008148141	9230106L14Rik	
ILMN_2707043	-0.476650556	12.99283191	-4.492695677	0.000845812	0.02303441	Ebp	Mus musculus phenylalkylamine Ca2+ antagonist (emopamil) binding protein (Ebp), mRNA.
ILMN_2671671	-0.39710077	12.98594974	-4.260777345	0.001253204	0.02856275	Snx8	Mus musculus sorting nexin 8 (Snx8), mRNA.
ILMN_2436608	-0.42516031	12.96299978	-4.719130718	0.000580134	0.018912226	2310009A05Rik	
ILMN_2950837	-0.431922531	12.89198209	-4.006314365	0.001943994	0.035602089	Mfn1	Mus musculus mitofusin 1 (Mfn1), mRNA.
ILMN_1235757	-0.392023393	12.8905283	-3.702133485	0.003316884	0.048203902	Bloc1s1	Mus musculus biogenesis of lysosome-related organelles complex-1, subunit 1 (Bloc1s1), mRNA.
ILMN_2421179	-0.497960712	12.84789163	-4.021747915	0.001892502	0.035531692	Rhobtb1	
ILMN_2759108	-0.55960809	12.80509862	-3.927304309	0.002231308	0.038893865	Dcxr	Mus musculus dicarbonyl L-xylulose reductase (Dcxr), mRNA.
ILMN_2774456	-0.365485896	12.80005765	-3.699377146	0.003333122	0.048209189	2310005O14Rik	
ILMN_1215246	-0.633111344	12.7531553	-5.654434037	0.000131818	0.007820947	Mccc1	Mus musculus methylcrotonoyl-Coenzyme A carboxylase 1 (alpha) (Mccc1), mRNA.
ILMN_2959272	-0.423334415	12.74207227	-4.033368786	0.001854666	0.035069652	Rnu6	Mus musculus U6 small nuclear RNA (Rnu6).
ILMN_2648317	-0.721281773	12.7011947	-8.453584401	3.13433E-06	0.000946767	2210404O07Rik	
ILMN_2688075	-0.694841771	12.64816615	-4.384544255	0.00101514	0.025499245	Cyp51	
ILMN_2820305	-0.757128579	12.61648563	-4.225533339	0.001331155	0.029406872	Mep1b	Mus musculus meprin 1 beta (Mep1b), mRNA.
ILMN_1244242	-0.685239304	12.61293887	-3.670855051	0.003506036	0.049272407	Aldh4a1	
ILMN_2650356	-0.782272675	12.59450636	-3.706805504	0.003289546	0.048043761	Pthr1	Mus musculus parathyroid hormone receptor 1 (Pthr1), mRNA.

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ILMN_2678547	-0.939871586	12.58160023	-3.777261626	0.002904294	0.044842491	Lypla1	Mus musculus lysophospholipase 1 (Lypla1), mRNA.
ILMN_2746704	-0.369445522	12.54721615	-4.26647372	0.001241058	0.028368591	1810013D10Rik	
ILMN_1216962	-0.873376081	12.53926401	-5.113942814	0.000305733	0.012759311	Klk8	
ILMN_2921698	-0.536536341	12.51542331	-5.528603758	0.000159747	0.008785642	Pcca	Mus musculus propionyl-Coenzyme A carboxylase, alpha polypeptide (Pcca), mRNA.
ILMN_1239535	-0.506576899	12.50174561	-3.90877421	0.002304849	0.039483562	Plekhm2	
ILMN_2517611	-0.830026954	12.4762632	-4.141978695	0.001536819	0.031667539	7530408C15Rik	
ILMN_2461783	-0.622172855	12.46958485	-3.936151551	0.002197057	0.038501851	Glb1l	
ILMN_2824167	-0.426831395	12.46663246	-4.007825887	0.001938887	0.035598834	Ecsit	Mus musculus ECSIT homolog (Drosophila) (Ecsit), mRNA.
ILMN_2731127	-0.868866892	12.44492643	-3.888745573	0.002387163	0.04011611	BC026682	Mus musculus cDNA sequence BC026682 (BC026682), mRNA.
ILMN_2733753	-0.422580313	12.38926044	-4.538228406	0.000783623	0.022208551	2310005E10Rik	
ILMN_2610656	-1.106299193	12.38331977	-5.963306945	8.30247E-05	0.005896485	Cldn10	Mus musculus claudin 10 (Cldn10), transcript variant 1, mRNA.
ILMN_2797239	-0.572227882	12.38254107	-4.68009016	0.000618794	0.019625613	Slc12a3	Mus musculus solute carrier family 12, member 3 (Slc12a3), mRNA.
ILMN_2746968	-0.455387034	12.38159447	-4.998880871	0.000367654	0.014334712	0710008K08Rik	Mus musculus RIKEN cDNA 0710008K08 gene (0710008K08Rik), mRNA.
ILMN_1248518	-1.210897869	12.35380025	-4.533555437	0.000789779	0.022307886	0610012D14Rik	Mus musculus RIKEN cDNA 0610012D14 gene (0610012D14Rik), mRNA.
ILMN_1218223	-3.0132225	12.3419794	-6.458297146	4.06789E-05	0.004011244	Pvalb	
ILMN_2497999	-0.293424483	12.34059963	-3.670220395	0.003509987	0.049298897	Vkorc1	Mus musculus vitamin K epoxide reductase complex, subunit 1 (Vkorc1), mRNA.
ILMN_2757699	-0.638930313	12.33728126	-3.832976884	0.002632769	0.042507289	Acy1	Mus musculus aminoacylase 1 (Acy1), mRNA.
ILMN_2467578	-0.507880584	12.33530846	-5.081256766	0.000322117	0.01309485	scl000416.1_19	
ILMN_2970023	-0.502935947	12.30868755	-4.120908764	0.001593728	0.03231821	Slc44a4	Mus musculus solute carrier family 44, member 4 (Slc44a4), mRNA.
ILMN_2681622	-0.56809718	12.30614391	-3.821959792	0.002684301	0.042912101	Nit2	Mus musculus nitrilase family, member 2 (Nit2), mRNA.
ILMN_2619455	-0.486986436	12.27838225	-3.979911933	0.002035477	0.036630908	BC025519	
ILMN_1235186	-0.381179425	12.27630361	-3.709637704	0.003273086	0.047976451	Cox15	
ILMN_2463649	-0.776931121	12.26810553	-3.661885633	0.0035623	0.049570764	gamma glutamyl transpeptidase type III	
ILMN_1220309	-0.348998442	12.25372747	-3.853758417	0.002538329	0.041496192	AW107703	
ILMN_2861123	-0.789880635	12.22797751	-3.843198644	0.002585871	0.04189182	Tmem150	Mus musculus transmembrane protein 150 (Tmem150), mRNA.
ILMN_2738345	-0.503401685	12.22706487	-4.975007677	0.000382084	0.014541737	Lims2	Mus musculus LIM and senescent cell antigen like domains 2 (Lims2), mRNA.
ILMN_1251109	-0.363033343	12.21271924	-4.090782337	0.001678931	0.033029129	AW491445	Mus musculus solute carrier family 25, member 45 (Slc25a45), mRNA.
ILMN_2538061	-0.744073312	12.18098115	-4.095885505	0.001664172	0.032881451	LOC381674	
ILMN_3160963	-0.673707315	12.18039473	-4.117312004	0.001603659	0.032430615	AI316807	Mus musculus expressed sequence AI316807 (AI316807), mRNA.

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ILMN_2771641	-0.636120821	12.1521108	-3.759108253	0.002998877	0.045603623	Aldh8a1	
ILMN_1222492	-0.535344538	12.15044968	-4.903846639	0.000428748	0.015764592	Mipep	Mus musculus mitochondrial intermediate peptidase (Mipep), mRNA.
ILMN_2602581	-0.728651037	12.13667655	-4.662259996	0.000637341	0.019878039	Gmpr	Mus musculus guanosine monophosphate reductase (Gmpr), mRNA.
ILMN_2669958	-0.375899821	12.06456137	-4.381647607	0.001020135	0.025544048	Bcas3	Mus musculus breast carcinoma amplified sequence 3 (Bcas3), mRNA.
ILMN_1242535	-1.178188777	12.04653295	-6.882614639	2.26491E-05	0.00277167	Slc5a2	
ILMN_2689540	-0.504906172	12.02762134	-4.258733017	0.001257593	0.028608134	Acbd4	
ILMN_1234756	-0.364819797	12.01733185	-4.428391787	0.000942573	0.024360602	LOC381150	
ILMN_1254219	-0.730919815	12.00018715	-4.236259231	0.001306911	0.029237519	Klk1b9	Mus musculus kallikrein 1-related peptidase b9 (Klk1b9), mRNA.
ILMN_2857580	-0.531454756	11.97800546	-3.941693361	0.00217588	0.038319576	Rarsl	Mus musculus arginyl-tRNA synthetase 2, mitochondrial (putative) (Rars2), mRNA.
ILMN_3150205	-0.581035137	11.95947166	-4.428587174	0.000942262	0.024360602	LOC433224	Mus musculus predicted gene, EG433224 (EG433224) on chromosome 19.
ILMN_2966104	-0.864266502	11.93764491	-3.859602024	0.002512408	0.041290359	Htra1	Mus musculus HtrA serine peptidase 1 (Htra1), mRNA.
ILMN_2448213	-0.927599892	11.91694478	-3.845992042	0.002573206	0.041828621	AV344025	
ILMN_2662728	-0.506216991	11.91134618	-4.341361463	0.001092329	0.026478999	Neu2	Mus musculus neuraminidase 2 (Neu2), mRNA.
ILMN_2755195	-0.500838403	11.90616289	-3.765103908	0.002967292	0.045321403	Acin1	Mus musculus apoptotic chromatin condensation inducer 1 (Acin1), transcript variant 1, mRNA.
ILMN_2955535	-0.638981549	11.87368947	-4.533439292	0.000789933	0.022307886	Rmnd1	Mus musculus required for meiotic nuclear division 1 homolog (S. cerevisiae) (Rmnd1), mRNA.
ILMN_2635728	-0.72688751	11.86978711	-5.018757217	0.000356078	0.014044772	Pthr1	Mus musculus parathyroid hormone receptor 1 (Pthr1), mRNA.
ILMN_1237323	-0.545441226	11.86102079	-4.051562215	0.001797	0.03447091	Lman2l	
ILMN_1212605	-0.350430872	11.85311038	-4.338031778	0.001098529	0.026478999	1500011K16Rik	
ILMN_2781458	-0.463550964	11.84846637	-4.003775768	0.001952602	0.035608858	Tlcd1	Mus musculus TLC domain containing 1 (Tlcd1), mRNA.
ILMN_1231689	-0.737762721	11.82815712	-4.78982651	0.000516446	0.017809172	2210415K03Rik	
ILMN_1218959	-0.375205377	11.8236273	-3.890934815	0.00237802	0.04011611	Cog1	Mus musculus component of oligomeric golgi complex 1 (Cog1), mRNA.
ILMN_2944185	-0.538325988	11.81219901	-3.688850319	0.003395895	0.048553777	Nit2	Mus musculus nitrilase family, member 2 (Nit2), mRNA.
ILMN_2896492	-0.643042982	11.78425852	-4.740438585	0.000560113	0.018538095	2610003J06Rik	Mus musculus RIKEN cDNA 2610003J06 gene (2610003J06Rik), mRNA.
ILMN_3108894	-0.412676529	11.77850358	-4.752364008	0.000549225	0.018304685	Sgk3	Mus musculus serum/glucocorticoid regulated kinase 3 (Sgk3), transcript variant 1, mRNA.
ILMN_1225901	-0.570812795	11.76035676	-4.091739136	0.001676154	0.033001694	Aqp11	Mus musculus aquaporin 11 (Aqp11), mRNA.
ILMN_3158919	-0.554504441	11.76008752	-4.861085761	0.000459644	0.016489931	Prkcz	Mus musculus protein kinase C, zeta (Prkcz), transcript variant 2, mRNA.
ILMN_2757232	-1.025661307	11.7463949	-6.105510655	6.74078E-05	0.005222573	Aqp4	

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ILMN_2613354	-0.369335882	11.73284075	-3.769298408	0.0029454	0.045141988	Cog1	Mus musculus component of oligomeric golgi complex 1 (Cog1), mRNA.
ILMN_2645662	-1.288080027	11.72359308	-5.023765377	0.000353222	0.013978345	1810054O13Rik	Mus musculus transmembrane protein 86A (Tmem86a), mRNA.
ILMN_2667190	-0.665262399	11.70988524	-4.446929994	0.000913544	0.023877218	E330039G21Rik	
ILMN_2656805	-0.461174197	11.70719409	-4.019653042	0.001899408	0.035577366	Acad9	
ILMN_1255129	-0.794484409	11.69277636	-4.089590457	0.001682398	0.033070065	Klk5	
ILMN_2857581	-0.428280111	11.68969926	-3.681968176	0.003437591	0.04878339	Rarsl	Mus musculus arginyl-tRNA synthetase 2, mitochondrial (putative) (Rars2), mRNA.
ILMN_2737959	-0.350399074	11.68590521	-4.569085908	0.000744215	0.021699316	Plekhm1	Mus musculus pleckstrin homology domain containing, family M (with RUN domain) member 1 (Plekhm1), mRNA.
ILMN_2768364	-0.666902118	11.68195034	-3.853642798	0.002538844	0.041496192	D16H22S680E	
ILMN_1253361	-0.540439913	11.67379758	-4.292835516	0.001186429	0.027783863	Acad9	
ILMN_2754551	-1.040569793	11.6497863	-4.336002289	0.001102327	0.026534226	Dpep1	Mus musculus dipeptidase 1 (renal) (Dpep1), mRNA.
ILMN_2687156	-0.436881776	11.64405788	-4.821731062	0.000490152	0.017251464	Galm	Mus musculus galactose mutarotase (Galm), mRNA.
ILMN_2717749	-0.534449388	11.62952853	-6.254464946	5.43511E-05	0.004648671	Pde1a	
ILMN_1221084	-0.803075884	11.61694521	-5.448919311	0.000180628	0.009211619	2610528J11Rik	
ILMN_2762397	-0.341790724	11.61437689	-3.796023027	0.002809773	0.04402469	Fbxo25	Mus musculus F-box protein 25 (Fbxo25), mRNA.
ILMN_1245582	-0.744285997	11.61152205	-4.975184981	0.000381975	0.014541737	Chrna4	Mus musculus cholinergic receptor, nicotinic, alpha polypeptide 4 (Chrna4), mRNA.
ILMN_2484322	-0.701608438	11.60170148	-7.484418356	1.02633E-05	0.001841451	2900054D09Rik	
ILMN_2601507	-0.667318448	11.59887832	-3.69073309	0.00338458	0.048460368	Bpnt1	
ILMN_2622041	-0.351356007	11.58273393	-4.217863042	0.00134878	0.029586099	F8a	
ILMN_1252655	-1.065410861	11.54934148	-3.950573452	0.002142387	0.037896349	Sectm1	
ILMN_3107059	-0.593229074	11.53570155	-4.140012459	0.001542039	0.031667539	Espn	Mus musculus espin (Espn), transcript variant 5, mRNA.
ILMN_3156529	-1.121731435	11.53123395	-4.604718465	0.000701279	0.021102922	Slc9a8	Mus musculus solute carrier family 9 (sodium/hydrogen exchanger), member 8 (Slc9a8), transcript variant 2, mRNA.
ILMN_2737940	-0.670013882	11.51753184	-3.982118053	0.002027665	0.036548755	Grtp1	
ILMN_1227675	-1.182472068	11.51713588	-6.353996267	4.71475E-05	0.004245584	Slc4a1	Mus musculus solute carrier family 4 (anion exchanger), member 1 (Slc4a1), mRNA.
ILMN_1254671	-0.475661641	11.5096519	-4.270709109	0.001232107	0.028334844	BC034090	
ILMN_2694038	-0.532745529	11.5014476	-3.811571931	0.002733844	0.043376143	Pcyt2	Mus musculus phosphate cytidylyltransferase 2, ethanolamine (Pcyt2), mRNA.
ILMN_1256024	-0.767019297	11.4957171	-4.09258022	0.001673716	0.032980911	Klk24	Mus musculus kallikrein 1-related peptidase b24 (Klk1b24), mRNA.
ILMN_2859348	-0.395434686	11.48528077	-3.861696793	0.002503183	0.041223041	Taf9b	Mus musculus TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor (Taf9b), mRNA.
ILMN_2661733	-0.627156933	11.45730908	-5.443528135	0.000182142	0.009211619	Hadhsc	
ILMN_1226325	-0.407781884	11.44091415	-3.961531983	0.002101789	0.037485037	Cnnm2	

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ILMN_2734856	-0.508473887	11.41770258	-4.452765268	0.000904601	0.023826154	A930009M04Rik	
ILMN_2757807	-0.683504383	11.41208044	-3.939627196	0.002183751	0.038401504	BC031353	Mus musculus cDNA sequence BC031353 (BC031353), mRNA.
ILMN_3146952	-0.400156441	11.39924911	-4.647393588	0.000653251	0.020140213	Pde1a	Mus musculus phosphodiesterase 1A, calmodulin-dependent (Pde1a), transcript variant 9, mRNA.
ILMN_2683986	-0.774049127	11.38671065	-6.425235766	4.26203E-05	0.004083465	D930010J01Rik	Mus musculus RIKEN cDNA D930010J01 gene (D930010J01Rik), mRNA.
ILMN_2968729	-0.420257866	11.38593775	-4.605818583	0.000699995	0.021102428	Nqo2	Mus musculus NAD(P)H dehydrogenase, quinone 2 (Nqo2), mRNA.
ILMN_1213850	-0.440730328	11.3733007	-3.844600953	0.002579505	0.041845503	Col4a3	Mus musculus procollagen, type IV, alpha 3 (Col4a3), mRNA.
ILMN_2477540	-0.568764668	11.36689311	-5.037356784	0.000345593	0.013800661	Prkcz	
ILMN_2942674	-0.453726719	11.36395495	-5.236734314	0.000251629	0.011286877	Lims2	Mus musculus LIM and senescent cell antigen like domains 2 (Lims2), mRNA.
ILMN_1254276	-0.474910983	11.36282251	-4.048540018	0.001806449	0.034584811	Hist2h2ab	
ILMN_2754377	-0.447938956	11.35492851	-4.980727237	0.000378573	0.014500631	Pde1a	
ILMN_1242131	-0.405533689	11.3336839	-3.885742071	0.002399767	0.040214634	LOC381132	
ILMN_2676876	-0.603783007	11.32309234	-4.370244855	0.001040049	0.025799043	Pdk3	
ILMN_2738264	-0.378814438	11.30980977	-3.844761471	0.002578778	0.041845503	Dusp19	Mus musculus dual specificity phosphatase 19 (Dusp19), mRNA.
ILMN_2683283	-0.395940291	11.2758525	-3.829284254	0.002649926	0.042697634	3830406C13Rik	
ILMN_1251193	-0.408630355	11.24129698	-3.703945404	0.003306254	0.048108014	A630084D02Rik	
ILMN_1259069	-0.904618866	11.21931654	-4.293943683	0.001184188	0.027778023	F730003H07Rik	
ILMN_1217611	-0.78273253	11.21246504	-5.094231196	0.000315505	0.012962115	LOC381873	
ILMN_1257501	-0.711576431	11.16976725	-3.870970452	0.002462763	0.040925426	Pet112l	Mus musculus PET112-like (yeast) (Pet112l), mRNA.
ILMN_1218228	-0.488044794	11.14328898	-4.237610943	0.001303888	0.029237519	LOC280408	
ILMN_2897476	-0.315702033	11.13060504	-3.954858702	0.002126415	0.037698744	1700034H14Rik	Mus musculus RIKEN cDNA 1700034H14 gene (1700034H14Rik), mRNA.
ILMN_2624544	-0.545533812	11.12816031	-4.8712425	0.000452099	0.016395805	Helb	Mus musculus helicase (DNA) B (Helb), mRNA.
ILMN_2597485	-0.446204307	11.10152525	-4.254918266	0.001265825	0.028660045	Pcyt2	Mus musculus phosphate cytidylyltransferase 2, ethanolamine (Pcyt2), mRNA.
ILMN_2848071	-1.011168911	11.05080653	-4.391113728	0.001003906	0.025323687	0610012D14Rik	Mus musculus RIKEN cDNA 0610012D14 gene (0610012D14Rik), mRNA.
ILMN_2589266	-0.414986759	11.04470567	-3.999109994	0.001968525	0.03578675	Mrrf	Mus musculus mitochondrial ribosome recycling factor (Mrrf), mRNA.
ILMN_2604467	-0.409424031	11.02140626	-4.777109797	0.000527336	0.017961831	0610027O18Rik	Mus musculus transmembrane protein 42 (Tmem42), mRNA.
ILMN_2692341	-0.545952818	11.00657074	-3.739840728	0.003102746	0.046508056	Scrn2	Mus musculus secernin 2 (Scrn2), mRNA.
ILMN_1247626	-0.662482612	11.00374981	-4.241586238	0.001295042	0.029154317	As3mt	
ILMN_1244531	-0.380150138	10.95903883	-3.794178196	0.002818925	0.044081257	9330155C01Rik	
ILMN_2773286	-0.600329672	10.94590571	-5.09977399	0.000312725	0.012910982	Dorz1	

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ILMN_1258111	-1.058807635	10.94053415	-5.649464063	0.000132817	0.007845076	Slc34a3	Mus musculus solute carrier family 34 (sodium phosphate), member 3 (Slc34a3), mRNA.
ILMN_2739517	-0.345470958	10.86353218	-3.69251746	0.003373891	0.048413203	Nrbf1	Mus musculus mitochondrial trans-2-enoyl-CoA reductase (Mecr), mRNA.
ILMN_2628745	-0.903805404	10.86003941	-3.686111334	0.003412427	0.048668703	B230339H12Rik	
ILMN_1230339	-1.030269267	10.85890541	-4.428090825	0.000943053	0.024360602	Slc9a8	Mus musculus solute carrier family 9 (sodium/hydrogen exchanger), member 8 (Slc9a8), transcript variant 1, mRNA.
ILMN_2668189	-1.049869207	10.83968778	-3.803157544	0.002774667	0.04373307	AI315068	
ILMN_2950957	-0.427986008	10.80406846	-4.111460649	0.001619954	0.032539536	Rtn4ip1	Mus musculus reticulon 4 interacting protein 1 (Rtn4ip1), mRNA.
ILMN_2600822	-0.409833225	10.78677475	-3.663356296	0.003553012	0.049501467	A930027H06Rik	Mus musculus transmembrane protein 139 (Tmem139), mRNA.
ILMN_2672708	-0.475788455	10.75260067	-4.006808098	0.001942324	0.035598834	Lrp11	
ILMN_2490803	-0.443631978	10.74919547	-4.040775672	0.001830961	0.034829842	Znhit2	
ILMN_3131478	-1.352099442	10.73660985	-4.068203596	0.001745883	0.034065416	Bcat1	Mus musculus branched chain aminotransferase 1, cytosolic (Bcat1), transcript variant 2, mRNA.
ILMN_2631953	-1.052095665	10.72935705	-3.87043175	0.002465092	0.040935629	Etv1	
ILMN_2493747	-0.437566734	10.71804418	-4.179367707	0.001440978	0.030503955	Txndc4	
ILMN_1228139	-0.769184401	10.71711381	-4.338988399	0.001096744	0.026478999	Gnpda1	
ILMN_2670407	-0.647314607	10.71383113	-3.871241659	0.002461591	0.040925426	Aqp11	Mus musculus aquaporin 11 (Aqp11), mRNA.
ILMN_2806250	-0.43708668	10.70275166	-3.65908628	0.003580049	0.049697917	Rab38	Mus musculus Rab38, member of RAS oncogene family (Rab38), mRNA.
ILMN_1214593	-0.770939149	10.68577671	-4.037241325	0.001842233	0.034973113	Fahd2a	Mus musculus fumarylacetoacetate hydrolase domain containing 2A (Fahd2a), mRNA.
ILMN_2832675	-0.941937226	10.67003097	-5.993563101	7.94056E-05	0.005802907	Chrna4	Mus musculus cholinergic receptor, nicotinic, alpha polypeptide 4 (Chrna4), mRNA.
ILMN_2755973	-0.551167642	10.65906415	-4.455756473	0.000900052	0.023732543	Pomt2	
ILMN_2867033	-0.507303966	10.65545082	-3.776650653	0.002907427	0.044842491	Smpd2	Mus musculus sphingomyelin phosphodiesterase 2, neutral (Smpd2), mRNA.
ILMN_2644061	-0.48564638	10.65528464	-4.609717469	0.000695466	0.02100748	Srr	Mus musculus serine racemase (Srr), mRNA.
ILMN_2652260	-0.387381844	10.62433425	-5.339421409	0.00021416	0.010220994	AW060207	Mus musculus RNA polymerase II associated protein 2 (Rpap2), mRNA.
ILMN_2951292	-0.849197836	10.61243127	-4.014809267	0.001915475	0.035598834	BC026682	Mus musculus cDNA sequence BC026682 (BC026682), mRNA.
ILMN_2813547	-0.555440892	10.57108506	-4.159642954	0.001490739	0.031177471	Scn4b	Mus musculus sodium channel, type IV, beta (Scn4b), mRNA.
ILMN_1256927	-0.738983742	10.55614253	-7.080388975	1.73756E-05	0.002421873	2310040C09Rik	
ILMN_1257110	-0.414646522	10.55527225	-4.528893999	0.00079597	0.022451817	2410016F19Rik	Mus musculus RIKEN cDNA 2410016F19 gene (2410016F19Rik), mRNA.
ILMN_2792362	-0.498311932	10.55357245	-4.368058002	0.001043914	0.0258412	Helb	Mus musculus helicase (DNA) B (Helb), mRNA.
ILMN_2452383	-0.496845448	10.5525594	-4.669583277	0.000629654	0.019715264	Uros	
ILMN_2476885	-0.42466828	10.53604929	-4.140690953	0.001540236	0.031667539	Zadh1	

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ILMN_1226247	-0.636783956	10.53106398	-4.114546954	0.001611338	0.032525949	Aldh8a1	
ILMN_2933022	-0.689619636	10.52331152	-4.979534909	0.000379302	0.014505273	Plekhb1	Mus musculus pleckstrin homology domain containing, family B (evectins) member 1 (Plekhb1), mRNA.
ILMN_2717011	-0.411419477	10.51291078	-4.173625945	0.001455282	0.030687118	Biklk	
ILMN_2707198	-0.748584243	10.50291437	-5.094057928	0.000315593	0.012962115	As3mt	
ILMN_2600339	-0.447292365	10.46884043	-4.00697694	0.001941754	0.035598834	Gosr2	Mus musculus golgi SNAP receptor complex member 2 (Gosr2), mRNA.
ILMN_2880906	-0.492680631	10.4251071	-4.636039783	0.000665682	0.020365602	Pdlim2	Mus musculus PDZ and LIM domain 2 (Pdlim2), mRNA.
ILMN_2912532	-0.566366287	10.42492367	-4.225355729	0.001331561	0.029406872	Suox	Mus musculus sulfite oxidase (Suox), mRNA.
ILMN_2597778	-0.750323174	10.4123447	-3.700902007	0.003324129	0.048209189	Gna14	Mus musculus guanine nucleotide binding protein, alpha 14 (Gna14), mRNA.
ILMN_2591056	-0.389648377	10.40730994	-3.748771473	0.003054148	0.046053974	Pigl	
ILMN_1249131	-0.392050936	10.40714462	-4.712821147	0.000586206	0.019056545	BC017158	Mus musculus cDNA sequence BC017158 (BC017158), mRNA.
ILMN_1223313	-0.810269964	10.40566501	-6.255273622	5.4288E-05	0.004648671	Fn3k	
ILMN_1238628	-0.53863717	10.40204316	-6.227346601	5.6511E-05	0.004765097	2210016F16Rik	
ILMN_2956688	-1.233390231	10.40124178	-6.143202197	6.38155E-05	0.005076096	Gm853	Mus musculus gene model 853, (NCBI) (Gm853), mRNA.
ILMN_1246268	-0.62859448	10.36224079	-3.666168948	0.003535317	0.049450914	scl0001487.1_50	
ILMN_2753589	-0.60866942	10.34956223	-4.637301532	0.000664288	0.020349054	3632451O06Rik	
ILMN_2832658	-0.734981803	10.30779129	-5.89165181	9.23142E-05	0.006214462	Atp6v0e2	Mus musculus ATPase, H+ transporting, lysosomal V0 subunit E2 (Atp6v0e2), mRNA.
ILMN_2673917	-0.669956436	10.29765333	-3.773973151	0.002921197	0.044886364	2810022L02Rik	Mus musculus RIKEN cDNA 2810022L02 gene (2810022L02Rik), mRNA.
ILMN_3018758	-0.409902326	10.27484432	-4.466306575	0.000884199	0.023552295	Becn1	Mus musculus beclin 1 (coiled-coil, myosin-like BCL2-interacting protein) (Becn1), mRNA.
ILMN_1254736	-0.72388412	10.22165543	-4.032738733	0.001856697	0.035080261	Myo5a	
ILMN_3009440	-0.582712277	10.21696834	-4.300403669	0.001171214	0.027607357	Edg7	Mus musculus endothelial differentiation, lysophosphatidic acid G-protein-coupled receptor 7 (Edg7), mRNA.
ILMN_2972646	-0.321185075	10.21346172	-3.898320659	0.002347438	0.039955005	Pdzd11	Mus musculus PDZ domain containing 11 (Pdzd11), mRNA.
ILMN_2958484	-0.565758116	10.20257115	-4.305610961	0.001160863	0.02756042	Nlrx1	Mus musculus NLR family member X1 (Nlrx1), mRNA.
ILMN_1246017	-0.624213006	10.16520603	-3.87642581	0.002439301	0.040705619	AI173486	
ILMN_1250660	-1.410743422	10.15099132	-4.554505222	0.000762571	0.021924366	LOC231462	
ILMN_1219908	-0.426023061	10.13194909	-3.816637318	0.002709569	0.043163176	Tmem8	Mus musculus transmembrane protein 8 (five membrane-spanning domains) (Tmem8), mRNA.
ILMN_1221373	-0.552620027	10.11373989	-3.762712865	0.002979847	0.045436478	Slc9a2	
ILMN_2767825	-0.975025438	10.09874692	-4.860851131	0.00045982	0.016489931	2210011C24Rik	
ILMN_2645155	-0.430783814	10.09647073	-3.908073191	0.002307679	0.039503698	Hoxa9	
ILMN_1248714	-1.252370648	10.09440497	-6.179776664	6.0524E-05	0.004946176	Daf1	

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ILMN_2423282	-0.650032651	10.09137434	-4.668234579	0.000631062	0.019715264	Dleu2	
ILMN_1247032	-0.487224391	10.08170222	-3.778637566	0.002897252	0.04477793	4632408A20Rik	
ILMN_2896042	-0.55407484	10.07832956	-4.677609023	0.000621341	0.019625613	BC057552	Mus musculus cDNA sequence BC057552 (BC057552), mRNA.
ILMN_3048492	-0.60359956	10.07289107	-4.007383366	0.001940381	0.035598834	Abcc5	Mus musculus ATP-binding cassette, sub-family C (CFTR/MRP), member 5 (Abcc5), transcript variant 2, mRNA.
ILMN_1234086	-0.750283984	10.07146247	-4.275381804	0.001222311	0.028236202	1300018L09Rik	Mus musculus dihydrodiol dehydrogenase (dimeric) (Dhdh), mRNA.
ILMN_2498173	-0.599172848	10.06709208	-5.336133641	0.000215263	0.010232307	Uros	
ILMN_1249029	-0.667352902	10.05691244	-4.273613983	0.001226007	0.028294212	9830166G06Rik	
ILMN_1255530	-0.344515716	10.03287404	-4.322320907	0.001128287	0.026978281	Ttc8	Mus musculus tetratricopeptide repeat domain 8 (Ttc8), transcript variant 2, mRNA.
ILMN_2529556	-1.157664566	9.982834399	-6.1894304	5.96857E-05	0.004928303	LOC332942	
ILMN_2526836	-1.492358568	9.972099786	-4.298897759	0.001174225	0.027626679	LOC278105	
ILMN_3136638	-0.785699971	9.963606198	-3.795573796	0.002811998	0.044030654	Snca	
ILMN_2730865	-0.77944751	9.922694876	-5.388215664	0.000198469	0.009785259	Kif12	Mus musculus kinesin family member 12 (Kif12), mRNA.
ILMN_1222499	-0.51980867	9.910591193	-4.297313226	0.001177402	0.027653883	Slc33a1	Mus musculus solute carrier family 33 (acetyl-CoA transporter), member 1 (Slc33a1), mRNA.
ILMN_2809571	-0.495764739	9.906479259	-3.988824903	0.002004105	0.036285246	Tmem136	Mus musculus transmembrane protein 136 (Tmem136), mRNA.
ILMN_1258914	-1.023206099	9.903771043	-5.03399184	0.000347466	0.013819292	Slc6a15	Mus musculus solute carrier family 6 (neurotransmitter transporter), member 15 (Slc6a15), mRNA.
ILMN_2525289	-0.473988727	9.896554784	-4.205830107	0.00137692	0.029789167	C330018D20Rik	
ILMN_2643021	-0.859508998	9.876499581	-4.098320231	0.001657178	0.032872183	A830020B06Rik	Mus musculus transmembrane protein 169 (Tmem169), mRNA.
ILMN_2643326	-0.926916521	9.863136246	-4.62723198	0.000675496	0.020613006	2210020M01Rik	Mus musculus RIKEN cDNA 2210020M01 gene (2210020M01Rik), mRNA.
ILMN_1259464	-0.911019352	9.821258802	-3.699388814	0.003333054	0.048209189	LOC381220	
ILMN_1245008	-0.457762328	9.808878545	-5.078296664	0.000323646	0.013134625	Gin1	
ILMN_2531515	-0.326438779	9.806057461	-3.698547222	0.003338028	0.048209189	LOC381200	
ILMN_1218079	-0.72626915	9.797501597	-4.145562591	0.001527351	0.03158335	LOC386117	
ILMN_1247261	-0.64268814	9.782584331	-4.045026387	0.001817499	0.03472456	Galc	
ILMN_2532865	-0.483566345	9.780584384	-4.964185768	0.000388821	0.014704325	LOC233899	
ILMN_2538615	-0.59716339	9.773158382	-4.385712258	0.001013133	0.025475651	LOC381691	
ILMN_2593122	-0.885843211	9.771224921	-4.072212743	0.001733795	0.033884977	B230339H12Rik	
ILMN_2932164	-0.654042468	9.763211846	-4.360878088	0.00105671	0.026076814	5730593N15Rik	Mus musculus notum pectinacetylesterase homolog (Drosophila) (Notum), mRNA.
ILMN_2973288	-0.71875252	9.763119432	-3.844916138	0.002578077	0.041845503	Lama1	Mus musculus laminin, alpha 1 (Lama1), mRNA.
ILMN_2858666	-1.529102673	9.750426401	-8.94937433	1.77562E-06	0.000647512	Shd	Mus musculus src homology 2 domain-containing transforming protein D (Shd), mRNA.

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ILMN_1229981	-0.482639753	9.743818385	-4.401774351	0.000985952	0.025098647	1700073K01Rik	
ILMN_2725548	-0.515720697	9.732126338	-3.849577576	0.002557043	0.041651	Pqlc2	
ILMN_1258737	-0.840448768	9.726975983	-3.787793871	0.002850835	0.044463707	1110017F19Rik	
ILMN_3051931	-2.374487598	9.717212328	-3.886543304	0.002396398	0.040214634	Slc14a2	Mus musculus solute carrier family 14 (urea transporter), member 2 (Slc14a2), transcript variant 1, mRNA.
ILMN_2538281	-0.810660215	9.704045155	-3.679740865	0.003451198	0.048904954	LOC386179	
ILMN_2874278	-1.238754031	9.68836002	-7.222739765	1.44011E-05	0.002178577	Gcgr	Mus musculus glucagon receptor (Gcgr), mRNA.
ILMN_2907964	-0.681740202	9.685625443	-4.166745601	0.001472617	0.030929197	Crim2	Mus musculus cysteine rich BMP regulator 2 (chordin like) (Crim2), mRNA.
ILMN_1237918	-0.88956892	9.678043607	-4.188578222	0.001418337	0.030219442	LOC386123	
ILMN_1227327	-1.158487633	9.67772291	-4.130733023	0.001566925	0.032013301	Bcat1	
ILMN_2659269	-0.693200439	9.655524028	-4.67299505	0.000626106	0.019669775	Gprc5c	Mus musculus G protein-coupled receptor, family C, group 5, member C (Gprc5c), mRNA.
ILMN_2493332	-0.710758865	9.655432607	-4.749986269	0.000551378	0.018350809	Tpk1	
ILMN_1229114	-0.765244474	9.634822722	-4.761835585	0.000540736	0.018110563	Slc12a3	
ILMN_1214543	-0.551210254	9.622889032	-4.0074683	0.001940094	0.035598834	LOC382911	
ILMN_2712976	-0.981807955	9.618276289	-4.129873207	0.001569252	0.032033416	Slc18a1	
ILMN_2538519	-1.10997163	9.615111699	-4.085843727	0.001693344	0.033257832	LOC386348	
ILMN_3070466	-0.603366583	9.60108669	-5.442955415	0.000182304	0.009211619	Bpnt1	
ILMN_2669604	-0.335195134	9.542763043	-3.983739118	0.002021944	0.036525093	D630029K19Rik	
ILMN_2937136	-0.55216579	9.531347723	-3.807554778	0.002753255	0.043597169	Tceal1	Mus musculus transcription elongation factor A (SII)-like 1 (Tceal1), mRNA.
ILMN_2677197	-0.410592459	9.512304579	-4.198190388	0.001395103	0.029938268	3010001K23Rik	Mus musculus transmembrane protein 175 (Tmem175), mRNA.
ILMN_1237356	-1.000283129	9.487543818	-8.287014164	3.81513E-06	0.00106308	LOC382163	
ILMN_2539917	-1.458746085	9.424739798	-3.674599868	0.003482817	0.049030897	LOC384538	
ILMN_1215602	-0.757452546	9.42278085	-4.570692416	0.000742221	0.021678851	2010016B19Rik	
ILMN_1256768	-0.490348431	9.421817376	-5.443427276	0.00018217	0.009211619	LOC380637	
ILMN_1244281	-0.428537253	9.411669983	-3.918373937	0.002266442	0.0392198	Endog	Mus musculus endonuclease G (Endog), mRNA.
ILMN_1232280	-0.359968385	9.391385879	-3.968555571	0.002076188	0.0372232	A930025D01Rik	Mus musculus RIKEN cDNA A930025D01 gene (A930025D01Rik), mRNA.
ILMN_1249278	-0.375645196	9.369569654	-4.673911574	0.000625156	0.019669775	BC035522	
ILMN_1258728	-0.582374356	9.364810364	-4.279790369	0.001213142	0.028112774	1810012H11Rik	
ILMN_1212875	-0.745067706	9.356694219	-4.47412193	0.000872644	0.023383545	Arhgef19	Mus musculus Rho guanine nucleotide exchange factor (GEF) 19 (Arhgef19), mRNA.
ILMN_2538152	-0.847516033	9.34710446	-4.511593117	0.000819397	0.022683599	LOC386094	
ILMN_2630182	-0.609961589	9.336565377	-4.600310877	0.000706446	0.021190964	Syp	Mus musculus synaptophysin (Syp), mRNA.
ILMN_1252983	-1.009470586	9.308094458	-4.76269038	0.000539977	0.018110563	LOC386256	

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ILMN_2601453	-0.507008081	9.294902868	-5.151127444	0.000288158	0.01219206	A130092J06Rik	Mus musculus RIKEN cDNA A130092J06 gene (A130092J06Rik), mRNA.
ILMN_2765047	-0.547991287	9.280686203	-4.911152452	0.000423692	0.015675298	Chrd	Mus musculus chordin (Chrd), mRNA.
ILMN_2635871	-0.519503903	9.275434	-3.694138181	0.003364213	0.048361568	3110057O12Rik	Mus musculus RIKEN cDNA 3110057O12 gene (3110057O12Rik), mRNA.
ILMN_1224254	-0.406656335	9.196296935	-3.667391764	0.003527652	0.049392308	9530027K23Rik	
ILMN_2545953	-0.546996666	9.190238873	-4.893309879	0.000436153	0.01596305	Uros	
ILMN_2624145	-0.35346051	9.16863739	-4.215242305	0.001354857	0.029594028	1700020C11Rik	
ILMN_2895284	-0.516516684	9.161566882	-4.236656369	0.001306022	0.029237519	2210023G05Rik	Mus musculus RIKEN cDNA 2210023G05 gene (2210023G05Rik), mRNA.
ILMN_1232697	-0.381964338	9.161236437	-3.727960912	0.00316863	0.047110908	Zfp93	
ILMN_2989650	-0.441705783	9.146204676	-3.786651816	0.002856582	0.04449678	Adhfe1	Mus musculus alcohol dehydrogenase, iron containing, 1 (Adhfe1), mRNA.
ILMN_3161060	-0.831787677	9.141170647	-4.03363517	0.001853808	0.035069652	Trim63	Mus musculus tripartite motif-containing 63 (Trim63), mRNA.
ILMN_3138046	-0.592821313	9.12713958	-4.42262165	0.000951805	0.024466329	Trpm6	Mus musculus transient receptor potential cation channel, subfamily M, member 6 (Trpm6), mRNA.
ILMN_1233406	-0.853587316	9.115622465	-7.128943026	1.62931E-05	0.002314299	LOC385256	
ILMN_2780647	-0.921338533	9.08353801	-4.283931589	0.001204594	0.028061052	BC031901	Mus musculus cDNA sequence BC031901 (BC031901), mRNA.
ILMN_2609654	-0.493757577	9.080832475	-4.029984312	0.001865604	0.035137259	5730537D05Rik	Mus musculus transmembrane protein 144 (Tmem144), mRNA.
ILMN_2643227	-0.372211463	9.07116651	-3.732603459	0.003142713	0.046900909	6330562C20Rik	
ILMN_2599570	-0.358060577	9.06487861	-3.65565586	0.003601924	0.049901634	Sephs1	Mus musculus selenophosphate synthetase 1 (Sephs1), mRNA.
ILMN_3042112	-0.733116633	9.063790369	-3.998546085	0.001970459	0.03578675	Gpr137b	Mus musculus G protein-coupled receptor 137B (Gpr137b), mRNA.
ILMN_2734520	-0.638651773	9.041167342	-5.351709898	0.000210088	0.010124002	Lypla1	Mus musculus lysophospholipase 1 (Lypla1), mRNA.
ILMN_1242871	-0.601736994	9.036659427	-4.69454218	0.000604177	0.019248961	LOC386146	
ILMN_1251145	-0.828074179	9.036403953	-6.407540856	4.36997E-05	0.004093714	LOC385274	
ILMN_2490499	-0.4528433	9.024941057	-5.304243535	0.000226283	0.010485053	4632433K11Rik	
ILMN_2924505	-1.051644925	9.020267986	-5.299916474	0.000227824	0.010515604	Gys2	Mus musculus glycogen synthase 2 (Gys2), mRNA.
ILMN_2638186	-0.542264805	9.013355169	-5.41810927	0.000189461	0.009418976	Frs3	
ILMN_2741114	-0.619791574	9.001135955	-4.140266689	0.001541363	0.031667539	Gusb	Mus musculus glucuronidase, beta (Gusb), mRNA.
ILMN_2668472	-0.432237964	8.998944611	-3.699427849	0.003332823	0.048209189	Nr1h3	
ILMN_2938307	-0.920663663	8.990335536	-7.842702887	6.53954E-06	0.001322483	Oxgr1	Mus musculus oxoglutarate (alpha-ketoglutarate) receptor 1 (Oxgr1), mRNA.
ILMN_2688651	-0.488999295	8.971838469	-4.353542525	0.001069954	0.026202221	Adhfe1	
ILMN_2599544	-0.418957849	8.94856855	-4.103897867	0.00164127	0.03266525	5730455P16Rik	
ILMN_2704257	-0.896952045	8.945949788	-3.834192659	0.002627146	0.042445209	Reln	
ILMN_1244672	-0.513504688	8.944651536	-3.891603599	0.002375234	0.04011611	LOC333818	

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ILMN_2595992	-0.787069564	8.922566409	-7.008400191	1.91246E-05	0.002549555	Slc9a8	Mus musculus solute carrier family 9 (sodium/hydrogen exchanger), member 8 (Slc9a8), transcript variant 1, mRNA.
ILMN_2507473	-0.600395263	8.922249424	-5.518522301	0.000162241	0.008808363	Hs6st2	
ILMN_2637052	-0.319584114	8.912985166	-3.998512797	0.001970573	0.03578675	Rad23a	Mus musculus RAD23a homolog (S. cerevisiae) (Rad23a), mRNA.
ILMN_2712356	-0.464631254	8.870814275	-4.125616368	0.001580826	0.032187064	Emx1	
ILMN_1234752	-1.096119653	8.870310343	-8.676187937	2.4211E-06	0.000791434	4732465J04Rik	
ILMN_1246256	-0.398566601	8.859158091	-3.822768613	0.002680483	0.042900306	6330575B07Rik	
ILMN_2713332	-0.638676211	8.857670771	-4.271103794	0.001231277	0.028334844	Dnajc12	Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 12 (Dnajc12), mRNA.
ILMN_2695731	-0.523507393	8.854087947	-3.815120765	0.002716813	0.043233991	Tceal1	Mus musculus transcription elongation factor A (SII)-like 1 (Tceal1), mRNA.
ILMN_1223450	-0.956230246	8.831420064	-4.034388933	0.001851382	0.035063127	Nphs2	
ILMN_1255263	-0.362758073	8.807233354	-3.692800941	0.003372196	0.048413203	Scamp5	Mus musculus secretory carrier membrane protein 5 (Scamp5), mRNA.
ILMN_1243717	-0.534365507	8.782439292	-3.81962077	0.002695375	0.042965755	Opa1	
ILMN_2707207	-1.171848668	8.778898587	-6.21408164	5.76007E-05	0.004822898	1110011D13Rik	Mus musculus hedgehog acyltransferase-like (Hhatl), mRNA.
ILMN_2691781	-0.772420522	8.741636256	-4.443190225	0.000919324	0.023990441	6530404N21Rik	
ILMN_2506076	-0.478920854	8.741279148	-3.665049575	0.003542348	0.049462287	Tmem25	Mus musculus transmembrane protein 25 (Tmem25), mRNA.
ILMN_1216794	-0.709039945	8.732439566	-5.485398484	0.000170731	0.008973917	2610302F08Rik	
ILMN_1231291	-0.537628209	8.692929054	-3.796839785	0.002805731	0.044019163	4932413L07Rik	
ILMN_2656827	-0.859348238	8.690884614	-6.930095265	2.12432E-05	0.002731415	Bcat1	
ILMN_2790113	-0.45501822	8.684215004	-4.197018565	0.001397915	0.029965352	Mrp63	Mus musculus mitochondrial ribosomal protein 63 (Mrp63), mRNA.
ILMN_2639189	-0.51408927	8.683530765	-4.359533254	0.001059125	0.026109409	0610042E07Rik	Mus musculus isochorismatase domain containing 2b (Isoc2b), mRNA.
ILMN_2657431	-1.360678924	8.68150506	-8.9760133	1.72341E-06	0.000642591	Sprr2a	
ILMN_2545897	-0.379933609	8.676539666	-3.774913032	0.002916356	0.044886364	0610005H09Rik	
ILMN_2436183	-0.570775428	8.671782354	-4.494690133	0.000842982	0.02303441	9130430L19Rik	
ILMN_2775742	-0.864993512	8.670241494	-7.980749029	5.51853E-06	0.001196191	Shd	
ILMN_2675090	-0.566233247	8.660150433	-4.55869947	0.000757242	0.021831509	Dusp15	
ILMN_2528143	-0.451579232	8.643552027	-3.978278248	0.002041282	0.036680056	LOC381431	
ILMN_2764732	-0.503466792	8.633971553	-4.678523629	0.000620401	0.019625613	Pdlim2	Mus musculus PDZ and LIM domain 2 (Pdlim2), mRNA.
ILMN_1256315	-0.378963864	8.627950357	-4.783098915	0.000522177	0.017880383	2700046G09Rik	
ILMN_1245258	-0.577516411	8.610573133	-4.800873946	0.000507177	0.017589026	Slc6a15	Mus musculus solute carrier family 6 (neurotransmitter transporter), member 15 (Slc6a15), mRNA.
ILMN_1248487	-0.696758603	8.586608559	-4.097164433	0.001660494	0.032881451	Grtp1	

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ILMN_1259043	-0.43872336	8.585274954	-3.843206288	0.002585837	0.04189182	Adra1a	
ILMN_2804559	-0.614009833	8.583809248	-6.482033071	3.93435E-05	0.003978191	Tmem108	Mus musculus transmembrane protein 108 (Tmem108), mRNA.
ILMN_2603944	-0.721986892	8.569060318	-4.259978494	0.001254917	0.028574504	Rgl1	
ILMN_2752146	-0.849345641	8.565885453	-4.540512755	0.000780632	0.022202893	Abat	Mus musculus 4-aminobutyrate aminotransferase (Abat), mRNA.
ILMN_1222988	-0.887404243	8.562864373	-4.460566753	0.000892788	0.02367177	LOC386268	
ILMN_2649709	-0.722900535	8.557633201	-4.506014839	0.000827103	0.022817524	Etv1	
ILMN_1234415	-0.572650228	8.552066582	-4.432812747	0.000935564	0.024319568	Prima1	
ILMN_1235150	-0.415097298	8.538979451	-3.866056722	0.002484095	0.041079672	LOC381787	
ILMN_1258685	-0.499916596	8.531081072	-5.085937829	0.000319715	0.013067339	LOC269213	
ILMN_2927172	-0.540174972	8.522573102	-3.915082869	0.002279534	0.039303838	Ppara	Mus musculus peroxisome proliferator activated receptor alpha (Ppara), mRNA.
ILMN_1248788	-2.135685983	8.520129564	-5.725602187	0.000118359	0.007323959	0610005K03Rik	
ILMN_1236136	-1.312477471	8.47874181	-6.05982809	7.20527E-05	0.00549327	Corin	Mus musculus corin (Corin), mRNA.
ILMN_2724483	-0.531590587	8.431131416	-4.040697704	0.001831209	0.034829842	Arhgap10	
ILMN_2943972	-0.696619622	8.410788497	-6.745233735	2.73074E-05	0.003163284	Cxx1c	Mus musculus CAAX box 1 homolog C (human) (Cxx1c), mRNA.
ILMN_2951310	-0.725791837	8.393382732	-4.685663227	0.000613114	0.019507643	D030013I16Rik	Mus musculus RIKEN cDNA D030013I16 gene (D030013I16Rik), mRNA. XM_897988 XM_897998 XM_904163 XM_918687 XM_918696 XM_918713 XM_918727 XM_918743 XM_918759
ILMN_2858753	-1.059157796	8.383170555	-3.795016982	0.00281476	0.04404499	Pde6a	Mus musculus phosphodiesterase 6A, cGMP-specific, rod, alpha (Pde6a), mRNA.
ILMN_1248713	-0.853482393	8.376234995	-6.996722009	1.94257E-05	0.002561076	F5	
ILMN_1231472	-0.870271172	8.374808596	-6.127268286	6.53086E-05	0.005127824	LOC385992	
ILMN_1243813	-0.911643981	8.367644956	-3.705027061	0.003299925	0.048074549	LOC217376	
ILMN_1218475	-0.665596016	8.366757506	-3.685322264	0.003417205	0.048683441	AV344025	
ILMN_1218768	-0.382497974	8.363094593	-3.70913889	0.003275979	0.047989375	LOC277046	
ILMN_1240092	-0.421746615	8.360544621	-3.787810609	0.002850751	0.044463707	4930506C02Rik	
ILMN_3162180	-0.787712296	8.356571858	-4.781259605	0.000523756	0.017880383	BC066028	Mus musculus cDNA sequence BC066028 (BC066028), mRNA.
ILMN_2759003	-0.493430445	8.353179208	-5.442689191	0.000182379	0.009211619	5230400J09Rik	
ILMN_2529874	-2.045225355	8.349184021	-9.267925795	1.24819E-06	0.000572799	LOC224058	
ILMN_2640415	-0.371008886	8.346344175	-3.814948442	0.002717638	0.043233991	Spata2	
ILMN_1229428	-0.343340764	8.332685808	-3.682716114	0.003433035	0.048763395	1810012P15Rik	
ILMN_2538277	-0.600930748	8.321581179	-4.398810457	0.000990909	0.025158641	LOC386168	
ILMN_3073644	-0.449053718	8.308436025	-4.564429191	0.000750027	0.02177358	Ramp3	Mus musculus receptor (calcitonin) activity modifying protein 3 (Ramp3), mRNA.
ILMN_3060395	-0.637073573	8.29799151	-6.14397831	6.37437E-05	0.005076096	Odf4	Mus musculus outer dense fiber of sperm tails 4 (Odf4), mRNA.
ILMN_2665805	-0.345526645	8.283975875	-3.730240033	0.003155879	0.047028032	Pclo	

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_1217704	-1.162493044	8.277804318	-5.271902106	0.000238071	0.010841771	Slc16a14	
ILMN_2422875	-0.498556772	8.270421593	-5.229524136	0.000254508	0.011373265	scl0003155.1_68	
ILMN_1212974	-0.338528835	8.262815457	-3.680877166	0.00344425	0.048835488	LOC329824	
ILMN_2488062	-0.455407881	8.257907014	-4.040522209	0.001831767	0.034829842	scl0002956.1_592	
ILMN_2759004	-0.623111932	8.245617692	-7.091287228	1.71261E-05	0.002403997	5230400J09Rik	
ILMN_1249282	-0.372761457	8.243267295	-3.950233727	0.002143658	0.037896349	Ggcx	Mus musculus gamma-glutamyl carboxylase (Ggcx), mRNA.
ILMN_2729289	-0.555167501	8.240456864	-4.196617917	0.001398877	0.029965352	Matn4	Mus musculus matrilin 4 (Matn4), mRNA.
ILMN_2695143	-0.637812414	8.219710703	-3.906371518	0.002314566	0.039593186	Capn6	Mus musculus calpain 6 (Capn6), mRNA.
ILMN_2529953	-0.426296302	8.215600681	-4.486472712	0.000854704	0.023182334	LOC208684	
ILMN_2946653	-0.432718204	8.209770565	-3.77448549	0.002918557	0.044886364	Klk1b22	Mus musculus kallikrein 1-related peptidase b22 (Klk1b22), mRNA.
ILMN_2948539	-0.420229359	8.208755817	-4.558751752	0.000757176	0.021831509	Amacr	Mus musculus alpha-methylacyl-CoA racemase (Amacr), mRNA.
ILMN_2719803	-0.569579894	8.191939876	-4.549994898	0.000768344	0.021984956	AI586015	Mus musculus expressed sequence AI586015 (AI586015), mRNA.
ILMN_3128363	-1.104160905	8.186055029	-4.927245302	0.000412775	0.015366697	Slc14a2	Mus musculus solute carrier family 14 (urea transporter), member 2 (Slc14a2), transcript variant 1, mRNA.
ILMN_2836540	-0.542309686	8.179648064	-5.159070937	0.000284544	0.012177301	9530096D07Rik	Mus musculus RIKEN cDNA 9530096D07 gene (9530096D07Rik), mRNA.
ILMN_3101073	-0.766975506	8.179395133	-4.267682379	0.001238497	0.028368591	Masp2	Mus musculus mannan-binding lectin serine peptidase 2 (Masp2), transcript variant 1, mRNA.
ILMN_2909808	-0.700754884	8.175759555	-5.420604001	0.000188729	0.009418976	Lrrc52	Mus musculus leucine rich repeat containing 52 (Lrrc52), mRNA.
ILMN_1243111	-0.764196795	8.160621242	-6.392791112	4.46217E-05	0.004159409	C330021F23Rik	
ILMN_2770515	-0.757313687	8.160243539	-6.630722303	3.19739E-05	0.003502138	Odf4	
ILMN_2433119	-0.559386547	8.155367924	-5.001463941	0.000366127	0.014299337	B230112P13Rik	
ILMN_1229256	-0.52027806	8.152809567	-4.192224675	0.001409476	0.030111305	Bzrap1	Mus musculus benzodiazapine receptor associated protein 1 (Bzrap1), mRNA.
ILMN_2643915	-0.747353614	8.150954431	-5.183638175	0.000273666	0.011895251	Etv1	
ILMN_1259612	-0.303860633	8.143312735	-3.798365701	0.002798195	0.043987698	4432409B16	
ILMN_1225817	-0.451223741	8.11725226	-3.889484123	0.002384075	0.04011611	BC049762	Mus musculus cDNA sequence BC049762 (BC049762), mRNA.
ILMN_2513378	-0.625938848	8.117080921	-4.560839359	0.000754539	0.021831509	6430537F04	
ILMN_1235070	-0.74790583	8.11301238	-4.373916657	0.001033592	0.025719094	Nrap	
ILMN_1244349	-0.533725856	8.097639927	-3.805614484	0.002762682	0.043650505	Klhl8	Mus musculus kelch-like 8 (Drosophila) (Klhl8), mRNA.
ILMN_1234050	-0.340947793	8.097633566	-3.725080348	0.003184821	0.047175281	LOC233964	
ILMN_2941790	-0.552332486	8.096018877	-4.048273113	0.001807286	0.034584811	Cldn6	Mus musculus claudin 6 (Cldn6), mRNA.
ILMN_1219581	-0.45894452	8.087018194	-5.153178008	0.000287221	0.012184885	B230369F24Rik	
ILMN_2631939	-0.817517865	8.082833606	-5.861048185	9.66129E-05	0.00642857	Bcat1	
ILMN_2625913	-1.09112517	8.054649178	-7.135850797	1.61451E-05	0.002307003	Vstm2	Mus musculus V-set and transmembrane domain containing 2

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
							(Vstm2), mRNA.
ILMN_1218590	-1.346654167	8.054246316	-5.427240535	0.000186797	0.009351103	Ccl28	Mus musculus chemokine (C-C motif) ligand 28 (Ccl28), mRNA.
ILMN_1241349	-0.422446312	8.042898647	-3.888749026	0.002387149	0.04011611	A630064D11Rik	
ILMN_3033621	-0.564478024	8.037922752	-5.690853353	0.000124739	0.007575263	4933421E11Rik	Mus musculus RIKEN cDNA 4933421E11 gene (4933421E11Rik), transcript variant 3, mRNA.
ILMN_1214455	-0.681260534	8.029240159	-4.024704109	0.001882802	0.035377404	C330001K17Rik	
ILMN_2736621	-0.606724936	8.023702284	-3.929327328	0.002223428	0.03884162	Proz	
ILMN_2547852	-0.460692415	8.013639001	-4.150051506	0.001515578	0.031490641	1810049N02Rik	
ILMN_2971177	-0.643438664	8.003659659	-4.361392963	0.001055787	0.026076814	BC034076	Mus musculus cDNA sequence BC034076 (BC034076), mRNA.
ILMN_2423609	-0.646078626	7.997876342	-6.127091893	6.53253E-05	0.005127824	9530057J20Rik	
ILMN_2744245	-0.338675541	7.993308493	-4.61810504	0.000685827	0.020850283	Wwp2	Mus musculus WW domain containing E3 ubiquitin protein ligase 2 (Wwp2), mRNA.
ILMN_2425691	-0.336207462	7.98408281	-4.265885268	0.001242307	0.028368591	A930009E05Rik	
ILMN_1225633	-0.428304367	7.980702294	-3.684113048	0.00342454	0.048700719	Sept1	Mus musculus septin 1 (Sept1), mRNA.
ILMN_2973467	-1.116623732	7.968429266	-6.074725695	7.05016E-05	0.00540958	Vstm2	Mus musculus V-set and transmembrane domain containing 2 (Vstm2), mRNA.
ILMN_2620037	-0.392709625	7.965866718	-4.133775267	0.001558721	0.031951128	2410015B03Rik	
ILMN_1223119	-0.418595135	7.964564949	-5.384784466	0.000199532	0.009797164	scl0002349.1_957	
ILMN_2444616	-0.428186595	7.956245432	-4.227728171	0.001326156	0.029406872	2810012L14Rik	
ILMN_1238059	-0.38822939	7.955882273	-3.838806038	0.002605918	0.04215934	LOC385976	
ILMN_1214288	-0.50637563	7.948385106	-3.778696916	0.002896949	0.04477793	E430001K23Rik	
ILMN_2858477	-1.124827343	7.947828254	-3.889931226	0.002382207	0.04011611	4930502E18Rik	Mus musculus RIKEN cDNA 4930502E18 gene (4930502E18Rik), mRNA.
ILMN_1246935	-0.407709843	7.930640735	-4.201027765	0.001388321	0.029878798	A430099B18Rik	
ILMN_1220546	-0.60568198	7.928947141	-5.974463931	8.16702E-05	0.005852537	1300013B24Rik	
ILMN_2553035	-0.442196916	7.914349226	-3.675050097	0.003480036	0.049030897	A230005M18Rik	
ILMN_1253860	-0.614184397	7.909248188	-4.015187781	0.001914214	0.035598834	Mas1	Mus musculus MAS1 oncogene (Mas1), mRNA.
ILMN_1256915	-0.366234541	7.881492101	-3.690578509	0.003385507	0.048460368	LOC269527	
ILMN_2497831	-0.405226764	7.867233696	-4.218734978	0.001346764	0.029586099	Proz	
ILMN_2535911	-0.620444157	7.861299952	-5.394335872	0.000196589	0.009712613	LOC383766	
ILMN_2725902	-0.595506608	7.855477064	-5.109625224	0.000307846	0.012798136	Vstm2	Mus musculus V-set and transmembrane domain containing 2 (Vstm2), mRNA.
ILMN_3035162	-0.459423722	7.84603137	-3.745065483	0.003074219	0.046225634	Sgk3	Mus musculus serum/glucocorticoid regulated kinase 3 (Sgk3), transcript variant 1, mRNA.
ILMN_2686003	-0.466107866	7.822515069	-5.645793887	0.00013356	0.007850081	2810022L02Rik	Mus musculus RIKEN cDNA 2810022L02 gene (2810022L02Rik), mRNA.
ILMN_1216021	-0.379615099	7.818736686	-4.083313359	0.001700778	0.033352414	Ttyh1	Mus musculus tweety homolog 1 (Drosophila) (Ttyh1), transcript

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
							variant 2, mRNA.
ILMN_2953807	-0.345056763	7.813130675	-3.889804986	0.002382734	0.04011611	LOC620807	Mus musculus novel member of the major urinary protein (Mup) gene family (LOC620807), mRNA.
ILMN_2502596	-0.391734232	7.807589302	-4.524112543	0.000802374	0.022520285	scl0002623.1_73	
ILMN_2667665	-0.412649539	7.805357799	-3.965800476	0.002086192	0.037318432	Rptn	
ILMN_2924942	-0.459585476	7.795077837	-3.993205689	0.001988869	0.036087533	Klkb1	Mus musculus kallikrein B, plasma 1 (Klkb1), mRNA.
ILMN_2775527	-0.599208907	7.791968219	-6.889719033	2.24326E-05	0.00277167	Klkb1	
ILMN_2737747	-0.344147692	7.784724346	-4.108471572	0.001628345	0.032612308	2310015B20Rik	
ILMN_1245542	-0.638694424	7.781601237	-4.729004989	0.000570764	0.018734729	LOC239283	
ILMN_1260161	-0.476032185	7.779676611	-4.590190873	0.000718462	0.021394912	Mapk15	Mus musculus mitogen-activated protein kinase 15 (Mapk15), mRNA.
ILMN_1250064	-0.330816086	7.778028166	-4.06628028	0.001751713	0.034067743	6430550D23Rik	
ILMN_2635572	-0.957235217	7.771319978	-6.509716003	3.78448E-05	0.003892631	Npb	
ILMN_1237209	-0.546993914	7.768763798	-4.122586779	0.001589116	0.032273263	LOC386059	
ILMN_2600839	-0.574358142	7.766012136	-4.217484125	0.001349657	0.029586099	1700026J04Rik	
ILMN_1217839	-0.567440806	7.75814691	-4.611927912	0.000692912	0.020994205	Nap1l3	Mus musculus nucleosome assembly protein 1-like 3 (Nap1l3), mRNA.
ILMN_2602789	-0.76019366	7.748303679	-3.747085947	0.00306326	0.046126787	Atp11a	
ILMN_2427206	-0.691091259	7.739948842	-4.302628598	0.001166779	0.027594502	Pcx	
ILMN_1239547	-0.696607865	7.738874668	-4.781841569	0.000523256	0.017880383	Gcnt1	Mus musculus glucosaminyl (N-acetyl) transferase 1, core 2 (Gcnt1), mRNA.
ILMN_1242626	-0.473825465	7.70919222	-3.861316112	0.002504857	0.041223041	A630042M04Rik	
ILMN_2943738	-0.395481908	7.677397845	-4.300034792	0.00117195	0.027607357	Fbxl21	Mus musculus F-box and leucine-rich repeat protein 21 (Fbxl21), mRNA. XM_915729 XM_923901 XM_923905 XM_923909 XM_923913
ILMN_1236932	-1.332521251	7.637566329	-9.311670137	1.1901E-06	0.000563809	0710005M24Rik	Mus musculus RIKEN cDNA 0710005M24 gene (0710005M24Rik), mRNA.
ILMN_2672147	-0.408959206	7.624690667	-3.890632898	0.002379278	0.04011611	9130214H05Rik	
ILMN_1232533	-1.006314971	7.621362342	-8.725515929	2.28802E-06	0.000776051	Sycn	Mus musculus syncollin (Sycn), mRNA.
ILMN_1255996	-0.482979765	7.598871684	-4.184133196	0.001429217	0.030369904	Adam11	
ILMN_2745488	-0.772725709	7.591786223	-3.753619646	0.003028095	0.045849897	BC015286	Mus musculus cDNA sequence BC015286 (BC015286), mRNA.
ILMN_2717270	-0.518276554	7.572528893	-5.163923973	0.00028236	0.012140444	4933421B21Rik	
ILMN_2614203	-0.48296132	7.532029523	-4.127088706	0.001576813	0.032132774	D130060C09Rik	Mus musculus cancer susceptibility candidate 4 (Casc4), transcript variant 1, mRNA.
ILMN_2736968	-0.467907814	7.506543154	-4.783769895	0.000521603	0.017880383	Scpep1	Mus musculus serine carboxypeptidase 1 (Scpep1), mRNA.
ILMN_2726742	-0.680772414	7.490905764	-3.688373292	0.003398769	0.048561234	B230209E15Rik	
ILMN_2839710	-0.783936247	7.488798932	-4.092747897	0.00167323	0.032980911	LOC628416	Mus musculus hypothetical protein LOC628416 (LOC628416),

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
							mRNA.
ILMN_1250192	-1.141728986	7.406967513	-9.885157366	6.47349E-07	0.000417505	Psx1	Mus musculus reproductive homeobox 6 (Rhox6), mRNA.

Appendix I (a3)

List of upregulated genes: Fh1-/- Hif-1a-/- vs Fh1+/+ kidneys.

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_1234590	0.376410382	15.50628718	3.23744483	0.007620652	0.041584551	Rps8	Mus musculus ribosomal protein S8 (Rps8), mRNA.
ILMN_2541047	0.287640785	15.41424883	3.441205477	0.005281559	0.032651257	LOC381999	
ILMN_2948086	0.360798197	15.4077541	3.876332496	0.0024397	0.019775328	Rps4x	Mus musculus ribosomal protein S4, X-linked (Rps4x), mRNA.
ILMN_2759235	0.303922992	15.40048634	3.603478722	0.003952109	0.026985956	Rpl28	
ILMN_2924136	0.403441824	15.39712013	4.140839473	0.001539841	0.014649361	Rplp2	Mus musculus ribosomal protein, large P2 (Rplp2), mRNA.
ILMN_2883392	0.842893258	15.3859172	10.3098659	4.19919E-07	9.02749E-05	S100a11	Mus musculus S100 calcium binding protein A11 (calgizzarin) (S100a11), mRNA.
ILMN_1242465	0.37014113	15.36745309	3.610948408	0.003899906	0.026813675	LOC231368	
ILMN_2734921	0.324074728	15.34761147	3.836263649	0.002617594	0.020608266	Rpl13	
ILMN_1251098	0.357431564	15.29900761	4.378726122	0.001025199	0.011242792	scl0020042.1_302	
ILMN_1255034	0.468956023	15.26712593	4.506472276	0.000826468	0.00990654	Rps20	
ILMN_2534332	0.332644636	15.22321711	4.199423729	0.001392151	0.013753449	LOC194913	
ILMN_1227972	0.480108437	15.07088244	3.403044283	0.005655874	0.034142709	Rps16	Mus musculus ribosomal protein S16 (Rps16), mRNA.
ILMN_1233489	0.464622153	15.06552966	4.381791527	0.001019886	0.01120513	LOC226574	
ILMN_1228233	0.706795349	15.05211521	6.13475913	6.46021E-05	0.001868605	Gstm1	
ILMN_2780205	0.558679091	15.0173702	6.726378593	2.80228E-05	0.001105302	Ctnna1	Mus musculus catenin (cadherin associated protein), alpha 1 (Ctnna1), mRNA.
ILMN_2986393	0.624148357	15.00403113	5.709006999	0.000121362	0.002850443	Tuba1b	Mus musculus tubulin, alpha 1B (Tuba1b), mRNA.
ILMN_1228717	0.35200847	14.99263994	3.179517138	0.008461215	0.044417457	Rps4x	
ILMN_2700715	0.374414391	14.97298591	3.241853502	0.007560255	0.041432329	Cstb	
ILMN_1245207	0.324879486	14.9655926	3.144854751	0.009008476	0.046299647	LOC193798	
ILMN_1259869	0.456643436	14.95018583	3.60107787	0.00396904	0.027045461	LOC380682	
ILMN_1240350	0.536733593	14.90381813	5.474479878	0.000173632	0.003606439	LOC380692	
ILMN_2855315	0.643294921	14.89731558	3.497242712	0.004777217	0.030480942	Hist1h1c	Mus musculus histone cluster 1, H1c (Hist1h1c), mRNA.
ILMN_2530867	0.488281571	14.85322636	4.690694755	0.000608032	0.008034041	LOC381114	
ILMN_2874228	0.680906021	14.85111147	5.590227324	0.000145358	0.003188647	Rpl12	Mus musculus ribosomal protein L12 (Rpl12), mRNA.
ILMN_2806159	0.589596515	14.84601283	6.275008114	5.27734E-05	0.001633375	Tmsb4x	Mus musculus thymosin, beta 4, X chromosome (Tmsb4x), mRNA.
ILMN_1241437	0.828280927	14.82380192	7.872376554	6.30408E-06	0.000409902	Gsta3	
ILMN_2528515	0.41631845	14.78827171	4.005104045	0.001948093	0.017003415	LOC381448	
ILMN_1232951	0.37239304	14.74849723	3.437484502	0.005316917	0.032779003	Rps6	Mus musculus ribosomal protein S6 (Rps6), mRNA.
ILMN_2536024	0.354529514	14.74511589	3.300649011	0.006799712	0.038679743	LOC383793	
ILMN_1236631	0.312376747	14.72511614	3.281914711	0.007033217	0.039471696	Rpl23a	
ILMN_2897617	0.37683381	14.70158766	3.382896555	0.005864311	0.034887937	Rps10	Mus musculus ribosomal protein S10 (Rps10), mRNA.

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_3151345	0.450576687	14.68721499	4.277694226	0.001217492	0.012577064	Eif5	
ILMN_2533952	0.404621163	14.68285824	3.382098759	0.005872724	0.034913128	LOC237512	
ILMN_1248932	0.394446507	14.65999179	3.719304121	0.003217545	0.023622014	Rps6	Mus musculus ribosomal protein S6 (Rps6), mRNA.
ILMN_2599130	0.543546372	14.6353088	4.30654025	0.001159026	0.012162634	Aldoa	
ILMN_2794676	0.485070079	14.62326365	4.226398142	0.001329183	0.013315828	Rps26	Mus musculus ribosomal protein S26 (Rps26), mRNA.
ILMN_2624854	1.331071232	14.60476811	7.292195161	1.31523E-05	0.000673703	Gstm2	Mus musculus glutathione S-transferase, mu 2 (Gstm2), mRNA.
ILMN_2753219	0.392507741	14.57948683	4.239547756	0.00129957	0.013112747	Rpl36a	Mus musculus ribosomal protein L36a (Rpl36a), mRNA.
ILMN_2893077	0.415400919	14.5701132	3.154445367	0.008853569	0.045809108	Rps6	Mus musculus ribosomal protein S6 (Rps6), mRNA.
ILMN_1221503	0.60717683	14.56688926	5.224569878	0.000256506	0.004659383	Ccnd1	
ILMN_2970473	0.395346146	14.51878758	3.765390785	0.00296579	0.022403494	Npm1	Mus musculus nucleophosmin 1 (Npm1), mRNA.
ILMN_2668083	0.740061333	14.50580735	6.08668532	6.92821E-05	0.001963514	Rpl12	
ILMN_1251449	1.355583727	14.4960336	7.263857549	1.36472E-05	0.000693704	Gstm2	Mus musculus glutathione S-transferase, mu 2 (Gstm2), mRNA.
ILMN_2643092	0.377283374	14.47327057	3.089729	0.009953486	0.049473032	3010033P07Rik	Mus musculus ribosomal protein S9 (Rps9), mRNA.
ILMN_2529458	0.450682273	14.45595909	4.387019386	0.001010892	0.01113708	LOC230253	
ILMN_1247367	0.320548663	14.42477285	3.688087134	0.003400494	0.024478424	LOC381046	
ILMN_2611331	0.805736238	14.42021949	4.917630268	0.000419262	0.006348249	Ptp4a2	
ILMN_2677046	0.692209011	14.42021421	4.444239475	0.000917698	0.010522832	Gstp1	Mus musculus glutathione S-transferase, pi 1 (Gstp1), mRNA.
ILMN_2692845	0.345156119	14.41245396	3.597539419	0.003994129	0.027146654	Gpi1	
ILMN_1234314	0.627502962	14.37999495	5.568622572	0.00015024	0.003259248	LOC382790	
ILMN_1223317	2.012780082	14.35865861	10.58014264	3.21238E-07	7.59809E-05	Lgals3	Mus musculus lectin, galactose binding, soluble 3 (Lgals3), mRNA.
ILMN_1214408	2.114300112	14.34191183	3.683210603	0.003430025	0.024601952	LOC268393	
ILMN_2940017	0.406239942	14.3335998	3.744597773	0.003076761	0.022915342	Rps13	Mus musculus ribosomal protein S13 (Rps13), mRNA.
ILMN_2741063	0.727943254	14.33041405	6.375255717	4.5745E-05	0.001507754	2810003C17Rik	Mus musculus RIKEN cDNA 2810003C17 gene (2810003C17Rik), mRNA.
ILMN_2599618	0.631446041	14.30072585	6.74891097	2.71702E-05	0.001084217	Morf4l2	
ILMN_1240702	0.365580998	14.27144573	3.584464451	0.004088256	0.027490338	Atp1b3	Mus musculus ATPase, Na+/K+ transporting, beta 3 polypeptide (Atp1b3), mRNA.
ILMN_2727153	0.988945837	14.2689531	3.110047246	0.009594054	0.04823913	Clu	Mus musculus clusterin (Clu), mRNA.
ILMN_2540573	0.427902894	14.26374355	4.809230099	0.000500283	0.007085647	LOC385505	
ILMN_1217309	0.577008823	14.24766917	4.763911145	0.000538894	0.007472189	Tax1bp3	
ILMN_2914510	0.325779581	14.21978483	3.913729778	0.002284939	0.018932464	Sept2	Mus musculus septin 2 (Sept2), mRNA.
ILMN_2866189	0.954218553	14.21813928	6.915818959	2.16559E-05	0.000931124	Btg1	Mus musculus B-cell translocation gene 1, anti-proliferative (Btg1), mRNA.
ILMN_1248382	0.763857646	14.20993708	3.221706693	0.007840277	0.042370117	H2-D1	Mus musculus histocompatibility 2, D region locus 1 (H2-D1), mRNA.
ILMN_2678200	0.599398656	14.19918655	6.15042198	6.31509E-05	0.001837769	Gars	

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2877069	0.276772614	14.1744688	3.518134327	0.004602044	0.02980027	Tspo	Mus musculus translocator protein (Tspo), mRNA.
ILMN_2657516	0.349803294	14.16266727	4.179837045	0.001439815	0.014017075	1110020C13Rik	Mus musculus proline rich 13 (Prr13), mRNA.
ILMN_1213609	0.733556067	14.15501781	4.369359505	0.001041612	0.011344582	Txnip	
ILMN_1249235	0.362670386	14.13927586	3.238433719	0.007607062	0.041577491	LOC236932	
ILMN_2601471	0.614335804	14.1201467	5.340154822	0.000213915	0.004150116	Ccnd1	
ILMN_2708644	0.552427829	14.11275186	4.875848896	0.00044872	0.006593482	Eef1b2	Mus musculus eukaryotic translation elongation factor 1 beta 2 (Eef1b2), mRNA.
ILMN_1237186	0.408074166	14.1121621	3.213505321	0.007957259	0.042776318	Spint1	
ILMN_2964042	0.647008094	14.10407035	4.336897031	0.001100651	0.011741099	Bgn	Mus musculus biglycan (Bgn), mRNA.
ILMN_2740852	0.990399341	14.10064106	6.4489005	4.12209E-05	0.001417369	F2r	Mus musculus coagulation factor II (thrombin) receptor (F2r), mRNA.
ILMN_1249666	0.439165535	14.09616938	3.600245096	0.00397493	0.027062413	Ppap2c	
ILMN_2874853	0.536135317	14.07714846	4.723985412	0.000575508	0.007776522	Eef1b2	Mus musculus eukaryotic translation elongation factor 1 beta 2 (Eef1b2), mRNA.
ILMN_2698958	0.316802334	14.05713158	3.923669575	0.002245539	0.01873612	Arpc2	
ILMN_3123716	0.348231048	14.04340316	4.158981665	0.001492437	0.014377891	Morf4l1	Mus musculus mortality factor 4 like 1 (Morf4l1), transcript variant 2, mRNA.
ILMN_2735184	1.318971002	14.03184462	9.040406869	1.60391E-06	0.00019206	Col18a1	Mus musculus procollagen, type XVIII, alpha 1 (Col18a1), mRNA.
ILMN_1221817	0.660780479	14.010533	4.133341638	0.001559887	0.014712882	Ii	
ILMN_2671517	0.577753237	13.98852202	5.500200131	0.000166881	0.003505522	Rps15	Mus musculus ribosomal protein S15 (Rps15), mRNA.
ILMN_2657175	0.92248381	13.97626691	6.873398279	2.29334E-05	0.000973186	Anxa2	
ILMN_2674367	0.541636727	13.94791323	5.585944803	0.000146312	0.003202523	Agrn	
ILMN_1259482	0.472059554	13.93294383	5.272366743	0.000237897	0.004442049	Pabpc1	Mus musculus poly A binding protein, cytoplasmic 1 (Pabpc1), mRNA.
ILMN_2712066	1.54216617	13.93109063	15.82854164	4.38364E-09	6.14555E-06	Pgd	
ILMN_1254523	1.792309579	13.9287895	6.901534832	2.20773E-05	0.000944141	Gsto1	Mus musculus glutathione S-transferase omega 1 (Gsto1), mRNA.
ILMN_2704499	0.380092529	13.92745387	3.928593526	0.002226283	0.01860798	Hprt	
ILMN_3133448	0.598690228	13.90726056	4.488787979	0.000851384	0.010082672	Mfge8	Mus musculus milk fat globule-EGF factor 8 protein (Mfge8), transcript variant 2, mRNA.
ILMN_1231513	1.997065481	13.89522259	12.03028288	8.36005E-08	3.42103E-05	Tacstd2	
ILMN_2642681	0.374608618	13.89103489	3.112031693	0.009559659	0.048116881	Atf4	
ILMN_2747923	0.934876233	13.88597906	5.845800918	9.88336E-05	0.002529362	Slc40a1	
ILMN_2756041	1.127169753	13.88559587	6.549226856	3.58104E-05	0.0012987	Pkm2	Mus musculus pyruvate kinase, muscle (Pkm2), mRNA. XM_979725 XM_979753 XM_979779 XM_979805 XM_979833 XM_979863 XM_979890 XM_979922 XM_979949
ILMN_2783457	0.310093948	13.88544434	3.949252567	0.002147335	0.018169108	2310044H10Rik	Mus musculus RIKEN cDNA 2310044H10 gene (2310044H10Rik), mRNA.
ILMN_1225658	0.325164455	13.87497181	3.326641165	0.006488735	0.037374047	Ubl3	Mus musculus ubiquitin-like 3 (Ubl3), mRNA.

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ILMN_2742647	0.348888377	13.87039559	4.197631993	0.001396442	0.013758589	Snrpg	
ILMN_2892222	0.790943647	13.86832379	3.997081741	0.00197549	0.017167191	Acsl5	Mus musculus acyl-CoA synthetase long-chain family member 5 (Acsl5), mRNA.
ILMN_2746086	0.572992035	13.85457683	5.354400251	0.000209208	0.004088722	Tax1bp3	
ILMN_2888713	0.412384856	13.84457838	3.520778985	0.004580343	0.029717432	Cox7a2l	Mus musculus cytochrome c oxidase subunit VIIa polypeptide 2-like (Cox7a2l), mRNA.
ILMN_1217180	0.694147706	13.84339006	4.516819082	0.000812245	0.00980405	Ifitm1	Mus musculus interferon induced transmembrane protein 1 (Ifitm1), mRNA.
ILMN_2497268	0.470021873	13.82681728	5.463463127	0.000176612	0.003645745	Wdr1	
ILMN_2665490	1.3814776	13.81092834	7.534544272	9.62747E-06	0.000550411	Litaf	
ILMN_2665715	0.612307769	13.81038062	5.634606932	0.000135851	0.003052545	Gstt3	Mus musculus glutathione S-transferase, theta 3 (Gstt3), mRNA.
ILMN_1223230	0.783216241	13.79189981	5.683635964	0.000126109	0.002920081	Gstp1	Mus musculus glutathione S-transferase, pi 1 (Gstp1), mRNA.
ILMN_2661576	0.478719494	13.76631535	4.753603918	0.000548106	0.007569125	Bicc1	Mus musculus bicaudal C homolog 1 (Drosophila) (Bicc1), mRNA.
ILMN_2687706	0.338581639	13.76096839	4.115416087	0.00160892	0.014980642	Tceb2	Mus musculus transcription elongation factor B (SIII), polypeptide 2 (Tceb2), mRNA.
ILMN_1220865	1.413970495	13.75892496	10.75036169	2.72156E-07	7.05562E-05	C630041L24Rik	
ILMN_3089584	0.656629037	13.74962874	4.238347877	0.001302244	0.013134168	Ii	
ILMN_2747959	0.892728923	13.747322	4.504168926	0.00082967	0.0099307	Dcn	
ILMN_1250136	0.851584696	13.73107137	5.055823947	0.000335505	0.005498733	LOC231663	
ILMN_2500276	0.534080941	13.72624772	4.12411931	0.001584917	0.014837061	Ccng1	
ILMN_2866185	1.160006525	13.71908836	8.65259888	2.48766E-06	0.000242488	Btg1	Mus musculus B-cell translocation gene 1, anti-proliferative (Btg1), mRNA.
ILMN_2776278	1.175862146	13.69435575	3.482900486	0.004901412	0.031073965	Ly6e	
ILMN_2476733	0.843450505	13.6821768	5.238843799	0.000250793	0.004587513	1200016E24Rik	
ILMN_2995290	0.295894554	13.67419341	3.760702589	0.002990445	0.022505515	Dync1i2	Mus musculus dynein cytoplasmic 1 intermediate chain 2 (Dync1i2), mRNA.
ILMN_2836710	0.46967505	13.65665428	4.724767954	0.000574765	0.007776522	Cd151	Mus musculus CD151 antigen (Cd151), mRNA.
ILMN_2878071	0.984625506	13.65026383	7.069024774	1.76399E-05	0.000804858	Lyz	Mus musculus lysozyme (Lyz), mRNA.
ILMN_1259174	1.472567478	13.64505255	9.439436329	1.0365E-06	0.000148999	Scin	Mus musculus scinderin (Scin), mRNA.
ILMN_1232667	0.540697033	13.64146027	3.31610247	0.00661304	0.037916142	Ifitm2	Mus musculus interferon induced transmembrane protein 2 (Ifitm2), mRNA.
ILMN_1226468	0.30382096	13.63805967	3.423832396	0.005448727	0.033296535	Csde1	Mus musculus cold shock domain containing E1, RNA binding (Csde1), mRNA.
ILMN_1248947	0.902683298	13.63757828	6.558643449	3.5343E-05	0.001283699	Mal	
ILMN_2530916	0.537647923	13.63317969	4.023267887	0.001887508	0.016626655	LOC225058	
ILMN_2658501	0.715567053	13.62694529	5.21155817	0.000261835	0.004712035	Ifitm3	Mus musculus interferon induced transmembrane protein 3 (Ifitm3), mRNA.
ILMN_2927025	0.433401877	13.59641168	4.119079323	0.001598771	0.014937934	Sdcbp	Mus musculus syndecan binding protein (Sdcbp), mRNA.
ILMN_1223880	0.564900151	13.59405229	4.384902446	0.001014524	0.011168979	Tmprss2	Mus musculus transmembrane protease, serine 2 (Tmprss2), mRNA.

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ILMN_2607675	0.928485372	13.58837221	6.337772892	4.82485E-05	0.001562217	H2-Ab1	
ILMN_2760979	0.845268725	13.58396725	6.423932988	4.26988E-05	0.00144733	Tgfbr2	Mus musculus transforming growth factor, beta receptor II (Tgfbr2), transcript variant 1, mRNA.
ILMN_3160292	2.006663768	13.57995356	6.963986961	2.02969E-05	0.000882233	Akr1c19	Mus musculus aldo-keto reductase family 1, member C19 (Akr1c19), mRNA.
ILMN_1227164	1.057827903	13.55849038	7.604982974	8.80438E-06	0.000518763	Tubb5	
ILMN_2708877	0.332745346	13.54237572	3.296581686	0.006849728	0.038871597	AA960558	
ILMN_2526572	0.490724735	13.53743515	4.880244296	0.000445521	0.006577854	LOC381300	
ILMN_3112873	0.820417653	13.52615874	4.840727179	0.000475168	0.006847186	Txnip	Mus musculus thioredoxin interacting protein (Txnip), transcript variant 1, mRNA.
ILMN_3007072	1.098153219	13.52509849	11.54761181	1.28764E-07	4.15229E-05	Tpm1	Mus musculus tropomyosin 1, alpha (Tpm1), mRNA.
ILMN_2429025	1.01729177	13.52499127	5.666383378	0.00012945	0.002958864	Wbp5	
ILMN_2595973	0.370587509	13.51571087	4.167997392	0.001469447	0.014202278	Grn	Mus musculus granulin (Grn), mRNA.
ILMN_2515363	1.018735718	13.5155685	11.12485479	1.90411E-07	5.40926E-05	Tpm4	
ILMN_2773537	1.170953821	13.51483234	8.009010818	5.33143E-06	0.000362461	Ckmt1	
ILMN_1224421	0.329282464	13.50347359	3.16655326	0.008661843	0.045140328	Cdipt	Mus musculus CDP-diacylglycerol--inositol 3-phosphatidyltransferase (phosphatidylinositol synthase) (Cdipt), mRNA.
ILMN_3138499	0.350902513	13.4977587	3.449095961	0.005207375	0.032333108	Slc25a20	Mus musculus solute carrier family 25 (mitochondrial carnitine/acylcarnitine translocase), member 20 (Slc25a20), mRNA.
ILMN_2607880	0.815698207	13.4948735	5.227771048	0.000255213	0.004641885	Tkt	Mus musculus transketolase (Tkt), mRNA.
ILMN_1232274	0.440307183	13.49449951	3.248012405	0.007476694	0.041137265	Rpl36	
ILMN_2753096	0.395147936	13.49003249	5.27127376	0.000238306	0.004442737	Tex27	
ILMN_2680142	0.615865759	13.48496119	5.471799155	0.000174352	0.003610926	Anxa5	Mus musculus annexin A5 (Anxa5), mRNA.
ILMN_2772954	2.010710252	13.48349434	10.50336695	3.46435E-07	8.0262E-05	Aqp2	
ILMN_2523777	0.394458776	13.47742243	4.58581717	0.000723721	0.009088596	AL022832	
ILMN_1216732	0.329233486	13.45680923	4.171011687	0.001461844	0.014151713	Mcl1	Mus musculus myeloid cell leukemia sequence 1 (Mcl1), mRNA.
ILMN_1224561	0.498362953	13.45502068	5.707074813	0.000121716	0.002855965	Ube2d2	Mus musculus ubiquitin-conjugating enzyme E2D 2 (Ube2d2), mRNA.
ILMN_1249378	0.545877791	13.45343458	3.412751787	0.00555816	0.033723459	Bhlhb2	Mus musculus basic helix-loop-helix domain containing, class B2 (Bhlhb2), mRNA.
ILMN_2772248	0.287674335	13.4473091	3.091723568	0.009917608	0.049335811	Capns1	
ILMN_2778122	0.843779956	13.4291453	8.507412545	2.94326E-06	0.000267053	Pdcd4	Mus musculus programmed cell death 4 (Pdcd4), mRNA.
ILMN_2645208	0.362236609	13.415755	4.357916305	0.001062037	0.011519718	Arhgef3	Mus musculus Rho guanine nucleotide exchange factor (GEF) 3 (Arhgef3), mRNA.
ILMN_2742042	2.586056848	13.4141865	10.14518574	4.95778E-07	9.85896E-05	Nupr1	Mus musculus nuclear protein 1 (Nupr1), mRNA.
ILMN_2602711	0.531117323	13.38162834	5.646623618	0.000133391	0.003020035	Tgfbr1	Mus musculus transforming growth factor, beta receptor I (Tgfbr1), mRNA.

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ILMN_2869225	0.443931683	13.36869376	4.258889586	0.001257256	0.012848779	Rpl19	Mus musculus ribosomal protein L19 (Rpl19), mRNA.
ILMN_1235688	0.608082426	13.34317566	7.832377574	6.62367E-06	0.000423755	Cd151	
ILMN_1249905	1.243254133	13.33920062	8.881888506	1.91567E-06	0.000210015	D2Bwg0891e	
ILMN_3067068	0.628587451	13.33919716	3.726288296	0.003178021	0.023406515	Tmsb10	Mus musculus thymosin, beta 10 (Tmsb10), mRNA.
ILMN_2691680	3.170000938	13.33848178	3.791163051	0.002833949	0.021737872	Cyp4a14	Mus musculus cytochrome P450, family 4, subfamily a, polypeptide 14 (Cyp4a14), mRNA.
ILMN_2940195	1.621700591	13.32591505	10.91585922	2.3212E-07	6.15454E-05	Mgst1	Mus musculus microsomal glutathione S-transferase 1 (Mgst1), mRNA.
ILMN_2683732	0.325174155	13.32365304	3.957766916	0.002115646	0.018011298	Morf4l1	
ILMN_2670022	0.362062616	13.31372648	3.876891797	0.002437307	0.019768724	Plekhc1	
ILMN_2727920	0.29565728	13.31263769	3.456484441	0.005138875	0.032043108	Tspo	Mus musculus translocator protein (Tspo), mRNA.
ILMN_2651077	0.347563955	13.31164575	3.660985985	0.003567994	0.025209844	Scotin	Mus musculus scotin gene (Scotin), transcript variant 1, mRNA.
ILMN_2614380	0.822797381	13.29889712	8.43906647	3.18812E-06	0.000276648	Map3k1	Mus musculus mitogen activated protein kinase kinase kinase 1 (Map3k1), mRNA.
ILMN_2589814	0.288868468	13.28879869	3.69627031	0.003351524	0.024228237	Dncl2a	
ILMN_2621643	0.667934354	13.28334806	5.185586569	0.000272822	0.004829643	Col4a1	Mus musculus procollagen, type IV, alpha 1 (Col4a1), mRNA.
ILMN_1221157	0.8400363	13.28266407	7.743032835	7.4021E-06	0.000457607	Krt2-8	
ILMN_1259528	0.771114771	13.28101086	6.419661174	4.29572E-05	0.001451966	LOC382092	
ILMN_1260064	0.594927948	13.27662247	3.812181701	0.00273091	0.021165217	Pfn2	Mus musculus profilin 2 (Pfn2), mRNA.
ILMN_2625351	1.228656364	13.27416433	5.011556066	0.000360227	0.005746051	Sh3bgrl3	Mus musculus SH3 domain binding glutamic acid-rich protein-like 3 (Sh3bgrl3), mRNA.
ILMN_2630993	0.498347539	13.26637432	4.896890639	0.000433621	0.0064834	Ppap2b	
ILMN_2678019	0.332140387	13.26320671	3.260171399	0.007314466	0.040535322	Psmd8	Mus musculus proteasome (prosome, macropain) 26S subunit, non-ATPase, 8 (Psmd8), mRNA. XM_001002011
ILMN_2463979	0.426143078	13.25976885	3.158521501	0.00878855	0.045561843	Twsg1	Mus musculus twisted gastrulation homolog 1 (Drosophila) (Twsg1), mRNA.
ILMN_2678773	0.429506721	13.25753943	3.639934347	0.003703947	0.025866929	Ppp2cb	
ILMN_2458765	1.136203297	13.24916273	7.676010496	8.05035E-06	0.0004862	1110004P15Rik	
ILMN_1215493	0.232547355	13.23809944	3.235909101	0.007641806	0.041633882	Cops4	Mus musculus COP9 (constitutive photomorphogenic) homolog, subunit 4 (Arabidopsis thaliana) (Cops4), mRNA.
ILMN_2706853	0.462798493	13.23471912	3.805708568	0.002762224	0.021328505	Scamp1	
ILMN_2729861	0.320784681	13.22860485	3.962933342	0.002096655	0.017913523	Bzw1	
ILMN_1251729	0.55853349	13.22752348	4.706184705	0.000592665	0.007932006	Nfe2l1	Mus musculus nuclear factor, erythroid derived 2,-like 1 (Nfe2l1), mRNA.
ILMN_1234453	1.107443141	13.22138426	4.173870295	0.00145467	0.014110892	Rbm3	Mus musculus RNA binding motif protein 3 (Rbm3), mRNA.
ILMN_2912471	0.740502578	13.21320741	7.054657548	1.79802E-05	0.000816209	4930570C03Rik	Mus musculus RIKEN cDNA 4930570C03 gene (4930570C03Rik), mRNA.
ILMN_2991272	1.243560294	13.19586717	7.126952023	1.6336E-05	0.000780047	Aqp3	Mus musculus aquaporin 3 (Aqp3), mRNA.

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2759344	1.434349084	13.19454708	4.583918558	0.000726017	0.009094454	1600023A02Rik	Mus musculus WAP four-disulfide core domain 2 (Wfdc2), mRNA.
ILMN_2492403	0.57788789	13.18427363	7.349607801	1.22075E-05	0.000640237	Cd151	
ILMN_1230916	0.381611632	13.18219688	4.571905968	0.000740719	0.009201336	LOC381681	
ILMN_1256702	0.593081862	13.18202219	3.776286788	0.002909294	0.022130855	S100a10	
ILMN_2767635	0.471091744	13.18060282	4.525403347	0.00080064	0.009703232	Tmem49	Mus musculus transmembrane protein 49 (Tmem49), mRNA.
ILMN_1236522	1.991403915	13.17542979	3.128428848	0.009280177	0.047147723	Cbr1	
ILMN_2514522	0.476711383	13.1731292	4.579758451	0.000731073	0.00912694	4930533K18Rik	
ILMN_1243256	0.485888977	13.17109283	3.608324227	0.003918164	0.026873405	LOC214738	
ILMN_2531581	0.432956853	13.16249012	3.434461771	0.005345818	0.032895113	LOC381215	
ILMN_1243249	0.418295086	13.16130618	3.858992799	0.002515098	0.020153721	2810410A03Rik	
ILMN_2747651	0.393686491	13.1575236	3.700640273	0.003325671	0.024107073	Hat1	Mus musculus histone aminotransferase 1 (Hat1), mRNA.
ILMN_2613306	0.782396949	13.15176545	5.010174898	0.000361028	0.00575499	Efhd1	
ILMN_2501026	0.483711451	13.15067109	5.560234625	0.000152182	0.003271631	Dnajc5	
ILMN_2664224	2.504892947	13.14798709	15.4914471	5.54015E-09	6.95814E-06	Ephx1	Mus musculus epoxide hydrolase 1, microsomal (Ephx1), mRNA.
ILMN_2829636	0.469991891	13.14163091	4.468515795	0.000880917	0.010254301	Dnajb9	Mus musculus DnaJ (Hsp40) homolog, subfamily B, member 9 (Dnajb9), mRNA.
ILMN_1224768	0.933143889	13.13418998	5.018895899	0.000355999	0.005701471	Ehd4	
ILMN_2841721	0.469000602	13.1226765	5.191690093	0.000270197	0.004807276	Ttc3	Mus musculus tetratricopeptide repeat domain 3 (Ttc3), mRNA.
ILMN_2488997	0.631040166	13.1190354	7.019376562	1.88462E-05	0.000835949	2010005O13Rik	
ILMN_3109491	0.678675348	13.11628024	7.007555375	1.91462E-05	0.000841411	6430527G18Rik	Mus musculus RIKEN cDNA 6430527G18 gene (6430527G18Rik), mRNA.
ILMN_3086136	0.477125056	13.10903084	5.031635101	0.000348784	0.005642726	Centg2	Mus musculus centaurin, gamma 2 (Centg2), transcript variant 2, mRNA.
ILMN_1225916	0.412148665	13.10827827	3.94403703	0.002166988	0.018259475	LOC226740	
ILMN_1213070	0.619034683	13.10010108	3.369986131	0.006001978	0.035500282	1700037H04Rik	
ILMN_2424866	0.337628772	13.08322373	4.350404534	0.001075671	0.011605994	D530030D03Rik	
ILMN_2670751	1.824985365	13.08313532	9.713876007	7.74114E-07	0.000135518	Fxyd4	Mus musculus FXYD domain-containing ion transport regulator 4 (Fxyd4), mRNA.
ILMN_1251143	0.352849494	13.07517478	4.118121168	0.00160142	0.014945121	9130415E20Rik	
ILMN_1220261	0.694788418	13.07487009	3.72142853	0.00320547	0.023565446	Tm4sf3	Mus musculus tetraspanin 8 (Tspan8), mRNA.
ILMN_2862470	1.493920588	13.07367379	8.325252439	3.64587E-06	0.000299553	Gstm2	Mus musculus glutathione S-transferase, mu 2 (Gstm2), mRNA.
ILMN_2808946	0.437798263	13.06921772	3.407003876	0.005615807	0.033969585	Rps5	Mus musculus ribosomal protein S5 (Rps5), mRNA.
ILMN_1242107	2.039167801	13.05430802	3.99554898	0.001980769	0.017200546	Cox7a2l	
ILMN_1219016	0.460355721	13.04752172	5.786437084	0.00010801	0.002659902	2310058J06Rik	
ILMN_2995755	0.258329722	13.04207711	3.17776123	0.008488112	0.044510557	Etf1	Mus musculus eukaryotic translation termination factor 1 (Etf1), mRNA.

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ILMN_2944666	1.679547887	13.04177149	7.211543206	1.4614E-05	0.000724212	Ifit3	Mus musculus interferon-induced protein with tetratricopeptide repeats 3 (Ifit3), mRNA.
ILMN_2601639	0.472774947	13.03867746	4.581359665	0.000729123	0.009123781	C77032	Mus musculus guanine nucleotide binding protein-like 3 (nucleolar) (Gnl3), transcript variant 1, mRNA.
ILMN_2788629	0.366598878	13.03504149	3.390682926	0.005782844	0.034628863	Cnih4	Mus musculus cornichon homolog 4 (Drosophila) (Cnih4), mRNA.
ILMN_1257702	0.563886181	13.0306574	6.696878465	2.91825E-05	0.001128658	Lars	
ILMN_2913166	0.920109381	13.01883821	6.612763143	3.278E-05	0.001218424	Serping1	Mus musculus serine (or cysteine) peptidase inhibitor, clade G, member 1 (Serping1), mRNA.
ILMN_1219840	0.480307593	13.01660254	3.118750979	0.009444118	0.047706391	2310033F14Rik	
ILMN_2878430	0.295351913	13.01347774	3.648616605	0.003647243	0.025560691	Rpl30	Mus musculus ribosomal protein L30 (Rpl30), mRNA.
ILMN_2670895	0.323096156	13.00622502	3.457082941	0.005133367	0.032026368	Bat1a	Mus musculus HLA-B-associated transcript 1A (Bat1a), mRNA.
ILMN_2423789	0.320648984	13.00206912	3.763273079	0.002976901	0.022437706	Sae1	Mus musculus SUMO1 activating enzyme subunit 1 (Sae1), mRNA.
ILMN_3152380	0.305333612	12.99969665	3.624594441	0.003806359	0.026389058	Flot2	Mus musculus flotillin 2 (Flot2), transcript variant 1, mRNA.
ILMN_2594714	0.296492448	12.98838117	3.997386502	0.001974441	0.017165089	Ets2	Mus musculus E26 avian leukemia oncogene 2, 3' domain (Ets2), mRNA.
ILMN_2491831	0.246716761	12.98528004	3.106483482	0.009656137	0.048479779	D11Bwg0414e	
ILMN_2419138	0.74016055	12.98441594	8.815740352	2.06454E-06	0.000217992	Vcl	
ILMN_1258601	0.569264738	12.97814245	4.785987637	0.000519708	0.007278049	Ywhag	Mus musculus 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide (Ywhag), mRNA.
ILMN_1224029	0.646203436	12.97080231	3.518005831	0.004603101	0.02980027	Mal	
ILMN_1218799	1.076082083	12.96135831	6.74157909	2.74445E-05	0.001091514	Emb	Mus musculus embigin (Emb), mRNA.
ILMN_2750864	0.590864172	12.95776044	4.438677459	0.00092635	0.010546926	2210013O21Rik	
ILMN_2731265	1.284153321	12.95481636	5.984314413	8.04937E-05	0.002175337	Hsd11b2	
ILMN_2601907	0.385590315	12.95382673	3.455960991	0.005143698	0.032062428	Ldb1	Mus musculus LIM domain binding 1 (Ldb1), mRNA.
ILMN_2919786	0.256676095	12.94396848	3.146972213	0.008974041	0.046192307	Erh	Mus musculus enhancer of rudimentary homolog (Drosophila) (Erh), mRNA.
ILMN_1214902	0.460327312	12.9397372	5.030391072	0.000349481	0.005646358	LOC242051	
ILMN_2673211	0.357563415	12.93938478	3.175147903	0.008528302	0.044602315	Pfn1	Mus musculus profilin 1 (Pfn1), mRNA.
ILMN_2914744	0.919168477	12.92842068	7.072872706	1.75499E-05	0.000804858	Hn1	Mus musculus hematological and neurological expressed sequence 1 (Hn1), mRNA.
ILMN_2994895	0.303077814	12.92037067	3.602996673	0.003955503	0.026990914	Wdr68	Mus musculus WD repeat domain 68 (Wdr68), mRNA.
ILMN_1233175	0.573988348	12.91633518	6.764938681	2.65806E-05	0.001073012	Ppp1r14b	
ILMN_2418465	0.366972524	12.91495387	3.564819058	0.004233984	0.028182865	Gnai2	
ILMN_1237033	0.711461837	12.91151356	4.508137128	0.000824162	0.009892848	LOC384710	
ILMN_2628629	0.496536773	12.90891741	4.480152904	0.000863835	0.010157241	Cdh1	
ILMN_1227463	0.310336303	12.9063249	3.652727891	0.003620704	0.025426972	Tsnax	

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ILMN_2660175	0.423776383	12.90612993	3.966274666	0.002084466	0.017834929	Fbxo6b	
ILMN_3096361	0.330044995	12.90466229	3.161159701	0.008746725	0.045410892	Bclaf1	Mus musculus BCL2-associated transcription factor 1 (Bclaf1), transcript variant 3, mRNA.
ILMN_1218413	0.504148571	12.89622162	4.409224351	0.000973604	0.010856596	Rnf19	Mus musculus ring finger protein (C3HC4 type) 19 (Rnf19), mRNA.
ILMN_1217849	0.970701855	12.89019329	5.498200572	0.000167395	0.003510155	Laptm5	Mus musculus lysosomal-associated protein transmembrane 5 (Laptm5), mRNA.
ILMN_2929791	0.669790215	12.8896386	4.226597558	0.001328729	0.013315828	Pfn2	Mus musculus profilin 2 (Pfn2), mRNA.
ILMN_2659644	0.437550144	12.87888792	4.417236772	0.000960505	0.010801377	Map2k3	Mus musculus mitogen activated protein kinase kinase 3 (Map2k3), mRNA.
ILMN_2946184	0.306603876	12.86118224	3.54652711	0.004374463	0.028841691	Hoxb7	Mus musculus homeo box B7 (Hoxb7), mRNA.
ILMN_2680533	0.369753911	12.85419409	4.320698476	0.001131408	0.011967549	Gstt1	Mus musculus glutathione S-transferase, theta 1 (Gstt1), mRNA.
ILMN_2957070	0.303733366	12.84925255	3.506934344	0.00469512	0.030183098	Shc1	Mus musculus src homology 2 domain-containing transforming protein C1 (Shc1), mRNA.
ILMN_2724585	0.74551751	12.84187871	5.715237302	0.000120225	0.002834339	Dag1	Mus musculus dystroglycan 1 (Dag1), mRNA.
ILMN_1217826	0.611191817	12.84175119	4.436193297	0.000930241	0.010575674	LOC328703	
ILMN_1227540	0.461977656	12.83485672	5.769786526	0.000110743	0.00269894	Phf10	Mus musculus PHD finger protein 10 (Phf10), mRNA.
ILMN_1234256	0.396672688	12.83461178	4.014235037	0.001917389	0.016808849	LOC215678	
ILMN_2669416	2.178596753	12.8316555	16.9465961	2.08116E-09	4.40957E-06	Mgst1	Mus musculus microsomal glutathione S-transferase 1 (Mgst1), mRNA.
ILMN_2822579	0.717137131	12.83141122	5.835422436	0.000100376	0.002545458	Col4a2	Mus musculus procollagen, type IV, alpha 2 (Col4a2), mRNA.
ILMN_2685079	0.274239752	12.83028413	3.386909494	0.00582218	0.034742355	Rabgap1	
ILMN_2705119	0.902032264	12.82365298	3.887211296	0.002393593	0.019505501	Btg1	Mus musculus B-cell translocation gene 1, anti-proliferative (Btg1), mRNA.
ILMN_2621708	2.520158014	12.81955525	10.65416928	2.98809E-07	7.27599E-05	Abcc4	
ILMN_1229042	0.49301414	12.81883662	4.817584756	0.000493488	0.007028607	Eef1b2	Mus musculus eukaryotic translation elongation factor 1 beta 2 (Eef1b2), mRNA.
ILMN_1220165	0.450477157	12.81718675	4.718492807	0.000580745	0.007825142	Capzb	
ILMN_2837543	0.425927246	12.8171613	3.823923121	0.002675042	0.0208746	Nras	Mus musculus neuroblastoma ras oncogene (Nras), mRNA.
ILMN_3005873	1.237089757	12.81702199	9.048611415	1.58934E-06	0.00019206	Sort1	Mus musculus sortilin 1 (Sort1), mRNA.
ILMN_2776552	0.386071158	12.81667289	3.669123359	0.003516827	0.025014024	Hprt	
ILMN_1258394	0.570493768	12.81643586	5.355802195	0.000208751	0.00408648	Aars	
ILMN_2690839	0.591248961	12.80752416	3.103962005	0.009700307	0.048619707	Esam1	Mus musculus endothelial cell-specific adhesion molecule (Esam1), mRNA.
ILMN_2987062	0.399590542	12.80060467	5.399365612	0.000195057	0.003898367	Thyn1	Mus musculus thymocyte nuclear protein 1 (Thyn1), mRNA.
ILMN_2979237	3.393602548	12.78493962	8.44297649	3.17354E-06	0.000276648	Gsta1	Mus musculus glutathione S-transferase, alpha 1 (Ya) (Gsta1), mRNA.
ILMN_2661650	1.654413734	12.77746303	8.197227415	4.2467E-06	0.000318362	Dp1l1	Mus musculus receptor accessory protein 6 (Reep6), mRNA.
ILMN_2775421	0.854785177	12.77439773	6.327598162	4.8953E-05	0.001572228	Serping1	
ILMN_2661366	0.766074142	12.77418737	3.974737724	0.002053922	0.017631882	BC018222	Mus musculus transmembrane protein 45b (Tmem45b), mRNA.

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ILMN_2725414	0.817560704	12.77378789	5.608411827	0.00014138	0.003132541	Cd9	
ILMN_1247477	0.387254982	12.77015192	3.115182445	0.009505304	0.047924162	LOC280205	
ILMN_2498479	0.469738068	12.76902381	4.605606622	0.000700242	0.008897702	Ttc3	Mus musculus tetratricopeptide repeat domain 3 (Ttc3), mRNA.
ILMN_1258159	1.544434179	12.764173	9.947532095	6.06911E-07	0.000114942	Slc2a1	Mus musculus solute carrier family 2 (facilitated glucose transporter), member 1 (Slc2a1), mRNA.
ILMN_1247131	0.327500568	12.75772854	4.415798627	0.000962842	0.010817469	2310044H10Rik	
ILMN_1225594	0.656980484	12.73933688	6.404855264	4.3866E-05	0.00147019	1110008P14Rik	Mus musculus RIKEN cDNA 1110008P14 gene (1110008P14Rik), mRNA.
ILMN_1212626	1.287263925	12.73556506	11.62213745	1.20336E-07	4.09663E-05	S100a11	
ILMN_1219717	1.294484815	12.73479595	8.196239333	4.25173E-06	0.000318362	Sort1	
ILMN_3136561	0.911950118	12.73044846	9.351631002	1.13958E-06	0.000158311	Sparc	Mus musculus secreted acidic cysteine rich glycoprotein (Sparc), mRNA.
ILMN_2712075	5.841529571	12.72493649	19.13123682	5.49304E-10	2.45367E-06	Lcn2	Mus musculus lipocalin 2 (Lcn2), mRNA.
ILMN_2697433	0.516781408	12.70806353	3.945514842	0.0021614	0.018231706	4732495E13Rik	
ILMN_1225699	1.712817204	12.70506829	3.173670235	0.008551113	0.044690144	Serpina1a	
ILMN_2498478	0.425908628	12.70336337	3.546021707	0.004378411	0.028841691	Ttc3	Mus musculus tetratricopeptide repeat domain 3 (Ttc3), mRNA.
ILMN_2939138	0.590423017	12.69717565	4.602189668	0.000704239	0.008938961	Bicc1	Mus musculus bicaudal C homolog 1 (Drosophila) (Bicc1), mRNA.
ILMN_2892441	2.982077664	12.69557418	7.073825026	1.75277E-05	0.000804858	Gsta4	Mus musculus glutathione S-transferase, alpha 4 (Gsta4), mRNA.
ILMN_1234139	0.264062524	12.69191838	3.161597437	0.008739805	0.045388022	Abi1	
ILMN_2437470	0.652134265	12.69166656	3.466758846	0.005045147	0.031682198	2810423A18Rik	
ILMN_2659229	0.708639785	12.68982217	6.221121126	5.70197E-05	0.00172105	Rpl22	Mus musculus ribosomal protein L22 (Rpl22), mRNA.
ILMN_2476139	0.511622304	12.68878403	4.276341305	0.001220309	0.012584369	Tuba6	
ILMN_2771034	0.672250546	12.68161254	5.491709422	0.000169078	0.003536117	Mfge8	
ILMN_1222813	0.388659539	12.68139904	3.910968416	0.002296011	0.018991234	1810013H02Rik	
ILMN_2742152	1.174835865	12.67094878	7.461116049	1.05741E-05	0.000582746	Gadd45a	Mus musculus growth arrest and DNA-damage-inducible 45 alpha (Gadd45a), mRNA.
ILMN_2747196	1.311501912	12.66825708	5.021621318	0.000354442	0.00569182	Kai1	
ILMN_1232084	0.391718784	12.66538864	3.669229345	0.003516166	0.025014024	D2Bwg1356e	
ILMN_2909634	0.8644133	12.66062678	3.606863661	0.003928365	0.026898871	Trappc3	Mus musculus trafficking protein particle complex 3 (Trappc3), mRNA.
ILMN_1260046	0.663380992	12.65650776	5.436222683	0.000184214	0.003744383	2010005O13Rik	
ILMN_1243988	0.535366826	12.65297832	4.491621266	0.00084734	0.010064747	LOC269251	
ILMN_2620435	0.661579395	12.65073928	5.292201731	0.000230599	0.00435346	Ctps	Mus musculus cytidine 5'-triphosphate synthase (Ctps), mRNA.
ILMN_3026557	0.614888041	12.65020696	4.297024214	0.001177983	0.012285925	Rbpms	Mus musculus RNA binding protein gene with multiple splicing (Rbpms), transcript variant 3, mRNA.
ILMN_2589640	0.65478903	12.64259805	6.425595243	4.25986E-05	0.00144599	Ednrb	Mus musculus endothelin receptor type B (Ednrb), mRNA.
ILMN_2759914	1.307791922	12.63346831	11.25823514	1.68076E-07	5.07696E-05	Scnn1g	

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ILMN_2878501	0.423249747	12.6272369	4.298484751	0.001175052	0.012272748	Nedd4l	Mus musculus neural precursor cell expressed, developmentally down-regulated gene 4-like (Nedd4l), mRNA.
ILMN_1258526	0.746050345	12.62069723	4.501678233	0.000833146	0.009945659	Lgals3bp	
ILMN_2943599	1.359210749	12.62041516	8.164413675	4.41728E-06	0.000328036	Ngfrap1	Mus musculus nerve growth factor receptor (TNFRSF16) associated protein 1 (Ngfrap1), mRNA.
ILMN_2966722	0.604891053	12.61923703	5.253034043	0.000245246	0.004519159	Ywhah	Mus musculus tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide (Ywhah), mRNA.
ILMN_2726371	2.192486453	12.61598958	11.13290887	1.88975E-07	5.40926E-05	Nqo1	
ILMN_2658566	0.447965797	12.61564992	3.193377721	0.008251907	0.04370068	Midn	Mus musculus midnolin (Midn), mRNA.
ILMN_2592253	0.363208242	12.61215287	3.424013193	0.00544696	0.033294262	Hist1h3h	
ILMN_2955671	0.668616393	12.61115312	4.431358788	0.000937863	0.010636991	Slc38a2	Mus musculus solute carrier family 38, member 2 (Slc38a2), mRNA.
ILMN_1239234	0.474187108	12.61053476	5.046731767	0.000340433	0.005543584	2010309L07Rik	
ILMN_3111877	0.676585652	12.60951637	7.019353095	1.88468E-05	0.000835949	Rbms2	Mus musculus RNA binding motif, single stranded interacting protein 2 (Rbms2), transcript variant 2, mRNA.
ILMN_2662926	2.184075589	12.60457174	3.235236622	0.007651087	0.041674936	Egr1	
ILMN_1260325	0.670858685	12.59609342	8.310688213	3.70936E-06	0.000300438	Pabpc4	
ILMN_2821850	0.632564725	12.58982532	3.480645241	0.00492124	0.031150013	Pbef1	Mus musculus pre-B-cell colony-enhancing factor 1 (Pbef1), mRNA.
ILMN_2731949	0.903628281	12.58823316	5.883750457	9.34042E-05	0.002435961	Copeb	
ILMN_2646985	3.203382854	12.57664779	16.17626511	3.45947E-09	5.50356E-06	Atf5	Mus musculus activating transcription factor 5 (Atf5), mRNA.
ILMN_1253958	0.478924029	12.57633329	3.654160823	0.0036115	0.025383438	LOC237361	
ILMN_1250688	0.566483645	12.57402097	5.418716941	0.000189282	0.003805263	Fath	
ILMN_1244312	0.692526333	12.5739546	5.739339263	0.000115934	0.002772066	LOC212399	
ILMN_2816180	0.533051222	12.5727198	3.243157761	0.007542481	0.041357128	Lbh	Mus musculus limb-bud and heart (Lbh), mRNA.
ILMN_1253237	0.906323896	12.5698998	9.596950347	8.75908E-07	0.000141775	Pdcd4	Mus musculus programmed cell death 4 (Pdcd4), mRNA.
ILMN_2773699	0.335928469	12.56873162	3.15615286	0.008826274	0.045697845	D8Ertd354e	
ILMN_2419854	0.715320784	12.56154485	4.35533513	0.001066701	0.011546924	Efhd1	
ILMN_2710419	1.055680095	12.55829014	8.637577137	2.53108E-06	0.000242488	Plec1	
ILMN_2664548	0.518392112	12.5554684	3.751811846	0.003037783	0.022738587	Pgls	Mus musculus BCNP1 homolog (Bcnp1), mRNA.
ILMN_1241171	1.285002408	12.55437846	8.299756946	3.7578E-06	0.000301927	Anxa3	Mus musculus annexin A3 (Anxa3), mRNA.
ILMN_2473337	0.373084207	12.54018158	3.575313801	0.004155484	0.027823321	1110014C03Rik	
ILMN_3158909	0.387987074	12.53556454	3.704390361	0.003303649	0.024005779	Banf1	Mus musculus barrier to autointegration factor 1 (Banf1), transcript variant 2, mRNA.
ILMN_2677772	1.881769193	12.53174156	11.31668749	1.59195E-07	4.87035E-05	Npn3	Mus musculus sulfiredoxin 1 homolog (S. cerevisiae) (Srxn1), mRNA.
ILMN_1250538	0.419052439	12.52770311	3.509289662	0.004675388	0.030113032	D10Ucla1	Mus musculus receptor accessory protein 3 (Reep3), mRNA.

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ILMN_3123836	0.610855478	12.52762433	6.474295184	3.97736E-05	0.001394787	Nudt7	Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 7 (Nudt7), transcript variant 1, mRNA.
ILMN_2654495	0.960507926	12.51487917	7.436260474	1.09167E-05	0.000590716	Iqgap1	
ILMN_1215212	0.887754056	12.51280451	7.887300744	6.18911E-06	0.000405744	Rhob	
ILMN_1247704	0.610424256	12.50859256	4.117269421	0.001603777	0.014961275	Hmgn3	Mus musculus high mobility group nucleosomal binding domain 3 (Hmgn3), transcript variant 2, mRNA.
ILMN_1226587	0.532646032	12.50008556	3.460329518	0.005103592	0.031914835	LOC234640	
ILMN_2756435	1.056174805	12.49636403	6.258594941	5.40299E-05	0.001650852	Cebpb	Mus musculus CCAAT/enhancer binding protein (C/EBP), beta (Cebpb), mRNA.
ILMN_3128019	0.871992449	12.49545535	10.69093108	2.88304E-07	7.16645E-05	Dnajc10	Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 10 (Dnajc10), mRNA.
ILMN_1223307	0.479575785	12.49372214	5.184595491	0.000273251	0.004833649	4933424M23Rik	
ILMN_2764781	0.770427374	12.49369017	7.529330426	9.69159E-06	0.000551958	Pls3	Mus musculus plastin 3 (T-isoform) (Pls3), mRNA.
ILMN_2957113	0.27114182	12.48823132	3.344081953	0.006288218	0.036590039	Ercc3	Mus musculus excision repair cross-complementing rodent repair deficiency, complementation group 3 (Ercc3), mRNA.
ILMN_1223428	0.382759232	12.48804	3.237989212	0.007613168	0.041581516	Eif3s8	
ILMN_2670398	1.734651285	12.47905356	7.137608916	1.61076E-05	0.000772231	Eif4ebp1	
ILMN_2837189	0.388430815	12.47621475	3.328799965	0.006463566	0.037292089	6720467C03Rik	Mus musculus RIKEN cDNA 6720467C03 gene (6720467C03Rik), mRNA.
ILMN_2760671	0.721437419	12.47093239	3.802682621	0.002776989	0.021392498	D030056L22	Mus musculus RIKEN cDNA D030056L22 gene (D030056L22Rik), mRNA.
ILMN_1244979	0.291444528	12.46941077	3.138210995	0.009117389	0.046688465	2810025O06Rik	
ILMN_2644587	0.855122225	12.46923308	8.25522193	3.96229E-06	0.000310746	Bzw2	Mus musculus basic leucine zipper and W2 domains 2 (Bzw2), mRNA.
ILMN_2671708	0.687896173	12.46495132	4.929235731	0.000411446	0.00624973	Dnajc5	
ILMN_1218890	0.589794217	12.45851328	3.267492796	0.00721851	0.04011535	LOC381140	
ILMN_2603568	0.672971416	12.45245786	5.988696549	7.99762E-05	0.002163801	Obrgrp	
ILMN_3084954	0.745133555	12.44817571	5.122462868	0.000301609	0.00513307	Tes	Mus musculus testis derived transcript (Tes), transcript variant 1, mRNA.
ILMN_2743425	0.455891281	12.44222405	5.769805284	0.00011074	0.00269894	Arfip1	
ILMN_2671204	0.405948124	12.43901486	4.450228205	0.000908478	0.010464683	Psme1	Mus musculus proteasome (prosome, macropain) 28 subunit, alpha (Psme1), mRNA.
ILMN_1231578	0.414525	12.43359036	5.815859643	0.000103354	0.002590683	Dncic2	
ILMN_1227803	0.51327687	12.42764138	5.301289453	0.000227334	0.004319167	LOC383883	
ILMN_2896768	4.84320701	12.42591141	16.59691411	2.61405E-09	4.79838E-06	Cbr3	Mus musculus carbonyl reductase 3 (Cbr3), mRNA.
ILMN_3065373	0.610469519	12.42441313	3.755267327	0.003019293	0.022635689	4930572J05Rik	Mus musculus RIKEN cDNA 4930572J05 gene (4930572J05Rik), mRNA.
ILMN_2663805	0.524581331	12.40360592	4.817768454	0.00049334	0.007028607	Map4k3	
ILMN_2772410	0.881296543	12.39906132	7.863514497	6.37343E-06	0.000413286	Anxa4	
ILMN_1226447	0.482871775	12.39826948	3.977659563	0.002043485	0.017585173	Sema4b	

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ILMN_2484465	1.383182047	12.39639077	11.83303848	9.95563E-08	3.59956E-05	Txnrd1	
ILMN_2834777	0.552230196	12.38015426	4.264885318	0.001244433	0.012766937	Irf1	Mus musculus interferon regulatory factor 1 (Irf1), mRNA.
ILMN_2513837	0.798358048	12.37920347	5.470047136	0.000174824	0.003615106	Gng10	
ILMN_1247133	0.436890814	12.37168196	3.380797723	0.005886471	0.034986014	BC023928	
ILMN_3160842	0.268763958	12.36705408	3.194413683	0.008236476	0.043667411	BC087945	Mus musculus cDNA sequence BC087945 (BC087945), mRNA.
ILMN_1230119	1.42194156	12.36031583	9.104907322	1.49311E-06	0.000189003	Gcap27	
ILMN_2943477	0.359216445	12.35712065	3.890316023	0.0023806	0.01942163	Lcmt1	Mus musculus leucine carboxyl methyltransferase 1 (Lcmt1), mRNA.
ILMN_2712120	1.550767825	12.34715624	11.59644562	1.23172E-07	4.09663E-05	S100a6	
ILMN_2495888	0.59338527	12.3458541	4.529918509	0.000794605	0.009644793	scl0002617.1_582	
ILMN_2841720	0.454583041	12.33958455	4.666920988	0.000632437	0.008285915	Ttc3	Mus musculus tetratricopeptide repeat domain 3 (Ttc3), mRNA.
ILMN_2473674	0.233539874	12.33479992	3.129579358	0.009260879	0.047079753	4930564D15Rik	
ILMN_2933756	0.333746303	12.32480629	3.64411261	0.003676546	0.025713197	Mycbp	Mus musculus c-myc binding protein (Mycbp), mRNA.
ILMN_2644719	0.627393836	12.32043514	4.252789223	0.001270444	0.012917178	Hmgn3	Mus musculus high mobility group nucleosomal binding domain 3 (Hmgn3), transcript variant 2, mRNA.
ILMN_1238227	0.556219836	12.31519276	4.477544891	0.000867633	0.010169119	Rpl23	Mus musculus ribosomal protein L23 (Rpl23), mRNA.
ILMN_2776087	0.994554797	12.31457698	5.766498795	0.000111292	0.00269894	Rab25	
ILMN_2892227	0.806512749	12.30969806	4.915762513	0.000420534	0.006358191	Acsl5	Mus musculus acyl-CoA synthetase long-chain family member 5 (Acsl5), mRNA.
ILMN_2636536	0.430593317	12.30770054	3.816243646	0.002711447	0.021062262	Pla2g12a	
ILMN_2738893	0.797614875	12.30758061	6.612809399	3.27779E-05	0.001218424	D19Wsu12e	
ILMN_1232261	0.766308079	12.30659518	4.56689208	0.000746947	0.009242124	Catnal1	Mus musculus catenin (cadherin associated protein), alpha-like 1 (Ctnnal1), mRNA.
ILMN_2883907	0.610509113	12.30551995	4.214053419	0.001357624	0.013543887	Lsm8	Mus musculus LSM8 homolog, U6 small nuclear RNA associated (S. cerevisiae) (Lsm8), mRNA.
ILMN_2588398	0.370429284	12.29618149	4.740171483	0.000560359	0.007659232	Impdh2	
ILMN_2613399	0.324483179	12.29113254	3.437906552	0.005312894	0.032772267	Scye1	
ILMN_1216409	0.690912507	12.28919256	8.04765872	5.08652E-06	0.000354911	1500012F01Rik	
ILMN_2888742	0.295488346	12.28673392	3.163590649	0.008708364	0.045323378	Ntan1	
ILMN_2879506	0.311507461	12.28633185	4.348448617	0.001079252	0.011616681	2310037I24Rik	Mus musculus RIKEN cDNA 2310037I24 gene (2310037I24Rik), mRNA.
ILMN_1257244	0.489402288	12.26305766	4.546060521	0.000773418	0.009454957	Leprotl1	Mus musculus leptin receptor overlapping transcript-like 1 (Leprotl1), mRNA.
ILMN_1239857	0.373599506	12.26086977	3.682589934	0.003433803	0.02461425	Extl3	Mus musculus exostoses (multiple)-like 3 (Extl3), mRNA.
ILMN_2939012	0.788506937	12.26040319	7.962154726	5.64547E-06	0.000376307	1500012F01Rik	Mus musculus RIKEN cDNA 1500012F01 gene (1500012F01Rik), mRNA.
ILMN_2654932	0.541026463	12.25893471	3.467655834	0.005037048	0.031647993	Pdap1	

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ILMN_2525423	0.897256411	12.25535818	6.213347499	5.76617E-05	0.001730793	BC037006	
ILMN_2878060	0.928393648	12.25339163	4.626993868	0.000675764	0.008697817	Anxa6	Mus musculus annexin A6 (Anxa6), mRNA.
ILMN_2919860	0.659064698	12.250255	5.907884855	9.01169E-05	0.002376762	Cds1	Mus musculus CDP-diacylglycerol synthase 1 (Cds1), mRNA.
ILMN_1239448	0.585485844	12.24778681	4.817385262	0.000493649	0.007028607	Manbal	
ILMN_1244536	0.711640475	12.24604684	6.413240191	4.33489E-05	0.001461065	Hnrpa1	
ILMN_2624938	1.436486515	12.24399247	8.315783389	3.68701E-06	0.000300284	Pea15	
ILMN_2777493	1.696577894	12.24249552	3.191986554	0.008272676	0.043740686	Serpina1a	
ILMN_2634749	0.462259818	12.23336279	5.590120761	0.000145382	0.003188647	Txnl4	Mus musculus thioredoxin-like 4 (Txnl4), transcript variant 2, mRNA.
ILMN_2733852	0.906685778	12.23015361	8.197041639	4.24764E-06	0.000318362	Gnb1	
ILMN_2771956	0.517776557	12.22858146	5.355141414	0.000208966	0.004087343	Calu	
ILMN_2698107	0.765978849	12.22355823	6.615110176	3.26734E-05	0.001218424	Eif1a	Mus musculus eukaryotic translation initiation factor 1A (Eif1a), mRNA.
ILMN_1239720	0.421048372	12.22207028	4.02653627	0.001876816	0.016556916	6330407G11Rik	
ILMN_2698046	0.952600802	12.22164804	9.657462419	8.21536E-07	0.000137093	Stat3	
ILMN_1250774	0.421205533	12.21655928	4.075138262	0.00172503	0.015729608	Mdm2	Mus musculus transformed mouse 3T3 cell double minute 2 (Mdm2), mRNA.
ILMN_1229056	1.464314413	12.20980074	12.01700033	8.45831E-08	3.42103E-05	D6Wsu176e	
ILMN_2609073	0.746055041	12.20589068	3.911228814	0.002294965	0.01898916	Mgat4b	Mus musculus mannoside acetylglucosaminyltransferase 4, isoenzyme B (Mgat4b), mRNA.
ILMN_2754074	0.798942684	12.20523928	3.686198844	0.003411898	0.024522438	Laptm4b	
ILMN_2438771	0.331455445	12.20474675	3.803429662	0.002773337	0.021392498	Fubp3	
ILMN_2677408	0.966340664	12.19816284	5.444751012	0.000181797	0.003716061	Hrmt1l2	
ILMN_2984828	1.195042584	12.19798726	3.526530654	0.004533508	0.029550148	Ly6e	Mus musculus lymphocyte antigen 6 complex, locus E (Ly6e), mRNA.
ILMN_1240938	1.097067575	12.19762657	8.439192106	3.18766E-06	0.000276648	AW212394	
ILMN_1229516	1.158071724	12.19547051	5.561705798	0.000151839	0.003271631	Hsd11b2	
ILMN_2523256	0.419586161	12.19522887	3.226775826	0.007768845	0.042096555	1500001M20Rik	
ILMN_2733356	0.914404069	12.19275495	5.674615832	0.000127844	0.002932937	2310067E08Rik	Mus musculus endonuclease domain containing 1 (Endod1), mRNA.
ILMN_2836654	0.740699432	12.18500792	4.179207054	0.001441376	0.014017075	Hist1h2ao	Mus musculus histone cluster 1, H2ao (Hist1h2ao), mRNA.
ILMN_2424721	0.51267858	12.18444955	4.387439066	0.001010174	0.011134306	Pdgfa	
ILMN_2874507	0.401372477	12.18290953	4.490892871	0.000848378	0.010067052	Rpl4	Mus musculus ribosomal protein L4 (Rpl4), mRNA.
ILMN_3158500	0.5453668	12.18209632	4.423189057	0.000950893	0.010733751	Hs6st1	Mus musculus heparan sulfate 6-O-sulfotransferase 1 (Hs6st1), mRNA.
ILMN_2510875	0.48622495	12.17533501	3.829331553	0.002649706	0.020765167	Dnajb9	
ILMN_1217943	0.484442628	12.17368945	4.100800134	0.001650085	0.015240803	Cab39l	Mus musculus calcium binding protein 39-like (Cab39l), mRNA.
ILMN_2637698	0.321925986	12.17243094	3.956996942	0.002118492	0.018022664	0610010K06Rik	

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ILMN_2916705	0.764960066	12.1718147	8.309615788	3.71408E-06	0.000300438	Tuba1a	Mus musculus tubulin, alpha 1A (Tuba1a), mRNA.
ILMN_2960822	0.406371531	12.1716818	3.66713649	0.003529251	0.025062087	BC085271	Mus musculus cDNA sequence BC085271 (BC085271), mRNA.
ILMN_2637094	0.666906378	12.15899935	4.202697593	0.001384346	0.013730111	Pace4	
ILMN_1260378	1.126964137	12.15781286	7.543611885	9.51703E-06	0.000547241	Csrp1	Mus musculus cysteine and glycine-rich protein 1 (Csrp1), mRNA.
ILMN_1228611	0.62789165	12.15729088	4.68924224	0.000609495	0.008040007	LOC245676	
ILMN_2608016	1.156735032	12.14906343	6.724521391	2.80943E-05	0.001106295	Gclc	Mus musculus glutamate-cysteine ligase, catalytic subunit (Gclc), mRNA.
ILMN_1218592	0.755125089	12.14869846	5.149036983	0.000289117	0.004971522	Tes	Mus musculus testis derived transcript (Tes), transcript variant 1, mRNA.
ILMN_1214071	0.66684832	12.14682395	3.606993123	0.003927459	0.026898871	Ifitm1	Mus musculus interferon induced transmembrane protein 1 (Ifitm1), mRNA.
ILMN_2461707	0.732806513	12.1413324	8.320723206	3.66549E-06	0.000299553	Rbms2	
ILMN_2748941	0.389388208	12.13653075	4.494693867	0.000842977	0.010027896	AI429612	
ILMN_2755492	1.409618513	12.12721818	12.60008922	5.11653E-08	2.97795E-05	D6Wsu176e	
ILMN_2651715	0.597723939	12.12484508	4.351192411	0.001074233	0.011604535	Axl	Mus musculus AXL receptor tyrosine kinase (Axl), mRNA.
ILMN_2792868	0.688736568	12.11701297	6.661071046	3.06595E-05	0.00116316	Blvrb	Mus musculus biliverdin reductase B (flavin reductase (NADPH)) (Blvrb), mRNA.
ILMN_2794276	2.262757718	12.10570019	11.59258629	1.23604E-07	4.09663E-05	Aqp2	Mus musculus aquaporin 2 (Aqp2), mRNA.
ILMN_2461172	0.46550623	12.10436402	3.960982947	0.002103803	0.017944333	Slc16a5	
ILMN_3006644	0.524771809	12.09502235	4.047217854	0.001810599	0.016236872	Abi2	Mus musculus abl-interactor 2 (Abi2), mRNA.
ILMN_2616000	0.408501819	12.09169211	3.301132486	0.006793791	0.038655279	5730449L18Rik	Mus musculus RIKEN cDNA 5730449L18 gene (5730449L18Rik), mRNA.
ILMN_1237868	1.255513452	12.09155461	8.795080568	2.11355E-06	0.000220243	Cd24a	
ILMN_1256795	0.406872423	12.09064773	3.921766222	0.002253029	0.018772357	Eif2s2	
ILMN_2988143	0.821871874	12.09040148	4.14060628	0.001540461	0.014649361	Plac8	Mus musculus placenta-specific 8 (Plac8), mRNA.
ILMN_1243212	0.869748323	12.08792139	5.813451872	0.000103727	0.002594661	Sparc	
ILMN_3006643	0.525784431	12.0827076	3.786218889	0.002858764	0.021893032	Abi2	Mus musculus abl-interactor 2 (Abi2), mRNA.
ILMN_1236010	0.723003553	12.08252594	6.354018363	4.7146E-05	0.001539306	scl0003799.1_2	
ILMN_1250279	0.934114051	12.07725902	6.988745871	1.96342E-05	0.00085969	Serpinb6a	
ILMN_2835423	4.044145643	12.07261491	3.894650844	0.002362582	0.01931818	Cfd	Mus musculus complement factor D (adipsin) (Cfd), mRNA.
ILMN_2588051	1.380404152	12.0713952	8.842329541	2.00325E-06	0.000215153	Tubb2b	Mus musculus tubulin, beta 2b (Tubb2b), mRNA.
ILMN_2602858	1.300340219	12.06611529	7.211742248	1.46102E-05	0.000724212	Plp2	Mus musculus proteolipid protein 2 (Plp2), mRNA.
ILMN_2775891	0.266403209	12.06499637	3.1652667	0.008682015	0.045233288	Ilf2	
ILMN_1226839	0.645439259	12.06201048	3.54056534	0.004421273	0.029040694	Hist1h2ag	
ILMN_1237333	0.53738352	12.06152591	4.332227086	0.001109428	0.011813597	LOC380665	
ILMN_2738156	0.595602496	12.05982416	5.293173329	0.000230247	0.00435346	BC039093	
ILMN_2748914	0.384769531	12.05701252	4.037978475	0.001839876	0.016437292	2700023B17Rik	

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ILMN_2614212	0.435935135	12.05676568	3.832416502	0.002635366	0.02069356	Mapkapk2	Mus musculus MAP kinase-activated protein kinase 2 (Mapkapk2), mRNA.
ILMN_2459155	0.356389655	12.04969718	4.019010962	0.001901529	0.016719305	Zfp238	
ILMN_2913716	0.68953402	12.04959445	4.470030641	0.000878673	0.010248183	H2-Ab1	Mus musculus histocompatibility 2, class II antigen A, beta 1 (H2-Ab1), mRNA.
ILMN_2716514	0.603380415	12.0476498	3.105659303	0.009670552	0.048511327	Eif4g1	
ILMN_3097726	0.483365913	12.04660538	4.07171645	0.001735287	0.015792964	Gnl3	Mus musculus guanine nucleotide binding protein-like 3 (nucleolar) (Gnl3), transcript variant 2, mRNA.
ILMN_1252294	0.494255681	12.04587499	3.149594834	0.008931575	0.046043244	Eef2	Mus musculus eukaryotic translation elongation factor 2 (Eef2), mRNA.
ILMN_2740859	0.375022656	12.04257607	3.976140807	0.002048903	0.017612745	Rela	
ILMN_1221011	0.376075722	12.04159014	3.477052673	0.004952995	0.031317783	3110050N22Rik	
ILMN_2633179	2.371792129	12.03836002	3.983917923	0.002021314	0.017444707	Igh-1a	
ILMN_2651643	0.328655079	12.03745116	3.11301822	0.009542606	0.04808076	Naca	Mus musculus nascent polypeptide-associated complex alpha polypeptide (Naca), mRNA.
ILMN_1225071	1.329655413	12.03580801	9.710994791	7.76463E-07	0.000135518	Fgfr2	
ILMN_2942276	0.566125743	12.02935132	6.346897566	4.76259E-05	0.001547484	Luzp1	Mus musculus leucine zipper protein 1 (Luzp1), mRNA.
ILMN_2494251	1.000915452	12.02872965	8.459480061	3.11277E-06	0.000276648	Tuba1	
ILMN_1257333	0.542231938	12.02612163	3.431051476	0.005378617	0.033045811	2310022B05Rik	Mus musculus RIKEN cDNA 2310022B05 gene (2310022B05Rik), mRNA.
ILMN_1215552	1.846814044	12.02203162	9.467558886	1.00564E-06	0.000147281	Fxyd4	Mus musculus FXYD domain-containing ion transport regulator 4 (Fxyd4), mRNA.
ILMN_2759484	2.889863962	12.01721131	12.14793034	7.54177E-08	3.21374E-05	C3	
ILMN_2432110	0.296512045	12.0118881	3.468442556	0.005029955	0.031644133	Klf3	
ILMN_2725835	0.655152153	12.00476737	6.442952122	4.1568E-05	0.001425025	Ptp4a2	
ILMN_1258658	0.360552553	11.99702057	3.951621115	0.00213847	0.018134441	D130072O21Rik	
ILMN_3018017	0.857460959	11.99675346	9.325954691	1.17177E-06	0.000158874	Cxadr	Mus musculus coxsackievirus and adenovirus receptor (Cxadr), transcript variant 1, mRNA.
ILMN_3135781	1.250961306	11.99526571	8.445674571	3.16352E-06	0.000276648	Anxa3	Mus musculus annexin A3 (Anxa3), mRNA.
ILMN_2961152	1.308659124	11.99498784	10.61026897	3.11898E-07	7.518E-05	Krt7	Mus musculus keratin 7 (Krt7), mRNA.
ILMN_2453874	0.401509312	11.99422665	3.94888811	0.002148702	0.018169551	Sdcbp	
ILMN_2600113	0.697412334	11.99410043	6.381822476	4.53209E-05	0.001500195	Gtpbp2	Mus musculus GTP binding protein 2 (Gtpbp2), mRNA.
ILMN_3073486	0.508859992	11.98955749	4.961550643	0.00039048	0.006050665	Rpl31	Mus musculus ribosomal protein L31 (Rpl31), mRNA.
ILMN_2946862	0.327024731	11.97278101	3.585107981	0.004083571	0.027479041	Cdc42	Mus musculus cell division cycle 42 homolog (S. cerevisiae) (Cdc42), mRNA.
ILMN_2698843	0.459964209	11.9695637	4.172134348	0.001459022	0.01413013	6720485C15Rik	Mus musculus dephospho-CoA kinase domain containing (Dcakd), mRNA.
ILMN_2939681	0.997875082	11.96683785	5.916249169	8.90065E-05	0.002354726	Lyzs	Mus musculus lysozyme (Lyzs), mRNA.
ILMN_2510260	0.342992994	11.95686519	4.436627896	0.000929559	0.010572958	Vps24	Mus musculus vacuolar protein sorting 24 (yeast) (Vps24), mRNA.

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ILMN_2629112	0.885212987	11.95258234	6.27121687	5.30609E-05	0.00163629	CRG-L1	Mus musculus N-acylsphingosine amidohydrolase 3-like (Asah3l), mRNA.
ILMN_2530434	0.895046646	11.95226731	4.480314745	0.0008636	0.010157241	LOC224532	
ILMN_3002943	0.452203251	11.94969414	4.707435892	0.000591442	0.007924522	Tmed10	Mus musculus transmembrane emp24-like trafficking protein 10 (yeast) (Tmed10), mRNA.
ILMN_1242246	0.627650946	11.94702049	4.984179413	0.000376471	0.005908605	Scamp5	Mus musculus secretory carrier membrane protein 5 (Scamp5), mRNA.
ILMN_2660851	0.255212135	11.94523047	3.197820815	0.008185928	0.043532715	Bcl10	Mus musculus B-cell leukemia/lymphoma 10 (Bcl10), mRNA.
ILMN_2712731	0.392600274	11.93778899	5.168876484	0.000280149	0.004890406	Phf10	Mus musculus PHD finger protein 10 (Phf10), mRNA.
ILMN_1217329	0.413579174	11.93546928	3.810854606	0.0027373	0.021207852	Sppl3	
ILMN_2701562	0.474490563	11.93176651	3.181865114	0.008425384	0.044305632	2610103J23Rik	
ILMN_2761205	1.88405114	11.9263677	13.54859973	2.35577E-08	1.70351E-05	Hspb8	Mus musculus heat shock protein 8 (Hspb8), mRNA.
ILMN_1227225	0.442725421	11.91829659	4.108127419	0.001629313	0.015110885	Trim28	Mus musculus tripartite motif protein 28 (Trim28), mRNA.
ILMN_2593484	0.69627653	11.91382639	4.619895088	0.000683788	0.008749423	9130011J15Rik	
ILMN_2735350	4.208102373	11.91214491	16.98504662	2.03018E-09	4.40957E-06	Gdf15	Mus musculus growth differentiation factor 15 (Gdf15), mRNA.
ILMN_2844996	0.842355651	11.90808613	5.088231895	0.000318545	0.005307417	Actn1	Mus musculus actinin, alpha 1 (Actn1), mRNA.
ILMN_2732695	0.449769758	11.90466396	4.151479088	0.001511854	0.014500553	Dscr1l2	Mus musculus Down syndrome critical region gene 1-like 2 (Dscr1l2), mRNA.
ILMN_2667346	1.640077014	11.90132558	7.083898527	1.72948E-05	0.000801371	Npn3	Mus musculus sulfiredoxin 1 homolog (S. cerevisiae) (Srxn1), mRNA.
ILMN_2810045	0.305995921	11.89601261	3.561719285	0.00425746	0.028276031	Iars	Mus musculus isoleucine-tRNA synthetase (Iars), mRNA.
ILMN_3079919	1.17055566	11.89438484	6.916370274	2.16398E-05	0.000931124	Ahnak	Mus musculus AHNAK nucleoprotein (desmoyokin) (Ahnak), transcript variant 1, mRNA.
ILMN_2879588	0.836959888	11.88872814	5.790193219	0.000107403	0.002651355	Lhfp	Mus musculus lipoma HMGIC fusion partner (Lhfp), mRNA.
ILMN_2686975	1.023484767	11.87809369	7.432156121	1.09744E-05	0.000592496	9130404D14Rik	Mus musculus RIKEN cDNA 9130404D14 gene (9130404D14Rik), mRNA.
ILMN_3083163	1.496898426	11.87691482	6.438515634	4.18289E-05	0.001427986	Cp	Mus musculus ceruloplasmin (Cp), transcript variant 2, mRNA.
ILMN_2596346	0.991790511	11.8736813	4.20543264	0.00137786	0.013684313	Dcn	
ILMN_1227163	0.515114799	11.86360863	3.244674348	0.007521866	0.041302368	Nars	Mus musculus asparaginyl-tRNA synthetase (Nars), mRNA.
ILMN_2789948	1.158141436	11.8558194	6.867194285	2.31268E-05	0.000975046	Arhgdib	Mus musculus Rho, GDP dissociation inhibitor (GDI) beta (Arhgdib), mRNA.
ILMN_2698392	0.322863858	11.8554226	3.250842796	0.007438607	0.041004267	Banf1	Mus musculus barrier to autointegration factor 1 (Banf1), transcript variant 1, mRNA.
ILMN_1228287	0.493714585	11.85419985	5.131811958	0.00029715	0.005083083	Calu	
ILMN_2792485	0.494586304	11.85339588	4.330616279	0.001112472	0.011830176	Ube2e2	Mus musculus ubiquitin-conjugating enzyme E2E 2 (UBC4/5 homolog, yeast) (Ube2e2), mRNA.
ILMN_2627041	0.584547762	11.85120077	5.964445349	8.28854E-05	0.002214888	Cx3cl1	
ILMN_1223029	0.649649344	11.84943547	4.361974458	0.001054746	0.011466696	Rab8b	Mus musculus RAB8B, member RAS oncogene family (Rab8b), mRNA.
ILMN_1227993	0.91130891	11.84836214	6.830992615	2.42913E-05	0.001001145	Vav3	

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ILMN_1221048	0.619848066	11.83063122	3.143133731	0.009036562	0.046396921	Psat1	
ILMN_1251071	0.737025212	11.82813835	6.323764303	4.92213E-05	0.00157736	Ypel5	
ILMN_2651642	0.396400872	11.82618415	3.737376587	0.003116295	0.023106535	Naca	Mus musculus nascent polypeptide-associated complex alpha polypeptide (Naca), mRNA.
ILMN_1251119	0.455290948	11.81926796	5.737148545	0.000116317	0.002775668	Bmpr1a	Mus musculus bone morphogenetic protein receptor, type 1A (Bmpr1a), mRNA.
ILMN_2596917	0.439152188	11.81628276	5.204353273	0.000264835	0.004748129	Nck2	Mus musculus non-catalytic region of tyrosine kinase adaptor protein 2 (Nck2), mRNA.
ILMN_1254015	1.831286345	11.81481657	9.377069319	1.10862E-06	0.000156538	Akr1c12	
ILMN_2679937	0.611621774	11.80644829	4.439824555	0.000924558	0.010541203	Pbxip1	
ILMN_2658804	1.304243872	11.80498806	11.75378149	1.06871E-07	3.75037E-05	Rras	Mus musculus Harvey rat sarcoma oncogene, subgroup R (Rras), mRNA.
ILMN_3006611	0.876712438	11.80353577	6.586988516	3.39749E-05	0.001245383	Map3k1	Mus musculus mitogen activated protein kinase kinase kinase 1 (Map3k1), mRNA.
ILMN_2774497	0.389259987	11.80119725	3.60061745	0.003972295	0.027052193	Ripk4	
ILMN_2705166	1.419209841	11.80086041	8.143412543	4.53031E-06	0.00033257	St6gal1	
ILMN_1216322	1.676664587	11.79915584	3.746896715	0.003064284	0.022872385	Hmgcs2	Mus musculus 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 (Hmgcs2), mRNA.
ILMN_2723931	0.40160302	11.7958162	3.737175881	0.003117401	0.023106535	E2f6	Mus musculus E2F transcription factor 6 (E2f6), mRNA.
ILMN_2811282	0.401682399	11.79509181	3.246711526	0.007494265	0.041196878	Txndc13	Mus musculus thioredoxin domain containing 13 (Txndc13), mRNA. XM_902134 XM_902137 XM_925631 XM_925632 XM_925633
ILMN_1226280	0.358978	11.79270738	4.048052342	0.001807978	0.016219469	Nola1	Mus musculus nucleolar protein family A, member 1 (H/ACA small nucleolar RNPs) (Nola1), mRNA.
ILMN_1254405	0.552867728	11.79143122	4.463510731	0.000888372	0.010315921	Lmna	Mus musculus lamin A (Lmna), transcript variant 2, mRNA.
ILMN_2625855	0.623492036	11.79119426	3.866702244	0.002481282	0.019963194	2310016C16Rik	Mus musculus RIKEN cDNA 2310016C16 gene (2310016C16Rik), mRNA.
ILMN_2535779	0.450704254	11.79024144	3.52862773	0.004516554	0.029465218	LOC383706	
ILMN_1258298	0.655742566	11.7804827	3.723099723	0.003196003	0.023531694	LOC383775	
ILMN_1243752	0.428297241	11.777983	3.863168068	0.002496725	0.020053636	5730449L18Rik	Mus musculus RIKEN cDNA 5730449L18 gene (5730449L18Rik), mRNA.
ILMN_1257579	0.868364747	11.76645692	4.667266968	0.000632074	0.008285915	Nup210	Mus musculus nucleoporin 210 (Nup210), mRNA.
ILMN_2612283	0.891981882	11.76562842	6.80843219	2.50485E-05	0.001025272	Gata2	Mus musculus GATA binding protein 2 (Gata2), mRNA.
ILMN_2481117	0.615339699	11.76154169	4.495792232	0.000841423	0.0100194	1700052O22Rik	
ILMN_2791811	0.433617879	11.75942383	4.733437736	0.00056661	0.007708669	Prune	Mus musculus prune homolog (Drosophila) (Prune), mRNA.
ILMN_2643513	2.771988052	11.75871815	7.12657053	1.63443E-05	0.000780047	Asns	Mus musculus asparagine synthetase (Asns), mRNA.
ILMN_2763103	0.449518527	11.75838555	4.643481937	0.000657506	0.0085041	Arf6	
ILMN_2939185	0.827466634	11.7522191	4.518047574	0.000810574	0.009789698	BC056474	Mus musculus cDNA sequence BC056474 (BC056474), mRNA.
ILMN_2536053	0.497368561	11.75182329	3.615142217	0.003870907	0.026688483	LOC383802	

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ILMN_1227357	0.427317186	11.74967902	4.661751844	0.000637878	0.00832696	Flot2	
ILMN_2618696	0.445427147	11.74940438	4.726709794	0.000572928	0.007771916	D15Ertd405e	Mus musculus transmembrane protein 106C (Tmem106c), mRNA.
ILMN_2599719	1.136336304	11.74610211	9.335690837	1.15945E-06	0.000158583	1110028E10Rik	
ILMN_1216215	0.531757409	11.74592025	3.320738028	0.006558067	0.037668081	BC036718	
ILMN_2618383	1.223109324	11.73947902	8.66856354	2.4424E-06	0.000242488	Scnn1b	Mus musculus sodium channel, nonvoltage-gated 1 beta (Scnn1b), mRNA.
ILMN_1214810	0.395399527	11.73887031	3.299507268	0.006813714	0.038731698	Arf2	Mus musculus ADP-ribosylation factor 2 (Arf2), mRNA.
ILMN_2879858	0.437290573	11.73815426	4.474100733	0.000872675	0.010198163	Prkx	Mus musculus protein kinase, X-linked (Prkx), mRNA.
ILMN_2947568	1.120027379	11.73744729	7.084775726	1.72747E-05	0.000801371	Gadd45a	Mus musculus growth arrest and DNA-damage-inducible 45 alpha (Gadd45a), mRNA.
ILMN_2930764	0.588965729	11.73669803	6.234872703	5.59025E-05	0.001695047	B4galt3	Mus musculus UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 3 (B4galt3), mRNA.
ILMN_2757916	0.49461571	11.73397615	6.38172551	4.53271E-05	0.001500195	2810037C14Rik	Mus musculus armadillo repeat containing 10 (Armc10), mRNA.
ILMN_2685329	0.863156127	11.73170844	7.009234991	1.91033E-05	0.000841411	Hspg2	
ILMN_2506012	1.101460975	11.72838912	6.788047329	2.57545E-05	0.001046984	Trp53inp1	Mus musculus transformation related protein 53 inducible nuclear protein 1 (Trp53inp1), mRNA.
ILMN_2551852	0.298528483	11.72708359	3.475426114	0.004967441	0.031365761	C330049H01Rik	
ILMN_3104349	0.460691067	11.72459707	3.943482755	0.002169088	0.018270715	Capzb	Mus musculus capping protein (actin filament) muscle Z-line, beta (Capzb), transcript variant 1, mRNA.
ILMN_2637266	0.254638244	11.72297253	3.189774142	0.008305815	0.043846467	Casp2	Mus musculus caspase 2 (Casp2), mRNA.
ILMN_2744337	0.338919824	11.7194688	3.111183091	0.009574352	0.048170515	Cd47	Mus musculus CD47 antigen (Rh-related antigen, integrin-associated signal transducer) (Cd47), mRNA.
ILMN_2901227	0.354109808	11.71842983	3.559618219	0.004273449	0.02834466	Tmem5	Mus musculus transmembrane protein 5 (Tmem5), mRNA.
ILMN_2518346	1.173461791	11.71732761	10.34237331	4.06481E-07	8.89895E-05	Tpm1	
ILMN_2767605	0.597774624	11.71347572	3.829137588	0.00265061	0.020765435	Lmo2	Mus musculus LIM domain only 2 (Lmo2), mRNA.
ILMN_2514377	0.85892093	11.71064796	8.021527975	5.25075E-06	0.000359894	Cxadr	
ILMN_1221124	0.540899564	11.7106304	4.911595369	0.000423388	0.006384061	Rpl31	Mus musculus ribosomal protein L31 (Rpl31), mRNA.
ILMN_2890357	0.646388392	11.70821649	3.6861374	0.003412269	0.024522438	2610027C15Rik	Mus musculus RIKEN cDNA 2610027C15 gene (2610027C15Rik), mRNA.
ILMN_2596611	0.84256638	11.70122926	6.147079854	6.34576E-05	0.001842202	Clic1	
ILMN_1223949	3.034927522	11.69896325	15.17513905	6.93105E-09	7.51798E-06	Cldn4	Mus musculus claudin 4 (Cldn4), mRNA.
ILMN_1254516	0.375621332	11.69338242	4.419830884	0.000956303	0.010769354	Ntan1	
ILMN_1233064	0.369671228	11.69165228	3.899057894	0.002344408	0.01924313	Cdk2	
ILMN_3004864	0.359227244	11.69035547	3.1232249	0.00936797	0.047462393	Unc84b	Mus musculus unc-84 homolog B (C. elegans) (Unc84b), mRNA.
ILMN_1238114	0.343721631	11.68726281	3.65213561	0.003624515	0.025438762	BC051227	
ILMN_1223414	1.000443697	11.68498123	9.251448814	1.27086E-06	0.000168738	Ptp4a1	

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ILMN_1223416	1.928837282	11.68479447	11.86962168	9.63645E-08	3.59956E-05	Fer1l3	
ILMN_2652645	0.616870355	11.68363943	5.090135199	0.000317577	0.005306961	Gnb2-rs1	Mus musculus guanine nucleotide binding protein (G protein), beta polypeptide 2 like 1 (Gnb2l1), mRNA.
ILMN_1247199	0.673909656	11.68086139	4.977984342	0.000380253	0.005946243	H2afy	
ILMN_2712280	0.830486544	11.68062309	5.610434886	0.000140944	0.003131616	Ormdl3	Mus musculus ORM1-like 3 (S. cerevisiae) (Ormdl3), mRNA.
ILMN_1244024	0.447185355	11.67723881	4.530129285	0.000794325	0.009644793	Cebpg	
ILMN_2706819	0.695919402	11.67457772	3.233332891	0.007677425	0.041780247	Rasl11b	
ILMN_1237695	0.877775458	11.67058501	3.955618139	0.002123598	0.018053227	Pfkp	
ILMN_2887065	0.630222361	11.66994227	5.267081028	0.000239883	0.004461167	Mvp	Mus musculus major vault protein (Mvp), mRNA.
ILMN_1256328	0.761001392	11.66906831	5.176037586	0.000276984	0.004870791	Tjp2	
ILMN_2451035	0.504726437	11.66697476	5.182838732	0.000274013	0.004843535	Ube2h	
ILMN_2659380	0.440902605	11.66163928	5.629828834	0.000136842	0.003069037	Elf1	
ILMN_2448651	0.876011674	11.65820172	4.34528889	0.001085062	0.011647684	Ampd3	
ILMN_2653081	0.540158447	11.6575464	5.411093587	0.000191535	0.00384085	Prkab1	
ILMN_2847332	1.099664403	11.65566584	7.563058948	9.28474E-06	0.000537771	Mid1ip1	Mus musculus Mid1 interacting protein 1 (gastrulation specific G12-like (zebrafish)) (Mid1ip1), mRNA.
ILMN_2712867	1.040599406	11.65174885	6.096912077	6.82571E-05	0.001946021	Timp2	
ILMN_2605819	1.143469066	11.65110295	6.213359928	5.76606E-05	0.001730793	Egln3	Mus musculus EGL nine homolog 3 (C. elegans) (Egln3), mRNA.
ILMN_2661340	1.386985302	11.65071245	4.655043851	0.000645012	0.008401706	Slco4a1	Mus musculus solute carrier organic anion transporter family, member 4a1 (Slco4a1), mRNA.
ILMN_1247682	0.479344846	11.64689834	3.766355171	0.002960744	0.022393735	Atp6v0a1	
ILMN_1248608	0.630594	11.64606287	5.649342732	0.000132841	0.003013303	Shroom2	Mus musculus shroom family member 2 (Shroom2), mRNA.
ILMN_2862379	0.564523379	11.64557054	4.308504995	0.001155151	0.012139867	Rhod	Mus musculus ras homolog gene family, member D (Rhod), mRNA.
ILMN_2699003	0.629547052	11.64236387	3.198699228	0.008172947	0.043505878	Siva	
ILMN_2623064	0.399545649	11.6375391	3.523538178	0.004557813	0.02961958	Snx24	Mus musculus sorting nexing 24 (Snx24), mRNA.
ILMN_2855590	0.401211618	11.63387437	3.667190114	0.003528915	0.025062087	BC019977	Mus musculus microtubule-associated protein 7 domain containing 1 (Mtap7d1), mRNA.
ILMN_3162089	0.294209049	11.63022206	3.229951713	0.007724429	0.041930858	Snx4	
ILMN_2862567	0.58338417	11.62690685	5.267736348	0.000239636	0.004460554	Fndc3b	Mus musculus fibronectin type III domain containing 3B (Fndc3b), mRNA.
ILMN_2850753	0.537486964	11.62627709	4.950862302	0.000397287	0.006108545	Mdm2	Mus musculus transformed mouse 3T3 cell double minute 2 (Mdm2), mRNA.
ILMN_1254027	0.276112759	11.62437301	3.223678592	0.007812411	0.042254662	2310065K24Rik	Mus musculus RIKEN cDNA 2310065K24 gene (2310065K24Rik), mRNA.
ILMN_1235500	0.483913405	11.62350431	4.27417173	0.00122484	0.012620187	Nup62	Mus musculus nucleoporin 62 (Nup62), mRNA.
ILMN_2849571	0.412852815	11.62137117	4.389146087	0.001007257	0.011112424	Wdr75	Mus musculus WD repeat domain 75 (Wdr75), mRNA. XM_899942 XM_899949 XM_905443 XM_919350 XM_919365 XM_919374 XM_919385

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
							XM_919393 XM_919402
ILMN_2429203	0.425769465	11.60829334	3.846503483	0.002570894	0.020422518	Zdhhc8	
ILMN_2714936	0.319936289	11.60397714	3.745497392	0.003071873	0.022893222	Mki67ip	
ILMN_2705802	0.396710243	11.60306128	3.426870635	0.005419107	0.033192031	Blcap	
ILMN_1233522	0.329619825	11.60281077	3.225878521	0.007781442	0.042134908	1110034O24Rik	
ILMN_2884416	0.3071402	11.59937109	3.812392882	0.002729894	0.021164221	Galnt2	Mus musculus UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 2 (Galnt2), mRNA.
ILMN_2540489	0.608468975	11.59476317	7.269569734	1.35458E-05	0.000690692	LOC385467	
ILMN_2508910	0.442942633	11.58813701	4.792655012	0.000514056	0.007218018	Tpst2	
ILMN_1220548	0.321669101	11.57998281	3.198523985	0.008175535	0.043505878	D630045E04Rik	Mus musculus leucine rich repeat containing 41 (Lrrc41), mRNA.
ILMN_2736611	0.426873475	11.57684372	4.144157609	0.001531056	0.014627878	Gtf2f2	
ILMN_2683916	0.464377902	11.57556241	3.408642037	0.005599316	0.033927175	2010003J03Rik	
ILMN_2917471	0.534611566	11.57402854	5.224423391	0.000256566	0.004659383	Ednrb	Mus musculus endothelin receptor type B (Ednrb), mRNA.
ILMN_1232067	0.507686146	11.57375734	3.172346447	0.0085716	0.044767802	1810023B24Rik	
ILMN_2751494	1.263007256	11.57186583	12.38100949	6.16517E-08	3.19682E-05	Stk39	Mus musculus serine/threonine kinase 39, STE20/SPS1 homolog (yeast) (Stk39), mRNA.
ILMN_2490252	0.344543921	11.56789099	3.830364062	0.002644897	0.020736867	Spred1	
ILMN_2843782	0.503258816	11.56673247	5.669094635	0.000128918	0.002949549	Tpst2	Mus musculus protein-tyrosine sulfotransferase 2 (Tpst2), mRNA.
ILMN_2681057	0.70418449	11.56497193	6.846453457	2.37865E-05	0.000992338	Phca	
ILMN_2428164	0.539283583	11.56021002	5.280032104	0.000235048	0.004419977	Rad23b	
ILMN_1254253	0.580184622	11.55119864	6.492328179	3.87789E-05	0.001368905	Aof2	Mus musculus amine oxidase (flavin containing) domain 2 (Aof2), mRNA.
ILMN_2717439	0.36608463	11.54672263	3.258364843	0.007338341	0.040620468	Pip5k2a	
ILMN_2500370	0.606225537	11.54200312	6.128278998	6.52128E-05	0.001877169	9430080K19Rik	
ILMN_1216953	0.743661529	11.54195719	4.31665103	0.001139232	0.012023663	Hrmt1l1	
ILMN_2599659	1.061408185	11.53588634	6.902860584	2.20378E-05	0.000944141	Fmnl3	Mus musculus formin-like 3 (Fmnl3), mRNA.
ILMN_2451036	0.407881997	11.53295312	4.690759149	0.000607968	0.008034041	Ube2h	
ILMN_1219699	0.498375776	11.53276567	4.07428148	0.001727592	0.015746955	9330175B01Rik	
ILMN_2653166	0.717159478	11.53248232	4.263446958	0.001247496	0.012781883	2310016C16Rik	Mus musculus RIKEN cDNA 2310016C16 gene (2310016C16Rik), mRNA.
ILMN_2494455	0.35990592	11.53217341	4.105752525	0.001636016	0.015139545	Zfp219	
ILMN_2947559	1.09319784	11.529145	4.33195197	0.001109947	0.011813855	Rbm35a	Mus musculus RNA binding motif protein 35A (Rbm35a), mRNA.
ILMN_1244291	0.925702303	11.52530277	3.297723189	0.006835653	0.038819419	Gja1	Mus musculus gap junction membrane channel protein alpha 1 (Gja1), mRNA.
ILMN_2793062	0.76592038	11.52400808	3.822136802	0.002683465	0.020919805	Rasl11b	Mus musculus RAS-like, family 11, member B (Rasl11b), mRNA.
ILMN_2772077	0.532871782	11.52330276	5.155215531	0.000286292	0.004948942	Bok	

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2814976	0.294697713	11.51661394	3.136537561	0.009145031	0.046759725	Ykt6	Mus musculus YKT6 homolog (S. Cerevisiae) (Ykt6), mRNA.
ILMN_1222066	0.556840144	11.51630462	3.937575032	0.002191597	0.018375994	C130033B18Rik	
ILMN_1254631	0.594125491	11.51610214	3.997361239	0.001974528	0.017165089	AI481316	
ILMN_2859518	0.582982003	11.51603662	7.034954264	1.84585E-05	0.000829518	Krtcap3	Mus musculus keratinocyte associated protein 3 (Krtcap3), mRNA.
ILMN_1249417	0.900685573	11.51156336	3.904914247	0.002320481	0.019119071	Pdrg1	
ILMN_3161767	0.261555542	11.51080684	3.400532137	0.005681446	0.034253717	Dhx38	Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 38 (Dhx38), mRNA.
ILMN_2603791	6.666832502	11.50745605	17.4831227	1.4792E-09	3.92203E-06	Sprr2g	Mus musculus small proline-rich protein 2G (Sprr2g), mRNA.
ILMN_1258629	1.382927048	11.50586161	8.627471816	2.56074E-06	0.000242488	Col3a1	Mus musculus procollagen, type III, alpha 1 (Col3a1), mRNA.
ILMN_2424299	1.62993839	11.50456777	7.672224898	8.08874E-06	0.0004862	Tnfrsf12a	Mus musculus tumor necrosis factor receptor superfamily, member 12a (Tnfrsf12a), mRNA.
ILMN_2679513	0.734680764	11.499186	6.230116861	5.62862E-05	0.001704516	Rab40c	Mus musculus Rab40c, member RAS oncogene family (Rab40c), mRNA.
ILMN_1258406	0.307801112	11.49600029	3.511643197	0.004655755	0.030029351	Keap1	Mus musculus kelch-like ECH-associated protein 1 (Keap1), mRNA.
ILMN_1232716	0.773086605	11.48631428	4.74799784	0.000553185	0.007604954	Cyp1b1	
ILMN_1252076	0.873117035	11.48516562	5.678872623	0.000127022	0.002928763	Lyzs	
ILMN_2640570	0.42405467	11.48504295	4.867837168	0.000454614	0.006653144	Pak4	
ILMN_2860479	1.434520094	11.4840143	6.195853271	5.91348E-05	0.001765328	Arpc1b	Mus musculus actin related protein 2/3 complex, subunit 1B (Arpc1b), mRNA.
ILMN_2883990	0.31134866	11.48159108	4.070463665	0.001739058	0.015796532	Rbms1	Mus musculus RNA binding motif, single stranded interacting protein 1 (Rbms1), mRNA.
ILMN_2828427	0.453613695	11.47932257	3.697336418	0.003345198	0.024197166	Llgl1	Mus musculus lethal giant larvae homolog 1 (Drosophila) (Llgl1), mRNA.
ILMN_2810047	0.421426944	11.47564261	5.027514801	0.0003511	0.005660234	Iars	Mus musculus isoleucine-tRNA synthetase (Iars), mRNA.
ILMN_2749958	0.497218864	11.47417148	3.366590735	0.006038728	0.035615956	Cerk	
ILMN_3127335	1.250934613	11.46779041	8.984015394	1.70805E-06	0.000197586	Sytl2	Mus musculus synaptotagmin-like 2 (Sytl2), transcript variant 5, mRNA.
ILMN_2657338	0.263644761	11.46733841	3.44364278	0.00525853	0.03255105	AW060232	
ILMN_1216011	0.428493096	11.46686002	3.144882635	0.009008022	0.046299647	LOC383826	
ILMN_2639272	0.560635619	11.46663673	5.117626111	0.000303943	0.00514254	Ddx21	
ILMN_2470799	1.271653183	11.46603505	6.408360432	4.36491E-05	0.001464975	Tmem20	
ILMN_2869312	0.314730762	11.46124826	3.582959277	0.004099237	0.027547199	Fbxo4	Mus musculus F-box protein 4 (Fbxo4), mRNA.
ILMN_2681604	0.373451314	11.45802237	3.393251577	0.005756223	0.034530104	2410005K17Rik	Mus musculus coiled-coil domain containing 23 (Ccdc23), transcript variant 2, mRNA.
ILMN_1258420	0.415726332	11.45606193	3.465005977	0.005061013	0.031731729	Syncrip	
ILMN_2914843	0.556542812	11.45440233	4.44336041	0.00091906	0.010528819	Psmb10	Mus musculus proteasome (prosome, macropain) subunit, beta type 10 (Psmb10), mRNA.
ILMN_2589790	0.922259826	11.45212954	9.049993181	1.5869E-06	0.00019206	Stat3	

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2909782	0.661030507	11.45090566	8.017185273	5.27859E-06	0.000359894	Rras2	Mus musculus related RAS viral (r-ras) oncogene homolog 2 (Rras2), mRNA.
ILMN_1241854	0.268243009	11.4487098	3.320188231	0.006564563	0.037692533	Lrrc59	Mus musculus leucine rich repeat containing 59 (Lrrc59), mRNA.
ILMN_2791746	0.447953085	11.44857066	3.191859271	0.008274579	0.043740686	Pscd3	Mus musculus pleckstrin homology, Sec7 and coiled-coil domains 3 (Pscd3), mRNA.
ILMN_2987339	0.374539146	11.44816069	3.995247191	0.001981811	0.017203327	Mybbp1a	Mus musculus MYB binding protein (P160) 1a (Mybbp1a), mRNA.
ILMN_1255849	0.577730527	11.44454763	4.350095608	0.001076236	0.011605994	Zdhhc13	Mus musculus zinc finger, DHHC domain containing 13 (Zdhhc13), mRNA.
ILMN_2626260	0.36823241	11.44412079	3.710041312	0.003270748	0.023824742	Arpc5l	Mus musculus actin related protein 2/3 complex, subunit 5-like (Arpc5l), mRNA.
ILMN_2588995	0.603958103	11.4419215	4.440923592	0.000922846	0.010531992	Rab8b	Mus musculus RAB8B, member RAS oncogene family (Rab8b), mRNA.
ILMN_2528440	0.599935509	11.44023769	4.541060766	0.000779916	0.009514901	LOC380927	
ILMN_3095462	0.404911297	11.44003131	3.442895493	0.00526558	0.032561428	Mfap3	Mus musculus microfibrillar-associated protein 3 (Mfap3), transcript variant 2, mRNA.
ILMN_1226754	0.336525815	11.43416472	3.192238881	0.008268905	0.043740686	Phc2	Mus musculus polyhomeotic-like 2 (Drosophila) (Phc2), mRNA.
ILMN_2625854	0.644909158	11.43119325	3.700954595	0.003323819	0.024107073	2310016C16Rik	Mus musculus RIKEN cDNA 2310016C16 gene (2310016C16Rik), mRNA.
ILMN_2670517	0.737064362	11.43104512	5.326841114	0.000218415	0.00419648	Fntb	
ILMN_1239333	0.90445468	11.42264782	8.304448793	3.73693E-06	0.000301265	Iqgap1	
ILMN_3119014	0.725362828	11.41837073	4.396748608	0.000994374	0.011018534	Elk3	Mus musculus ELK3, member of ETS oncogene family (Elk3), transcript variant 2, mRNA.
ILMN_2772920	0.333474831	11.41433074	3.731577776	0.00314842	0.023260291	Fbxo4	
ILMN_2613696	0.559061261	11.41266643	4.225179664	0.001331963	0.013332478	1100001D10Rik	
ILMN_1220198	0.689021506	11.41137333	4.944370394	0.000401482	0.006153228	Lhfp	Mus musculus lipoma HMGIC fusion partner (Lhfp), mRNA.
ILMN_1254010	0.435624911	11.40633588	4.052270691	0.001794792	0.0161315	Pip5k1b	
ILMN_1235499	0.791564247	11.39692413	5.351145617	0.000210274	0.004102827	Pros1	
ILMN_2823269	0.623229343	11.39686849	5.451870145	0.000179806	0.003689341	Dscr1l2	Mus musculus Down syndrome critical region gene 1-like 2 (Dscr1l2), mRNA.
ILMN_1252204	0.824421342	11.39305172	4.824419096	0.000488002	0.006977343	Sepw1	
ILMN_1246808	0.658689069	11.39211587	4.098876465	0.001655584	0.01528065	Serpine2	
ILMN_1226157	1.742079889	11.38967817	9.522257547	9.48433E-07	0.000146016	Pik3r3	
ILMN_2932964	0.699856663	11.38793676	5.108960122	0.000308173	0.005189739	Ctps	Mus musculus cytidine 5'-triphosphate synthase (Ctps), mRNA.
ILMN_2685985	0.436904001	11.37911817	3.515842378	0.004620936	0.029883304	Egfl4	
ILMN_2695819	0.677163593	11.37646312	3.177796569	0.008487569	0.044510557	Ddit4l	Mus musculus DNA-damage-inducible transcript 4-like (Ddit4l), mRNA.
ILMN_1240883	0.467081915	11.37293277	5.315850122	0.000222205	0.00424538	Rnf4	Mus musculus ring finger protein 4 (Rnf4), mRNA.
ILMN_2460168	0.549520358	11.37106603	3.76142423	0.002986636	0.022489774	Wdr1	
ILMN_2953700	0.662192368	11.37082174	4.87645729	0.000448276	0.006591013	Smad1	Mus musculus MAD homolog 1 (Drosophila) (Smad1), mRNA.

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_3121891	0.506867676	11.36962804	4.255087249	0.001265459	0.012888459	Lmna	Mus musculus lamin A (Lmna), transcript variant 1, mRNA.
ILMN_1231896	0.887153848	11.36718229	5.861386213	9.65643E-05	0.0024943	Ssbp4	
ILMN_2483948	1.056802652	11.36430732	7.513329932	9.89125E-06	0.000556194	2810012G08Rik	
ILMN_2623536	2.150402252	11.36378232	15.40153105	5.90185E-09	7.04179E-06	Golph2	
ILMN_1219200	1.38791804	11.3566424	8.249685718	3.98854E-06	0.000310746	P2ry14	
ILMN_1249032	0.416796508	11.35646887	3.219977885	0.00786479	0.042433369	2410129H14Rik	Mus musculus RIKEN cDNA 2410129H14 gene (2410129H14Rik), mRNA.
ILMN_2965275	0.466260075	11.35617724	5.108523891	0.000308387	0.005189739	Inpp5a	Mus musculus inositol polyphosphate-5-phosphatase A (Inpp5a), mRNA.
ILMN_2769567	1.304240842	11.35353881	7.423688949	1.10945E-05	0.000593608	F2rl1	
ILMN_2852957	0.589233265	11.35005645	3.141272199	0.009067041	0.04647473	Dkk3	Mus musculus dickkopf homolog 3 (Xenopus laevis) (Dkk3), mRNA.
ILMN_2952114	0.322193789	11.34674563	3.092824784	0.009897856	0.049258089	Smc1a	Mus musculus structural maintenance of chromosomes 1A (Smc1a), mRNA.
ILMN_1246321	0.772941736	11.34122322	4.886590398	0.000440945	0.006548769	Gstm6	
ILMN_2520249	0.950766579	11.33810986	6.872163526	2.29717E-05	0.000973186	Hspg2	
ILMN_1233586	0.372840035	11.33614745	4.450871704	0.000907493	0.010461597	Dctn6	Mus musculus dynactin 6 (Dctn6), mRNA.
ILMN_1246561	0.559600126	11.33443176	6.112459223	6.67297E-05	0.001912399	LOC237081	
ILMN_2662387	0.431800506	11.33090686	4.485717134	0.00085579	0.010114774	Lmna	Mus musculus lamin A (Lmna), transcript variant 2, mRNA.
ILMN_2652909	2.706393668	11.32889605	12.17318893	7.37764E-08	3.21374E-05	Ddit3	Mus musculus DNA-damage inducible transcript 3 (Ddit3), mRNA.
ILMN_2761169	0.444895261	11.32397922	4.109854408	0.001624457	0.015083434	3110050N22Rik	
ILMN_1222069	0.402633523	11.32224599	3.36332835	0.006074254	0.03573716	Bbx	
ILMN_2700233	0.655457638	11.32097641	3.233920772	0.007669282	0.041754978	Ccng2	Mus musculus cyclin G2 (Ccng2), mRNA.
ILMN_2437848	0.49477926	11.31651427	4.303311294	0.001165422	0.012208283	Col4a5	
ILMN_1240074	0.505223901	11.30763461	4.479040479	0.000865453	0.010158536	Trim26	
ILMN_1250767	0.395919521	11.30762898	3.454329947	0.005158754	0.03212509	Tpd52l2	Mus musculus tumor protein D52-like 2 (Tpd52l2), mRNA.
ILMN_1215644	0.310180799	11.30162206	3.560729949	0.004264981	0.028310222	Eif2ak3	
ILMN_1241890	0.489664874	11.30068673	3.673678455	0.003488515	0.024864529	Klf7	
ILMN_1245467	0.564055447	11.29798773	6.762977213	2.6652E-05	0.001073012	0610011N22Rik	Mus musculus coiled-coil domain containing 127 (Ccdc127), mRNA.
ILMN_2971479	1.083790183	11.29204213	10.30059088	4.2384E-07	9.03044E-05	Trp53inp1	Mus musculus transformation related protein 53 inducible nuclear protein 1 (Trp53inp1), mRNA.
ILMN_2605094	0.301172691	11.29155647	3.598709094	0.003985818	0.027100097	2410005K20Rik	Mus musculus ribosomal L1 domain containing 1 (Rsl1d1), mRNA.
ILMN_2996683	1.334885676	11.29049766	10.5351791	3.35745E-07	7.85478E-05	Pvrl2	Mus musculus poliovirus receptor-related 2 (Pvrl2), mRNA.
ILMN_1217236	0.648884528	11.28988744	4.340669954	0.001093613	0.011690897	LOC382628	
ILMN_1258578	0.746503193	11.28978427	3.736093079	0.003123376	0.023132564	2310047C17Rik	
ILMN_2688834	0.260508055	11.2867779	3.524573866	0.004549386	0.029613202	2310065K24Rik	Mus musculus RIKEN cDNA 2310065K24 gene (2310065K24Rik), mRNA.

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ILMN_2697390	0.436526338	11.28644996	3.107313183	0.009641647	0.048427408	Oxr1	
ILMN_2546905	0.946304914	11.28490967	8.39055613	3.37518E-06	0.000284301	Rbpms	
ILMN_2942989	0.635732549	11.28386329	7.212982337	1.45865E-05	0.000724212	Mtpn	Mus musculus myotrophin (Mtpn), mRNA.
ILMN_3003631	0.59318415	11.28325829	4.413354123	0.000966829	0.010824058	Ppap2c	Mus musculus phosphatidic acid phosphatase type 2c (Ppap2c), mRNA.
ILMN_2776619	1.506127073	11.28051386	10.39607241	3.8529E-07	8.51312E-05	Ltbp3	
ILMN_2713464	0.799842516	11.27983995	7.818000295	6.74275E-06	0.00043022	Abhd4	Mus musculus abhydrolase domain containing 4 (Abhd4), mRNA.
ILMN_1248521	1.363402476	11.27971204	6.685120755	2.96589E-05	0.001141534	Pik3r3	
ILMN_1223614	0.471201511	11.27865099	4.867213045	0.000455077	0.0066541	Rbpms	
ILMN_2860480	1.798799065	11.27686455	5.522284474	0.000161306	0.003415473	Arpc1b	Mus musculus actin related protein 2/3 complex, subunit 1B (Arpc1b), mRNA.
ILMN_2874739	0.386578724	11.27171553	3.753009409	0.003031362	0.022697643	Morc3	Mus musculus microrchidia 3 (Morc3), mRNA. XM_978468 XM_978538 XM_978584 XM_978615
ILMN_2659617	0.476368914	11.27001789	4.409826154	0.000972614	0.010855698	Epn2	
ILMN_1230893	0.517880209	11.26980948	4.197024385	0.001397901	0.013767272	Farp1	
ILMN_2690976	0.37409725	11.26529602	4.014148584	0.001917677	0.016808849	Cdk4	Mus musculus cyclin-dependent kinase 4 (Cdk4), mRNA.
ILMN_2857114	0.55055505	11.26490432	5.228524598	0.00025491	0.004639903	Strbp	Mus musculus spermatid perinuclear RNA binding protein (Strbp), mRNA.
ILMN_1256563	0.736937977	11.26129025	8.053434234	5.05097E-06	0.000353464	Glt25d1	
ILMN_1248740	0.669700978	11.25936054	6.602404184	3.32547E-05	0.001227082	Sema3f	Mus musculus sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3 F (Sema3f), mRNA.
ILMN_1247377	0.890694912	11.25253369	3.532989804	0.004481496	0.029319475	Mpeg1	
ILMN_1250531	0.709117686	11.25159743	9.528607993	9.42022E-07	0.000145971	Slc19a2	
ILMN_2621596	0.426098256	11.24711382	3.711386592	0.003262965	0.023791997	Psme2b	
ILMN_2588737	1.662056594	11.2464643	9.398853742	1.08283E-06	0.000154728	Rab3d	Mus musculus RAB3D, member RAS oncogene family (Rab3d), mRNA.
ILMN_2665008	0.456919358	11.24382864	3.208533294	0.008029038	0.043012842	1700093E07Rik	Mus musculus RAB31, member RAS oncogene family (Rab31), mRNA.
ILMN_2721761	0.282577855	11.24272588	3.195693508	0.008217451	0.043615001	Nab1	Mus musculus Ngfi-A binding protein 1 (Nab1), mRNA.
ILMN_2648967	1.355229245	11.24021371	7.436920664	1.09075E-05	0.000590716	Arrdc4	
ILMN_2831283	1.006730699	11.23690098	10.15200959	4.92357E-07	9.85896E-05	Tmem43	Mus musculus transmembrane protein 43 (Tmem43), mRNA.
ILMN_2700107	0.247989088	11.23529717	3.156442922	0.008821645	0.045683793	Rpo1-4	
ILMN_2845991	0.538662001	11.23176069	5.424939971	0.000187464	0.003791064	Mknk1	Mus musculus MAP kinase-interacting serine/threonine kinase 1 (Mknk1), mRNA.
ILMN_2871412	0.529432246	11.22928009	4.591102377	0.000717371	0.009047897	Sars	Mus musculus seryl-aminoacyl-tRNA synthetase (Sars), mRNA.
ILMN_2791963	0.43294209	11.22863797	3.11291303	0.009544423	0.04808076	E2f6	Mus musculus E2F transcription factor 6 (E2f6), mRNA.
ILMN_2936427	0.632407607	11.2276328	4.960263858	0.000391293	0.006053122	Mcm4	Mus musculus minichromosome maintenance deficient 4 homolog (S. cerevisiae) (Mcm4), mRNA.

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ILMN_2841289	0.924551654	11.22344798	5.07247305	0.000326676	0.005402264	Tnfaip2	Mus musculus tumor necrosis factor, alpha-induced protein 2 (Tnfaip2), mRNA.
ILMN_2635240	0.40414303	11.22260587	4.345045278	0.001085511	0.011647684	Sh3glb2	Mus musculus SH3-domain GRB2-like endophilin B2 (Sh3glb2), mRNA.
ILMN_1226829	0.840635483	11.22047761	5.304024414	0.000226361	0.00431098	C1qr1	
ILMN_3000108	0.466406504	11.21506697	4.40119884	0.000986912	0.010974226	Lsm6	Mus musculus LSM6 homolog, U6 small nuclear RNA associated (S. cerevisiae) (Lsm6), mRNA. XM_990335
ILMN_1212894	0.675981161	11.21056748	6.329655186	4.88097E-05	0.001572228	Cask	Mus musculus calcium/calmodulin-dependent serine protein kinase (MAGUK family) (Cask), transcript variant 1, mRNA.
ILMN_2696592	1.148484843	11.20667641	7.340272512	1.2356E-05	0.000646606	C77080	
ILMN_1247530	0.490264064	11.20067173	4.536779298	0.000785527	0.009564213	Llgl1	Mus musculus lethal giant larvae homolog 1 (Drosophila) (Llgl1), mRNA.
ILMN_1259322	1.333854745	11.19950014	3.46769909	0.005036658	0.031647993	Pdk4	
ILMN_2707895	0.31454358	11.1977374	3.16081717	0.008752144	0.045410892	Jmjd1a	
ILMN_2649148	0.646787424	11.19677646	3.474184884	0.004978493	0.031395822	Cgn	
ILMN_2757641	1.243348694	11.19659425	8.109291749	4.72062E-06	0.000340991	Efna5	Mus musculus ephrin A5 (Efna5), transcript variant 1, mRNA.
ILMN_2834379	0.800264538	11.19641158	3.237872733	0.007614769	0.041581516	Tgfbi	Mus musculus transforming growth factor, beta induced (Tgfbi), mRNA.
ILMN_2870696	1.128598787	11.193071	6.362328273	4.65924E-05	0.001529347	Hfe	Mus musculus hemochromatosis (Hfe), mRNA.
ILMN_3032778	0.283995942	11.19204029	3.467945504	0.005034435	0.031647993	Ensa	Mus musculus endosulfine alpha (Ensa), transcript variant 2, mRNA.
ILMN_1229985	0.541272122	11.19198403	4.430154019	0.000939773	0.010651529	Sec15l2	
ILMN_1242977	0.713120222	11.18920428	4.285844284	0.001200668	0.012478894	Hoxb5	Mus musculus homeo box B5 (Hoxb5), mRNA.
ILMN_2937320	0.424992286	11.1844428	3.419505777	0.005491193	0.03346178	Schip1	Mus musculus schwannomin interacting protein 1 (Schip1), mRNA.
ILMN_1238423	0.606948968	11.18252089	5.6827178	0.000126284	0.002920081	Tcerg1	
ILMN_1238276	0.804373389	11.18170496	4.534264987	0.000788841	0.00959435	Hist1h2ai	Mus musculus histone cluster 1, H2ai (Hist1h2ai), mRNA.
ILMN_2854347	0.411370598	11.18059413	3.532601786	0.004484603	0.029319475	D15Mgi27	Mus musculus DNA Segment, Chr 15, Mouse Genome Informatics 27 (D15Mgi27), mRNA.
ILMN_2718645	0.502973741	11.18035163	4.201309564	0.00138765	0.013740378	Luzp1	Mus musculus leucine zipper protein 1 (Luzp1), mRNA.
ILMN_2522571	0.754061208	11.17765491	4.81765717	0.000493429	0.007028607	Set7	
ILMN_1246194	1.394010134	11.17289543	3.389558656	0.005794536	0.034647198	Ifit3	Mus musculus interferon-induced protein with tetratricopeptide repeats 3 (Ifit3), mRNA.
ILMN_2622829	0.34035497	11.169614	4.01183	0.001925427	0.016854901	1110007L15Rik	Mus musculus RIKEN cDNA 1110007L15 gene (1110007L15Rik), mRNA.
ILMN_1231997	5.037877757	11.16884692	12.86932457	4.08455E-08	2.63431E-05	Gsta1	Mus musculus glutathione S-transferase, alpha 1 (Ya) (Gsta1), mRNA.
ILMN_2700505	0.895379596	11.15841442	10.76441876	2.68481E-07	7.04039E-05	Tmem43	Mus musculus transmembrane protein 43 (Tmem43), mRNA.
ILMN_2990220	0.676623929	11.15823034	4.69768038	0.000601051	0.007999375	Usp22	Mus musculus ubiquitin specific peptidase 22 (Usp22), mRNA.
ILMN_2615559	0.371942572	11.15690356	3.61476087	0.003873535	0.026691934	Dab2ip	
ILMN_1240588	0.351755159	11.15605139	3.182981525	0.008408401	0.044254449	Csnk2a2	

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ILMN_2479359	0.3334335	11.15362754	3.191523903	0.008279595	0.043750217	Tmod3	
ILMN_2627566	1.669638037	11.14739218	9.921787601	6.23261E-07	0.000117109	Capn5	
ILMN_2619620	0.947261926	11.14587541	3.770257573	0.002940417	0.022268223	C1qb	Mus musculus complement component 1, q subcomponent, beta polypeptide (C1qb), mRNA.
ILMN_1217998	0.737251146	11.14515086	3.596131021	0.00400416	0.027171917	Epb4.1l1	
ILMN_2766596	0.853417033	11.14267689	5.29420526	0.000229875	0.00435346	Gmds	Mus musculus GDP-mannose 4, 6-dehydratase (Gmds), mRNA.
ILMN_3059326	0.856141673	11.13923045	5.685600778	0.000125734	0.002915839	Sparc	Mus musculus secreted acidic cysteine rich glycoprotein (Sparc), mRNA.
ILMN_1230545	0.466490977	11.1391441	4.340508255	0.001093914	0.011690897	Mobk1b	
ILMN_2973020	0.340738834	11.13899557	4.198659606	0.00139398	0.013753449	Prep	Mus musculus prolyl endopeptidase (Prep), mRNA.
ILMN_1215332	0.476949441	11.13839564	3.737200974	0.003117263	0.023106535	LOC219145	
ILMN_2672113	0.542541502	11.13836598	3.40357018	0.005650536	0.034119114	Ddhd2	
ILMN_2805829	0.352685408	11.13827281	3.087729174	0.009989589	0.049590505	Exosc2	Mus musculus exosome component 2 (Exosc2), mRNA.
ILMN_2806188	0.630258674	11.13784195	6.18689779	5.99044E-05	0.001773684	Zdhhc13	Mus musculus zinc finger, DHHC domain containing 13 (Zdhhc13), mRNA.
ILMN_2776952	0.662427871	11.13776444	5.082796434	0.000321325	0.005331168	Apex1	
ILMN_2706269	0.826166559	11.13662429	3.306924139	0.006723273	0.038354641	Hspb1	
ILMN_1218761	0.522688134	11.13620708	3.700886321	0.003324221	0.024107073	Lzts2	Mus musculus leucine zipper, putative tumor suppressor 2 (Lzts2), mRNA.
ILMN_2748584	0.372128	11.1326079	4.596985442	0.000710371	0.008988115	Dullard	
ILMN_1249838	0.354570604	11.13095459	3.226450789	0.007773406	0.042110507	3830408P04Rik	
ILMN_2980532	0.565261746	11.1303218	5.743545293	0.000115201	0.002760093	Tgfbr1	Mus musculus transforming growth factor, beta receptor I (Tgfbr1), mRNA.
ILMN_2607765	0.901179397	11.12367732	4.028427617	0.001870657	0.016556916	BC025076	
ILMN_2801891	0.969180468	11.12092621	4.204671147	0.001379663	0.013695047	Cygb	Mus musculus cytoglobin (Cygb), mRNA.
ILMN_2615557	0.438783791	11.11935968	4.836032336	0.000478826	0.006883814	Dab2ip	
ILMN_2445324	1.055855426	11.11477229	8.783849533	2.14072E-06	0.000222105	Zfpm1	Mus musculus zinc finger protein, multitype 1 (Zfpm1), mRNA.
ILMN_1233513	0.283224518	11.1094882	3.268679789	0.007203074	0.040064007	Rdbp	
ILMN_2753021	0.478764079	11.10877827	3.807522738	0.002753411	0.021284302	Rnf166	
ILMN_1230458	1.438061555	11.1073526	3.612942327	0.003886091	0.026755277	Ifit3	Mus musculus interferon-induced protein with tetratricopeptide repeats 3 (Ifit3), mRNA.
ILMN_2870672	0.765977323	11.1046462	3.141137897	0.009069244	0.04647473	Fbln1	Mus musculus fibulin 1 (Fbln1), mRNA.
ILMN_1238289	0.750356487	11.10105884	6.305066027	5.05525E-05	0.001599912	Prkx	Mus musculus protein kinase, X-linked (Prkx), mRNA.
ILMN_2825109	2.698804096	11.09986442	3.325322407	0.006504159	0.037426751	Zfp330	Mus musculus zinc finger protein 330 (Zfp330), mRNA.
ILMN_2666690	0.587461938	11.09311603	4.451665938	0.000906279	0.010457704	Cul7	
ILMN_2450767	1.22404566	11.09153628	6.471021994	3.99571E-05	0.00139604	Dusp4	
ILMN_2594971	0.649047439	11.09118974	6.218116522	5.72669E-05	0.001725455	Rpl38	

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ILMN_2618882	0.34467477	11.09038488	4.035852428	0.001846682	0.016473786	Gpr108	
ILMN_2634777	0.671946321	11.08664797	4.113132953	0.00161528	0.015016811	Rbms3	Mus musculus RNA binding motif, single stranded interacting protein (Rbms3), mRNA.
ILMN_2433213	0.477105945	11.0852319	3.286793969	0.006971628	0.039292383	Klf7	
ILMN_1222598	0.927473585	11.08506238	4.698838698	0.000599901	0.007992992	LOC381739	
ILMN_2898637	0.732979804	11.08291276	5.043069469	0.000342439	0.005556907	Wwc1	Mus musculus WW, C2 and coiled-coil domain containing 1 (Wwc1), mRNA.
ILMN_2778655	1.387586529	11.08112332	6.636648605	3.17126E-05	0.001191744	Vcam1	Mus musculus vascular cell adhesion molecule 1 (Vcam1), mRNA.
ILMN_2757150	0.633125909	11.0807458	4.975291871	0.000381909	0.005956528	Pctk1	Mus musculus PCTAIRE-motif protein kinase 1 (Pctk1), mRNA. XM_920756 XM_920762 XM_920768 XM_920773
ILMN_1226329	0.771951868	11.0770597	4.569850928	0.000743265	0.009218607	6030404G09Rik	
ILMN_1229682	0.347714411	11.07564266	3.738626568	0.003109414	0.023093666	Commd7	Mus musculus COMM domain containing 7 (Commd7), mRNA.
ILMN_2730003	0.3080073	11.07105061	3.332519626	0.006420433	0.037131782	D19Ertd678e	
ILMN_2853957	0.7303589	11.07090874	5.317600163	0.000221597	0.004237153	Dag1	Mus musculus dystroglycan 1 (Dag1), mRNA.
ILMN_1255317	0.398096661	11.06972246	3.23369793	0.007672367	0.04176225	Arnt	
ILMN_2845980	0.400532574	11.06807077	3.161704151	0.008738119	0.045388022	2410001C21Rik	Mus musculus RIKEN cDNA 2410001C21 gene (2410001C21Rik), mRNA.
ILMN_2690873	0.490847608	11.06741728	4.374969716	0.001031748	0.011288679	Rnps1	
ILMN_2775202	0.543905582	11.06602558	6.293407909	5.14018E-05	0.001609713	Rragd	
ILMN_1230489	0.293984639	11.06575228	3.165173858	0.008683472	0.045233288	AA407930	Mus musculus zinc finger, AN1-type domain 2A (Zfand2a), mRNA.
ILMN_2608811	4.36725009	11.06410306	15.20772064	6.77164E-09	7.51798E-06	Cbr3	Mus musculus carbonyl reductase 3 (Cbr3), mRNA.
ILMN_2429215	0.42097667	11.06179404	5.049324617	0.00033902	0.00552975	2410015J15Rik	
ILMN_1256430	1.957328264	11.06118449	12.32232783	6.48404E-08	3.19682E-05	Mcoln3	Mus musculus mucolipin 3 (Mcoln3), mRNA.
ILMN_2702434	0.831470078	11.06046403	8.591276937	2.67009E-06	0.000248892	AU040829	Mus musculus expressed sequence AU040829 (AU040829), mRNA.
ILMN_3159156	0.431854428	11.06033982	3.181463733	0.008431498	0.044317366	Strn4	
ILMN_1256173	0.514843297	11.05939037	3.917400118	0.002270308	0.018855711	Pax8	
ILMN_2973024	0.686201854	11.05609817	6.296226241	5.11951E-05	0.001609713	1500011H22Rik	Mus musculus RIKEN cDNA 1500011H22 gene (1500011H22Rik), mRNA.
ILMN_2671259	0.269256402	11.05345219	3.230075109	0.007722709	0.041930858	Eif3s9	
ILMN_2719973	0.507382336	11.05025948	3.78356393	0.002872182	0.021939462	Gpc3	Mus musculus glypican 3 (Gpc3), mRNA.
ILMN_1237140	0.574318435	11.0478484	3.736905228	0.003118893	0.023106535	Sf3b3	
ILMN_2736783	0.855644059	11.04507276	4.711012514	0.000587959	0.007895595	Kctd12	
ILMN_1252831	0.502582044	11.04446404	3.539331707	0.004431023	0.029080723	2310014H01Rik	
ILMN_2634083	3.05478337	11.0434095	16.06549618	3.72857E-09	5.56093E-06	Cdkn1a	Mus musculus cyclin-dependent kinase inhibitor 1A (P21) (Cdkn1a), mRNA.
ILMN_1249220	0.614204082	11.04285737	3.868554473	0.002473228	0.019912422	Col6a3	
ILMN_2756704	1.559196817	11.04178195	7.687608554	7.93395E-06	0.000482267	9130213B05Rik	

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ILMN_3060442	0.554721323	11.03648657	4.523044037	0.000803812	0.009731793	Dnajb6	Mus musculus DnaJ (Hsp40) homolog, subfamily B, member 6 (Dnajb6), transcript variant 1, mRNA.
ILMN_2835683	1.010733472	11.02290347	3.41436199	0.005542119	0.033668936	H2-gs17	Mus musculus predicted gene, EG667977 (EG667977), mRNA.
ILMN_3009334	0.495468084	11.02023032	5.306205931	0.000225588	0.004299693	Ncaph2	Mus musculus non-SMC condensin II complex, subunit H2 (Ncaph2), mRNA.
ILMN_1237224	0.651330836	11.01945573	3.570307651	0.004192742	0.028017755	Kctd12	
ILMN_2866856	0.608326966	11.01716774	4.129772513	0.001569525	0.01475796	H2-DMa	Mus musculus histocompatibility 2, class II, locus DMa (H2-DMa), mRNA.
ILMN_2851671	0.887784053	11.01412641	7.092916663	1.70891E-05	0.000796479	Myadm	Mus musculus myeloid-associated differentiation marker (Myadm), mRNA.
ILMN_2694275	1.454535564	11.01045163	6.429877029	4.23419E-05	0.001441375	Lxn	Mus musculus latexin (Lxn), mRNA.
ILMN_2714787	0.729273536	11.00969387	5.677759285	0.000127236	0.002930736	1110038B12Rik	
ILMN_2691227	0.309641636	11.00878696	3.221540125	0.007842635	0.042370117	2700067E09Rik	Mus musculus hydroxysteroid dehydrogenase like 1 (Hsdl1), mRNA.
ILMN_2940713	0.398954304	11.00738315	3.328391407	0.006468322	0.037301489	Garnl4	Mus musculus GTPase activating RANGAP domain-like 4 (Garnl4), mRNA.
ILMN_2434472	0.860247269	11.00660444	7.677129684	8.03904E-06	0.0004862	Tpd52l1	Mus musculus tumor protein D52-like 1 (Tpd52l1), mRNA.
ILMN_1217009	2.397662257	10.99920559	12.51413096	5.50297E-08	3.05389E-05	Rab15	Mus musculus RAB15, member RAS oncogene family (Rab15), mRNA.
ILMN_2927373	2.569496015	10.99263988	12.15455686	7.49833E-08	3.21374E-05	Ddit3	Mus musculus DNA-damage inducible transcript 3 (Ddit3), mRNA.
ILMN_2768087	1.201520494	10.99237628	5.767048816	0.0001112	0.00269894	Col6a1	
ILMN_2758452	0.794288481	10.99033964	5.970080503	8.21995E-05	0.002202495	Hn1	Mus musculus hematological and neurological expressed sequence 1 (Hn1), mRNA.
ILMN_1221153	1.289733255	10.98928898	4.521277375	0.000806196	0.009755707	Dsg2	
ILMN_1237116	0.919350197	10.98564153	6.037179592	7.44808E-05	0.002068486	LOC385403	
ILMN_3099751	0.92257475	10.98414322	3.231027265	0.007709445	0.041887636	Prmt2	Mus musculus protein arginine N-methyltransferase 2 (Prmt2), transcript variant 2, mRNA.
ILMN_2614853	0.519696081	10.98346243	3.618110631	0.003850516	0.026594751	6720458F09Rik	Mus musculus RIKEN cDNA 6720458F09 gene (6720458F09Rik), mRNA.
ILMN_2727235	0.491174718	10.97914892	3.323269909	0.006528238	0.037522214	3010027A04Rik	
ILMN_1251668	0.36444875	10.97902707	4.054154307	0.001788937	0.016094889	Mycbp	
ILMN_2809443	3.619926814	10.97892744	14.42015157	1.20414E-08	9.90841E-06	EG638695	Mus musculus predicted gene, EG638695 (EG638695), mRNA.
ILMN_1241018	0.26261977	10.97552988	3.396743486	0.005720234	0.034409362	2810438F06Rik	
ILMN_1213443	0.659454406	10.97281747	4.452111852	0.000905598	0.010454902	LOC381241	
ILMN_2755483	0.731900161	10.97050838	5.577305823	0.000148257	0.003227977	Kctd1	
ILMN_2771712	0.300419931	10.96467678	3.350026209	0.006221328	0.036262714	Ankfy1	
ILMN_2669164	1.904899795	10.96435546	3.613189818	0.00388438	0.026751214	Arg2	Mus musculus arginase type II (Arg2), mRNA.
ILMN_2715840	1.300055978	10.96434202	9.020388692	1.64008E-06	0.00019206	C1qg	
ILMN_1228535	0.664398056	10.96375054	5.362608483	0.000206546	0.00405022	Pmp22	
ILMN_2494618	0.663688838	10.96355969	4.895957373	0.00043428	0.006489175	Usp22	

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2598585	1.017977645	10.96323696	8.641332728	2.52015E-06	0.000242488	Ikbkg	Mus musculus inhibitor of kappaB kinase gamma (Ikbkg), transcript variant 2, mRNA.
ILMN_1246861	1.129756195	10.96292609	8.645112943	2.5092E-06	0.000242488	Ctss	Mus musculus cathepsin S (Ctss), mRNA.
ILMN_2671572	0.610069969	10.96034273	5.261415075	0.000242031	0.004484154	Smad1	Mus musculus MAD homolog 1 (Drosophila) (Smad1), mRNA.
ILMN_1260412	0.505890828	10.959902	3.330987014	0.00643817	0.037208535	Tigd2	
ILMN_1243370	0.658168507	10.95888505	6.028745995	7.54071E-05	0.002085098	Nqo3a2	Mus musculus cytochrome b5 reductase 1 (Cyb5r1), mRNA.
ILMN_1248843	1.46281376	10.95811778	10.73544344	2.76115E-07	7.05562E-05	Gata3	Mus musculus GATA binding protein 3 (Gata3), mRNA.
ILMN_1227240	2.3978814	10.95515585	10.20145675	4.68313E-07	9.63392E-05	Cdkn2b	
ILMN_2888116	0.363584873	10.95194763	3.983035553	0.002024425	0.017465238	Psmd11	Mus musculus proteasome (prosome, macropain) 26S subunit, non-ATPase, 11 (Psmd11), mRNA.
ILMN_3163006	1.319540122	10.95044456	7.078105001	1.74284E-05	0.000804435	Il17re	Mus musculus interleukin 17 receptor E (Il17re), transcript variant 2, mRNA.
ILMN_2795022	0.482678515	10.94894858	4.343867779	0.001087685	0.011660123	Wdr20a	Mus musculus WD repeat domain 20a (Wdr20a), mRNA.
ILMN_2601519	1.790916175	10.94775337	6.47165353	3.99216E-05	0.00139604	Abp1	Mus musculus amiloride binding protein 1 (amine oxidase, copper-containing) (Abp1), mRNA.
ILMN_2764995	0.826246268	10.94463232	7.567824883	9.22874E-06	0.000537135	Kpnb3	
ILMN_2606804	1.613071795	10.94353463	11.43962158	1.42129E-07	4.40472E-05	Alcam	
ILMN_2499747	0.467245025	10.94306552	3.866766182	0.002481004	0.019963194	Trim27	
ILMN_2418426	0.926600779	10.94195758	6.529375147	3.68176E-05	0.001329164	Wig1	
ILMN_2712792	1.210976398	10.94184351	9.566534329	9.04693E-07	0.000143201	Csnk1e	Mus musculus casein kinase 1, epsilon (Csnk1e), mRNA.
ILMN_1214866	0.60255477	10.93626044	5.437045624	0.00018398	0.003742801	Eml1	
ILMN_2599657	1.126662157	10.93547321	7.762848344	7.22135E-06	0.000452291	Fmnl3	Mus musculus formin-like 3 (Fmnl3), mRNA.
ILMN_1241161	0.921420357	10.9308125	7.986407651	5.48051E-06	0.000369439	2900075A18Rik	
ILMN_2911344	0.37473318	10.92603726	3.271764755	0.007163113	0.039928372	Plscr1	Mus musculus phospholipid scramblase 1 (Plscr1), mRNA.
ILMN_2956942	0.510008372	10.92190941	3.479072108	0.004935119	0.031221302	Prkcdbp	Mus musculus protein kinase C, delta binding protein (Prkcdbp), mRNA.
ILMN_2488405	0.350080676	10.91919128	3.436609929	0.005325263	0.032798645	1110029I05Rik	
ILMN_1249224	0.69068084	10.91824046	6.209291042	5.79997E-05	0.001736572	Tpd52l1	Mus musculus tumor protein D52-like 1 (Tpd52l1), mRNA.
ILMN_1244006	0.532029329	10.91419563	4.63335493	0.000668658	0.008615648	Epn2	
ILMN_2610156	0.539331331	10.91206907	5.609076459	0.000141237	0.003132276	Neo1	
ILMN_1242333	0.449672138	10.91171842	3.122504099	0.009380196	0.04747394	Immp2l	Mus musculus IMP2 inner mitochondrial membrane peptidase-like (S. cerevisiae) (Immp2l), mRNA.
ILMN_2747754	1.669344634	10.90980482	7.094625956	1.70504E-05	0.000796231	Pygb	Mus musculus brain glycogen phosphorylase (Pygb), mRNA.
ILMN_2498471	0.97540325	10.90821362	6.172922152	6.11268E-05	0.001801054	2310075E07Rik	
ILMN_1249934	1.173760098	10.90625939	6.328675013	4.88779E-05	0.001572228	Gna13	
ILMN_1260506	1.663175151	10.90584707	7.439585429	1.08702E-05	0.000590716	Pea15	

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ILMN_2757870	0.527214466	10.90475449	4.085170146	0.00169532	0.015529909	Psmb10	Mus musculus proteasome (prosome, macropain) subunit, beta type 10 (Psmb10), mRNA.
ILMN_1228441	0.406167182	10.89614831	3.127143385	0.009301785	0.047217296	C230043G09Rik	
ILMN_2606848	0.264825122	10.89601495	3.455856509	0.005144661	0.032062428	Kars	Mus musculus lysyl-tRNA synthetase (Kars), mRNA.
ILMN_2899591	0.654647532	10.89416643	6.23653816	5.57688E-05	0.001693145	Lars	Mus musculus leucyl-tRNA synthetase (Lars), mRNA. XM_901187 XM_913429 XM_922755 XM_922767 XM_922771 XM_922775 XM_922782 XM_922785 XM_989215
ILMN_2785350	0.496498629	10.87988437	4.960095371	0.0003914	0.006053122	Il17rc	Mus musculus interleukin 17 receptor C (Il17rc), mRNA.
ILMN_1232884	1.47157206	10.8776391	6.411293825	4.34683E-05	0.001463025	Sphk1	
ILMN_2608666	0.400253143	10.87735558	3.522021229	0.004570185	0.029667664	Iqwd1	
ILMN_2601441	0.303544554	10.87614997	3.205950594	0.008066583	0.043169513	4931406P16Rik	
ILMN_2626401	0.802578445	10.87588371	4.512559417	0.000818069	0.009839511	Amotl1	
ILMN_1253854	1.193357875	10.87560442	9.442856147	1.03269E-06	0.000148999	Tgif	Mus musculus TG interacting factor 1 (Tgif1), mRNA.
ILMN_1219574	0.758455076	10.87053147	4.621362708	0.000682121	0.008749423	Hist1h2af	Mus musculus histone cluster 1, H2af (Hist1h2af), mRNA.
ILMN_1239716	0.528712636	10.86908722	5.237657667	0.000251263	0.004587513	Farp1	
ILMN_2775146	0.543085253	10.86683639	6.166786454	6.16718E-05	0.001810178	Dnajc8	
ILMN_1254855	0.571620309	10.86446654	5.6459014	0.000133538	0.003020485	Mknk1	
ILMN_1254157	0.739535648	10.86323871	6.282283226	5.22265E-05	0.001624318	Wars	Mus musculus tryptophanyl-tRNA synthetase (Wars), mRNA.
ILMN_2907655	0.605898363	10.86178546	4.513538865	0.000816726	0.009833269	Bax	Mus musculus Bcl2-associated X protein (Bax), mRNA.
ILMN_3004600	1.737979742	10.85869405	3.53828591	0.004439306	0.029119065	Serpina1c	Mus musculus serine (or cysteine) peptidase inhibitor, clade A, member 1c (Serpina1c), mRNA.
ILMN_2755511	1.171749528	10.85849158	6.715385334	2.84491E-05	0.001111097	2310061F22Rik	
ILMN_2870320	0.463076291	10.85479389	3.455030401	0.005152282	0.032093165	Prkd2	Mus musculus protein kinase D2 (Prkd2), mRNA.
ILMN_2746475	1.32395643	10.85380153	4.188260471	0.001419112	0.013884488	AI788959	
ILMN_2721357	2.015556974	10.85333215	8.556488013	2.77994E-06	0.000257123	Lhfpl2	Mus musculus lipoma HMGIC fusion partner-like 2 (Lhfpl2), mRNA.
ILMN_2777769	0.635968543	10.85187487	4.801596842	0.000506577	0.007147167	H2-DMa	
ILMN_3148550	2.027147982	10.84504892	14.48631182	1.14606E-08	9.80884E-06	Golph2	Mus musculus golgi membrane protein 1 (Golm1), transcript variant 2, mRNA.
ILMN_2993109	0.780896522	10.84466604	4.020575776	0.001896363	0.016686174	Ddit4	Mus musculus DNA-damage-inducible transcript 4 (Ddit4), mRNA.
ILMN_2631192	0.291128313	10.84388208	3.906505017	0.002314025	0.019074122	2310075A12Rik	Mus musculus vacuolar protein sorting 26 homolog B (yeast) (Vps26b), mRNA.
ILMN_2933624	0.406553458	10.84381517	3.561801521	0.004256836	0.028276031	LOC654467	Mus musculus heterogeneous nuclear ribonucleoprotein A1 pseudogene (LOC654467) on chromosome 9.
ILMN_2604307	2.433209523	10.83296672	4.129231073	0.001570992	0.01475796	Havcr1	Mus musculus hepatitis A virus cellular receptor 1 (Havcr1), mRNA.
ILMN_2614486	0.408403679	10.82958218	3.354141455	0.006175445	0.03609717	Rga	Mus musculus recombination activating gene 1 activating protein 1

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							(Rag1ap1), mRNA.
ILMN_1232209	0.648048178	10.82861593	4.029576416	0.001866927	0.016556916	Pbef1	Mus musculus pre-B-cell colony-enhancing factor 1 (Pbef1), mRNA.
ILMN_2771326	0.395998279	10.82470532	4.33861497	0.001097441	0.011717328	Sca10	
ILMN_2616164	1.246661272	10.82459353	12.45553248	5.78445E-08	3.13715E-05	Itga3	Mus musculus integrin alpha 3 (Itga3), mRNA.
ILMN_1237042	0.380689855	10.82158947	3.595779964	0.004006665	0.02717767	Otub1	
ILMN_2650275	0.636066339	10.81880411	6.088398479	6.91093E-05	0.001960944	1810055G02Rik	Mus musculus RIKEN cDNA 1810055G02 gene (1810055G02Rik), mRNA.
ILMN_1214255	0.908994548	10.81779411	4.703430819	0.000595367	0.007950333	2300009N04Rik	
ILMN_1251426	0.475428261	10.81648524	3.953047328	0.002133151	0.018108639	Klf7	
ILMN_2934533	0.856701176	10.81639606	5.116862389	0.000304313	0.005142937	Prpf19	Mus musculus PRP19/PSO4 pre-mRNA processing factor 19 homolog (S. cerevisiae) (Prpf19), mRNA.
ILMN_2726315	0.568418967	10.81605259	4.724463672	0.000575054	0.007776522	Sdf4	
ILMN_1224866	1.225246011	10.81529843	8.980499948	1.71478E-06	0.000197586	Ptgs1	
ILMN_2913326	0.437502147	10.81252584	3.686036096	0.003412882	0.024522438	2610039C10Rik	Mus musculus RIKEN cDNA 2610039C10 gene (2610039C10Rik), mRNA.
ILMN_2692980	0.633104665	10.81211296	7.031875914	1.85344E-05	0.00082979	BC035537	Mus musculus cDNA sequence BC035537 (BC035537), mRNA.
ILMN_1227128	0.48742991	10.80981636	5.45981718	0.00017761	0.003656857	Sox12	
ILMN_2515982	2.852315187	10.80972069	7.66094606	8.20428E-06	0.000489447	Ugt1a9	
ILMN_2739965	0.329292022	10.80935571	3.718293979	0.003223304	0.023645158	Csnk1d	
ILMN_2769136	2.502193097	10.79863995	9.552223494	9.18587E-07	0.00014327	Mthfd2	
ILMN_1253659	0.385229862	10.79850837	3.966315965	0.002084316	0.017834929	Lamb1-1	
ILMN_2494421	0.715422313	10.79703539	4.068264199	0.0017457	0.015833382	scl0002791.1_134	
ILMN_2968907	0.506621869	10.79598702	4.178987103	0.001441921	0.014017075	Tipin	Mus musculus timeless interacting protein (Tipin), mRNA.
ILMN_3123303	0.569874799	10.79576508	3.2365349	0.007633178	0.041596378	Pxn	
ILMN_1259777	1.498082339	10.79474724	9.119936615	1.4685E-06	0.000188402	1600029D21Rik	
ILMN_1250138	1.495722689	10.79184468	5.744641739	0.000115011	0.002760093	Muc1	Mus musculus mucin 1, transmembrane (Muc1), mRNA.
ILMN_2758264	0.693511757	10.78575597	3.987425436	0.002008997	0.017357242	Cyp2s1	Mus musculus cytochrome P450, family 2, subfamily s, polypeptide 1 (Cyp2s1), mRNA.
ILMN_2624622	1.882639697	10.77937541	10.23468303	4.5287E-07	9.4257E-05	Akap12	
ILMN_2669782	0.542755886	10.77564726	5.029792244	0.000349818	0.005647969	Phca	
ILMN_2633670	0.48887616	10.77417538	3.824215216	0.002673667	0.020870697	B830009D23Rik	
ILMN_2757428	0.373593403	10.77380328	4.50279988	0.000831579	0.0099357	Bloc1s2	
ILMN_1222734	2.590008734	10.77249235	21.52102092	1.49446E-10	1.681E-06	Aldh1a1	
ILMN_1214953	0.67425532	10.77138259	4.130742466	0.0015669	0.014755693	Rusc2	
ILMN_2420956	0.492175313	10.77136606	3.329430472	0.006456234	0.037273213	Dysf	

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ILMN_2605703	1.039298888	10.76851105	4.915103461	0.000420984	0.006358191	2700038N03Rik	Mus musculus RIKEN cDNA 2700038N03 gene (2700038N03Rik), mRNA.
ILMN_2857684	0.879561871	10.7672713	5.089341337	0.00031798	0.005307417	Ildr1	Mus musculus immunoglobulin-like domain containing receptor 1 (Ildr1), mRNA.
ILMN_3001616	1.328782556	10.76504018	7.488595005	1.02086E-05	0.000569179	Plp2	Mus musculus proteolipid protein 2 (Plp2), mRNA.
ILMN_1257117	0.299755557	10.76069109	3.239550163	0.007591749	0.041526116	2610033H07Rik	
ILMN_2830830	0.569627896	10.76005957	6.186853777	5.99082E-05	0.001773684	2700094F01Rik	Mus musculus RIKEN cDNA 2700094F01 gene (2700094F01Rik), mRNA.
ILMN_2620520	0.303390135	10.75989304	3.919472203	0.00226209	0.01882157	Smug1	Mus musculus single-strand selective monofunctional uracil DNA glycosylase (Smug1), mRNA.
ILMN_1250856	0.376617565	10.75977689	3.212890953	0.007966093	0.042804522	Kpna1	Mus musculus karyopherin (importin) alpha 1 (Kpna1), mRNA.
ILMN_1252243	0.696771558	10.75621555	6.604324045	3.31662E-05	0.001227047	0610009O03Rik	Mus musculus RIKEN cDNA 0610009O03 gene (0610009O03Rik), mRNA.
ILMN_2984793	0.414130423	10.7556614	3.126356059	0.009315046	0.047264498	1500001M20Rik	Mus musculus RIKEN cDNA 1500001M20 gene (1500001M20Rik), mRNA.
ILMN_1215233	0.449213152	10.75516919	4.393873263	0.000999226	0.011064746	2010200O16Rik	
ILMN_2951682	0.530435487	10.75418728	4.033594026	0.001853941	0.01649929	Cobl	Mus musculus cordon-bleu (Cobl), mRNA.
ILMN_2485323	1.278822116	10.75285416	3.254663687	0.007387503	0.040825933	Trf	
ILMN_1217969	0.747686125	10.74811893	5.560250248	0.000152178	0.003271631	Gpihbp1	
ILMN_2592476	0.493020238	10.74422262	4.809175336	0.000500328	0.007085647	Nfkb1	
ILMN_2705176	0.52051253	10.73943865	4.720781172	0.000578557	0.007813304	4932417I16Rik	
ILMN_2758631	0.507473785	10.73918789	4.373770847	0.001033848	0.011301287	Mnat1	
ILMN_2675922	0.520894922	10.73803103	3.851247676	0.00254955	0.020300272	2310047A01Rik	
ILMN_2740069	0.744196194	10.73528061	4.936539686	0.000406605	0.006207094	Rassf6	
ILMN_2676512	0.312491279	10.73426187	3.175000884	0.008530569	0.044602315	Riok1	Mus musculus RIO kinase 1 (yeast) (Riok1), mRNA.
ILMN_2772174	0.304366981	10.73280683	3.611172269	0.003898352	0.026813675	Ppan	
ILMN_3140913	1.411867297	10.73153603	9.593310022	8.793E-07	0.000141775	A630005A06Rik	
ILMN_1244343	0.360774032	10.7312541	3.254663266	0.007387509	0.040825933	B230369L08Rik	
ILMN_1256052	0.35308425	10.73094819	3.457614378	0.005128481	0.03202013	Khdrbs1	
ILMN_3128178	0.590610434	10.72787863	6.266047676	5.34555E-05	0.0016418	Pcqap	Mus musculus mediator complex subunit 15 (Med15), transcript variant 2, mRNA.
ILMN_2745889	0.993338157	10.72303954	5.068941487	0.000328528	0.005424303	Acot2	Mus musculus acyl-CoA thioesterase 2 (Acot2), mRNA.
ILMN_2715802	0.847881879	10.72217762	6.088851753	6.90636E-05	0.001960944	Hmga1	
ILMN_2692696	1.847939782	10.72129038	8.40996735	3.29895E-06	0.000280183	Pla2g7	Mus musculus phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma) (Pla2g7), mRNA.
ILMN_2502317	3.254860885	10.72102698	5.37284012	0.000203278	0.004012255	Ugt1a13	
ILMN_2686898	0.38987114	10.7208555	3.813054973	0.002726714	0.02114643	Aaas	Mus musculus achalasia, adrenocortical insufficiency, alacrimia (Aaas), mRNA.

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ILMN_2711267	2.421327077	10.7181593	15.74746965	4.63562E-09	6.14555E-06	Krt1-18	Mus musculus keratin 18 (Krt18), mRNA.
ILMN_2774596	0.783189557	10.71723816	6.521185395	3.72418E-05	0.001334387	Lamc1	
ILMN_2611767	1.135597037	10.71604733	4.481070329	0.000862503	0.010157241	Gprc5b	Mus musculus G protein-coupled receptor, family C, group 5, member B (Gprc5b), mRNA.
ILMN_2440530	0.975150148	10.71604199	3.548799551	0.004356754	0.028759397	Vat1	Mus musculus vesicle amine transport protein 1 homolog (T californica) (Vat1), mRNA.
ILMN_2998548	0.78789543	10.71316988	6.056924381	7.23592E-05	0.002024277	Pycr2	Mus musculus pyrroline-5-carboxylate reductase family, member 2 (Pycr2), mRNA.
ILMN_2457437	0.518697836	10.7128756	3.34674422	0.00625817	0.036437819	A830080H07Rik	
ILMN_2758632	0.512718071	10.7105862	4.135478633	0.001554146	0.014691958	Mnat1	
ILMN_2809988	0.274975822	10.70720911	3.219250493	0.007875127	0.042439965	Thumpd3	Mus musculus THUMP domain containing 3 (Thumpd3), mRNA.
ILMN_1222199	0.534624633	10.700142	3.37970573	0.005898033	0.035028564	Gls	
ILMN_2967266	0.690771397	10.69971605	4.290327186	0.001191517	0.012410816	Fxyd5	Mus musculus FXYD domain-containing ion transport regulator 5 (Fxyd5), mRNA.
ILMN_1214825	0.512769923	10.69964334	3.473489135	0.0049847	0.031426656	LOC381578	
ILMN_2794686	0.657559972	10.69803137	5.845650177	9.88558E-05	0.002529362	D15Wsu75e	Mus musculus DNA segment, Chr 15, Wayne State University 75, expressed (D15Wsu75e), mRNA.
ILMN_2416628	0.751591123	10.69498424	4.234655764	0.001310506	0.013184066	Pscd4	
ILMN_2781721	0.986893355	10.69457469	7.021255586	1.87989E-05	0.000835949	Rab25	Mus musculus RAB25, member RAS oncogene family (Rab25), mRNA.
ILMN_2768831	0.514442423	10.69408918	3.741749867	0.00309229	0.022987952	Siah1a	Mus musculus seven in absentia 1A (Siah1a), mRNA.
ILMN_1257328	0.399858019	10.69294494	3.335535245	0.006385679	0.037016454	LOC271041	
ILMN_2708150	0.480875152	10.69153722	3.652513632	0.003622082	0.025429167	C80913	
ILMN_1237670	0.582532089	10.68983218	3.631565676	0.003759462	0.026170373	Entpd2	Mus musculus ectonucleoside triphosphate diphosphohydrolase 2 (Entpd2), mRNA.
ILMN_2698443	0.546639974	10.68698374	3.378925475	0.005906309	0.035060265	Efnb1	Mus musculus ephrin B1 (Efnb1), mRNA.
ILMN_1224380	0.352266774	10.68602225	3.563194236	0.004246273	0.028238278	Gosr2	Mus musculus golgi SNAP receptor complex member 2 (Gosr2), mRNA.
ILMN_2975250	2.706959555	10.68208338	11.84749315	9.82817E-08	3.59956E-05	Sprr1a	Mus musculus small proline-rich protein 1A (Sprr1a), mRNA.
ILMN_2505061	0.335564845	10.68086383	3.684675395	0.003421127	0.024555403	A730063M14Rik	
ILMN_2651575	0.514961916	10.67947262	5.820009289	0.000102714	0.002582796	Ifngr1	
ILMN_2689333	1.037704537	10.67060063	7.966430134	5.61601E-06	0.000375391	Csnk1e	Mus musculus casein kinase 1, epsilon (Csnk1e), mRNA.
ILMN_2814005	0.583315566	10.66901647	3.721376067	0.003205767	0.023565446	Nid1	Mus musculus nidogen 1 (Nid1), mRNA.
ILMN_1216600	0.462134399	10.66894267	3.098678885	0.009793517	0.048932724	Shb	
ILMN_1231035	0.407931877	10.66695348	4.012200155	0.001924187	0.016850233	Csnk1d	
ILMN_2432075	0.533038737	10.66318037	4.370217433	0.001040097	0.011338435	4833420G11Rik	
ILMN_1224318	0.344762006	10.66306792	3.119275089	0.009435165	0.047679607	Kctd3	Mus musculus potassium channel tetramerisation domain containing 3

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
							(Kctd3), mRNA.
ILMN_1218605	0.380853121	10.66214445	3.601700298	0.003964644	0.027023219	Nfkbia	
ILMN_1246392	0.566484125	10.66102364	3.237051681	0.007626062	0.041584551	Prom2	Mus musculus prominin 2 (Prom2), transcript variant 2, mRNA.
ILMN_2614842	0.685313442	10.65514924	3.514297428	0.004633715	0.029917302	Gpihbp1	
ILMN_1250454	0.489749613	10.65499511	3.518191696	0.004601572	0.02980027	Prdm2	
ILMN_1246821	0.590220178	10.65197393	3.65720373	0.003592037	0.025315055	E130203B14Rik	Mus musculus RIKEN cDNA E130203B14 gene (E130203B14Rik), mRNA.
ILMN_3001914	0.403939905	10.65084805	4.966085324	0.000387629	0.006014302	Nfkbia	Mus musculus nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha (Nfkbia), mRNA.
ILMN_2976519	0.467405074	10.64814943	4.544852211	0.000774983	0.009469241	Faim	Mus musculus Fas apoptotic inhibitory molecule (Faim), mRNA.
ILMN_2745036	0.865834684	10.64774923	3.16319395	0.008714612	0.045336123	Arl2bp	Mus musculus ADP-ribosylation factor-like 2 binding protein (Arl2bp), transcript variant 1, mRNA.
ILMN_2615513	1.182189824	10.6474803	8.976619881	1.72224E-06	0.000197586	Frk	Mus musculus fyn-related kinase (Frk), mRNA.
ILMN_2727520	2.767786837	10.64717702	4.490105429	0.000849501	0.010075269	Cox8b	
ILMN_1219188	3.184486835	10.6459174	18.73288651	6.92638E-10	2.45367E-06	Akr1b8	Mus musculus aldo-keto reductase family 1, member B8 (Akr1b8), mRNA.
ILMN_1230019	0.527037792	10.64523302	3.282869329	0.007021124	0.039450217	Ube1l	Mus musculus ubiquitin-activating enzyme E1-like (Ube1l), mRNA.
ILMN_2635631	0.64462356	10.6439129	6.883309854	2.26278E-05	0.000964228	Sema3f	Mus musculus sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3 F (Sema3f), mRNA.
ILMN_2699531	0.61660729	10.64266807	4.12654936	0.001578281	0.014795829	Rgs10	Mus musculus regulator of G-protein signalling 10 (Rgs10), mRNA.
ILMN_1218981	1.99575352	10.64164435	9.054765647	1.5785E-06	0.00019206	Aldh1a7	
ILMN_1257291	0.603021166	10.64057121	4.372639839	0.001035833	0.011317799	D030029J20Rik	
ILMN_3159149	0.653976185	10.64006412	4.034600668	0.001850702	0.016497308	Rusc2	Mus musculus RUN and SH3 domain containing 2 (Rusc2), transcript variant 1, mRNA.
ILMN_2888144	0.659822167	10.63690707	4.227845057	0.001325891	0.013299592	Slc29a1	Mus musculus solute carrier family 29 (nucleoside transporters), member 1 (Slc29a1), mRNA.
ILMN_1249136	0.628121251	10.63584221	3.740178164	0.003100895	0.023037566	LOC384801	
ILMN_1252481	1.425045449	10.62843933	11.57058644	1.261E-07	4.12208E-05	Fosl2	Mus musculus fos-like antigen 2 (Fosl2), mRNA.
ILMN_2622801	0.788080099	10.62385033	5.833140169	0.000100719	0.00254873	Sh3bgrl2	
ILMN_2655721	0.316338685	10.62301635	3.261691257	0.00729444	0.040453156	Stat1	
ILMN_1250928	1.031428459	10.62017418	5.681140358	0.000126586	0.002924232	Atbf1	
ILMN_2745037	0.966494384	10.61607098	3.555035712	0.004308533	0.028519982	Arl2bp	Mus musculus ADP-ribosylation factor-like 2 binding protein (Arl2bp), transcript variant 1, mRNA.
ILMN_2420434	0.423982235	10.6137638	4.42919596	0.000941294	0.010660705	5530401J07Rik	
ILMN_2977129	1.260248122	10.61330793	8.388455372	3.38355E-06	0.000284301	Atp8b1	Mus musculus ATPase, class I, type 8B, member 1 (Atp8b1), mRNA.
ILMN_2656268	0.635819922	10.61155628	4.767303178	0.000535899	0.007439296	Fmnl2	
ILMN_1220939	0.832397115	10.60938898	4.664777266	0.000634687	0.008294385	Epb4.1l4a	

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2601833	0.590245228	10.60823318	3.711522562	0.00326218	0.023791997	Plcg2	Mus musculus phospholipase C, gamma 2 (Plcg2), mRNA.
ILMN_2653567	0.585598957	10.60803881	4.027261191	0.001874453	0.016556916	Rhoj	
ILMN_1253819	2.123077234	10.60709996	7.686754174	7.94246E-06	0.000482267	Prkar2b	
ILMN_2499746	0.51232565	10.60234611	5.45578682	0.00017872	0.003670215	Trim27	
ILMN_2681516	1.026900541	10.60184942	8.241107173	4.02957E-06	0.00031119	Slc39a6	
ILMN_2634108	0.303954445	10.59867815	3.148192126	0.008954263	0.046120347	Ap1s1	
ILMN_2920027	0.548751502	10.59867156	4.663204769	0.000636344	0.008311477	Dtnb	Mus musculus dystrobrevin, beta (Dtnb), mRNA.
ILMN_1239293	0.545574626	10.5980289	4.325616596	0.001121976	0.011894143	Sulf2	
ILMN_2734097	1.527645904	10.59386043	9.350416526	1.14108E-06	0.000158311	Btc	Mus musculus betacellulin, epidermal growth factor family member (Btc), mRNA.
ILMN_2680086	0.859016828	10.59283003	6.431389164	4.22516E-05	0.001440356	4930418P06Rik	Mus musculus rhomboid domain containing 1 (Rhbdd1), mRNA.
ILMN_1241371	0.886209451	10.59187118	5.89266848	9.21749E-05	0.002411808	scl0003187.1_40	
ILMN_3109289	0.845367693	10.59185958	4.770409788	0.00053317	0.007418686	Tcf3	Mus musculus transcription factor 3 (Tcf3), transcript variant 1, mRNA.
ILMN_2760840	0.329697551	10.58900458	3.285547904	0.006987304	0.039310228	Ppp1r8	Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 8 (Ppp1r8), mRNA.
ILMN_1231996	0.406905235	10.58737589	3.211537074	0.007985596	0.042890001	Pip5k2b	Mus musculus phosphatidylinositol-4-phosphate 5-kinase, type II, beta (Pip5k2b), mRNA.
ILMN_2630512	0.414285139	10.58470234	4.152683611	0.001508719	0.014487955	1200013F24Rik	
ILMN_1225528	4.286363511	10.5827549	20.85856685	2.11331E-10	1.681E-06	Trib3	
ILMN_2743133	0.382055273	10.5821407	4.776957483	0.000527468	0.007365105	Bcar1	Mus musculus breast cancer anti-estrogen resistance 1 (Bcar1), mRNA.
ILMN_1246876	0.904889531	10.57938327	5.703464991	0.000122382	0.002857538	Kit	
ILMN_1254840	0.393759693	10.57839762	5.272606372	0.000237807	0.004442049	Smarcb1	Mus musculus SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily b, member 1 (Smarcb1), mRNA.
ILMN_2634933	1.409824369	10.57810483	6.036579795	7.45463E-05	0.002068486	Il17re	Mus musculus interleukin 17 receptor E (Il17re), transcript variant 1, mRNA.
ILMN_2975041	0.367722994	10.57383436	3.200362613	0.008148424	0.043432171	Nxt1	Mus musculus NTF2-related export protein 1 (Nxt1), mRNA.
ILMN_1245994	1.053527206	10.57309525	5.853504814	9.77049E-05	0.002512426	Flna	
ILMN_2720813	0.637142461	10.57091621	4.032813765	0.001856455	0.01649929	Epb4.1	
ILMN_3085126	0.269936614	10.56983609	3.386261796	0.005828959	0.034765421	Nr1h2	Mus musculus nuclear receptor subfamily 1, group H, member 2 (Nr1h2), mRNA.
ILMN_2645493	1.313513246	10.56556532	11.13899467	1.87898E-07	5.40926E-05	Pvrl2	Mus musculus poliovirus receptor-related 2 (Pvrl2), mRNA.
ILMN_2728431	0.51185335	10.56483823	3.288973321	0.006944296	0.039221712	Cdc42ep4	Mus musculus CDC42 effector protein (Rho GTPase binding) 4 (Cdc42ep4), mRNA.
ILMN_2568516	0.895131029	10.56314485	9.17412561	1.38332E-06	0.000178433	Rbpms	
ILMN_2430813	1.658105728	10.55789119	9.10739289	1.48901E-06	0.000189003	Pdlim7	

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2512216	0.457642438	10.55318845	5.13442699	0.000295916	0.005069232	Tubgcp2	Mus musculus tubulin, gamma complex associated protein 2 (Tubgcp2), mRNA.
ILMN_2721337	1.22507337	10.55309486	9.778243248	7.23585E-07	0.000129826	G6pdx	
ILMN_2774618	0.340727376	10.55306483	3.814808776	0.002718306	0.021088081	2610020O08Rik	
ILMN_2712668	0.459675066	10.55295582	4.137943694	0.001547551	0.01467775	C230090D14	
ILMN_3162081	0.555828469	10.55288343	5.149237203	0.000289025	0.004971522	Wdr6	Mus musculus WD repeat domain 6 (Wdr6), mRNA.
ILMN_2439341	0.812790206	10.55223459	7.448055936	1.07527E-05	0.000588511	Vars	Mus musculus valyl-tRNA synthetase (Vars), mRNA.
ILMN_2820260	0.478503207	10.55171741	5.674784351	0.000127811	0.002932937	Wdr77	Mus musculus WD repeat domain 77 (Wdr77), mRNA.
ILMN_2627328	0.702615168	10.55079648	4.240089923	0.001298364	0.013106119	Dnase2a	
ILMN_3135697	0.648011802	10.54988281	3.591741835	0.004035589	0.027280808	1200003I07Rik	
ILMN_2825803	0.466441484	10.54904357	3.255932836	0.007370608	0.040770704	Parp14	Mus musculus poly (ADP-ribose) polymerase family, member 14 (Parp14), mRNA. XM_901644 XM_916789 XM_924484 XM_924488
ILMN_2544003	0.706480208	10.54883785	3.8521923	0.002545322	0.020293693	Rad23a	
ILMN_2729771	0.379720417	10.54667898	3.6247201	0.003805508	0.026389058	Rrn3	
ILMN_3104094	0.517276246	10.54298086	3.856887651	0.002524414	0.020172614	2610208M17Rik	Mus musculus RIKEN cDNA 2610208M17 gene (2610208M17Rik), mRNA.
ILMN_2644845	0.406710257	10.54252647	3.869442852	0.002469374	0.01989789	3300001M20Rik	Mus musculus RIKEN cDNA 3300001M20 gene (3300001M20Rik), mRNA.
ILMN_2680872	0.420567228	10.54158761	4.882333972	0.000444009	0.006568741	Mtvr2	
ILMN_2622374	0.941531625	10.53398791	5.564207711	0.000151259	0.003263547	Ndn	
ILMN_1220121	1.868406327	10.5317408	9.557156992	9.13772E-07	0.00014327	Kif23	
ILMN_3024099	0.316770747	10.52483828	3.102512132	0.009725798	0.048706549	Seh1l	Mus musculus SEH1-like (S. cerevisiae (Seh1l), transcript variant 1, mRNA.
ILMN_2788073	2.505944692	10.52389887	7.911414763	6.00808E-06	0.000395758	Hmox1	Mus musculus heme oxygenase (decycling) 1 (Hmox1), mRNA.
ILMN_2961005	0.654235844	10.52006984	3.815244266	0.002716222	0.021088081	Ier5l	Mus musculus immediate early response 5-like (Ier5l), mRNA.
ILMN_1233461	0.452818627	10.51958441	3.772269961	0.002929991	0.022220356	Isgf3g	Mus musculus interferon dependent positive acting transcription factor 3 gamma (Isgf3g), mRNA.
ILMN_2611755	0.872125282	10.51896977	7.358134048	1.20735E-05	0.000634605	Serpinb6b	Mus musculus serine (or cysteine) peptidase inhibitor, clade B, member 6b (Serpinb6b), mRNA.
ILMN_1250752	0.350324277	10.51835663	3.181854527	0.008425545	0.044305632	Knsl5	
ILMN_1260446	0.528851567	10.5177144	4.708845292	0.000590067	0.007910543	Ttc3	Mus musculus tetratricopeptide repeat domain 3 (Ttc3), mRNA.
ILMN_1240615	1.285578941	10.51255811	7.565668563	9.25403E-06	0.000537297	Olfm1	
ILMN_1231229	1.376099023	10.51226889	5.155077291	0.000286355	0.004948942	Muc1	Mus musculus mucin 1, transmembrane (Muc1), mRNA.
ILMN_2497526	0.466651706	10.51209877	3.542740777	0.004404133	0.028967978	Usp48	
ILMN_2755585	0.667124148	10.50940247	5.173273688	0.000278201	0.004878443	Avpi1	Mus musculus arginine vasopressin-induced 1 (Avpi1), mRNA.
ILMN_2702540	1.033139299	10.50636831	8.94897719	1.77641E-06	0.000201333	Chka	
ILMN_2649654	0.324663228	10.50285991	3.109911979	0.009596403	0.048240776	A530065E19Rik	

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ILMN_2711948	2.335099645	10.50284356	14.79647173	9.11423E-09	9.0622E-06	Slc7a5	Mus musculus solute carrier family 7 (cationic amino acid transporter, y+ system), member 5 (Slc7a5), mRNA.
ILMN_1247691	0.644158642	10.50135973	4.804055364	0.000504541	0.007141074	Hes1	Mus musculus hairy and enhancer of split 1 (Drosophila) (Hes1), mRNA.
ILMN_2923445	0.888274086	10.50098692	3.423194324	0.005454968	0.033317613	Acta2	Mus musculus actin, alpha 2, smooth muscle, aorta (Acta2), mRNA.
ILMN_1212835	2.575708728	10.49889701	7.55196429	9.41651E-06	0.000544083	Ugt1a6a	Mus musculus UDP glucuronosyltransferase 1 family, polypeptide A6A (Ugt1a6a), mRNA.
ILMN_2672543	1.186702364	10.49580779	9.491842583	9.79798E-07	0.000147281	DXImx50e	
ILMN_2686069	0.351570019	10.49210919	4.234981218	0.001309775	0.013182274	Gyg1	
ILMN_2701515	0.549657272	10.48853595	4.090103019	0.001680906	0.015451256	Lrrk1	
ILMN_1230157	0.684365733	10.48762687	5.72722077	0.000118071	0.002803501	Rhoe	
ILMN_2466845	0.397616399	10.48723539	3.171332029	0.008587333	0.044820544	Trp53	Mus musculus transformation related protein 53 (Trp53), mRNA.
ILMN_2757445	0.412061612	10.48410537	5.122028208	0.000301818	0.00513307	4921537D05Rik	
ILMN_1256369	0.664043652	10.4827972	3.362494272	0.006083371	0.035743994	Lynx1	Mus musculus Ly6/neurotoxin 1 (Lynx1), mRNA.
ILMN_2982958	0.465500302	10.48067627	6.112175267	6.67573E-05	0.001912399	Sae1	Mus musculus SUMO1 activating enzyme subunit 1 (Sae1), mRNA.
ILMN_1228320	1.050794019	10.48045539	4.208147692	0.001371453	0.01364193	Pfc	
ILMN_2679755	0.295541188	10.47627882	3.219286958	0.007874609	0.042439965	Fmip	Mus musculus THO complex 5 (Thoc5), mRNA.
ILMN_2511913	0.833109851	10.4761855	6.170950204	6.13014E-05	0.001801521	Wnt5a	Mus musculus wingless-related MMTV integration site 5A (Wnt5a), mRNA.
ILMN_2723860	1.179237103	10.47355446	5.767992231	0.000111042	0.00269894	Pkm2	
ILMN_3096592	0.717194801	10.471961	3.621892098	0.003824699	0.02649312	Epb4.1l1	Mus musculus erythrocyte protein band 4.1-like 1 (Epb4.1l1), transcript variant 3, mRNA.
ILMN_1220186	0.558321077	10.47086874	3.425308366	0.005434317	0.03324253	Msi2h	
ILMN_2711163	0.902152359	10.46928243	6.836164657	2.41212E-05	0.000997579	Ctsk	Mus musculus cathepsin K (Ctsk), mRNA.
ILMN_2690122	0.822994468	10.46783158	7.294197365	1.3118E-05	0.000673703	Slc27a1	
ILMN_3154419	1.309777382	10.46763942	9.052962224	1.58167E-06	0.00019206	P2ry14	
ILMN_1228338	0.400970957	10.46762766	3.216395253	0.007915837	0.042620854	Eps15	
ILMN_1225370	0.644788377	10.46738293	5.522633613	0.000161219	0.003415473	2410039M03Rik	
ILMN_2685890	0.674551984	10.46602066	5.117355136	0.000304074	0.00514254	6720469N11Rik	
ILMN_1220360	0.644838254	10.46505707	4.569695146	0.000743458	0.009218607	Unc13b	
ILMN_2661588	1.073945078	10.46485958	5.636520463	0.000135456	0.003046542	Spnb3	
ILMN_2867427	0.467250596	10.46313355	5.44734116	0.00018107	0.003708906	Rad50	Mus musculus RAD50 homolog (S. cerevisiae) (Rad50), mRNA.
ILMN_2629601	1.242272689	10.45974194	9.487170984	9.84714E-07	0.000147281	Slc4a7	
ILMN_1258688	0.890856865	10.45632197	3.496645021	0.004782328	0.030497243	5730406O18Rik	
ILMN_1252133	0.673533933	10.45423027	3.576422323	0.00414728	0.027783982	LOC269859	
ILMN_1229553	0.636805927	10.45417775	4.421154203	0.000954167	0.01075146	Igsf3	

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ILMN_1259388	1.047942826	10.45291223	5.485681997	0.000170657	0.003562885	Col6a1	
ILMN_2704637	0.730796656	10.45155143	3.446252917	0.005233981	0.032449588	Kdt1	
ILMN_2946608	0.726806122	10.45050653	3.281621526	0.007036935	0.039473996	2310047M10Rik	Mus musculus RIKEN cDNA 2310047M10 gene (2310047M10Rik), mRNA.
ILMN_2624713	0.49808424	10.44899695	3.678682685	0.003457682	0.024726002	4930420O11Rik	
ILMN_2954881	0.942023752	10.44686681	8.416824665	3.27247E-06	0.000279896	Tcirg1	Mus musculus T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 protein A3 (Tcirg1), mRNA.
ILMN_2979824	1.510879228	10.44662675	5.744177393	0.000115092	0.002760093	Rgs5	Mus musculus regulator of G-protein signaling 5 (Rgs5), mRNA.
ILMN_3023610	0.455154425	10.44625556	3.384372833	0.005848776	0.034825944	Sgpp2	Mus musculus sphingosine-1-phosphate phosphotase 2 (Sgpp2), mRNA.
ILMN_2747507	0.637992049	10.44610352	3.281920189	0.007033147	0.039471696	Pitpnm2	Mus musculus phosphatidylinositol transfer protein, membrane-associated 2 (Pitpnm2), mRNA.
ILMN_2599782	0.468571921	10.44492599	3.285233329	0.006991267	0.039310228	Irf1	Mus musculus interferon regulatory factor 1 (Irf1), mRNA.
ILMN_3137552	0.925735375	10.44280274	5.975174094	8.15847E-05	0.002195249	Mtap2	
ILMN_1214608	0.438434709	10.44251867	3.176362282	0.008509602	0.044561035	Plxnd1	
ILMN_2488835	0.509537552	10.44222493	3.592309939	0.004031507	0.027273606	Epb4.1l2	
ILMN_2682120	1.798641995	10.44085058	7.209608383	1.46512E-05	0.000724212	Scel	
ILMN_2822825	2.657834411	10.43836214	11.50515086	1.3385E-07	4.2027E-05	Fbxo2	Mus musculus F-box protein 2 (Fbxo2), mRNA.
ILMN_1255834	0.595766047	10.4342071	4.711530073	0.000587457	0.007893294	Stk17b	Mus musculus serine/threonine kinase 17b (apoptosis-inducing) (Stk17b), mRNA.
ILMN_1227836	1.70731046	10.43406017	6.001081512	7.85326E-05	0.002145109	Arpc1b	Mus musculus actin related protein 2/3 complex, subunit 1B (Arpc1b), mRNA.
ILMN_2939367	0.879127764	10.43213281	6.575247235	3.45347E-05	0.001260092	Zfp608	Mus musculus zinc finger protein 608 (Zfp608), mRNA. XM_001000874 XM_001000888 XM_001000902 XM_001000914 XM_993937 XM_993952 XM_993993 XM_994038 XM_994057 XM_994076
ILMN_1229994	1.510487605	10.43088227	6.735773872	2.76638E-05	0.001094763	Npn3	Mus musculus sulfiredoxin 1 homolog (S. cerevisiae) (Srxn1), mRNA.
ILMN_2734693	0.972918003	10.429393	6.058518993	7.21907E-05	0.002022105	Ildr1	Mus musculus immunoglobulin-like domain containing receptor 1 (Ildr1), mRNA.
ILMN_2723329	0.615300041	10.42805506	5.110310992	0.000307509	0.005185935	Cnksr1	
ILMN_1259473	0.575997162	10.42593648	5.328644811	0.000217799	0.004191404	Fen1	
ILMN_2681776	0.765281576	10.42508554	5.148260134	0.000289475	0.004973173	Mapk6	
ILMN_2625099	0.490078823	10.42061907	4.894660092	0.000435196	0.006492565	2610511M17Rik	
ILMN_2644025	1.080821781	10.41757279	4.779975631	0.000524861	0.00733868	Hk1	
ILMN_2981550	0.87360733	10.41680864	7.176618717	1.53002E-05	0.000748173	Capn1	Mus musculus calpain 1 (Capn1), mRNA.
ILMN_2638721	0.715311837	10.41593085	7.359170626	1.20573E-05	0.000634605	BC035295	
ILMN_2850233	1.316240223	10.41449964	6.161688041	6.21286E-05	0.001816882	Elf3	Mus musculus E74-like factor 3 (Elf3), mRNA.
ILMN_1249444	0.4889559	10.41089624	3.190453678	0.008295622	0.043805806	Gnefr	Mus musculus secretion regulating guanine nucleotide exchange factor

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							(Sergef), mRNA.
ILMN_1222716	0.613335039	10.40941414	5.648367274	0.000133038	0.003014906	Sgcb	
ILMN_2933431	0.308509868	10.40257538	3.717097356	0.003230139	0.023673039	Pps	Mus musculus putative phosphatase (Pps), mRNA.
ILMN_2932814	0.472044807	10.40184396	4.625348562	0.000677615	0.008707549	0610011N22Rik	Mus musculus coiled-coil domain containing 127 (Ccdc127), mRNA.
ILMN_1252725	0.988839271	10.40073949	5.471493357	0.000174434	0.003610926	E130118D18Rik	
ILMN_2640348	0.449067573	10.40021594	3.363175535	0.006075923	0.03573817	2310014H19Rik	Mus musculus transmembrane protein 110 (Tmem110), mRNA.
ILMN_1252673	0.788600701	10.40003867	5.18992275	0.000270954	0.004807276	Cugbp2	
ILMN_2928489	1.583169295	10.39988841	6.45426033	4.09108E-05	0.001412815	Muc1	Mus musculus mucin 1, transmembrane (Muc1), mRNA.
ILMN_2632585	0.517168044	10.39930336	5.538774122	0.000157272	0.00335687	Marveld3	
ILMN_2447991	1.787706073	10.3956394	8.697716932	2.36202E-06	0.000237827	A730054J21Rik	
ILMN_2936380	0.523811916	10.39531492	4.978534969	0.000379915	0.005944857	Sgpl1	Mus musculus sphingosine phosphate lyase 1 (Sgpl1), mRNA.
ILMN_2621463	0.461431818	10.39435899	3.944999058	0.002163349	0.018237512	Spint1	
ILMN_2784230	1.72219903	10.38821784	8.661078364	2.46351E-06	0.000242488	St8sia4	Mus musculus ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4 (St8sia4), mRNA.
ILMN_1230648	0.58166207	10.38731465	3.201186602	0.008136303	0.0434095	Rerg	Mus musculus RAS-like, estrogen-regulated, growth-inhibitor (Rerg), mRNA.
ILMN_2753492	0.30276124	10.37981376	3.639012636	0.00371002	0.025894183	Ripk1	Mus musculus receptor (TNFRSF)-interacting serine-threonine kinase 1 (Ripk1), mRNA.
ILMN_2612484	0.431411078	10.37914152	3.565465056	0.004229109	0.028158265	Myo9b	
ILMN_2638354	1.424285065	10.37876397	4.975625869	0.000381703	0.005956528	Prdx2	Mus musculus peroxiredoxin 2 (Prdx2), mRNA.
ILMN_1217723	0.819341645	10.3781763	7.791253773	6.97046E-06	0.000440042	Stau2	
ILMN_2673323	1.291182757	10.3760622	8.149228006	4.4987E-06	0.000332361	Sema3c	
ILMN_1221703	0.512679685	10.37283017	5.362567887	0.000206559	0.00405022	Abca7	Mus musculus ATP-binding cassette, sub-family A (ABC1), member 7 (Abca7), mRNA.
ILMN_1241827	1.307240752	10.36830558	8.036970813	5.15302E-06	0.000357461	Slc44a1	Mus musculus solute carrier family 44, member 1 (Slc44a1), mRNA.
ILMN_2852034	0.886658523	10.36437424	4.064104693	0.001758332	0.015899609	Hif1a	Mus musculus hypoxia inducible factor 1, alpha subunit (Hif1a), mRNA.
ILMN_2681670	0.444125739	10.36259531	3.622620278	0.003819748	0.026466508	BC026744	Mus musculus vacuolar protein sorting 37B (yeast) (Vps37b), mRNA.
ILMN_2674281	0.572267189	10.36172042	4.38478638	0.001014724	0.011168979	BC046404	Mus musculus cDNA sequence BC046404 (BC046404), mRNA.
ILMN_1225494	0.678862336	10.36162162	4.225895888	0.001330328	0.013321705	AU040950	Mus musculus ependymin related protein 1 (zebrafish) (Epdr1), mRNA.
ILMN_2700982	1.153086349	10.35813167	3.130500621	0.009245456	0.047061502	Pecam1	
ILMN_2836749	0.572803039	10.35802218	3.196768131	0.008201512	0.043578864	Rasl12	Mus musculus RAS-like, family 12 (Rasl12), mRNA.
ILMN_2932824	0.411441854	10.35740835	3.555524153	0.00430478	0.028510952	Gna-rs1	Mus musculus guanine nucleotide binding protein, related sequence 1 (Gna-rs1), mRNA.
ILMN_2624209	1.062820026	10.35566566	5.791015713	0.000107271	0.002651355	St14	

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ILMN_1216880	1.08422021	10.35443916	5.995128365	7.9223E-05	0.002155234	Emr1	Mus musculus EGF-like module containing, mucin-like, hormone receptor-like sequence 1 (Emr1), mRNA.
ILMN_2883016	1.03363409	10.35359868	4.425812842	0.000946688	0.010706543	Nav1	Mus musculus neuron navigator 1 (Nav1), mRNA.
ILMN_1253602	0.658394071	10.35317363	3.940053977	0.002182122	0.018328753	9630007E23Rik	
ILMN_2754985	1.118190886	10.35222609	5.243338074	0.000249022	0.004567977	Phlda1	Mus musculus pleckstrin homology-like domain, family A, member 1 (Phlda1), mRNA.
ILMN_2718217	0.885771848	10.35152032	5.674637346	0.00012784	0.002932937	2310057H16Rik	Mus musculus tubulin, beta 6 (Tubb6), mRNA.
ILMN_2707291	0.475494407	10.34463237	3.965529801	0.002087177	0.017845326	Prdm2	
ILMN_3147112	0.827616988	10.34080491	5.990263782	7.9792E-05	0.002161267	Mapk6	Mus musculus mitogen-activated protein kinase 6 (Mapk6), transcript variant 2, mRNA.
ILMN_2683486	0.550803316	10.33824581	4.36234538	0.001054082	0.011464703	AI115600	
ILMN_2824022	0.397678877	10.33424401	4.781058823	0.000523929	0.007332849	Map3k7ip3	Mus musculus mitogen-activated protein kinase kinase kinase 7 interacting protein 3 (Map3k7ip3), mRNA.
ILMN_2609614	0.807355228	10.33270694	4.088587153	0.001685322	0.015469992	Snx10	Mus musculus sorting nexin 10 (Snx10), mRNA.
ILMN_3103652	0.371370994	10.33122791	3.156621067	0.008818804	0.045678992	Csnk1d	
ILMN_2597710	0.545670781	10.33044096	3.445963234	0.0052367	0.032449588	Lmna	Mus musculus lamin A (Lmna), transcript variant 2, mRNA.
ILMN_3126933	0.499298777	10.32942601	3.089272798	0.00996171	0.049483644	Tacc1	Mus musculus transforming, acidic coiled-coil containing protein 1 (Tacc1), transcript variant 2, mRNA.
ILMN_1246452	0.276858782	10.3267405	3.414883782	0.005536931	0.033645985	Wdr22	
ILMN_3009685	0.855243593	10.32171408	4.440909416	0.000922868	0.010531992	Ptprs	Mus musculus protein tyrosine phosphatase, receptor type, S (Ptprs), mRNA.
ILMN_2705349	0.399906604	10.31732967	3.1175309	0.009464992	0.047763967	Nipa1	
ILMN_2775016	0.728043098	10.31636213	5.998379955	7.88451E-05	0.002147809	Fzd6	
ILMN_1225029	1.12562565	10.31588888	5.04593197	0.00034087	0.005543584	Oact1	Mus musculus membrane bound O-acyltransferase domain containing 1 (Mboat1), mRNA.
ILMN_2734683	0.649726954	10.31478229	4.400549618	0.000987997	0.01097606	Fstl1	Mus musculus follistatin-like 1 (Fstl1), mRNA.
ILMN_2669441	0.307589839	10.31293642	3.244069687	0.007530078	0.041317604	Eftud2	Mus musculus elongation factor Tu GTP binding domain containing 2 (Eftud2), mRNA.
ILMN_2556157	0.330836508	10.31252797	3.240030906	0.007585165	0.041514197	3010027N08Rik	
ILMN_1220063	2.527088706	10.31190786	3.733355306	0.003138536	0.023216023	LOC207695	
ILMN_1230766	1.133552803	10.30787206	8.717338359	2.30953E-06	0.000233714	Scmh1	
ILMN_2925872	0.821670654	10.30604276	4.504339865	0.000829432	0.0099307	Ap1m2	Mus musculus adaptor protein complex AP-1, mu 2 subunit (Ap1m2), mRNA.
ILMN_1250201	0.672593507	10.30523854	3.872691071	0.002455338	0.019877934	B930041F14Rik	
ILMN_1236574	0.789615328	10.30490451	5.338700013	0.000214401	0.004152099	Cenpa	
ILMN_2989955	0.878859941	10.30481677	3.645923544	0.003664735	0.025653147	Bmp1	Mus musculus bone morphogenetic protein 1 (Bmp1), mRNA.

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ILMN_2593888	0.560051161	10.30464177	4.346450602	0.001082922	0.011640432	Gsk3b	
ILMN_2876755	0.871730245	10.30403662	4.578522435	0.000732583	0.009133552	Defb42	Mus musculus defensin beta 42 (Defb42), mRNA.
ILMN_2907560	0.482624189	10.30382135	3.621447406	0.003827726	0.026506391	Fzd7	Mus musculus frizzled homolog 7 (Drosophila) (Fzd7), mRNA.
ILMN_2625280	0.818425057	10.30157337	5.637701282	0.000135213	0.003043945	Grb14	Mus musculus growth factor receptor bound protein 14 (Grb14), mRNA.
ILMN_1239397	3.090918824	10.30053038	6.473746335	3.98043E-05	0.001394787	Hk2	Mus musculus hexokinase 2 (Hk2), mRNA.
ILMN_2518197	0.839473153	10.2925805	7.85113482	6.47168E-06	0.000417389	Tnk1	Mus musculus tyrosine kinase, non-receptor, 1 (Tnk1), mRNA.
ILMN_2725789	0.355930123	10.29177056	3.200898962	0.008140532	0.0434095	Khdrbs1	
ILMN_2640248	0.839926216	10.29116521	5.543023626	0.00015625	0.00334103	Lama5	
ILMN_2928160	0.962039859	10.29000895	7.469607681	1.04597E-05	0.000577776	Vars	Mus musculus valyl-tRNA synthetase (Vars), mRNA.
ILMN_2677092	0.424003769	10.28960067	3.466802803	0.00504475	0.031682198	Nutf2	Mus musculus nuclear transport factor 2 (Nutf2), mRNA.
ILMN_2599794	3.064238077	10.28881165	11.88764561	9.48327E-08	3.59956E-05	Apoc1	Mus musculus apolipoprotein C-I (Apoc1), mRNA.
ILMN_2876482	0.740605384	10.28600084	7.212008309	1.46051E-05	0.000724212	Bzw2	Mus musculus basic leucine zipper and W2 domains 2 (Bzw2), mRNA.
ILMN_2923607	2.532774693	10.28193909	11.76683415	1.05627E-07	3.75037E-05	Phlda3	Mus musculus pleckstrin homology-like domain, family A, member 3 (Phlda3), mRNA.
ILMN_1249975	2.264497407	10.28176889	4.6086875	0.00069666	0.008871072	AU044919	
ILMN_2701501	0.470299384	10.28031506	5.046407533	0.00034061	0.005543584	Ncaph2	Mus musculus non-SMC condensin II complex, subunit H2 (Ncaph2), mRNA.
ILMN_3070533	0.3088765	10.27929787	3.630428021	0.003767074	0.026200436	5930434B04Rik	Mus musculus RIKEN cDNA 5930434B04 gene (5930434B04Rik), mRNA.
ILMN_2886618	1.155561966	10.27828156	7.157633273	1.56876E-05	0.000760034	Nbl1	Mus musculus neuroblastoma, suppression of tumorigenicity 1 (Nbl1), mRNA.
ILMN_2533054	0.309635616	10.27737693	3.605842887	0.00393551	0.026940065	LOC232887	
ILMN_1232851	0.47471445	10.27327591	4.18154975	0.00143558	0.013999693	Rab12	
ILMN_2938893	0.489583815	10.27314919	3.458511921	0.00512024	0.031985412	Smad3	Mus musculus MAD homolog 3 (Drosophila) (Smad3), mRNA.
ILMN_2491125	0.414331966	10.27192181	4.069651792	0.001741506	0.015801357	8030499H02Rik	
ILMN_2420119	0.396273488	10.27184787	3.646239244	0.00366268	0.025646284	2610103J23Rik	
ILMN_2660555	0.580747884	10.27062056	3.21489093	0.007937372	0.042685423	Bcl2a1d	
ILMN_2660263	0.536307864	10.26953925	3.630819705	0.003764452	0.026189828	Bcl2a1b	
ILMN_2881019	0.549147332	10.2676896	3.11919716	0.009436496	0.047679607	Sh3kbp1	Mus musculus SH3-domain kinase binding protein 1 (Sh3kbp1), mRNA.
ILMN_2744356	1.07542535	10.26285617	8.098736551	4.78122E-06	0.000341439	Arbp	Mus musculus acidic ribosomal phosphoprotein P0 (Arbp), mRNA.
ILMN_2755008	0.698839406	10.26135596	3.588310421	0.004060335	0.027362829	Nfkbiz	
ILMN_1249514	0.61734597	10.26019317	4.823221449	0.000488958	0.006986836	Large	Mus musculus like-glycosyltransferase (Large), mRNA.
ILMN_2927638	0.687082493	10.25827524	3.261582675	0.007295869	0.040453156	Mxra8	Mus musculus matrix-remodelling associated 8 (Mxra8), mRNA.
ILMN_2974720	0.88138716	10.25706897	9.470574465	1.00239E-06	0.000147281	Igf2bp2	Mus musculus insulin-like growth factor 2 mRNA binding protein 2 (Igf2bp2), mRNA.

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ILMN_1250438	0.653898427	10.25353677	4.244907393	0.001287698	0.013026005	Mlp	
ILMN_2737710	1.213866739	10.25227329	7.258094744	1.37502E-05	0.000693704	Tiam1	Mus musculus T-cell lymphoma invasion and metastasis 1 (Tiam1), mRNA.
ILMN_2678336	0.662369265	10.24997024	5.190986834	0.000270498	0.004807276	Ctf1	Mus musculus cardiotrophin 1 (Ctf1), mRNA.
ILMN_2417863	0.71924919	10.24815226	4.815123789	0.000495479	0.007044963	Tnip1	Mus musculus TNFAIP3 interacting protein 1 (Tnip1), mRNA.
ILMN_2744587	1.221317177	10.24720893	5.68325318	0.000126182	0.002920081	Cib2	Mus musculus calcium and integrin binding family member 2 (Cib2), mRNA.
ILMN_2795078	0.504532967	10.24713382	3.178358532	0.008478952	0.044498184	Unc93b1	Mus musculus unc-93 homolog B1 (C. elegans) (Unc93b1), mRNA.
ILMN_2937542	1.456291927	10.2468494	9.275500232	1.23792E-06	0.000165957	Col18a1	Mus musculus procollagen, type XVIII, alpha 1 (Col18a1), mRNA.
ILMN_2646241	0.710043014	10.24503755	3.194130424	0.008240692	0.043679111	Gripap1	Mus musculus GRIP1 associated protein 1 (Gripap1), mRNA.
ILMN_2448997	0.366303932	10.24417819	3.568075392	0.004209466	0.02809453	C130092E12	
ILMN_2974798	0.646736181	10.24396408	3.696067485	0.003352729	0.024229608	Lamc1	Mus musculus laminin, gamma 1 (Lamc1), mRNA.
ILMN_2703886	0.302601626	10.24164473	3.870040943	0.002466784	0.019897559	Mphosph6	Mus musculus M phase phosphoprotein 6 (Mphosph6), mRNA.
ILMN_2750588	0.785311416	10.24121899	4.042853098	0.001824369	0.016335802	Hspa5bp1	
ILMN_2648098	1.354770834	10.2350758	8.397462894	3.34784E-06	0.000283297	Srgap2	
ILMN_1240726	1.162368138	10.23457	5.321590369	0.000220217	0.004224304	Mmp14	Mus musculus matrix metallopeptidase 14 (membrane-inserted) (Mmp14), mRNA.
ILMN_2652500	1.08634236	10.23440148	5.403933689	0.000193677	0.003874035	Lrg1	Mus musculus leucine-rich alpha-2-glycoprotein 1 (Lrg1), mRNA.
ILMN_1240994	0.759301884	10.23348644	5.565676208	0.000150919	0.003262327	Mbc2	
ILMN_2918499	1.461439712	10.2317965	4.089015468	0.001684073	0.015468449	Abcb1b	Mus musculus ATP-binding cassette, sub-family B (MDR/TAP), member 1B (Abcb1b), mRNA.
ILMN_1216024	0.775139248	10.23109227	4.980384011	0.000378783	0.005938829	C030003H22Rik	
ILMN_1252628	1.395435688	10.22911146	14.48061714	1.15093E-08	9.80884E-06	Mal2	Mus musculus mal, T-cell differentiation protein 2 (Mal2), mRNA.
ILMN_1249021	0.52263952	10.22797266	4.444304522	0.000917598	0.010522832	Bcl2	Mus musculus B-cell leukemia/lymphoma 2 (Bcl2), transcript variant 1, mRNA.
ILMN_2686463	0.243422738	10.2275839	3.197237253	0.008194563	0.043551641	0610010F05Rik	
ILMN_2826264	1.54687127	10.22705059	7.922089666	5.92976E-06	0.000391972	Serinc2	Mus musculus serine incorporator 2 (Serinc2), mRNA.
ILMN_2491419	0.395006139	10.22634772	4.032845304	0.001856354	0.01649929	Kif3b	
ILMN_2437513	0.71690857	10.224197	4.070296457	0.001739562	0.015796532	Tor3a	
ILMN_2995426	0.459841683	10.22370268	3.549279968	0.00435302	0.028750652	Rbm43	Mus musculus RNA binding motif protein 43 (Rbm43), mRNA.
ILMN_2671165	1.871828944	10.22253986	9.019401124	1.64188E-06	0.00019206	Krt1-23	Mus musculus keratin 23 (Krt23), mRNA.
ILMN_1248830	1.125506039	10.22089188	5.586722807	0.000146138	0.003202298	Hist1h2an	Mus musculus histone cluster 1, H2an (Hist1h2an), mRNA.
ILMN_2645845	0.723016768	10.21784596	3.711335322	0.003263261	0.023791997	Spint2	
ILMN_2474858	0.823394077	10.21680606	5.122697143	0.000301496	0.00513307	Tnfaip2	Mus musculus tumor necrosis factor, alpha-induced protein 2 (Tnfaip2), mRNA.
ILMN_2652394	0.623566807	10.20876647	3.693102141	0.003370396	0.02432046	Tceb3	Mus musculus transcription elongation factor B (SIII), polypeptide 3 (Tceb3),

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
							mRNA.
ILMN_1221952	1.177610565	10.20833185	6.049908421	7.31056E-05	0.002040374	Steap	Mus musculus six transmembrane epithelial antigen of the prostate 1 (Steap1), mRNA.
ILMN_2619877	0.809606561	10.20729535	3.698788523	0.003336601	0.024164281	Ap1m2	Mus musculus adaptor protein complex AP-1, mu 2 subunit (Ap1m2), mRNA.
ILMN_1237961	0.666430811	10.20702719	4.150303806	0.00151492	0.014518283	Gnb5	Mus musculus guanine nucleotide binding protein, beta 5 (Gnb5), transcript variant 2, mRNA.
ILMN_2647873	0.987763049	10.20616421	3.71537713	0.003239991	0.023723813	Nav1	
ILMN_2612904	0.513710303	10.20597627	3.291057509	0.006918259	0.039148784	2210417J20Rik	
ILMN_2630646	1.955727407	10.20495798	9.332895514	1.16297E-06	0.000158583	Pappa	
ILMN_2695944	5.308013083	10.2037663	9.686698103	7.96581E-07	0.000135911	Sprr2f	
ILMN_2890238	0.552189586	10.20139716	5.163498659	0.00028255	0.004914357	Ktn1	Mus musculus kinectin 1 (Ktn1), mRNA.
ILMN_2724595	0.406191218	10.20035133	3.592208187	0.004032237	0.027273606	Spata6	
ILMN_2757634	0.587910878	10.19778417	3.332403336	0.006421777	0.037131782	9030611O19Rik	Mus musculus RIKEN cDNA 9030611O19 gene (9030611O19Rik), mRNA.
ILMN_1253294	0.39795674	10.19705003	3.384089566	0.005851754	0.034831728	Ikbkap	
ILMN_2418855	2.475711129	10.1959062	8.576153628	2.71726E-06	0.000252303	Ugt1a6a	Mus musculus UDP glucuronosyltransferase 1 family, polypeptide A6A (Ugt1a6a), mRNA.
ILMN_2777798	0.708981615	10.19362264	7.909774539	6.02021E-06	0.000395758	Ptp4a1	
ILMN_2617468	2.809378368	10.1830785	8.290870598	3.79768E-06	0.000304107	1810008K03Rik	Mus musculus ChaC, cation transport regulator-like 1 (E. coli) (Chac1), mRNA.
ILMN_1244187	0.925536276	10.18275857	5.952217441	8.43948E-05	0.002243954	2310057G13Rik	
ILMN_2452255	0.636159357	10.17877858	3.810325419	0.002739852	0.021214699	Irf2bp2	
ILMN_2598103	1.293757857	10.17725398	7.80900645	6.81842E-06	0.000433888	Emp2	
ILMN_2665535	0.70954858	10.17677735	3.280966565	0.007045249	0.039502061	Spon1	Mus musculus spondin 1, (f-spondin) extracellular matrix protein (Spon1), mRNA.
ILMN_1213524	0.358818406	10.17497046	3.456611008	0.00513771	0.032043108	Ddx39	Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 39 (Ddx39), mRNA.
ILMN_1215791	0.848078901	10.17414834	4.22673205	0.001328423	0.013315828	Alox5ap	
ILMN_2690410	0.310226593	10.17096642	3.310888537	0.006675433	0.03817051	Ruvbl2	
ILMN_1228654	1.138125022	10.17025608	8.916849554	1.84169E-06	0.000205366	2010007E07Rik	
ILMN_2451022	0.788882446	10.17010002	3.118035112	0.00945636	0.047748016	Vim	Mus musculus vimentin (Vim), mRNA.
ILMN_3095257	0.652966879	10.16459202	3.736911357	0.003118859	0.023106535	2410127L17Rik	Mus musculus RIKEN cDNA 2410127L17 gene (2410127L17Rik), mRNA.
ILMN_3009910	1.763874785	10.16352946	3.238061756	0.007612171	0.041581516	Rbm13	Mus musculus RNA binding motif protein 13 (Rbm13), mRNA.
ILMN_2657478	0.646872183	10.16152143	4.349007731	0.001078227	0.011616681	Cd53	
ILMN_1252597	0.408216723	10.16137349	4.288037123	0.001196183	0.012448543	1110033M05Rik	

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ILMN_2974041	0.613349974	10.1597521	5.551847009	0.00015415	0.003305015	Pmm1	Mus musculus phosphomannomutase 1 (Pmm1), mRNA.
ILMN_2882078	0.385319482	10.15972294	3.757067724	0.003009706	0.022598943	Phf13	Mus musculus PHD finger protein 13 (Phf13), mRNA.
ILMN_2505185	1.381189845	10.15819042	9.019714492	1.64131E-06	0.00019206	Sox4	
ILMN_1253634	0.798461286	10.1556347	4.986845144	0.000374856	0.00589274	Amotl1	
ILMN_1213573	0.317219719	10.15450322	3.126055855	0.009320107	0.047280125	5930434B04Rik	
ILMN_2615810	0.431721562	10.153455	3.210540652	0.00799998	0.042954396	Nudt11	
ILMN_2642815	1.754360562	10.15240636	10.42062984	3.75999E-07	8.38548E-05	BC010552	Mus musculus solute carrier family 44, member 3 (Slc44a3), mRNA.
ILMN_2424703	0.441777281	10.15210388	4.876844133	0.000447994	0.006590924	4933426L22Rik	
ILMN_1242619	0.710438392	10.15174763	5.714716568	0.00012032	0.002834339	4931400A14Rik	
ILMN_1259747	0.595415544	10.14681499	3.377445179	0.005922043	0.03514492	9230117N10Rik	Mus musculus interleukin 33 (Il33), mRNA.
ILMN_2489167	0.374128673	10.14585112	3.258055947	0.007342432	0.040633684	Adar	
ILMN_2898319	2.825187245	10.14567727	16.84862153	2.21744E-09	4.40957E-06	Aldh1l2	Mus musculus aldehyde dehydrogenase 1 family, member L2 (Aldh1l2), mRNA.
ILMN_2948465	0.411195813	10.14508649	3.744114813	0.003079389	0.022920606	Dnajc8	Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 8 (Dnajc8), mRNA.
ILMN_1254883	0.299985203	10.14410786	3.088458934	0.009976399	0.049535333	Fip1l1	Mus musculus FIP1 like 1 (S. cerevisiae) (Fip1l1), mRNA.
ILMN_2817714	0.568365484	10.14317814	4.691995947	0.000606726	0.008034041	Tspan17	Mus musculus tetraspanin 17 (Tspan17), mRNA.
ILMN_2789692	2.151482738	10.14274751	7.122996097	1.64217E-05	0.000780311	Wnt7b	Mus musculus wingless-related MMTV integration site 7B (Wnt7b), mRNA.
ILMN_2595282	0.453770453	10.13739027	3.960923787	0.002104021	0.017944333	2600005C20Rik	
ILMN_2543767	0.593650408	10.1368057	4.446378021	0.000914395	0.010515759	Set	
ILMN_2755443	0.507554928	10.13021042	3.491160241	0.00482949	0.030724103	Sh3kbp1	Mus musculus SH3-domain kinase binding protein 1 (Sh3kbp1), mRNA.
ILMN_2747430	0.975369743	10.12918532	3.419810554	0.00548819	0.033455495	Atp7a	Mus musculus ATPase, Cu++ transporting, alpha polypeptide (Atp7a), mRNA.
ILMN_2847144	0.862250579	10.12876113	5.217372978	0.000259439	0.004687324	Hist1h2ak	Mus musculus histone cluster 1, H2ak (Hist1h2ak), mRNA.
ILMN_2698449	0.772112496	10.12635644	4.57795641	0.000733275	0.009136653	Dtr	Mus musculus heparin-binding EGF-like growth factor (Hbegf), mRNA.
ILMN_2548379	0.430826625	10.12264855	3.189695382	0.008306997	0.043846467	2210015K02Rik	
ILMN_1231490	1.184099186	10.117563	10.31027393	4.19747E-07	9.02749E-05	2410006H16Rik	
ILMN_1246108	1.039309668	10.1163425	5.599006784	0.000143423	0.003166049	Hist1h2ah	Mus musculus histone cluster 1, H2ah (Hist1h2ah), mRNA.
ILMN_2640927	0.47080629	10.10941374	5.134848272	0.000295718	0.005069232	Slc23a2	Mus musculus solute carrier family 23 (nucleobase transporters), member 2 (Slc23a2), mRNA.
ILMN_1245757	0.436181487	10.10890341	4.354404412	0.001068389	0.011553686	Nans	Mus musculus N-acetylneuraminic acid synthase (sialic acid synthase) (Nans), mRNA.
ILMN_2727116	1.545239168	10.10780166	10.14534811	4.95696E-07	9.85896E-05	Sox4	
ILMN_2758215	0.364304149	10.10722932	4.131119167	0.001565881	0.014751925	C030027K23Rik	

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_1244819	0.517268343	10.10246641	5.343512847	0.000212795	0.004138491	Spg20	
ILMN_2622146	0.46175751	10.10215715	3.766655289	0.002959176	0.022388969	Pcqap	
ILMN_2680128	0.675821098	10.10124082	4.098090919	0.001657835	0.015291843	3110050K21Rik	
ILMN_3158200	0.354593853	10.10123538	4.131608781	0.001564559	0.014745287	Anapc5	
ILMN_1254374	0.3713537	10.10006267	3.238874949	0.007601007	0.041563433	Fzr1	Mus musculus fizzy/cell division cycle 20 related 1 (Drosophila) (Fzr1), mRNA.
ILMN_2518483	0.49969595	10.09992823	6.290680234	5.16027E-05	0.001613887	Pla2g12a	
ILMN_2735429	2.147551187	10.09673129	12.16918988	7.40337E-08	3.21374E-05	AW146242	Mus musculus expressed sequence AW146242 (AW146242), mRNA.
ILMN_2955452	0.859477319	10.09408103	7.084306717	1.72854E-05	0.000801371	Mapk13	Mus musculus mitogen activated protein kinase 13 (Mapk13), mRNA.
ILMN_1219067	0.752628603	10.09322691	6.515360203	3.75468E-05	0.001339281	A830007P12Rik	Mus musculus RIKEN cDNA A830007P12 gene (A830007P12Rik), mRNA.
ILMN_2677824	1.646911088	10.08926477	12.26171279	6.83225E-08	3.19682E-05	E430021N18Rik	
ILMN_2596396	0.552715948	10.0882041	4.959124974	0.000392014	0.006058698	Grasp	
ILMN_2760211	0.367596889	10.08788685	3.135012372	0.009170298	0.04683879	A330080J22Rik	
ILMN_1245609	0.726103415	10.08308475	3.778301547	0.00289897	0.022101637	Sgpl1	Mus musculus sphingosine phosphate lyase 1 (Sgpl1), mRNA.
ILMN_1250116	1.473051571	10.08304734	8.876178514	1.92805E-06	0.000210087	scl0001849.1_273	
ILMN_2682362	0.393593728	10.08288108	3.94788788	0.002152459	0.018181994	Gemin4	Mus musculus gem (nuclear organelle) associated protein 4 (Gemin4), mRNA.
ILMN_1255342	1.092279209	10.08177435	6.177396668	6.07326E-05	0.001795862	St14	
ILMN_2533300	0.301008658	10.08142386	3.217952301	0.007893611	0.042529969	LOC380626	
ILMN_2658815	1.058956042	10.08125151	4.695917814	0.000602805	0.008017243	Tmem98	Mus musculus transmembrane protein 98 (Tmem98), mRNA.
ILMN_2760043	0.4290206	10.08027214	4.191420969	0.001411424	0.013871834	Fnbp3	
ILMN_2773276	0.605757589	10.07762732	7.118362552	1.65227E-05	0.000782303	Nudt7	
ILMN_2473692	0.63312891	10.07420035	4.461899033	0.000890786	0.010328881	1110059G02Rik	
ILMN_1218866	0.881551206	10.07328264	5.558010073	0.000152701	0.003279843	Sept8	Mus musculus septin 8 (Sept8), mRNA.
ILMN_1253336	0.648353235	10.07069292	3.869344484	0.002469801	0.01989789	AI850995	
ILMN_2846775	2.109154369	10.06897419	14.30468765	1.3133E-08	1.04464E-05	Cdkn1a	Mus musculus cyclin-dependent kinase inhibitor 1A (P21) (Cdkn1a), mRNA.
ILMN_1230912	0.494613375	10.0687284	4.38976481	0.001006202	0.011111059	Phf6	Mus musculus PHD finger protein 6 (Phf6), mRNA.
ILMN_2729103	1.141977761	10.06761163	8.031261635	5.18892E-06	0.000357846	Adamts2	
ILMN_2872537	0.361607751	10.06611778	4.43865398	0.000926386	0.010546926	Nupl1	Mus musculus nucleoporin like 1 (Nupl1), mRNA.
ILMN_1259202	1.314200257	10.064454	6.272072291	5.29959E-05	0.00163629	Muc1	Mus musculus mucin 1, transmembrane (Muc1), mRNA.
ILMN_2435392	0.734391905	10.06276145	5.161622497	0.000283393	0.004915962	Dnase2a	
ILMN_2671923	0.704971951	10.06169924	5.247653293	0.000247334	0.004547098	Ly86	Mus musculus lymphocyte antigen 86 (Ly86), mRNA.
ILMN_2723639	0.484031387	10.05934912	4.34252582	0.001090169	0.011676257	Pacs1	

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2930680	1.02157223	10.05883152	3.164292166	0.008697325	0.045285681	Lrfn3	Mus musculus leucine rich repeat and fibronectin type III domain containing 3 (Lrfn3), mRNA.
ILMN_2830837	0.598042905	10.05624221	5.811128064	0.000104088	0.00260089	2700094F01Rik	Mus musculus RIKEN cDNA 2700094F01 gene (2700094F01Rik), mRNA.
ILMN_3011353	1.346794028	10.05507942	8.45067175	3.14505E-06	0.000276648	Mbp	Mus musculus myelin basic protein (Mbp), transcript variant 8, mRNA.
ILMN_1224079	0.816443917	10.0523617	3.950646894	0.002142112	0.01813925	Wfs1	
ILMN_2765224	0.990835209	10.04747159	5.36461961	0.000205899	0.00405022	Lu	
ILMN_2638781	0.828972889	10.04458147	6.353820689	4.71592E-05	0.001539306	2310057G13Rik	
ILMN_3004386	0.651385399	10.04410238	7.424989336	1.1076E-05	0.000593608	Fzd6	Mus musculus frizzled homolog 6 (Drosophila) (Fzd6), mRNA.
ILMN_1223335	0.453343934	10.04118358	3.271804907	0.007162594	0.039928372	AI604832	Mus musculus transmembrane protein 16K (Tmem16k), mRNA.
ILMN_1234336	0.605948101	10.0411549	6.275648783	5.2725E-05	0.001633375	Csda	
ILMN_2654532	0.449154431	10.03982321	4.868030071	0.000454471	0.006653144	Kifap3	Mus musculus kinesin-associated protein 3 (Kifap3), mRNA.
ILMN_2482672	0.389820247	10.0394083	3.503813555	0.004721397	0.030278609	A230102O09Rik	
ILMN_2596998	1.80054412	10.03801826	12.34563995	6.35528E-08	3.19682E-05	2310010M24Rik	Mus musculus RIKEN cDNA 2310010M24 gene (2310010M24Rik), mRNA.
ILMN_2474378	3.628624577	10.03452278	5.148921971	0.00028917	0.004971522	Ugt1a13	
ILMN_1257327	1.058424588	10.03428489	9.245557124	1.27907E-06	0.000168738	Rod1	
ILMN_2595283	0.463805201	10.02917203	4.190019045	0.001414829	0.013884488	2600005C20Rik	
ILMN_2592620	0.541726048	10.02906228	5.461614432	0.000177117	0.003649862	Rhog	Mus musculus ras homolog gene family, member G (Rhog), mRNA.
ILMN_2804330	0.401653185	10.02656413	4.205370215	0.001378008	0.013684313	Denr	Mus musculus density-regulated protein (Denr), mRNA.
ILMN_2793329	0.681410608	10.02536367	5.725531778	0.000118372	0.002807857	Gstp1	Mus musculus glutathione S-transferase, pi 1 (Gstp1), mRNA.
ILMN_1250814	0.929501501	10.02510239	6.144744145	6.36729E-05	0.001846205	4930550C14Rik	Mus musculus RIKEN cDNA 4930550C14 gene (4930550C14Rik), mRNA.
ILMN_1232621	1.246692795	10.02200066	5.791100136	0.000107258	0.002651355	Ank	Mus musculus progressive ankylosis (Ank), mRNA.
ILMN_2795040	1.051233192	10.02084177	6.493498196	3.87152E-05	0.001368684	Hist1h2ad	Mus musculus histone cluster 1, H2ad (Hist1h2ad), mRNA.
ILMN_2613118	0.394751576	10.0203692	3.204591638	0.008086409	0.043265913	Rfc4	
ILMN_1251504	1.240840531	10.0200291	9.508774912	9.62201E-07	0.000146248	Cyp4v3	
ILMN_2800861	0.284791988	10.01962369	3.285370491	0.006989539	0.039310228	Brpf1	Mus musculus bromodomain and PHD finger containing, 1 (Brpf1), mRNA.
ILMN_2598374	0.599227132	10.01790635	3.994162287	0.001985559	0.017209252	D5Bwg0834e	
ILMN_2819859	0.374313061	10.01669746	3.311594686	0.006666948	0.038170195	Tbc1d2b	Mus musculus TBC1 domain family, member 2B (Tbc1d2b), mRNA.
ILMN_2987685	1.2353607	10.01609559	8.195431485	4.25585E-06	0.000318362	Ctsd	Mus musculus cathepsin D (Ctsd), mRNA.
ILMN_2645872	1.089726128	10.01386332	5.958740027	8.35861E-05	0.002228619	Sim2	
ILMN_2853601	0.292111288	10.01335067	3.230133395	0.007721896	0.041930858	Hs2st1	Mus musculus heparan sulfate 2-O-sulfotransferase 1 (Hs2st1), mRNA.
ILMN_2429437	0.586644084	10.01224295	3.462056657	0.005087824	0.031849618	D5Bwg0834e	
ILMN_2896229	0.37691718	10.00953355	3.36568648	0.006048553	0.035656282	Zfp219	Mus musculus zinc finger protein 219 (Zfp219), mRNA.
ILMN_1225966	0.54765195	10.00861334	4.441759119	0.000921546	0.010531992	Gipc1	Mus musculus GIPC PDZ domain containing family, member 1 (Gipc1),

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							mRNA.
ILMN_2814484	0.63670779	10.00603057	3.220165612	0.007862125	0.042433369	Ifitm1	Mus musculus interferon induced transmembrane protein 1 (Ifitm1), mRNA.
ILMN_2822552	0.972500517	10.00387268	7.444784912	1.07979E-05	0.000589634	Ubtd2	Mus musculus ubiquitin domain containing 2 (Ubtd2), mRNA.
ILMN_2849753	0.366934705	10.003816	4.143269716	0.001533401	0.014627878	Erich1	Mus musculus glutamate-rich 1 (Erich1), mRNA.
ILMN_1220034	1.417143828	9.999165003	5.19146349	0.000270294	0.004807276	Junb	Mus musculus Jun-B oncogene (Junb), mRNA.
ILMN_2665161	0.434201485	9.998954719	3.659413131	0.003577972	0.025230837	Myst2	Mus musculus MYST histone acetyltransferase 2 (Myst2), mRNA.
ILMN_2622804	0.764081099	9.998602892	5.805835353	0.000104916	0.002616776	Sh3bgrl2	
ILMN_1240539	0.890966132	9.996892013	4.071181132	0.001736897	0.015794443	Tacstd1	
ILMN_2606162	0.628792149	9.996498363	3.986259026	0.002013085	0.01738626	Pdlim4	Mus musculus PDZ and LIM domain 4 (Pdlim4), mRNA.
ILMN_2740890	0.77344755	9.996110238	5.016272283	0.000357504	0.00572174	5430432M24Rik	Mus musculus RIKEN cDNA 5430432M24 gene (5430432M24Rik), transcript variant 2, mRNA.
ILMN_2550095	0.486286408	9.995191724	3.140434591	0.009080789	0.046521013	6230425C21Rik	
ILMN_2817021	0.355411644	9.992518737	3.882748302	0.002412398	0.019620676	Alg10b	Mus musculus asparagine-linked glycosylation 10 homolog B (yeast, alpha-1,2-glucosyltransferase) (Alg10b), mRNA. XM_922905
ILMN_2509830	0.300845611	9.991909263	3.971171741	0.002066735	0.017703244	A730063M14Rik	
ILMN_2687828	0.36923533	9.990104258	3.223832767	0.007810237	0.042254662	Arid3a	
ILMN_3158698	0.591571985	9.989480707	4.033676682	0.001853675	0.01649929	BC046404	Mus musculus cDNA sequence BC046404 (BC046404), mRNA.
ILMN_2996988	2.922257683	9.981941932	3.193744964	0.008246434	0.04368771	EG433180	Mus musculus predicted gene, EG433180 (EG433180), mRNA.
ILMN_2667033	0.670372502	9.978703092	6.422143908	4.28068E-05	0.001448934	BC003332	Mus musculus ZXD family zinc finger C (Zxdc), transcript variant 2, mRNA.
ILMN_3151149	1.414486051	9.972097061	5.593288888	0.00014468	0.003184413	Cpne8	Mus musculus copine VIII (Cpne8), transcript variant 2, mRNA.
ILMN_2674979	0.945437335	9.970591452	3.462469043	0.005084066	0.031834447	Fus	
ILMN_1230623	0.576847507	9.969758467	3.368056457	0.006022835	0.035566177	Rbbp4	
ILMN_2621448	4.005678569	9.96837779	27.22092059	1.0909E-11	2.60321E-07	Adh7	Mus musculus alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide (Adh7), mRNA.
ILMN_2660862	0.74560319	9.968077753	4.506551177	0.000826359	0.00990654	Sepn1	
ILMN_1214521	1.266350353	9.966992923	7.769540455	7.16138E-06	0.000449778	LOC218482	
ILMN_1249815	1.229065499	9.964502957	8.761155904	2.19678E-06	0.000224732	Arbp	Mus musculus acidic ribosomal phosphoprotein P0 (Arbp), mRNA.
ILMN_2866267	1.225860673	9.963897085	7.426595186	1.10532E-05	0.000593608	F2rl1	Mus musculus coagulation factor II (thrombin) receptor-like 1 (F2rl1), mRNA.
ILMN_2742075	1.215006426	9.962058902	8.999101819	1.6795E-06	0.000195502	Cd14	
ILMN_2596560	1.050905341	9.9616907	5.885457802	9.31675E-05	0.002435111	Rpel1	
ILMN_2611027	0.62270018	9.960568853	6.154126423	6.28128E-05	0.001830162	Pmm1	Mus musculus phosphomannomutase 1 (Pmm1), mRNA.
ILMN_2663130	0.952537288	9.958475844	4.938801205	0.000405119	0.006193049	P2ry6	
ILMN_2968032	0.383561405	9.957100073	3.453079042	0.005170332	0.032180393	2010003J03Rik	Mus musculus RIKEN cDNA 2010003J03 gene (2010003J03Rik), mRNA.

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2701815	0.497539221	9.955372324	4.041497626	0.001828667	0.016368149	Plxna2	
ILMN_2710604	0.564604774	9.955097147	3.697029394	0.003347018	0.024202999	Dbnl	
ILMN_2694153	0.413997731	9.954371607	3.37286041	0.005971046	0.035365371	Ddef1	
ILMN_1247054	0.518415171	9.95163004	6.188566224	5.97602E-05	0.001773684	Clasp1	
ILMN_1226114	0.654636179	9.950771212	3.278377406	0.007078212	0.039633838	Myh10	
ILMN_2715585	0.500510799	9.950162376	3.438965874	0.005302812	0.032740232	Cyp20a1	
ILMN_2628567	2.498397585	9.948883907	11.10867163	1.93332E-07	5.42763E-05	Phlda3	Mus musculus pleckstrin homology-like domain, family A, member 3 (Phlda3), mRNA.
ILMN_2770609	1.531109173	9.946592956	9.709084064	7.78025E-07	0.000135518	Ier5l	
ILMN_2770917	0.625570803	9.946276971	7.335803089	1.24278E-05	0.000647523	Blvrb	
ILMN_2698115	0.391155214	9.945998543	4.414867748	0.000964358	0.010824058	2610020N02Rik	Mus musculus LTV1 homolog (S. cerevisiae) (Ltv1), mRNA.
ILMN_3091003	1.490052075	9.943030229	8.179923985	4.33575E-06	0.000323325	Ms4a7	
ILMN_2702016	0.441469873	9.942498179	3.510240731	0.004667444	0.030086229	2010011I20Rik	Mus musculus RIKEN cDNA 2010011I20 gene (2010011I20Rik), mRNA.
ILMN_2837671	0.720201346	9.942283316	3.839987037	0.002600513	0.020555509	Fblim1	Mus musculus filamin binding LIM protein 1 (Fblim1), mRNA.
ILMN_1242779	0.331650205	9.938478123	3.162347139	0.008727966	0.04536603	Gnb1l	
ILMN_2609412	0.719359785	9.937498113	7.577306391	9.11841E-06	0.000532011	Pip5k1b	
ILMN_1226819	0.585073521	9.935315066	4.562584153	0.000752342	0.009282907	Tapbp	
ILMN_2534207	0.60700617	9.935249619	4.248452923	0.001279907	0.012977224	LOC380706	
ILMN_1253387	1.866447074	9.927408628	10.7177643	2.80888E-07	7.05562E-05	Klf5	
ILMN_2515349	0.261116613	9.927233254	3.675589901	0.003476705	0.024804605	Zfp64	Mus musculus zinc finger protein 64 (Zfp64), mRNA.
ILMN_1219712	0.557559742	9.927002581	4.380802215	0.001021597	0.011213607	Ctps	Mus musculus cytidine 5'-triphosphate synthase (Ctps), mRNA.
ILMN_2685581	2.042910952	9.925053892	3.445977488	0.005236566	0.032449588	H2-Q5	Mus musculus histocompatibility 2, Q region locus 5 (H2-Q5), mRNA.
ILMN_2629648	0.766198826	9.924916287	7.214366043	1.456E-05	0.000724212	2410002F23Rik	Mus musculus RIKEN cDNA 2410002F23 gene (2410002F23Rik), mRNA.
ILMN_2746456	0.840479109	9.924685526	8.100803544	4.76929E-06	0.000341439	Tcirg1	Mus musculus T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 protein A3 (Tcirg1), mRNA.
ILMN_2743143	0.488560373	9.924446588	3.480660842	0.004921103	0.031150013	D630013G24Rik	
ILMN_2731454	1.050315269	9.923946835	7.335953104	1.24254E-05	0.000647523	Evl	Mus musculus Ena-vasodilator stimulated phosphoprotein (Evl), mRNA. XM_923143
ILMN_2447875	0.859487166	9.920218775	5.765704836	0.000111425	0.002699418	6330509M05Rik	
ILMN_2750089	0.933878591	9.915613322	5.420827751	0.000188664	0.003799223	Slc38a3	Mus musculus solute carrier family 38, member 3 (Slc38a3), mRNA.
ILMN_1257070	1.263727278	9.915478825	8.810019823	2.07799E-06	0.000218445	Tcfcp2l3	
ILMN_2786442	1.443413274	9.9076016	7.517032206	9.84467E-06	0.000555374	Ptges	Mus musculus prostaglandin E synthase (Ptges), mRNA.
ILMN_2830520	0.692653959	9.900650929	4.063073648	0.001761477	0.01590712	LOC224833	Mus musculus expressed sequence AI661453 (AI661453), mRNA.
ILMN_2655577	0.554264186	9.896767634	4.967824223	0.000386542	0.006006263	Pold1	Mus musculus polymerase (DNA directed), delta 1, catalytic subunit (Pold1),

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							mRNA.
ILMN_1260448	1.362386659	9.896318542	13.65443883	2.16699E-08	1.61596E-05	Plk2	Mus musculus polo-like kinase 2 (Drosophila) (Plk2), mRNA.
ILMN_2611699	0.289311198	9.89486046	3.413642938	0.005549276	0.033695261	Jmjd1b	
ILMN_2629748	0.334139073	9.894752244	3.390025648	0.005789677	0.034635009	Dhx9	Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 9 (Dhx9), mRNA.
ILMN_1234419	0.970315177	9.893470001	5.448164651	0.00018084	0.003707365	Bag2	
ILMN_2672458	0.448325679	9.892107643	3.358220676	0.006130303	0.035898753	Gnb5	Mus musculus guanine nucleotide binding protein, beta 5 (Gnb5), transcript variant 1, mRNA.
ILMN_2681824	0.536295656	9.891635522	5.826690837	0.000101694	0.002559829	Fbxw7	
ILMN_2926198	0.956270407	9.883851551	6.352939148	4.72184E-05	0.001539306	2310016C08Rik	Mus musculus RIKEN cDNA 2310016C08 gene (2310016C08Rik), mRNA.
ILMN_2703698	1.172824073	9.88347427	6.005260123	7.80518E-05	0.002138404	Tdrkh	
ILMN_2675669	0.553551882	9.88346452	3.504316129	0.004717156	0.030259538	Cd72	Mus musculus CD72 antigen (Cd72), mRNA.
ILMN_2739562	0.539638629	9.883250869	3.131528811	0.009228274	0.047024193	Cntf	
ILMN_2729958	0.618968687	9.883009944	5.380319896	0.000200923	0.003982251	Hist1h3d	
ILMN_1247592	0.55619228	9.877313313	4.332848015	0.001108256	0.011811667	Casp1	
ILMN_1227008	0.729734369	9.873495192	5.519633231	0.000161964	0.003420295	Csnk2a2	
ILMN_3144575	1.567032728	9.872705253	7.291967051	1.31562E-05	0.000673703	Itgb4	Mus musculus integrin beta 4 (Itgb4), transcript variant 2, mRNA.
ILMN_1214353	1.051680774	9.869214671	9.221459069	1.31326E-06	0.000171392	Ifrd1	
ILMN_2737982	0.521847096	9.868935941	3.664456957	0.003546076	0.025117251	Dapk1	
ILMN_3105499	0.479019721	9.865091829	3.278924821	0.00707123	0.039610507	Dlgap4	Mus musculus discs, large homolog-associated protein 4 (Drosophila) (Dlgap4), transcript variant 2, mRNA.
ILMN_1242170	1.328550435	9.860894887	8.530136499	2.86639E-06	0.000262999	Adra2a	
ILMN_1235493	0.571823406	9.860848825	4.086787666	0.001690579	0.015495902	Fxyd5	Mus musculus FXYD domain-containing ion transport regulator 5 (Fxyd5), mRNA.
ILMN_2742849	0.909892425	9.860126796	6.750058986	2.71275E-05	0.001084217	Mcm5	
ILMN_2654997	1.695716445	9.857762733	6.296123385	5.12026E-05	0.001609713	5730453H04Rik	
ILMN_2667091	1.03915916	9.855918749	4.377135121	0.001027967	0.011257635	Ppp1r3c	Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 3C (Ppp1r3c), mRNA.
ILMN_1224110	0.721679388	9.848712528	4.691070378	0.000607655	0.008034041	Bst2	Mus musculus bone marrow stromal cell antigen 2 (Bst2), mRNA.
ILMN_3006123	2.316408923	9.846890744	8.835143339	2.01962E-06	0.000215153	Asns	Mus musculus asparagine synthetase (Asns), mRNA.
ILMN_1259252	1.217577967	9.845615845	8.219113383	4.13687E-06	0.000317422	Anxa1	
ILMN_1253182	1.441703987	9.844370105	8.629443142	2.55492E-06	0.000242488	Hs3st1	Mus musculus heparan sulfate (glucosamine) 3-O-sulfotransferase 1 (Hs3st1), mRNA.
ILMN_2422360	1.530886397	9.843267832	10.08579866	5.26661E-07	0.000103014	1110036D12Rik	
ILMN_1233361	0.349490312	9.84026487	4.001722228	0.001959594	0.01707881	LOC382736	

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ILMN_2766755	1.493530217	9.837692765	11.13688553	1.8827E-07	5.40926E-05	1700012H17Rik	
ILMN_1223875	0.705031553	9.836004253	4.027425211	0.001873919	0.016556916	Rasd2	
ILMN_1240598	0.834011728	9.835938028	5.17088111	0.000279259	0.004878443	BC034054	
ILMN_2821460	0.589831946	9.83570042	4.748729149	0.00055252	0.007604864	Ptpn18	Mus musculus protein tyrosine phosphatase, non-receptor type 18 (Ptpn18), mRNA.
ILMN_2674324	0.302397587	9.834921855	3.210054335	0.00800701	0.042956674	Thop1	Mus musculus thimet oligopeptidase 1 (Thop1), mRNA.
ILMN_2512463	1.313773706	9.83441591	7.009121871	1.91062E-05	0.000841411	2610016A17Rik	
ILMN_2623280	0.837855489	9.825924283	4.87528168	0.000449135	0.006595513	Osmr	Mus musculus oncostatin M receptor (Osmr), mRNA.
ILMN_2778872	0.786658691	9.825713082	5.72381138	0.000118679	0.002812358	Mad2l1	Mus musculus MAD2 (mitotic arrest deficient, homolog)-like 1 (yeast) (Mad2l1), mRNA.
ILMN_2785353	0.682868006	9.825393966	5.440838515	0.000182902	0.003727234	Il17rc	Mus musculus interleukin 17 receptor C (Il17rc), mRNA.
ILMN_2614912	0.607990551	9.825079724	3.487578816	0.004860542	0.030864052	Hdac11	
ILMN_2594344	0.424513329	9.823506993	3.979723988	0.002036144	0.017534644	Nedd4	
ILMN_1239430	1.881037858	9.822085886	11.8529731	9.78031E-08	3.59956E-05	Mrc1	Mus musculus mannose receptor, C type 1 (Mrc1), mRNA.
ILMN_1214120	0.533649343	9.820551249	5.090639712	0.000317321	0.0053064	1500005N04Rik	
ILMN_2422239	0.273251589	9.818262374	3.413994777	0.005545773	0.03368256	Rnf121	
ILMN_2769945	0.494239611	9.816725812	4.056425987	0.001781901	0.01605946	BC014795	
ILMN_2678218	1.287666677	9.815866361	6.466856796	4.01918E-05	0.001399498	Mmp2	
ILMN_1232537	1.556745128	9.813305184	7.700520432	7.80648E-06	0.000477657	Arl4c	Mus musculus ADP-ribosylation factor-like 4C (Arl4c), mRNA.
ILMN_2416791	0.373057981	9.811841801	3.268590455	0.007204235	0.040064007	Spg20	
ILMN_1212692	0.787473318	9.806909239	5.902599967	9.08261E-05	0.00238436	Mapk13	Mus musculus mitogen activated protein kinase 13 (Mapk13), mRNA.
ILMN_2657734	0.414417482	9.803610382	3.589039394	0.004055065	0.027335032	Ddx46	
ILMN_2657432	0.383309047	9.800732507	3.777250224	0.002904353	0.022124614	Bpy2ip1	Mus musculus microtubule-associated protein 1S (Mtap1s), mRNA.
ILMN_1228913	0.552508789	9.800438944	4.054139291	0.001788983	0.016094889	Zc3hdc1	Mus musculus poly (ADP-ribose) polymerase family, member 12 (Parp12), mRNA.
ILMN_1231048	1.310142721	9.798588403	6.507134733	3.79819E-05	0.00134675	2310042N02Rik	Mus musculus transmembrane protein 79 (Tmem79), mRNA.
ILMN_2665095	0.798846604	9.798120457	4.398334834	0.000991707	0.010999923	D4Ertd432e	
ILMN_1214412	0.501553117	9.796899618	3.090108263	0.009946653	0.049449373	Antxr2	
ILMN_3140071	1.394448457	9.796499195	3.628058049	0.003782984	0.0262728	Rtn4	Mus musculus reticulon 4 (Rtn4), transcript variant 1, mRNA.
ILMN_3065164	1.032980493	9.793411777	6.195500539	5.91649E-05	0.001765328	Bex2	Mus musculus brain expressed X-linked 2 (Bex2), mRNA.
ILMN_2623793	0.853714985	9.790876132	5.475478131	0.000173364	0.003606439	Atbf1	
ILMN_2762318	0.797695544	9.786369788	4.163931173	0.00147977	0.014278916	Ap1m2	Mus musculus adaptor protein complex AP-1, mu 2 subunit (Ap1m2), mRNA.
ILMN_2907878	0.437975763	9.781724044	4.095436771	0.001665464	0.015321116	H2afx	Mus musculus H2A histone family, member X (H2afx), mRNA.

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ILMN_2517041	1.659528316	9.779528368	13.05863225	3.49487E-08	2.31661E-05	Uhrf1	Mus musculus ubiquitin-like, containing PHD and RING finger domains, 1 (Uhrf1), mRNA.
ILMN_2937674	0.430413856	9.778452823	3.098791544	0.00979152	0.048932724	Gse1	Mus musculus genetic suppressor element 1 (Gse1), mRNA.
ILMN_2904321	0.912158961	9.774421595	5.779031266	0.000109217	0.002678564	Akt3	Mus musculus thymoma viral proto-oncogene 3 (Akt3), mRNA.
ILMN_2434235	0.393541227	9.773401436	3.337750001	0.006360277	0.036909741	2810468K05Rik	
ILMN_1221243	1.570887263	9.770466643	12.81558071	4.27099E-08	2.65869E-05	Rhobtb3	Mus musculus Rho-related BTB domain containing 3 (Rhobtb3), mRNA.
ILMN_1215755	0.498838613	9.769839325	4.148238081	0.001520323	0.014558374	Grwd1	Mus musculus glutamate-rich WD repeat containing 1 (Grwd1), mRNA.
ILMN_1255564	0.441051191	9.768264593	4.140363154	0.001541107	0.014649361	1200009F10Rik	
ILMN_2712900	1.070519996	9.766985906	8.031419598	5.18792E-06	0.000357846	Sars1	
ILMN_2576590	1.444921195	9.761460319	9.315618958	1.185E-06	0.000159761	Ddx26	
ILMN_2722938	0.876292912	9.756013533	5.90500325	9.05029E-05	0.002381113	Myd116	Mus musculus myeloid differentiation primary response gene 116 (Myd116), mRNA.
ILMN_2977624	0.675198645	9.754844029	5.912014633	8.95668E-05	0.002366925	Rrm1	Mus musculus ribonucleotide reductase M1 (Rrm1), mRNA.
ILMN_2667618	0.395618407	9.752671723	3.629222388	0.003775159	0.026241369	Copg2	
ILMN_3002505	0.437032258	9.752011791	3.887078478	0.00239415	0.019505501	Abhd8	Mus musculus abhydrolase domain containing 8 (Abhd8), mRNA.
ILMN_2753604	0.967593027	9.750729046	6.73594381	2.76574E-05	0.001094763	2810404F18Rik	Mus musculus CDC42 small effector 2 (Cdc42se2), mRNA.
ILMN_1242221	0.487668396	9.742767937	4.183131962	0.00143168	0.013973075	Ppp1r14b	
ILMN_2798340	0.540097458	9.74095975	4.61955621	0.000684173	0.008749423	Tmem63a	Mus musculus transmembrane protein 63a (Tmem63a), mRNA.
ILMN_3091574	0.705452519	9.739931475	6.327914572	4.89309E-05	0.001572228	Olfm1	Mus musculus olfactomedin 1 (Olfm1), transcript variant 2, mRNA.
ILMN_2950286	1.7380973	9.738986691	6.463145351	4.04023E-05	0.00140179	Ankrd1	Mus musculus ankyrin repeat domain 1 (cardiac muscle) (Ankrd1), mRNA.
ILMN_2738082	3.305401853	9.738578667	4.165439245	0.001475933	0.014253416	Acdc	
ILMN_2454204	1.630096216	9.737850365	9.461507569	1.0122E-06	0.000147281	Tnfrsf22	
ILMN_2721982	0.466712273	9.735932528	3.913091213	0.002287494	0.018940485	Tcfe3	Mus musculus transcription factor E3 (Tcfe3), mRNA.
ILMN_2756665	1.637864661	9.735422084	4.716360658	0.000582792	0.007843862	Cbr2	Mus musculus carbonyl reductase 2 (Cbr2), mRNA.
ILMN_3099398	1.002572311	9.734577958	7.259595154	1.37233E-05	0.000693704	Rbpms	Mus musculus RNA binding protein gene with multiple splicing (Rbpms), transcript variant 3, mRNA.
ILMN_2898878	0.592442354	9.733433493	3.087478909	0.009994116	0.049602661	Pdcd4	Mus musculus programmed cell death 4 (Pdcd4), mRNA.
ILMN_2669714	0.783989459	9.732141783	4.716807239	0.000582363	0.007842507	Pltp	
ILMN_3159730	0.765492188	9.730780849	6.453073071	4.09793E-05	0.001413134	Pabpc4	
ILMN_2774267	0.411405586	9.729215338	3.895245788	0.00236012	0.019315382	6330583M11Rik	
ILMN_2702303	1.232534053	9.729180802	3.841299656	0.002594518	0.020534989	Ch25h	Mus musculus cholesterol 25-hydroxylase (Ch25h), mRNA.
ILMN_3162820	1.211468353	9.728726223	3.270356249	0.00718133	0.039992551	Odz4	
ILMN_2430422	0.983427341	9.727914517	6.700133533	2.9052E-05	0.001127267	Gpi1	
ILMN_1215331	0.402201328	9.726353254	4.421268778	0.000953983	0.01075146	Dicer1	

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ILMN_1248854	0.414535168	9.724359154	3.922591726	0.002249777	0.018754327	Ick	Mus musculus intestinal cell kinase (Ick), mRNA.
ILMN_2699645	1.338450553	9.723383377	3.481943604	0.004909815	0.031110706	Rtn4	Mus musculus reticulon 4 (Rtn4), transcript variant 1, mRNA.
ILMN_1239055	0.571613339	9.721997599	3.366152724	0.006043485	0.035635207	Xdh	
ILMN_1220293	1.444900586	9.721420397	8.077083123	4.90817E-06	0.000344482	Gpc6	
ILMN_2712490	0.295915782	9.72064909	3.105492832	0.009673466	0.048515747	3632431M01Rik	
ILMN_2974611	0.391097364	9.719463034	3.092831758	0.009897731	0.049258089	Tapbpl	Mus musculus TAP binding protein-like (Tapbpl), mRNA.
ILMN_1253323	0.836351851	9.718056298	6.377097653	4.56256E-05	0.001505898	D5Wsu178e	
ILMN_2650603	0.967939342	9.715944335	5.041035922	0.000343558	0.005565737	Irx5	Mus musculus Iroquois related homeobox 5 (Drosophila) (Irx5), mRNA.
ILMN_2830686	0.667186511	9.714485518	3.848370618	0.002562472	0.020369177	Nfrkb	Mus musculus nuclear factor related to kappa B binding protein (Nfrkb), mRNA.
ILMN_1250779	0.523052607	9.714047349	3.85168329	0.0025476	0.020294392	5730543M03Rik	
ILMN_2625940	2.655810497	9.712213472	14.7372046	9.51882E-09	9.0859E-06	Neurl	
ILMN_1239627	0.514124743	9.710422553	3.554465337	0.004312921	0.028533195	4631426J05Rik	
ILMN_2757966	2.119146424	9.710091345	12.79489537	4.34518E-08	2.65869E-05	Cxcl4	Mus musculus chemokine (C-X-C motif) ligand 4 (Cxcl4), mRNA.
ILMN_1247267	0.758057834	9.707546963	6.320470458	4.9453E-05	0.001579783	Smox	Mus musculus spermine oxidase (Smox), mRNA.
ILMN_2699637	0.597558088	9.706144378	3.760573977	0.002991124	0.022505515	Lisch7	Mus musculus lipolysis stimulated lipoprotein receptor (Lsr), mRNA.
ILMN_2732336	0.556812797	9.705642039	3.872885157	0.002454502	0.019877934	0610010I15Rik	
ILMN_2656645	0.956503521	9.702956358	4.552940519	0.000764568	0.00938041	AA536743	
ILMN_3109360	0.977152029	9.702172436	6.287169638	5.18625E-05	0.00161989	Plec1	Mus musculus plectin 1 (Plec1), transcript variant 11, mRNA.
ILMN_2965641	0.920587656	9.698903158	7.793332219	6.95247E-06	0.000440042	2410002F23Rik	Mus musculus RIKEN cDNA 2410002F23 gene (2410002F23Rik), mRNA.
ILMN_1233127	0.380292877	9.698244076	3.18232148	0.008418437	0.044297502	AI316802	
ILMN_2812900	1.180236512	9.697849636	9.391515825	1.09144E-06	0.000155031	Bmpr1b	Mus musculus bone morphogenetic protein receptor, type 1B (Bmpr1b), mRNA.
ILMN_2697057	0.497658423	9.697236257	4.237355973	0.001304458	0.01314539	Dlgh1	Mus musculus discs, large homolog 1 (Drosophila) (Dlg1), mRNA.
ILMN_2804487	0.649984802	9.690133135	5.045640142	0.000341029	0.005543584	Aif1	Mus musculus allograft inflammatory factor 1 (Aif1), mRNA.
ILMN_2704134	1.485889326	9.686983605	8.432845891	3.21148E-06	0.000277665	BC025575	
ILMN_2790181	1.262371894	9.683968711	4.715067597	0.000584037	0.007856187	Phgdh	Mus musculus 3-phosphoglycerate dehydrogenase (Phgdh), mRNA.
ILMN_1215446	3.291308676	9.682955224	4.168360923	0.001468528	0.014199145	Cidea	Mus musculus cell death-inducing DNA fragmentation factor, alpha subunit-like effector A (Cidea), mRNA.
ILMN_2671253	1.041810123	9.680487235	9.612817142	8.61286E-07	0.000140773	Gspt2	
ILMN_2743837	0.4055391	9.679871339	4.73056226	0.000569301	0.007736464	Prnpip1	Mus musculus prion protein interacting protein 1 (Prnpip1), mRNA.
ILMN_2748402	0.976623955	9.676453647	5.342734007	0.000213054	0.004140156	Col5a1	Mus musculus procollagen, type V, alpha 1 (Col5a1), mRNA.
ILMN_2728270	1.488441944	9.675811071	7.512176879	9.90581E-06	0.000556194	Galgt1	
ILMN_2689998	1.332535429	9.674195457	8.32106356	3.66401E-06	0.000299553	Fjx1	

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ILMN_1233864	1.164613025	9.673551523	9.471492599	1.00141E-06	0.000147281	Ptgs1	
ILMN_2620166	0.40795877	9.671738533	3.96266243	0.002097646	0.01791558	Prpsap1	
ILMN_1226652	0.267174955	9.669558176	3.394389122	0.005744474	0.034508333	AW413632	
ILMN_2970691	0.549648216	9.667452537	3.380449376	0.005890157	0.034999205	Ppie	Mus musculus peptidylprolyl isomerase E (cyclophilin E) (Ppie), mRNA.
ILMN_2588337	0.466148258	9.66569305	3.849738334	0.002556321	0.020333827	D930015E06Rik	Mus musculus RIKEN cDNA D930015E06 gene (D930015E06Rik), mRNA.
ILMN_1212938	0.57506889	9.664391387	3.383504814	0.005857905	0.03485965	Aif1	Mus musculus allograft inflammatory factor 1 (Aif1), mRNA.
ILMN_1222356	0.479199457	9.663027984	4.618889667	0.000684932	0.008754437	1110067D22Rik	
ILMN_2596056	0.48012271	9.66252636	3.511601352	0.004656104	0.030029351	BC024969	
ILMN_1255254	1.571215043	9.661468433	8.162693194	4.42642E-06	0.000328036	Serinc2	Mus musculus serine incorporator 2 (Serinc2), mRNA.
ILMN_2777722	0.636158768	9.658178263	5.320239671	0.000220683	0.004229846	Jarid1b	
ILMN_1222111	0.760708774	9.65732911	3.51358536	0.004639618	0.029947307	Col15a1	Mus musculus procollagen, type XV (Col15a1), mRNA.
ILMN_2860501	0.537623194	9.653071912	3.607117649	0.003926589	0.026898871	Lrrc49	Mus musculus leucine rich repeat containing 49 (Lrrc49), mRNA.
ILMN_2730329	1.059948547	9.651749337	6.740163417	2.74978E-05	0.001091815	Hist1h2ah	Mus musculus histone cluster 1, H2ah (Hist1h2ah), mRNA.
ILMN_2907370	0.752736029	9.651487108	8.251920569	3.97792E-06	0.000310746	Optn	Mus musculus optineurin (Optn), mRNA.
ILMN_2726931	1.057350052	9.650038747	6.867571455	2.3115E-05	0.000975046	Blnk	
ILMN_2733524	1.055446098	9.644343892	7.07388735	1.75263E-05	0.000804858	Nrm	Mus musculus nurim (nuclear envelope membrane protein) (Nrm), mRNA.
ILMN_2687403	1.451032248	9.643130568	7.991009034	5.4498E-06	0.00036841	Fcgr3	
ILMN_3096144	0.728379654	9.64247292	7.673739637	8.07335E-06	0.0004862	Stat3	
ILMN_1246340	0.483652886	9.642201529	4.736447383	0.000563807	0.007688071	9330185J12Rik	
ILMN_1217353	0.539994463	9.641384239	5.191847426	0.00027013	0.004807276	Rfx2	Mus musculus regulatory factor X, 2 (influences HLA class II expression) (Rfx2), mRNA.
ILMN_2637714	0.629493128	9.639469797	4.856498505	0.000463095	0.00673921	Rasa3	
ILMN_1254924	0.637149906	9.638336272	6.012038283	7.72785E-05	0.002124156	Gipc1	Mus musculus GIPC PDZ domain containing family, member 1 (Gipc1), mRNA.
ILMN_2883952	0.886343081	9.637756447	4.789409628	0.000516799	0.007245815	1810015A11Rik	Mus musculus RIKEN cDNA 1810015A11 gene (1810015A11Rik), mRNA.
ILMN_2867147	0.701917098	9.632646784	4.249018455	0.001278669	0.012973159	Tyrobp	Mus musculus TYRO protein tyrosine kinase binding protein (Tyrobp), mRNA.
ILMN_3138685	0.874767895	9.632326464	8.422554503	3.25051E-06	0.000279018	Gsta3	
ILMN_2653462	0.953082018	9.629477501	5.462735846	0.00017681	0.003646691	Efemp1	Mus musculus epidermal growth factor-containing fibulin-like extracellular matrix protein 1 (Efemp1), mRNA.
ILMN_2648376	0.403232178	9.628285088	3.341447705	0.006318095	0.036715203	Kpna2	
ILMN_1244829	1.711613126	9.627765719	10.48591493	3.52456E-07	8.08716E-05	Hap1	
ILMN_2752873	0.631132287	9.626764539	3.860555696	0.002508204	0.020125514	Lgals9	Mus musculus lectin, galactose binding, soluble 9 (Lgals9), mRNA.
ILMN_2419998	0.423066577	9.625400554	3.396305965	0.005724731	0.034427733	8430426K15Rik	

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ILMN_2441501	0.534234647	9.624933549	3.208595019	0.008028143	0.043012842	Clstn1	
ILMN_1235435	2.550484523	9.623697473	3.773904184	0.002921553	0.022178317	LOC235979	
ILMN_1223552	0.742573638	9.623373923	5.970592317	8.21375E-05	0.002202495	Fbn1	
ILMN_1237917	0.542374376	9.619411964	4.116058723	0.001607135	0.014975036	Sparcl1	Mus musculus SPARC-like 1 (mast9, hevin) (Sparcl1), mRNA.
ILMN_2735438	0.336565182	9.615188496	4.231420102	0.001317792	0.013240616	Wdr77	Mus musculus WD repeat domain 77 (Wdr77), mRNA.
ILMN_3153869	0.511500496	9.614251777	6.259773857	5.39386E-05	0.001650175	Ubap2l	Mus musculus ubiquitin associated protein 2-like (Ubap2l), transcript variant 1, mRNA.
ILMN_1260372	0.74185502	9.613006037	4.403557484	0.000982982	0.010940713	Pald	Mus musculus cDNA sequence X99384 (X99384), mRNA.
ILMN_2838317	1.711902256	9.610568289	8.971372629	1.73239E-06	0.000197799	Pqlc3	Mus musculus PQ loop repeat containing (Pqlc3), mRNA.
ILMN_1213439	0.813020638	9.608902921	5.293805862	0.000230019	0.00435346	Atbf1	
ILMN_1239592	1.357022801	9.606564478	7.731315172	7.51127E-06	0.000461962	1700012H17Rik	
ILMN_2692072	0.979426402	9.596173333	4.894481459	0.000435323	0.006492565	Elf3	Mus musculus E74-like factor 3 (Elf3), mRNA.
ILMN_1226099	1.067985823	9.594841423	5.749143978	0.000114235	0.002753515	Tnfsf13b	
ILMN_1244526	0.944765715	9.589435057	6.38903813	4.48597E-05	0.001495092	Blnk	
ILMN_2604189	1.45124639	9.588755077	13.06938052	3.46427E-08	2.31661E-05	Avpr2	Mus musculus arginine vasopressin receptor 2 (Avpr2), mRNA.
ILMN_2789077	0.434276056	9.585894942	5.273400651	0.000237511	0.004441785	Itgb1	Mus musculus integrin beta 1 (fibronectin receptor beta) (Itgb1), mRNA.
ILMN_2507286	1.134756546	9.584626396	5.564530148	0.000151184	0.003263547	Tnfsf13b	
ILMN_2548974	0.43753366	9.584423099	4.32869359	0.001116117	0.011853091	Chic2	
ILMN_2513173	1.359353979	9.584399076	8.228104826	4.09264E-06	0.000315041	2810026P18Rik	
ILMN_2733733	1.002392956	9.582888336	4.477208003	0.000868125	0.010169888	Tlr2	Mus musculus toll-like receptor 2 (Tlr2), mRNA.
ILMN_2907721	0.488941067	9.582724196	3.951307193	0.002139643	0.01813794	Tmem17	Mus musculus transmembrane protein 17 (Tmem17), mRNA.
ILMN_2734646	0.638707357	9.581499929	6.048121217	7.32971E-05	0.002040943	Stim1	Mus musculus stromal interaction molecule 1 (Stim1), mRNA.
ILMN_2544305	1.031386962	9.579908467	9.569770856	9.01582E-07	0.000143201	Nnmt	
ILMN_2955919	0.964660388	9.577284185	8.241645387	4.02698E-06	0.00031119	Mcam	Mus musculus melanoma cell adhesion molecule (Mcam), mRNA.
ILMN_2768755	1.117781877	9.576967547	4.411037974	0.000970623	0.010846781	Hdac7a	Mus musculus histone deacetylase 7A (Hdac7a), mRNA. XM_001003311 XM_001003316 XM_001004168 XM_001004172 XM_001004178 XM_001004180 XM_001004182 XM_001004187 XM_001004194 XM_001004198
ILMN_2757125	1.473638498	9.574514026	8.635581006	2.53691E-06	0.000242488	Prc1	Mus musculus protein regulator of cytokinesis 1 (Prc1), mRNA.
ILMN_1217428	0.357765013	9.57081716	3.428726355	0.005401097	0.033141263	LOC233053	
ILMN_2925008	0.700048073	9.570563003	7.66118238	8.20184E-06	0.000489447	Sft2d2	Mus musculus SFT2 domain containing 2 (Sft2d2), mRNA.
ILMN_2606295	1.046274583	9.569507008	5.743930766	0.000115135	0.002760093	Gch1	
ILMN_1249559	0.737735942	9.567090921	6.346338846	4.76638E-05	0.001547484	5730494J16Rik	
ILMN_3136205	0.805963819	9.565997029	6.130241819	6.50272E-05	0.001877089	Acsl4	Mus musculus acyl-CoA synthetase long-chain family member 4 (Acsl4),

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
							transcript variant 3, mRNA.
ILMN_1232041	0.727019827	9.565903359	5.599939298	0.000143219	0.003164474	Copeb	
ILMN_1235602	0.497698161	9.565252768	4.555607489	0.000761167	0.009353099	D0Kist3	
ILMN_2737713	0.907501784	9.565230036	4.726064098	0.000573538	0.007771916	Edn1	Mus musculus endothelin 1 (Edn1), mRNA.
ILMN_2618423	0.627151218	9.564239256	4.924293788	0.000414755	0.006287991	BC003332	Mus musculus ZXD family zinc finger C (Zxdc), transcript variant 2, mRNA.
ILMN_1241698	0.517550501	9.563077464	3.784728066	0.002866291	0.021915457	LOC226283	
ILMN_1230926	1.216377654	9.557573192	4.182117295	0.00143418	0.013991754	Odz4	
ILMN_2717127	0.583625372	9.55242496	4.345024761	0.001085549	0.011647684	Ddx58	
ILMN_1238886	2.300527875	9.551893452	14.58613706	1.06409E-08	9.76627E-06	Ccl8	Mus musculus chemokine (C-C motif) ligand 8 (Ccl8), mRNA.
ILMN_2683528	1.274069265	9.550367487	8.213463176	4.16493E-06	0.000317533	2610020H15Rik	Mus musculus glycerophosphodiester phosphodiesterase domain containing 1 (Gdpd1), mRNA.
ILMN_2722232	0.495930952	9.550215548	3.22079129	0.007853247	0.042408245	Foxi1	Mus musculus forkhead box I1 (Foxi1), mRNA.
ILMN_2707015	0.456128394	9.550091851	4.653407101	0.000646766	0.008407762	Mad2l2	
ILMN_1219118	0.368043343	9.546855766	3.132447788	0.009212944	0.046996254	5033413H12Rik	
ILMN_2668165	0.488345929	9.545600581	3.713785536	0.003249134	0.023761595	Evi1	Mus musculus ecotropic viral integration site 1 (Evi1), mRNA.
ILMN_1233412	0.34319909	9.545174197	3.88194975	0.002415779	0.019631944	Ddx19	Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 19a (Ddx19a), mRNA.
ILMN_2686183	0.583783879	9.543478359	3.103789522	0.009703336	0.048624676	Map1lc3a	Mus musculus microtubule-associated protein 1 light chain 3 alpha (Map1lc3a), mRNA.
ILMN_2749011	0.731256154	9.539841006	5.083209844	0.000321112	0.005331168	Ap1m2	Mus musculus adaptor protein complex AP-1, mu 2 subunit (Ap1m2), mRNA.
ILMN_2963091	1.100418104	9.53884304	4.813875527	0.000496493	0.007048067	E130012A19Rik	Mus musculus RIKEN cDNA E130012A19 gene (E130012A19Rik), mRNA.
ILMN_1251890	0.280521737	9.537704903	3.502581911	0.004731809	0.030312795	Snrp1c	
ILMN_1236727	3.967928188	9.536858898	18.12393501	9.96328E-10	2.97192E-06	C730031G17	Mus musculus UDP glucuronosyltransferase 2 family, polypeptide B35 (Ugt2b35), mRNA.
ILMN_2774854	0.583866896	9.53294583	5.473850512	0.000173801	0.003606439	Edg2	
ILMN_2948945	0.821235959	9.531758822	5.263374585	0.000241286	0.004473821	Sesn2	Mus musculus sestrin 2 (Sesn2), mRNA.
ILMN_3118707	0.783290331	9.525799338	6.678894875	2.99146E-05	0.001143992	Sla	Mus musculus src-like adaptor (Sla), transcript variant 2, mRNA.
ILMN_2885990	0.546474042	9.524044392	3.327701713	0.006476358	0.037329789	Pdlim3	Mus musculus PDZ and LIM domain 3 (Pdlim3), mRNA.
ILMN_2639239	0.964224201	9.522046695	4.400611752	0.000987893	0.01097606	Serpinf1	
ILMN_1239181	0.367874688	9.521645283	4.931700202	0.000409806	0.006229623	1110025F24Rik	Mus musculus NmrA-like family domain containing 1 (Nmral1), mRNA.
ILMN_2630423	0.417523175	9.521008812	4.906442648	0.000426944	0.006407646	Ikbkg	
ILMN_2629395	0.401123222	9.518799175	4.135497784	0.001554095	0.014691958	Rhoq	Mus musculus ras homolog gene family, member Q (Rhoq), mRNA.
ILMN_2624358	0.426936069	9.516910248	4.792470415	0.000514212	0.007218018	Cyb561d1	

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ILMN_2776603	1.269404086	9.516174051	5.255823598	0.000244171	0.004506308	Ccl9	
ILMN_2608133	0.822088199	9.515983654	4.612230943	0.000692563	0.008830934	Rhpn2	Mus musculus rhophilin, Rho GTPase binding protein 2 (Rhpn2), mRNA.
ILMN_2841290	0.91851307	9.515660089	5.532302607	0.000158842	0.003381311	Tnfaip2	Mus musculus tumor necrosis factor, alpha-induced protein 2 (Tnfaip2), mRNA.
ILMN_1243154	0.371955292	9.514927773	3.328420812	0.006467979	0.037301489	Gpsm1	Mus musculus G-protein signalling modulator 1 (AGS3-like, C. elegans) (Gpsm1), mRNA.
ILMN_2602938	1.697491031	9.514461158	8.513160839	2.92361E-06	0.000266282	Smpdl3b	
ILMN_1218104	0.255702883	9.512923334	3.434962919	0.005341015	0.032874038	5630401D24Rik	Mus musculus RIKEN cDNA 5630401D24 gene (5630401D24Rik), mRNA.
ILMN_2702039	0.599475444	9.512452222	6.88449298	2.25916E-05	0.000964228	Cblb	
ILMN_1238547	3.840653737	9.51081631	13.17748882	3.17219E-08	2.22641E-05	Areg	Mus musculus amphiregulin (Areg), mRNA.
ILMN_2524043	0.278311785	9.507853514	3.415669405	0.005529129	0.03362385	2410118I19Rik	
ILMN_2758896	0.332070221	9.507199542	3.241769298	0.007561404	0.041432329	2410019G02Rik	
ILMN_2625125	1.222942286	9.506024041	6.469848453	4.00231E-05	0.001396302	Cx3cr1	
ILMN_2674351	0.592560296	9.505312579	3.999472414	0.001967284	0.017137701	Ednra	
ILMN_2843029	0.292337071	9.50494223	3.090630472	0.009937254	0.049412939	Man1a2	Mus musculus mannosidase, alpha, class 1A, member 2 (Man1a2), mRNA.
ILMN_2624862	0.398957936	9.503776056	3.781399869	0.002883167	0.022002244	5830461H18Rik	
ILMN_2527760	0.320350426	9.503732474	3.198435862	0.008176837	0.043505878	LOC228790	
ILMN_1244086	0.781143575	9.503689103	4.709781421	0.000589156	0.007902765	Impa2	
ILMN_2764846	1.373084064	9.498728573	9.565028552	9.06144E-07	0.000143201	Tcfap2a	
ILMN_2827646	1.096656026	9.496686712	5.687994792	0.000125279	0.002909235	Tmem98	Mus musculus transmembrane protein 98 (Tmem98), mRNA.
ILMN_2998976	0.666386279	9.492933194	5.119147502	0.000303207	0.00513636	Edg2	Mus musculus endothelial differentiation, lysophosphatidic acid G-protein-coupled receptor, 2 (Edg2), mRNA.
ILMN_2671235	0.564237991	9.492187015	6.357374802	4.69216E-05	0.001535925	Myo1b	
ILMN_2847787	0.919655542	9.491470168	7.058195322	1.78958E-05	0.000814975	Emr1	Mus musculus EGF-like module containing, mucin-like, hormone receptor-like sequence 1 (Emr1), mRNA.
ILMN_1238042	0.671463014	9.486296244	3.430746809	0.005381557	0.033046859	Akr1b7	Mus musculus aldo-keto reductase family 1, member B7 (Akr1b7), mRNA.
ILMN_2707319	0.927224031	9.484903684	4.253893305	0.001268047	0.012903797	Mgl2	
ILMN_2773921	0.543098695	9.484687164	3.667014026	0.003530018	0.025062087	Hoxb9	
ILMN_2773835	0.50735789	9.484188649	3.519134908	0.004593821	0.029772501	Smad6	
ILMN_2904641	0.542567022	9.480254531	4.5796444	0.000731212	0.00912694	Snora65	Mus musculus small nucleolar RNA, H/ACA box 65 (Snora65) on chromosome 2.
ILMN_2918114	0.576845647	9.478798101	4.909730827	0.000424671	0.006391822	Apex1	Mus musculus apurinic/apyrimidinic endonuclease 1 (Apex1), mRNA.
ILMN_2609323	0.562443192	9.478718352	5.199026328	0.000267077	0.004773973	Lst1	
ILMN_2761662	0.518413072	9.478584725	3.79082617	0.002835633	0.021743798	BC042901	Mus musculus sterile alpha motif domain containing 4B (Samd4b), mRNA.

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2700848	0.594951893	9.47823504	5.0576202	0.00033454	0.005486693	Arrb2	
ILMN_2618176	1.582379929	9.477723437	4.566769095	0.0007471	0.009242124	Socs3	Mus musculus suppressor of cytokine signaling 3 (Socs3), mRNA.
ILMN_2444121	0.586805237	9.476797914	6.507854666	3.79436E-05	0.00134675	5430416N02Rik	
ILMN_3155363	1.5767433	9.476137023	6.577678631	3.44179E-05	0.001257757	Ppl	Mus musculus periplakin (Ppl), mRNA.
ILMN_2894211	1.146401795	9.472200323	3.568434031	0.004206774	0.028087928	8430408G22Rik	Mus musculus RIKEN cDNA 8430408G22 gene (8430408G22Rik), mRNA.
ILMN_2622255	1.485260267	9.472079526	7.704119433	7.77135E-06	0.000476729	Ephb2	
ILMN_2597030	0.87499195	9.470009701	8.14115636	4.54263E-06	0.00033257	Smox	Mus musculus spermine oxidase (Smox), mRNA.
ILMN_1247220	0.923062861	9.46993018	3.909509527	0.002301883	0.019031409	Tbx3	Mus musculus T-box 3 (Tbx3), transcript variant 1, mRNA.
ILMN_1247753	0.523243918	9.46809985	4.442179355	0.000920893	0.010531992	Ppap2b	
ILMN_2778151	1.472271484	9.46772928	4.251250588	0.001273794	0.012934697	Sox9	
ILMN_1246394	1.109385611	9.465909057	3.291275623	0.00691554	0.039148784	Zic4	
ILMN_2638404	0.456207218	9.465182253	4.486170941	0.000855138	0.010114774	Dclre1b	
ILMN_3158659	0.369156704	9.462740584	3.299179158	0.006817744	0.038745373	C230096C10Rik	
ILMN_3115162	0.424093539	9.459431843	3.864788633	0.002489632	0.020005151	Jak2	Mus musculus Janus kinase 2 (Jak2), transcript variant 2, mRNA.
ILMN_1213616	0.431266452	9.458538956	3.894534723	0.002363063	0.01931818	Mcm7	
ILMN_3147074	0.802278835	9.456987405	3.238693482	0.007603497	0.041567523	Pecam1	Mus musculus platelet/endothelial cell adhesion molecule 1 (Pecam1), transcript variant 2, mRNA.
ILMN_1221251	0.368795387	9.456325646	3.737057282	0.003118055	0.023106535	1110012D08Rik	Mus musculus RIKEN cDNA 1110012D08 gene (1110012D08Rik), mRNA.
ILMN_2594575	0.652315448	9.455172805	4.078372926	0.001715391	0.015662863	Cugbp2	
ILMN_2907499	0.497452553	9.454909366	3.163049847	0.008716883	0.045338052	Tatdn2	Mus musculus TatD DNase domain containing 2 (Tatdn2), mRNA.
ILMN_2889916	0.266351904	9.454539869	3.195994661	0.008212981	0.043609896	Klf16	Mus musculus Kruppel-like factor 16 (Klf16), mRNA.
ILMN_2632034	0.599696121	9.453096348	3.282576865	0.007024826	0.039452443	BC006933	Mus musculus cell division cycle associated 7 like (Cdca7l), mRNA.
ILMN_2671411	0.386188667	9.451981479	3.816975622	0.002707955	0.021041986	Kns2	
ILMN_3085841	0.722347217	9.451582221	4.2336268	0.001312818	0.013196202	Shroom3	Mus musculus shroom family member 3 (Shroom3), transcript variant 3, mRNA.
ILMN_2471128	1.506615664	9.450829689	7.149739618	1.58517E-05	0.000765729	A830073O21Rik	
ILMN_1234824	1.303896756	9.449743613	5.999194507	7.87507E-05	0.00214769	2610001E17Rik	
ILMN_2737758	0.807503969	9.447972181	4.367074467	0.001045657	0.011383448	Ptprs	Mus musculus protein tyrosine phosphatase, receptor type, S (Ptprs), mRNA.
ILMN_2779703	0.318822257	9.447503744	3.324386248	0.00651513	0.037471814	Ercc1	Mus musculus excision repair cross-complementing rodent repair deficiency, complementation group 1 (Ercc1), mRNA.
ILMN_2828916	0.614725467	9.44328047	4.301586498	0.001168854	0.01223886	Frmd6	Mus musculus FERM domain containing 6 (Frmd6), mRNA.
ILMN_1224336	0.921889865	9.443204522	5.082244937	0.000321608	0.005331168	4930422J18Rik	Mus musculus splA/ryanodine receptor domain and SOCS box containing 1 (Spsb1), mRNA.

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ILMN_2588249	1.753776106	9.442902005	5.624247111	0.000138009	0.003089417	S3-12	Mus musculus plasma membrane associated protein, S3-12 (S3-12), mRNA.
ILMN_2635024	0.34686512	9.441274193	3.088658916	0.009972788	0.049527706	Nupl1	Mus musculus nucleoporin like 1 (Nupl1), mRNA.
ILMN_1220521	0.417543489	9.440910146	3.125763614	0.009325036	0.047285028	S100a16	Mus musculus S100 calcium binding protein A16 (S100a16), mRNA.
ILMN_3078306	0.449563727	9.439668125	4.28013402	0.00121243	0.012556167	Cyb561d1	Mus musculus cytochrome b-561 domain containing 1 (Cyb561d1), mRNA.
ILMN_2766386	1.711703776	9.438818141	10.98657218	2.16997E-07	5.8182E-05	Nqo1	
ILMN_2912598	0.653762525	9.437378318	4.370497749	0.001039603	0.011338225	Ap3m2	Mus musculus adaptor-related protein complex 3, mu 2 subunit (Ap3m2), mRNA.
ILMN_2913989	0.460348435	9.436807118	3.352792836	0.006190443	0.036153339	AA407270	Mus musculus expressed sequence AA407270 (AA407270), mRNA.
ILMN_3162394	0.494986001	9.435469361	4.313694473	0.001144983	0.012073681	LOC629605	Mus musculus hypothetical protein LOC629605 (LOC629605), mRNA.
ILMN_3009373	0.779385873	9.434476276	3.334741572	0.006394807	0.037047654	A4galt	Mus musculus alpha 1,4-galactosyltransferase (A4galt), mRNA.
ILMN_2776431	0.963840224	9.433527373	6.720097033	2.82655E-05	0.001109375	C1qa	
ILMN_2437682	0.347953943	9.43348892	3.637222592	0.003721843	0.025953929	2810029C07Rik	
ILMN_2592823	0.640693338	9.432337281	3.490251725	0.004837347	0.030756902	Cdc42ep5	Mus musculus CDC42 effector protein (Rho GTPase binding) 5 (Cdc42ep5), mRNA.
ILMN_2886260	0.635865815	9.430717412	4.036375768	0.001845004	0.016464973	Foxc1	Mus musculus forkhead box C1 (Foxc1), mRNA.
ILMN_1239239	1.052241612	9.430629157	9.244981573	1.27987E-06	0.000168738	Ptgs1	
ILMN_1247207	0.774709241	9.430466212	3.603931652	0.003948924	0.026985442	Adm	Mus musculus adrenomedullin (Adm), mRNA.
ILMN_1244169	3.960511201	9.426912182	12.11363257	7.77098E-08	3.25332E-05	Sftpd	Mus musculus surfactant associated protein D (Sftpd), mRNA.
ILMN_1218538	1.162835453	9.425563432	8.910394633	1.85511E-06	0.0002059	E130115E03Rik	
ILMN_1216262	1.196828981	9.425533739	8.444118898	3.16929E-06	0.000276648	Bmpr1b	Mus musculus bone morphogenetic protein receptor, type 1B (Bmpr1b), mRNA.
ILMN_2760619	0.507832908	9.424899188	3.75615863	0.003014543	0.022614285	Tinagl	Mus musculus tubulointerstitial nephritis antigen-like (Tinagl), mRNA.
ILMN_2893063	0.527826429	9.424716354	3.834597826	0.002625274	0.020648291	2610206B13Rik	Mus musculus RIKEN cDNA 2610206B13 gene (2610206B13Rik), mRNA.
ILMN_2433946	0.420663411	9.423840949	4.688361908	0.000610383	0.008047274	Glce	
ILMN_2633062	0.707914224	9.421805124	5.097185146	0.00031402	0.005265962	9130422G05Rik	
ILMN_2919259	0.816609435	9.418189985	3.301597091	0.006788107	0.038641362	Scd2	Mus musculus stearoyl-Coenzyme A desaturase 2 (Scd2), mRNA.
ILMN_1253813	0.573319654	9.411641566	4.41273681	0.000967839	0.010827725	Hemp1	Mus musculus NCK associated protein 1 like (Nckap1l), mRNA.
ILMN_1254723	0.481061851	9.410212957	3.895204145	0.002360292	0.019315382	Cxcl16	
ILMN_3030340	0.502757762	9.409227842	6.647772821	3.12282E-05	0.00118098	Csnk1d	
ILMN_2660754	0.481907039	9.404684992	3.20829977	0.008032426	0.043015659	Spnb1	
ILMN_3156343	0.732166256	9.404236607	5.020816502	0.000354901	0.005692791	Wars	Mus musculus tryptophanyl-tRNA synthetase (Wars), mRNA.
ILMN_2707099	0.60082436	9.403395117	3.711800979	0.003260572	0.023791997	Mgl2	
ILMN_2663585	1.172076664	9.401890566	6.690825705	2.94267E-05	0.00113544	Jundm2	Mus musculus Jun dimerization protein 2 (Jundm2), mRNA.

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ILMN_1223539	0.626254434	9.401258483	3.365181988	0.006054042	0.03566221	Tpm4	
ILMN_2954575	0.574098504	9.400062875	4.744530679	0.000556351	0.007632319	Arhgap30	Mus musculus Rho GTPase activating protein 30 (Arhgap30), mRNA.
ILMN_2641541	0.42183464	9.399715427	3.806310309	0.002759298	0.021315998	Diap1	Mus musculus diaphanous homolog 1 (Drosophila) (Diap1), mRNA.
ILMN_2603662	0.417407983	9.397310207	3.100040203	0.009769413	0.048853207	B230312A22Rik	Mus musculus RIKEN cDNA B230312A22 gene (B230312A22Rik), mRNA.
ILMN_2483578	0.692788005	9.396355935	6.661458757	3.06431E-05	0.00116316	Dnajc10	
ILMN_2783557	0.56813913	9.395834864	4.413730029	0.000966215	0.010824058	Atpbd3	Mus musculus ATP binding domain 3 (Atpbd3), mRNA.
ILMN_2972325	0.319479574	9.395483165	3.719194643	0.003218169	0.023622014	2410016O06Rik	Mus musculus RIKEN cDNA 2410016O06 gene (2410016O06Rik), mRNA.
ILMN_2781689	0.439278784	9.393833036	4.989147524	0.000373467	0.005882529	Kif2a	Mus musculus kinesin family member 2A (Kif2a), mRNA.
ILMN_2792351	0.804818194	9.393692386	5.570816436	0.000149736	0.003254241	Cyp4f16	Mus musculus cytochrome P450, family 4, subfamily f, polypeptide 16 (Cyp4f16), mRNA.
ILMN_2595519	0.682698939	9.393374043	5.087022003	0.000319161	0.005307417	Lig1	Mus musculus ligase I, DNA, ATP-dependent (Lig1), mRNA.
ILMN_1245768	0.678730091	9.392609772	6.760172625	2.67545E-05	0.001073012	Ica1	Mus musculus islet cell autoantigen 1 (Ica1), mRNA.
ILMN_1214487	0.577142238	9.392093087	3.287200925	0.006966516	0.039272847	Hace1	Mus musculus HECT domain and ankyrin repeat containing, E3 ubiquitin protein ligase 1 (Hace1), mRNA.
ILMN_2503188	1.606203573	9.390615748	7.209229976	1.46584E-05	0.000724212	Ppl	
ILMN_1260061	1.921663263	9.388957591	9.639438718	8.3734E-07	0.000137803	D17H6S56E-5	Mus musculus DNA segment, Chr 17, human D6S56E 5 (D17H6S56E-5), mRNA.
ILMN_3041056	0.34268356	9.386711769	3.583720354	0.004093681	0.02751761	Surf5	Mus musculus mediator complex subunit 22 (Med22), transcript variant 1, mRNA.
ILMN_1241695	1.515690683	9.386225536	6.27105299	5.30733E-05	0.00163629	Ms4a6d	
ILMN_2592909	0.431932795	9.385984578	4.278060717	0.00121673	0.012574638	BC024814	
ILMN_3121784	0.807842324	9.384995368	6.874381312	2.29029E-05	0.000973186	A930008G19Rik	Mus musculus RIKEN cDNA A930008G19 gene (A930008G19Rik), mRNA.
ILMN_1258657	0.571497888	9.384682512	5.052367694	0.000337369	0.005521701	2610205E22Rik	
ILMN_1258715	0.475656472	9.384078502	3.607005754	0.003927371	0.026898871	Rrm1	
ILMN_2678134	1.038488481	9.380085212	4.888582892	0.000439518	0.006542332	Bspry	
ILMN_1217000	0.344718161	9.37800567	3.248747332	0.007466785	0.041093149	Tfpt	Mus musculus TCF3 (E2A) fusion partner (Tfpt), mRNA.
ILMN_2678355	0.450722933	9.376010237	3.592265481	0.004031826	0.027273606	AI415330	
ILMN_2595477	0.619503654	9.373955486	4.317857184	0.001136895	0.012004301	Cldn7	Mus musculus claudin 7 (Cldn7), mRNA.
ILMN_1212693	0.418118076	9.37248371	3.427032493	0.005417534	0.033190914	E130307J07Rik	
ILMN_1250019	0.430168159	9.37159989	3.129973726	0.009254274	0.047066227	B4galt6	Mus musculus UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 6 (B4galt6), mRNA.
ILMN_2908056	0.444955284	9.370068762	3.234498586	0.007661287	0.041720969	Tmbim1	Mus musculus transmembrane BAX inhibitor motif containing 1 (Tmbim1), mRNA.
ILMN_2772492	0.425032896	9.369490971	5.121184894	0.000302224	0.00513307	AW550801	
ILMN_1251056	0.401519223	9.368828077	3.851602507	0.002547961	0.020294392	Lsm6	

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ILMN_2752044	0.718158083	9.366417029	6.387817558	4.49373E-05	0.001495592	Rgs19	Mus musculus regulator of G-protein signaling 19 (Rgs19), mRNA.
ILMN_2695344	0.633529873	9.365676409	4.378262236	0.001026005	0.011246468	Il17rc	Mus musculus interleukin 17 receptor C (Il17rc), mRNA.
ILMN_1244514	0.423885143	9.361560109	3.439659693	0.005296219	0.032724926	Schip1	Mus musculus schwannomin interacting protein 1 (Schip1), mRNA.
ILMN_2731080	0.51756652	9.361349538	4.448846455	0.000910597	0.010482185	Rps6ka3	Mus musculus ribosomal protein S6 kinase polypeptide 3 (Rps6ka3), mRNA.
ILMN_2599861	0.945808102	9.361168491	3.778655629	0.00289716	0.022094893	Defb11	Mus musculus defensin beta 11 (Defb11), mRNA.
ILMN_2636004	0.689257654	9.36012797	4.609888557	0.000695268	0.00885808	9530064J02	
ILMN_1221973	0.793764406	9.353423596	4.752171578	0.000549399	0.007573833	9430029P12Rik	
ILMN_2692412	0.675627693	9.347717574	3.307355905	0.006718046	0.038352327	Defb2	Mus musculus defensin beta 2 (Defb2), mRNA.
ILMN_2763002	2.023233879	9.346368811	8.426193179	3.23665E-06	0.000278831	Eno2	Mus musculus enolase 2, gamma neuronal (Eno2), mRNA.
ILMN_3000116	0.388874605	9.344538813	4.559280896	0.000756507	0.009324651	Ttf2	Mus musculus transcription termination factor, RNA polymerase II (Ttf2), mRNA.
ILMN_2885277	0.909430446	9.344374879	7.318122392	1.27163E-05	0.00065967	Nnmt	Mus musculus nicotinamide N-methyltransferase (Nnmt), mRNA.
ILMN_2742928	0.421693167	9.342645124	3.619974244	0.003837771	0.026552832	Fxyd5	Mus musculus FXYD domain-containing ion transport regulator 5 (Fxyd5), mRNA.
ILMN_2426833	0.245571563	9.342600047	3.089265488	0.009961842	0.049483644	D430033N04Rik	
ILMN_2744138	0.45803575	9.342230379	5.410196177	0.000191803	0.003842976	BC003236	
ILMN_1239583	0.444874796	9.341342884	5.096622604	0.000314302	0.005266994	Wins2	
ILMN_2644350	0.743677838	9.340785087	3.26904275	0.007198361	0.040050008	Thy1	Mus musculus thymus cell antigen 1, theta (Thy1), mRNA.
ILMN_2706014	0.579073506	9.338743248	3.395306169	0.00573502	0.034472235	2010002N04Rik	
ILMN_2601946	0.592830941	9.338295803	3.508917972	0.004678496	0.030124921	AL024069	
ILMN_2809202	0.341920491	9.336543965	4.026737855	0.001876158	0.016556916	Cdca4	Mus musculus cell division cycle associated 4 (Cdca4), mRNA.
ILMN_2720083	0.598276924	9.335314317	4.602787793	0.000703537	0.008934812	Bace2	Mus musculus beta-site APP-cleaving enzyme 2 (Bace2), mRNA.
ILMN_1229309	0.408369031	9.333890554	3.501798975	0.00473844	0.030325306	Vrk1	
ILMN_1225182	0.60718042	9.333594752	7.857508953	6.42089E-06	0.000415235	Cdca3	Mus musculus cell division cycle associated 3 (Cdca3), mRNA.
ILMN_1215670	0.592203581	9.333546876	5.705758248	0.000121959	0.002857408	9130422G05Rik	
ILMN_2653328	0.569566217	9.332775558	4.844361441	0.000472357	0.006835597	Il28ra	Mus musculus interleukin 28 receptor alpha (Il28ra), mRNA.
ILMN_2423372	0.649373143	9.332107582	5.031115109	0.000349075	0.005643616	2310014D11Rik	
ILMN_2790357	0.853653987	9.331656437	5.580176487	0.000147608	0.003216775	Sema7a	Mus musculus sema domain, immunoglobulin domain (Ig), and GPI membrane anchor, (semaphorin) 7A (Sema7a), mRNA.
ILMN_2655869	0.737734255	9.330470505	5.991046173	7.97002E-05	0.002161267	Kctd15	Mus musculus potassium channel tetramerisation domain containing 15 (Kctd15), mRNA.
ILMN_1226259	1.016892877	9.330014536	6.583010812	3.41635E-05	0.001250373	Adamts2	
ILMN_3143358	1.314431484	9.328977813	7.881570918	6.23298E-06	0.0004075	Adora1	Mus musculus adenosine A1 receptor (Adora1), transcript variant 1, mRNA.

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ILMN_1250857	0.310507486	9.32798921	3.593843067	0.004020512	0.027225161	Mre11a	Mus musculus meiotic recombination 11 homolog A (S. cerevisiae) (Mre11a), mRNA.
ILMN_1242413	0.56618272	9.32510291	3.307143143	0.006720621	0.038354641	5430425C04Rik	Mus musculus transmembrane protein 16J (Tmem16j), mRNA.
ILMN_1249366	0.634512027	9.324768589	4.467896	0.000881836	0.010260001	Bcl2	Mus musculus B-cell leukemia/lymphoma 2 (Bcl2), transcript variant 1, mRNA.
ILMN_1223354	0.537035128	9.324503416	3.68757994	0.003403553	0.024493058	LOC269365	
ILMN_2693815	0.37413196	9.32399786	3.97260214	0.002061586	0.01767719	Pacsin3	Mus musculus protein kinase C and casein kinase substrate in neurons 3 (Pacsin3), mRNA.
ILMN_1254016	1.712429872	9.323567531	11.87118897	9.62302E-08	3.59956E-05	Adora1	
ILMN_1253925	0.749459087	9.320066892	4.775818394	0.000528455	0.007365963	4632401N01Rik	
ILMN_1250612	1.304624239	9.319148236	9.089611527	1.51862E-06	0.000189732	Tbc1d2	
ILMN_1246777	0.702804874	9.317821604	4.13454438	0.001556654	0.014699811	Ptprm	
ILMN_2846803	0.611990074	9.316730075	4.537938461	0.000784004	0.009554995	Camkk2	Mus musculus calcium/calmodulin-dependent protein kinase kinase 2, beta (Camkk2), mRNA.
ILMN_3001322	0.541832446	9.315995509	4.620209267	0.00068343	0.008749423	Tmem119	Mus musculus transmembrane protein 119 (Tmem119), mRNA.
ILMN_2653765	0.600165634	9.313582867	3.243573327	0.007536826	0.041335622	Nusap1	
ILMN_1257630	0.432365903	9.312873474	3.287486468	0.006962931	0.039272263	1110012J17Rik	Mus musculus RIKEN cDNA 1110012J17 gene (1110012J17Rik), mRNA.
ILMN_1215405	0.440688489	9.312153779	4.076986048	0.001719517	0.015685334	LOC228790	
ILMN_2590884	1.583911935	9.311448882	8.474055662	3.06014E-06	0.000273498	Plaur	Mus musculus plasminogen activator, urokinase receptor (Plaur), mRNA.
ILMN_2643534	1.010094913	9.310944753	7.62246354	8.61203E-06	0.000509947	Angptl6	
ILMN_2675697	0.884866663	9.309499559	6.083198342	6.96353E-05	0.001966518	Kdelr3	
ILMN_2494023	0.653993621	9.307250144	3.890111815	0.002381453	0.019421943	Ehd4	
ILMN_2759371	1.346387624	9.302902169	6.32283411	4.92866E-05	0.00157736	Fgfbp1	
ILMN_2693827	0.43273403	9.302032764	3.677761424	0.003463337	0.024744197	2410118P20Rik	
ILMN_2689731	1.301771246	9.299025791	6.264116158	5.36037E-05	0.001644146	Dusp4	
ILMN_1243090	0.349277824	9.298618005	4.143940445	0.001531629	0.014627878	Ankra2	
ILMN_2497957	0.708109836	9.298340229	3.566873639	0.004218497	0.028097024	scl0002507.1_236	
ILMN_2983516	0.785591285	9.297021097	5.008718212	0.000361876	0.005756961	Slc11a1	Mus musculus solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1 (Slc11a1), mRNA.
ILMN_2625290	0.516629596	9.295617661	5.202338489	0.000265681	0.004759712	Ifi35	
ILMN_1214578	0.394798999	9.293753004	3.918453745	0.002266125	0.018845805	2610312F20Rik	
ILMN_1213274	0.854703843	9.29318078	4.279163743	0.001214441	0.012561854	1810015A11Rik	
ILMN_2838501	1.222064076	9.292611684	4.820639273	0.000491028	0.007008309	Slc24a3	Mus musculus solute carrier family 24 (sodium/potassium/calcium exchanger), member 3 (Slc24a3), mRNA.

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2694430	0.686538804	9.290952331	4.888071074	0.000439884	0.006542332	B230344N16	
ILMN_2687872	1.487933128	9.290328718	7.030484715	1.85688E-05	0.00082979	Col1a1	
ILMN_2779858	1.739668813	9.282996503	8.361228672	3.49397E-06	0.00029255	S100a14	Mus musculus S100 calcium binding protein A14 (S100a14), mRNA.
ILMN_2927643	0.907772826	9.27735654	3.181854047	0.008425552	0.044305632	1700067K01Rik	Mus musculus RIKEN cDNA 1700067K01 gene (1700067K01Rik), mRNA.
ILMN_2487482	0.513000434	9.276549114	4.915175249	0.000420935	0.006358191	Zfp90	
ILMN_1235811	1.013659934	9.275622004	6.159315369	6.23425E-05	0.001820904	1110032E23Rik	
ILMN_2676606	0.660710941	9.273308212	7.579453159	9.09363E-06	0.000531866	Optn	Mus musculus optineurin (Optn), mRNA.
ILMN_1220726	0.710048118	9.271856008	5.766901034	0.000111225	0.00269894	Satb1	
ILMN_2653725	1.687667263	9.269657342	7.608875113	8.76116E-06	0.000517494	Inhbb	
ILMN_2614531	0.57839109	9.268281957	5.222430672	0.000257374	0.004666966	Mcam	Mus musculus melanoma cell adhesion molecule (Mcam), mRNA.
ILMN_1252373	0.633964795	9.26806304	4.802039766	0.000506209	0.007147167	3000003F02Rik	Mus musculus pseudouridylate synthase 7 homolog (S. cerevisiae)-like (Pus7l), mRNA.
ILMN_1250001	1.15875035	9.267416743	4.962281567	0.000390019	0.006047449	4930583H14Rik	Mus musculus RIKEN cDNA 4930583H14 gene (4930583H14Rik), mRNA.
ILMN_2739544	1.201896425	9.265769613	7.736810618	7.45986E-06	0.000459986	Stc2	
ILMN_1243602	0.498714954	9.264352651	3.394922818	0.00573897	0.034487292	Prkcdbp	Mus musculus protein kinase C, delta binding protein (Prkcdbp), mRNA.
ILMN_1220558	0.580268883	9.264313668	4.814508246	0.000495979	0.007044963	D630037D12Rik	
ILMN_1245615	0.596000896	9.262287305	4.299421918	0.001173176	0.012263606	4933428I03Rik	
ILMN_2948143	3.335680716	9.261275803	16.29732285	3.18926E-09	5.43609E-06	Slc7a11	Mus musculus solute carrier family 7 (cationic amino acid transporter, y+ system), member 11 (Slc7a11), mRNA.
ILMN_2523316	0.579430087	9.259953597	3.835297361	0.002622046	0.020629703	Unc5b	
ILMN_2421549	1.121524155	9.259624233	5.580575118	0.000147518	0.003216775	scl00260315.1_244	
ILMN_1241228	0.611966565	9.259064093	4.067010591	0.001749497	0.015837828	Tnfrsf1a	Mus musculus tumor necrosis factor receptor superfamily, member 1a (Tnfrsf1a), mRNA.
ILMN_3062286	0.960544136	9.259049486	5.25808617	0.000243303	0.00449941	Rpel1	
ILMN_2621659	0.914790391	9.259020967	3.865138427	0.002488103	0.020004584	Elf3	Mus musculus E74-like factor 3 (Elf3), mRNA.
ILMN_2736380	1.632337588	9.257342315	6.462915059	4.04154E-05	0.00140179	Elf5	Mus musculus E74-like factor 5 (Elf5), mRNA.
ILMN_2944366	1.74364145	9.253631795	12.40841793	6.02208E-08	3.19344E-05	Hspb8	Mus musculus heat shock protein 8 (Hspb8), mRNA.
ILMN_2813186	0.550445273	9.252406204	4.747393314	0.000553736	0.007604954	Avpi1	Mus musculus arginine vasopressin-induced 1 (Avpi1), mRNA.
ILMN_1242829	1.273698984	9.251021698	3.437933093	0.005312642	0.032772267	Prdx2	Mus musculus peroxiredoxin 2 (Prdx2), mRNA.
ILMN_1252531	0.377383525	9.246608932	3.251339783	0.007431939	0.04097698	4930429O20Rik	
ILMN_2771766	1.489877516	9.244452356	4.595113278	0.000712591	0.009001882	Ccl12	
ILMN_2461345	0.529890723	9.244212747	3.232357404	0.007690956	0.041815739	Zfp41	
ILMN_2826916	0.732081368	9.244093647	4.360354508	0.00105765	0.011487801	Ptpre	Mus musculus protein tyrosine phosphatase, receptor type, E (Ptpre),

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
							mRNA.
ILMN_2678502	0.320239853	9.242272628	3.364495412	0.006061521	0.035685784	2310058A11Rik	Mus musculus PWP1 homolog (S. cerevisiae) (Pwp1), mRNA.
ILMN_3161591	0.36544179	9.241940752	3.307443258	0.006716989	0.038352327	Attp	
ILMN_2682788	0.525067731	9.241063361	4.546827675	0.000772426	0.009447669	Jund1	Mus musculus Jun proto-oncogene related gene d1 (Jund1), mRNA.
ILMN_2985836	0.779960401	9.240101752	4.39248354	0.00100158	0.011078792	BC011487	Mus musculus cDNA sequence BC011487 (BC011487), mRNA.
ILMN_2469333	0.665241196	9.238986472	3.974692512	0.002054084	0.017631882	Tnfrsf1a	Mus musculus tumor necrosis factor receptor superfamily, member 1a (Tnfrsf1a), mRNA.
ILMN_1244872	0.487640741	9.231524063	4.792549844	0.000514145	0.007218018	Acsl4	
ILMN_2777555	0.323936903	9.2297941	3.452555635	0.005175184	0.032202195	Fbxo4	
ILMN_1259809	0.583698065	9.228847848	3.240984436	0.007572123	0.04146715	Fath	
ILMN_2605756	0.329896072	9.22876556	3.729322439	0.003161006	0.023302777	Kns2	
ILMN_1249776	0.761061154	9.22866625	4.048784825	0.001805681	0.016204956	Jak3	
ILMN_2775307	1.281507549	9.2259769	12.26744655	6.79846E-08	3.19682E-05	Lamc2	
ILMN_2867899	0.824277381	9.224507843	5.190781198	0.000270586	0.004807276	Cdc20	Mus musculus cell division cycle 20 homolog (S. cerevisiae) (Cdc20), mRNA.
ILMN_1217576	0.755409616	9.22251059	5.79282103	0.000106981	0.002651355	Evi1	Mus musculus ecotropic viral integration site 1 (Evi1), mRNA.
ILMN_1240337	0.486221796	9.221021997	4.843459466	0.000473053	0.006835597	6030448M23Rik	
ILMN_2796382	2.96607022	9.217922952	7.519771651	9.81035E-06	0.000554749	Cdsn	Mus musculus corneodesmosin (Cdsn), mRNA.
ILMN_2777308	2.875110769	9.21239349	12.67484745	4.80428E-08	2.86611E-05	S100a14	
ILMN_1228010	0.346468726	9.21134228	3.215002936	0.007935766	0.042685423	Rem1	
ILMN_2592709	0.53310382	9.210960553	4.690788162	0.000607939	0.008034041	Ifngr2	Mus musculus interferon gamma receptor 2 (Ifngr2), mRNA.
ILMN_2770759	0.358516755	9.210910203	3.405751979	0.005628444	0.034024529	Cdk2	
ILMN_2812614	0.365238312	9.208587955	3.254540418	0.007389147	0.040825933	Reck	Mus musculus reversion-inducing-cysteine-rich protein with kazal motifs (Reck), mRNA.
ILMN_2904083	0.342135734	9.206137482	4.006564811	0.001943147	0.016972661	Nup98	Mus musculus nucleoporin 98 (Nup98), mRNA.
ILMN_1252139	0.487621846	9.20529429	3.54615986	0.004377332	0.028841691	Mal	
ILMN_2671195	1.517943283	9.203600646	8.203599399	4.2144E-06	0.000318362	St8sia4	Mus musculus ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4 (St8sia4), mRNA.
ILMN_1221646	0.48190385	9.203091453	3.362618406	0.006082013	0.035743994	A530030G15Rik	
ILMN_2750515	1.640456906	9.197698646	4.931617147	0.000409861	0.006229623	Fos	Mus musculus FBJ osteosarcoma oncogene (Fos), mRNA.
ILMN_2478101	0.40323745	9.19709744	3.219739394	0.007868178	0.042434651	Tor3a	
ILMN_2971688	0.903700742	9.193882498	6.927033544	2.1331E-05	0.000922141	Nrg1	Mus musculus neuregulin 1 (Nrg1), mRNA. XM_900811 XM_900817 XM_900821 XM_900824 XM_900832 XM_900835 XM_912993 XM_922562 XM_922570 XM_922577 XM_922594 XM_922603 XM_922607 XM_922617 XM_922623 XM_922629 XM_922636 XM_986275 XM_986302 XM_986330

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ILMN_2614304	0.462132387	9.191104062	3.853453741	0.002539688	0.020262309	Pola2	Mus musculus polymerase (DNA directed), alpha 2 (Pola2), mRNA.
ILMN_2469329	0.636005495	9.189281464	4.631935211	0.000670237	0.008631335	Tnfrsf1a	Mus musculus tumor necrosis factor receptor superfamily, member 1a (Tnfrsf1a), mRNA.
ILMN_3137980	0.504162948	9.189091202	3.122856401	0.009374219	0.047471455	Zfp41	Mus musculus zinc finger protein 41 (Zfp41), transcript variant 2, mRNA.
ILMN_2670313	0.323149689	9.187479715	3.204066987	0.008094076	0.043268211	0610010F05Rik	
ILMN_2657780	0.389998935	9.187227253	3.162100234	0.008731863	0.045366524	D11Wsu99e	Mus musculus DNA segment, Chr 11, Wayne State University 99, expressed (D11Wsu99e), mRNA.
ILMN_1219305	0.536852625	9.186038063	3.80947002	0.002743983	0.021232058	Gstm6	
ILMN_2847038	0.945841841	9.182610161	5.56563422	0.000150929	0.003262327	Mta3	Mus musculus metastasis associated 3 (Mta3), mRNA.
ILMN_1239386	0.886309507	9.181188988	5.212265208	0.000261542	0.004710323	5230401C23Rik	
ILMN_1213947	0.687936315	9.179194282	7.769428807	7.16238E-06	0.000449778	Slc25a24	Mus musculus solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 24 (Slc25a24), mRNA.
ILMN_1221253	0.431746402	9.178018175	5.326056341	0.000218683	0.004198256	Mef2a	
ILMN_1214500	0.673724508	9.177786076	4.196123548	0.001400066	0.013777222	Rgma	Mus musculus RGM domain family, member A (Rgma), mRNA.
ILMN_2909105	0.421373726	9.177312537	3.422199157	0.005464718	0.033360081	2310047D13Rik	Mus musculus RIKEN cDNA 2310047D13 gene (2310047D13Rik), mRNA.
ILMN_1229960	0.558063968	9.177219515	4.26845429	0.001236864	0.012705679	Mcam	Mus musculus melanoma cell adhesion molecule (Mcam), mRNA.
ILMN_2634317	0.596155186	9.175893276	3.902359496	0.002330887	0.019163951	Slc1a3	Mus musculus solute carrier family 1 (glial high affinity glutamate transporter), member 3 (Slc1a3), mRNA.
ILMN_2591031	1.313399429	9.175557038	8.114695613	4.68992E-06	0.000340169	Niban	
ILMN_2746721	0.513410015	9.175299661	4.834690669	0.000479877	0.006890072	Rnaseh2a	
ILMN_2606210	1.177831835	9.173391508	4.886385337	0.000441092	0.006548769	Dpt	
ILMN_2631003	0.255168595	9.172840591	3.203581934	0.008101172	0.043296362	Rpl4	Mus musculus ribosomal protein L4 (Rpl4), mRNA.
ILMN_2878548	1.777174487	9.166218089	9.46679097	1.00647E-06	0.000147281	Mthfd2	Mus musculus methylenetetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate cyclohydrolase (Mthfd2), mRNA.
ILMN_1253850	0.32799745	9.163517749	3.62677325	0.003791637	0.026325237	Stim2	
ILMN_2959372	0.629484089	9.161700744	3.219453794	0.007872237	0.042439965	1810046I24Rik	Mus musculus C-type lectin domain family 4, member b1 (Clec4b1), mRNA.
ILMN_2685733	2.081395414	9.155994761	14.82320787	8.93785E-09	9.0622E-06	4732474O15Rik	
ILMN_3001013	0.475902888	9.154674655	3.301966157	0.006783594	0.03862489	Armcx5	Mus musculus armadillo repeat containing, X-linked 5 (Armcx5), mRNA.
ILMN_2592519	0.907045663	9.153679368	5.292491478	0.000230494	0.00435346	Hfe	Mus musculus hemochromatosis (Hfe), mRNA.
ILMN_1250907	0.668969672	9.153484909	4.578887469	0.000732136	0.009132761	Mcm2	Mus musculus minichromosome maintenance deficient 2 mitotin (S. cerevisiae) (Mcm2), mRNA.
ILMN_1227325	0.337278713	9.151883066	3.137191365	0.009134221	0.046740738	Nfib	

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ILMN_2954987	1.33847147	9.151754743	3.276489589	0.007102345	0.039738163	Mb	Mus musculus myoglobin (Mb), mRNA.
ILMN_2648346	1.454917018	9.147442341	6.381745048	4.53259E-05	0.001500195	Bst1	Mus musculus bone marrow stromal cell antigen 1 (Bst1), mRNA.
ILMN_2684234	0.498748621	9.142760405	3.521003718	0.004578503	0.029713578	Tlr4	
ILMN_2432292	0.684886856	9.142733343	5.609512482	0.000141143	0.003132276	9230102O04Rik	
ILMN_2634235	0.643347116	9.137426172	4.847826437	0.000469693	0.006805272	E430025L02Rik	
ILMN_2760548	1.831021356	9.136891389	11.03051733	2.08138E-07	5.64408E-05	9330140K16Rik	
ILMN_2972748	0.768866425	9.131782699	3.430386717	0.005385034	0.033059703	Epha1	Mus musculus Eph receptor A1 (Epha1), mRNA.
ILMN_1228093	0.696973711	9.12829011	5.329770815	0.000217416	0.004187405	3110043J09Rik	
ILMN_2777351	0.5111255	9.125798503	4.801775791	0.000506428	0.007147167	Ick	Mus musculus intestinal cell kinase (Ick), mRNA.
ILMN_1255779	0.494914939	9.12411794	3.405680312	0.005629168	0.034024529	Tbc1d8	
ILMN_3123473	1.335937705	9.121801222	7.01783089	1.88851E-05	0.000836096	Aldh18a1	Mus musculus aldehyde dehydrogenase 18 family, member A1 (Aldh18a1), transcript variant 1, mRNA.
ILMN_2417813	0.648256233	9.120052385	5.618692412	0.000139182	0.003109828	Tuba7	
ILMN_1244130	0.616821087	9.119417086	4.126431652	0.001578602	0.014795829	Pon3	Mus musculus paraoxonase 3 (Pon3), mRNA.
ILMN_2450689	0.77502282	9.117224511	4.665074845	0.000634375	0.008294385	Hoxb3	
ILMN_1218116	0.603217022	9.11587728	3.336850871	0.006370577	0.036943154	Bmp1	Mus musculus bone morphogenetic protein 1 (Bmp1), mRNA.
ILMN_3156246	1.27661291	9.115602899	6.14953368	6.32323E-05	0.001837896	Cdh3	Mus musculus cadherin 3 (Cdh3), transcript variant 1, mRNA.
ILMN_2950622	0.971483778	9.113439083	5.297102333	0.000228832	0.004344168	Arhgdig	Mus musculus Rho GDP dissociation inhibitor (GDI) gamma (Arhgdig), mRNA.
ILMN_3162771	0.448799714	9.113172472	3.338128033	0.006355951	0.036903178	Josd3	Mus musculus Josephin domain containing 3 (Josd3), transcript variant 2, mRNA.
ILMN_2697380	0.475970122	9.112635506	3.370119627	0.006000537	0.035500282	Notch3	
ILMN_2659168	1.043758673	9.111952923	5.748403441	0.000114362	0.002753804	Cib2	Mus musculus calcium and integrin binding family member 2 (Cib2), mRNA.
ILMN_1219431	0.452246482	9.111902207	3.468370081	0.005030608	0.031644133	Gabarapl2	Mus musculus gamma-aminobutyric acid (GABA-A) receptor-associated protein-like 2 (Gabarapl2), mRNA.
ILMN_2716602	0.603668478	9.111336216	3.609175911	0.003912229	0.026868263	Lgals9	Mus musculus lectin, galactose binding, soluble 9 (Lgals9), mRNA.
ILMN_2917441	0.573420788	9.111303155	4.565318693	0.000748913	0.009250651	Rusc1	Mus musculus RUN and SH3 domain containing 1 (Rusc1), mRNA.
ILMN_2418725	0.326330189	9.106488513	3.836720875	0.002615491	0.020605299	Zdhhc3	Mus musculus zinc finger, DHHC domain containing 3 (Zdhhc3), mRNA.
ILMN_2427108	0.474105213	9.105883697	3.465677763	0.005054927	0.03170901	Zfp36l1	Mus musculus zinc finger protein 36, C3H type-like 1 (Zfp36l1), mRNA.
ILMN_2758562	0.755104969	9.105872143	5.6643107	0.000129857	0.002962255	AW049765	
ILMN_2666181	0.743145571	9.104926186	4.661016778	0.000638656	0.008332554	Grb14	Mus musculus growth factor receptor bound protein 14 (Grb14), mRNA.
ILMN_2763245	1.212079203	9.104680194	3.272160538	0.007158002	0.039918535	Cxcl1	Mus musculus chemokine (C-X-C motif) ligand 1 (Cxcl1), mRNA.
ILMN_1225988	0.344103408	9.104118277	3.512478018	0.004648812	0.029998537	Zdhhc3	Mus musculus zinc finger, DHHC domain containing 3 (Zdhhc3), mRNA.
ILMN_2776857	0.764342688	9.099870673	6.383727247	4.51986E-05	0.001500195	Mad2l1	

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2653972	0.473148543	9.096918582	4.652176696	0.000648087	0.008407762	G630055P03Rik	Mus musculus centromere protein T (Cenpt), mRNA.
ILMN_1258300	0.559968122	9.094029684	3.833750821	0.002629188	0.020665451	Ifngr2	Mus musculus interferon gamma receptor 2 (Ifngr2), mRNA.
ILMN_1217919	0.358084765	9.092229575	3.19905223	0.008167737	0.043496251	D11Wsu99e	Mus musculus DNA segment, Chr 11, Wayne State University 99, expressed (D11Wsu99e), mRNA.
ILMN_2762863	0.397006606	9.091972391	3.104468357	0.009691421	0.048585372	AI606181	
ILMN_2734340	0.609059506	9.09064795	4.576845589	0.000734636	0.009144305	Stx11	
ILMN_2981542	0.781694311	9.089482319	5.004655975	0.00036425	0.005775481	Mfap2	Mus musculus microfibrillar-associated protein 2 (Mfap2), mRNA.
ILMN_2749327	1.324537332	9.088667712	7.795728697	6.93179E-06	0.000439929	Pqlc3	Mus musculus PQ loop repeat containing (Pqlc3), mRNA.
ILMN_1228469	2.457916147	9.088626567	11.51581403	1.32552E-07	4.2027E-05	Apoc1	Mus musculus apolipoprotein C-I (Apoc1), mRNA.
ILMN_1241225	0.501038308	9.088052265	4.054871452	0.001786713	0.016089179	Dctd	Mus musculus dCMP deaminase (Dctd), mRNA.
ILMN_1259623	0.395536874	9.087145453	3.757670629	0.003006502	0.022589471	LOC210157	
ILMN_3133352	0.601019226	9.086807297	4.084159073	0.00169829	0.015545826	Ung	
ILMN_2772691	1.455477021	9.085795319	6.358870921	4.68219E-05	0.001534767	Phgdh	
ILMN_3110425	0.700730746	9.08413652	5.658493199	0.000131008	0.002977386	Myo1c	Mus musculus myosin IC (Myo1c), transcript variant 1, mRNA.
ILMN_2654554	0.469118651	9.079624328	3.228400309	0.007746094	0.042012583	Fgl2	Mus musculus fibrinogen-like protein 2 (Fgl2), mRNA.
ILMN_2830445	0.36732405	9.07955548	3.590363666	0.004045509	0.027309188	Mcph1	Mus musculus microcephaly, primary autosomal recessive 1 (Mcph1), mRNA.
ILMN_1260036	1.242937282	9.076846183	7.020536195	1.8817E-05	0.000835949	AW120700	
ILMN_2727980	1.434351434	9.076393823	3.498562882	0.004765948	0.030448235	AA415817	
ILMN_1221494	0.901626194	9.073748293	8.531713669	2.86113E-06	0.000262999	Ubtd2	Mus musculus ubiquitin domain containing 2 (Ubtd2), mRNA.
ILMN_2658407	0.582751731	9.073502088	3.36026611	0.006107794	0.035810884	Elmo1	Mus musculus engulfment and cell motility 1, ced-12 homolog (C. elegans) (Elmo1), transcript variant 2, mRNA.
ILMN_3102643	0.304779968	9.071945784	3.333471626	0.006409441	0.037087412	Tdg	Mus musculus thymine DNA glycosylase (Tdg), transcript variant 1, mRNA.
ILMN_3085992	0.562908221	9.070794219	3.705085469	0.003299584	0.023983541	Ifi202b	Mus musculus interferon activated gene 202B (Ifi202b), mRNA.
ILMN_2466164	0.594289049	9.06609884	4.601198989	0.000705402	0.008944209	Wfdc1	
ILMN_2428931	0.65417539	9.064242653	4.705256408	0.000593574	0.007935276	4631426J05Rik	
ILMN_1250956	1.172776093	9.063755221	3.530384834	0.004502398	0.029403593	6330414G02Rik	
ILMN_1254577	0.549647768	9.062792658	3.764445481	0.002970744	0.022405457	LOC226691	
ILMN_1249486	1.203580019	9.060123419	6.102503148	6.77036E-05	0.001932548	Mgl1	
ILMN_2729745	0.981049391	9.058957009	8.261166326	3.93432E-06	0.000310746	E130115E03Rik	
ILMN_2996704	1.067597225	9.058882532	4.127478063	0.001575753	0.014792367	EG624219	Mus musculus predicted gene, EG624219 (EG624219), mRNA.
ILMN_1250067	0.753580058	9.058616598	4.892274962	0.000436887	0.006507762	4732469G06Rik	
ILMN_2509817	0.430538182	9.056943475	3.199668138	0.008158653	0.043460516	Atp8a1	
ILMN_2683356	0.69579976	9.056831076	4.323077561	0.001126835	0.01193505	Atp6v1g3	

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ILMN_2612238	0.54565211	9.056289486	3.997512562	0.001974008	0.017165089	AW212394	
ILMN_2657682	0.314618669	9.054677064	3.201143531	0.008136936	0.0434095	2010308M01Rik	
ILMN_1218681	0.862542994	9.047726941	4.866116283	0.000455891	0.00666192	Cp	
ILMN_1230587	0.513883644	9.044011778	4.973735638	0.000382869	0.005967611	Lpxn	Mus musculus leupaxin (Lpxn), mRNA.
ILMN_2689756	0.466169299	9.04356917	5.257538023	0.000243513	0.00449941	Cast	
ILMN_2766780	0.553361644	9.040696452	3.75778469	0.003005896	0.022589471	Lyzs	
ILMN_3161500	0.486991183	9.040658397	3.101627145	0.00974139	0.0487744	I830077J02Rik	Mus musculus RIKEN cDNA I830077J02 gene (I830077J02Rik), mRNA.
ILMN_1246800	2.288610025	9.038291327	6.344171355	4.7811E-05	0.001550155	Serpina3n	Mus musculus serine (or cysteine) peptidase inhibitor, clade A, member 3N (Serpina3n), mRNA.
ILMN_2634015	0.370782455	9.038001036	3.387378009	0.005817281	0.034730493	4921532K09Rik	Mus musculus NudC domain containing 1 (Nudcd1), mRNA.
ILMN_1245673	0.489877505	9.033776846	4.214768493	0.001355959	0.013538601	1110001E17Rik	Mus musculus transmembrane protein 38A (Tmem38a), mRNA.
ILMN_2435413	0.513515331	9.032236829	6.215104633	5.75159E-05	0.001730771	3110068G20Rik	
ILMN_1223697	1.325405956	9.026369176	6.690177566	2.9453E-05	0.00113544	Cd44	
ILMN_2978878	0.842325391	9.026113662	6.059694576	7.20668E-05	0.002022105	Lrrc20	Mus musculus leucine rich repeat containing 20 (Lrrc20), mRNA.
ILMN_1235433	1.985333744	9.025217228	8.931305891	1.812E-06	0.000203844	Bmp3	Mus musculus bone morphogenetic protein 3 (Bmp3), mRNA.
ILMN_2727432	0.597355327	9.024048127	3.697798095	0.003342462	0.024184708	Stab1	Mus musculus stabilin 1 (Stab1), mRNA.
ILMN_1237886	0.830322974	9.022735313	5.380544819	0.000200853	0.003982251	Enc1	Mus musculus ectodermal-neural cortex 1 (Enc1), mRNA.
ILMN_1226016	1.439252999	9.016549362	6.975715682	1.99801E-05	0.000870485	Scx	Mus musculus scleraxis (Scx), mRNA.
ILMN_2767764	0.540133943	9.014397681	4.954534967	0.000394934	0.006090531	Ifrg15	Mus musculus interferon alpha responsive gene (Ifrg15), mRNA.
ILMN_1248403	0.355968042	9.012701934	3.123906762	0.009356419	0.047413937	scl0001550.1_29	
ILMN_1253593	0.627918961	9.010804656	5.250270935	0.000246316	0.00453537	Zfp537	
ILMN_2624180	1.257594826	9.008678114	7.004103324	1.92348E-05	0.00084375	9030418M05Rik	Mus musculus tetraspanin 1 (Tspan1), mRNA.
ILMN_2846776	1.682609871	9.008256954	11.86497865	9.67634E-08	3.59956E-05	Cdkn1a	Mus musculus cyclin-dependent kinase inhibitor 1A (P21) (Cdkn1a), mRNA.
ILMN_2799361	0.772725593	9.007854257	8.325723218	3.64383E-06	0.000299553	Tnip1	Mus musculus TNFAIP3 interacting protein 1 (Tnip1), mRNA.
ILMN_2920736	1.184638563	9.007604241	8.322675015	3.65702E-06	0.000299553	Bbc3	Mus musculus Bcl-2 binding component 3 (Bbc3), mRNA.
ILMN_1216871	0.634492467	9.007205874	4.673264722	0.000625826	0.008214568	Lcp1	
ILMN_2689785	1.249313305	9.006992602	6.642182815	3.14706E-05	0.001186387	Cd68	
ILMN_2809334	0.75499991	9.005131232	5.663736564	0.00012997	0.002962255	Zfp37	Mus musculus zinc finger protein 37 (Zfp37), mRNA.
ILMN_3103896	1.86177723	9.004380596	5.665217422	0.000129679	0.002961265	Timp1	Mus musculus tissue inhibitor of metalloproteinase 1 (Timp1), transcript variant 2, mRNA.
ILMN_2754155	1.630671633	9.003705432	9.900359797	6.37232E-07	0.000118357	Gpr126	
ILMN_2631171	1.74548493	8.999518226	10.08884712	5.25026E-07	0.000103014	2310020F24Rik	
ILMN_2916035	0.61952646	8.998499567	3.858706128	0.002516364	0.020157101	Lmnb1	Mus musculus lamin B1 (Lmnb1), mRNA.

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ILMN_2424983	0.613857005	8.992311641	4.689367882	0.000609368	0.008040007	C030014I23Rik	
ILMN_2888834	1.406509948	8.987335214	7.414616735	1.12248E-05	0.0005987	Apob48r	Mus musculus apolipoprotein B48 receptor (Apob48r), mRNA.
ILMN_1233793	0.325168268	8.985963534	3.195881405	0.008214662	0.043609896	Cct7	Mus musculus chaperonin subunit 7 (eta) (Cct7), mRNA.
ILMN_3139514	0.651784768	8.985938861	3.567267264	0.004215537	0.028097024	Tbx3	Mus musculus T-box 3 (Tbx3), transcript variant 1, mRNA.
ILMN_2420465	0.684643668	8.985206042	5.751051363	0.000113907	0.002748399	End2	
ILMN_2805672	0.84266146	8.984814597	4.585564971	0.000724026	0.009088596	Pftk1	Mus musculus PFTAIRE protein kinase 1 (Pftk1), mRNA.
ILMN_2454692	0.381747919	8.984539707	4.246849157	0.001283425	0.01299931	Ubtd1	Mus musculus ubiquitin domain containing 1 (Ubtd1), mRNA.
ILMN_2777879	0.565989073	8.980896337	5.52668735	0.000160218	0.003404526	Kcnq1	
ILMN_2951407	0.691131732	8.976958851	7.584996954	9.02996E-06	0.00052944	Sbsn	Mus musculus suprabasin (Sbsn), mRNA.
ILMN_2770968	2.733168325	8.976373054	9.686901203	7.9641E-07	0.000135911	Msr2	
ILMN_1247358	0.856803997	8.974313841	4.620781642	0.00068278	0.008749423	Emid2	Mus musculus EMI domain containing 2 (Emid2), mRNA.
ILMN_2984434	0.377737824	8.973879663	3.509700293	0.004671956	0.030107183	Nle1	Mus musculus notchless homolog 1 (Drosophila) (Nle1), mRNA.
ILMN_2587638	1.231523683	8.97239212	5.519061924	0.000162107	0.003420295	C230080E09Rik	
ILMN_1243900	1.104730375	8.970901957	8.660300564	2.46572E-06	0.000242488	Eppk1	Mus musculus epiplakin 1 (Eppk1), mRNA.
ILMN_2748164	0.561711915	8.969699678	3.69082026	0.003384057	0.024389532	Hist1h3b	
ILMN_1242687	0.381846803	8.967446619	3.173040466	0.008560853	0.044721461	Glt28d1	
ILMN_2651137	0.581112389	8.966621057	3.744696145	0.003076226	0.022915342	Lck	Mus musculus lymphocyte protein tyrosine kinase (Lck), mRNA.
ILMN_2676056	0.291340657	8.965018077	3.253834219	0.007398567	0.040849607	Aqr	Mus musculus aquarius (Aqr), mRNA.
ILMN_1258136	0.726755352	8.963580757	7.874128735	6.29046E-06	0.000409902	A430106J12Rik	
ILMN_2543108	0.535700105	8.962794002	5.781200191	0.000108862	0.002675359	Wdt3-pending	
ILMN_2472917	0.398123689	8.961869371	3.10602122	0.009664219	0.04849995	Wnt5a	Mus musculus wingless-related MMTV integration site 5A (Wnt5a), mRNA.
ILMN_1221060	1.193322014	8.960002747	3.183252085	0.00840429	0.044242572	Pparg	Mus musculus peroxisome proliferator activated receptor gamma (Pparg), mRNA.
ILMN_3160568	0.556459949	8.959125414	5.181063448	0.000274785	0.00485	Ankrd50	Mus musculus ankrin repeat domain 50 (Ankrd50), mRNA.
ILMN_2836586	0.594456705	8.95799343	6.163221867	6.19908E-05	0.001816433	0610009O03Rik	Mus musculus RIKEN cDNA 0610009O03 gene (0610009O03Rik), mRNA.
ILMN_3021272	0.425061561	8.956377372	3.80308611	0.002775016	0.021392498	Adar	Mus musculus adenosine deaminase, RNA-specific (Adar), transcript variant 1, mRNA.
ILMN_2614462	2.233421017	8.952827038	9.998548278	5.75862E-07	0.000111722	Krt1-19	
ILMN_1254383	0.345516575	8.95210214	3.898910866	0.002345012	0.01924313	Atrn	
ILMN_2670527	0.621910777	8.951733435	3.853507341	0.002539448	0.020262309	Rbm9	Mus musculus RNA binding motif protein 9 (Rbm9), transcript variant 1, mRNA.
ILMN_2533143	1.182728591	8.94514066	6.25728436	5.41316E-05	0.001651844	LOC234081	
ILMN_2449644	0.522811482	8.944724541	3.647771512	0.003652723	0.025584068	Fbln1	
ILMN_2700885	0.631855228	8.941228841	4.910655923	0.000424034	0.006388081	Rgn	

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ILMN_2811737	1.077041144	8.941155737	6.504348428	3.81305E-05	0.001350014	Casp4	Mus musculus caspase 4, apoptosis-related cysteine peptidase (Casp4), mRNA.
ILMN_2645816	0.784888357	8.940623613	3.682883231	0.003432017	0.024608842	Cpxm1	Mus musculus carboxypeptidase X 1 (M14 family) (Cpxm1), mRNA.
ILMN_2997494	1.051584985	8.939652828	7.213679794	1.45731E-05	0.000724212	Lox	Mus musculus lysyl oxidase (Lox), mRNA.
ILMN_2929896	0.920975586	8.938655886	5.990295496	7.97883E-05	0.002161267	Pbk	Mus musculus PDZ binding kinase (Pbk), mRNA.
ILMN_1248397	0.433888654	8.937961061	4.014035894	0.001918053	0.016808849	Smarcd3	
ILMN_2731901	0.459161916	8.937288986	4.119968187	0.001596319	0.014920861	S100a4	Mus musculus S100 calcium binding protein A4 (S100a4), mRNA.
ILMN_1234223	0.722458196	8.936982289	4.197835166	0.001395955	0.013758589	AI132321	Mus musculus phospholipase D family, member 4 (Pld4), mRNA.
ILMN_2745689	0.50310345	8.933858422	4.027035928	0.001875187	0.016556916	Stard13	Mus musculus serologically defined colon cancer antigen 13 (Stard13), mRNA.
ILMN_2728889	1.532936483	8.933470543	9.033111299	1.61699E-06	0.00019206	Sdk1	
ILMN_2659151	0.791890522	8.930933441	5.231426045	0.000253745	0.00462576	Thbs1	
ILMN_2944657	0.387589637	8.927393862	4.283319188	0.001205854	0.012521891	4930506M07Rik	Mus musculus RIKEN cDNA 4930506M07 gene (4930506M07Rik), mRNA.
ILMN_2640995	0.826036204	8.923964273	5.014447511	0.000358555	0.005730873	Spire2	Mus musculus spire homolog 2 (Drosophila) (Spire2), mRNA.
ILMN_2459899	0.937118031	8.921665267	8.018713707	5.26878E-06	0.000359894	Tsrc1	Mus musculus ADAMTS-like 4 (Adamtsl4), mRNA.
ILMN_2624827	0.685631142	8.917071356	4.348952765	0.001078328	0.011616681	Tcf19	Mus musculus transcription factor 19 (Tcf19), mRNA.
ILMN_2734212	0.836152603	8.914227931	3.41080203	0.005577646	0.033815898	Cd1d1	Mus musculus CD1d1 antigen (Cd1d1), mRNA.
ILMN_3161863	0.461718086	8.912931609	3.350840574	0.006212221	0.03624064	AI595366	Mus musculus expressed sequence AI595366 (AI595366), mRNA.
ILMN_3153753	0.51442641	8.911390967	3.466101017	0.005051096	0.031704692	Cacnb3	
ILMN_2706514	0.452817688	8.90255885	3.858505981	0.002517249	0.020157421	Bcl2	Mus musculus B-cell leukemia/lymphoma 2 (Bcl2), transcript variant 1, mRNA.
ILMN_2776271	0.386769711	8.900310774	3.431273725	0.005376473	0.033041147	A730042J05Rik	
ILMN_1256772	0.923256471	8.897246583	7.972936668	5.57148E-06	0.000373462	Btg2	
ILMN_2952661	0.796425753	8.896563099	5.592798675	0.000144789	0.003184413	Dbf4	Mus musculus DBF4 homolog (S. cerevisiae) (Dbf4), mRNA.
ILMN_2723523	0.506231279	8.895006258	4.100708413	0.001650347	0.015240803	Tjp3	
ILMN_1225085	0.500069739	8.893953684	3.603638937	0.003950982	0.026985956	Prkcb	
ILMN_1254655	0.860607238	8.891366172	4.733875231	0.000566201	0.007708669	Casp4	Mus musculus caspase 4, apoptosis-related cysteine peptidase (Casp4), mRNA.
ILMN_2771237	0.670528009	8.890159312	3.860224955	0.002509661	0.020130437	Lbp	
ILMN_2495475	0.634555321	8.888352198	4.563218283	0.000751545	0.009277874	Vav3	
ILMN_2774007	0.927033062	8.888233625	6.445255378	4.14332E-05	0.00142262	Bub1b	
ILMN_2697361	0.449816333	8.88748891	4.177960618	0.00144447	0.014023343	B930096L08Rik	Mus musculus DENN/MADD domain containing 2A (Dennd2a), mRNA.
ILMN_2923463	1.159670331	8.883028182	7.539984522	9.56105E-06	0.00054845	Kif23	Mus musculus kinesin family member 23 (Kif23), mRNA.
ILMN_2668236	0.279067759	8.87979995	3.269071008	0.007197994	0.040050008	Dos	

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ILMN_1228385	1.509378572	8.872489328	7.454107132	1.06695E-05	0.000585403	Itpr3	
ILMN_1233911	0.787810857	8.86902791	8.138484016	4.55728E-06	0.00033257	A830021K08Rik	
ILMN_2693991	0.666490461	8.868984445	6.309565592	5.02287E-05	0.001591775	Gpr65	Mus musculus G-protein coupled receptor 65 (Gpr65), mRNA.
ILMN_2463181	0.778069478	8.868439805	3.493264051	0.004811344	0.030633162	Tnc	
ILMN_3099758	0.630747425	8.868021299	3.149660841	0.008930509	0.046043244	Pi4k2b	Mus musculus phosphatidylinositol 4-kinase type 2 beta (Pi4k2b), transcript variant 2, mRNA.
ILMN_2716622	0.329059887	8.860651322	3.665548167	0.003539214	0.025083681	Mapk11	Mus musculus mitogen-activated protein kinase 11 (Mapk11), mRNA.
ILMN_2648669	1.762777657	8.85947734	10.57903084	3.21588E-07	7.59809E-05	Gpnmb	Mus musculus glycoprotein (transmembrane) nmb (Gpnmb), mRNA.
ILMN_2719834	0.376541646	8.857883439	3.362558779	0.006082665	0.035743994	Ccm2	
ILMN_1249435	0.68648314	8.857699074	4.644620544	0.000656264	0.008492645	Gprk5	Mus musculus G protein-coupled receptor kinase 5 (Grk5), mRNA.
ILMN_2853225	0.471933607	8.856283442	4.426743597	0.000945201	0.010696607	Smchd1	Mus musculus SMC hinge domain containing 1 (Smchd1), mRNA.
ILMN_2702989	0.525541897	8.854436078	4.66605516	0.000633345	0.008285915	Tex10	
ILMN_2800687	0.593899258	8.854315375	4.479408785	0.000864917	0.010157241	Hr	Mus musculus hairless (Hr), mRNA.
ILMN_1216301	0.5100607	8.852713284	5.432530965	0.000185271	0.003759458	Impdh1	Mus musculus inosine 5'-phosphate dehydrogenase 1 (Impdh1), mRNA.
ILMN_1250530	1.257527013	8.851233852	5.284646733	0.00023335	0.004398449	Muc20	
ILMN_1221110	0.472616829	8.848886233	4.461933811	0.000890734	0.010328881	6430515G22Rik	
ILMN_2591029	1.353341607	8.847989411	8.140006723	4.54893E-06	0.00033257	Niban	
ILMN_2731379	0.506861707	8.847047914	4.724389359	0.000575124	0.007776522	6430527G18Rik	
ILMN_2705078	0.75457316	8.844909518	5.271807565	0.000238106	0.00444248	Csda	
ILMN_1253972	0.388030761	8.842709738	3.66554493	0.003539235	0.025083681	Irak3	Mus musculus interleukin-1 receptor-associated kinase 3 (Irak3), mRNA.
ILMN_2745367	0.580436967	8.842225413	4.754925288	0.000546916	0.007557064	Myo1c	
ILMN_2946088	0.810404784	8.841098498	5.791309998	0.000107224	0.002651355	Panx1	Mus musculus pannexin 1 (Panx1), mRNA.
ILMN_2634689	1.053322324	8.839859577	5.333301261	0.000216219	0.004171081	Itgb4	
ILMN_2504374	0.589916829	8.83486494	5.590468458	0.000145305	0.003188647	Mr1	
ILMN_3053593	0.630547493	8.834598791	3.384346222	0.005849056	0.034825944	Glipr2	Mus musculus GLI pathogenesis-related 2 (Glipr2), mRNA.
ILMN_3006219	0.423919704	8.834517114	3.116022993	0.009490856	0.047881669	Fyb	Mus musculus FYN binding protein (Fyb), mRNA.
ILMN_2941280	1.407698129	8.8299111	6.669913375	3.02875E-05	0.001152712	Artn	Mus musculus artemin (Artn), mRNA.
ILMN_2726030	1.300450252	8.82467724	6.195085659	5.92004E-05	0.001765328	Apcdd1	Mus musculus adenomatosis polyposis coli down-regulated 1 (Apcdd1), mRNA.
ILMN_2776651	0.283708448	8.822473088	3.096385401	0.009834261	0.04909419	Klf16	
ILMN_1212836	0.598585194	8.821653681	3.921262731	0.002255015	0.018782343	Ptprc	
ILMN_2933887	0.579846528	8.82028657	3.475468283	0.004967066	0.031365761	1200013B08Rik	Mus musculus RIKEN cDNA 1200013B08 gene (1200013B08Rik), mRNA.
ILMN_2519673	1.071062706	8.817479993	3.755587664	0.003017585	0.022629992	Vwf	

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2711461	0.65144819	8.814390596	5.218411144	0.000259014	0.004687324	Tgfb1	Mus musculus transforming growth factor, beta 1 (Tgfb1), mRNA.
ILMN_2769918	1.915248396	8.813198867	5.421836674	0.000188369	0.003796485	Timp1	
ILMN_1237773	1.374105288	8.810479738	9.022751057	1.63576E-06	0.00019206	Rhou	Mus musculus ras homolog gene family, member U (Rhou), mRNA.
ILMN_1254561	1.264186371	8.80983346	7.689640247	7.91375E-06	0.000482267	Csf1	
ILMN_1220315	0.425038044	8.809485464	4.098751318	0.001655943	0.01528065	LOC245522	
ILMN_2543929	0.666980762	8.804459864	4.779860276	0.00052496	0.00733868	2610036L11Rik	
ILMN_2904137	0.843921383	8.804051796	3.58935597	0.004052778	0.027327339	Ambp	Mus musculus alpha 1 microglobulin/bikunin (Ambp), mRNA.
ILMN_2715744	0.426167572	8.803605211	4.972636991	0.000383549	0.005973886	Mapk3	
ILMN_1251253	0.420760908	8.80338451	3.909365604	0.002302463	0.019031409	2610002I17Rik	
ILMN_1257547	0.537859124	8.802406088	3.670961329	0.003505375	0.02495643	Tox	Mus musculus thymocyte selection-associated HMG box gene (Tox), mRNA. XM_919293 XM_919306
ILMN_1246270	0.782365751	8.80234664	6.679295079	2.98981E-05	0.001143992	4833427B12Rik	
ILMN_1252464	0.47946323	8.80234563	3.41762855	0.005509723	0.033557558	Pcsk4	Mus musculus proprotein convertase subtilisin/kexin type 4 (Pcsk4), mRNA.
ILMN_1244484	0.669976046	8.801878654	4.906056603	0.000427212	0.006407646	Robo1	
ILMN_1250075	0.780621334	8.801386825	4.918269524	0.000418827	0.006345696	Dpysl3	Mus musculus dihydropyrimidinase-like 3 (Dpysl3), mRNA.
ILMN_2468473	0.530329544	8.799001911	4.502572957	0.000831896	0.0099357	B230343A10Rik	
ILMN_1224077	0.42762208	8.798383943	5.062830803	0.000331759	0.005462065	Vav1	Mus musculus vav 1 oncogene (Vav1), mRNA.
ILMN_1212717	0.781158041	8.797229498	3.888513232	0.002388136	0.019469793	Tgif	Mus musculus TG interacting factor 1 (Tgif1), mRNA.
ILMN_1256263	0.754412945	8.797185682	4.993068939	0.000371113	0.005862414	Camkk2	Mus musculus calcium/calmodulin-dependent protein kinase kinase 2, beta (Camkk2), mRNA.
ILMN_2882079	0.334771751	8.797021152	3.237504215	0.007619835	0.041584551	Phf13	Mus musculus PHD finger protein 13 (Phf13), mRNA.
ILMN_2501489	0.655813952	8.795908792	4.037940988	0.001839996	0.016437292	Was	Mus musculus Wiskott-Aldrich syndrome homolog (human) (Was), mRNA.
ILMN_2999439	0.518160591	8.794386102	3.91485386	0.002280448	0.018914108	Klf4	Mus musculus Kruppel-like factor 4 (gut) (Klf4), mRNA.
ILMN_2510920	0.854812023	8.792463631	4.710296894	0.000588654	0.007900483	C130080N23Rik	
ILMN_2993661	0.497287838	8.788899987	4.139292844	0.001543954	0.014655283	Trim59	Mus musculus tripartite motif-containing 59 (Trim59), mRNA.
ILMN_2630884	0.520187698	8.787160429	4.827289141	0.000485717	0.006957182	2010301N04Rik	Mus musculus RIKEN cDNA 2010301N04 gene (2010301N04Rik), mRNA.
ILMN_1245326	1.405051724	8.786780508	8.107677515	4.72984E-06	0.000340991	Cntn1	
ILMN_2737867	1.210756185	8.782820807	9.218346552	1.31775E-06	0.000171392	Mtap1b	Mus musculus microtubule-associated protein 1 B (Mtap1b), mRNA.
ILMN_2664884	0.569076656	8.782536379	3.806317272	0.002759264	0.021315998	Tspan17	Mus musculus tetraspanin 17 (Tspan17), mRNA.
ILMN_2547942	0.870583184	8.78003807	8.215604037	4.15427E-06	0.000317533	4833427B12Rik	
ILMN_1221852	0.721263598	8.778911775	4.345569908	0.001084543	0.011647684	B830028P19Rik	Mus musculus transmembrane protein 118 (Tmem118), mRNA.
ILMN_2463180	0.745581454	8.777454492	4.032903889	0.001856165	0.01649929	Tnc	
ILMN_2664686	1.287595233	8.77600315	10.46536916	3.59688E-07	8.17452E-05	Chaf1b	Mus musculus chromatin assembly factor 1, subunit B (p60) (Chaf1b), mRNA.

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2896823	0.458304413	8.773659454	4.138211098	0.001546838	0.014676815	Rbbp7	Mus musculus retinoblastoma binding protein 7 (Rbbp7), mRNA.
ILMN_2485044	0.742254595	8.773580529	4.947027766	0.00039976	0.006134702	Tubb2	Mus musculus tubulin, beta 2a (Tubb2a), mRNA.
ILMN_1233896	0.445583345	8.772784231	4.48342269	0.000859098	0.01014382	T2bp	Mus musculus Traf2 binding protein (T2bp), mRNA.
ILMN_2769772	1.352423466	8.772205204	7.477644901	1.03526E-05	0.00057474	1500004A08Rik	
ILMN_2551827	1.0075945	8.771928887	7.453972814	1.06714E-05	0.000585403	Dncic2	
ILMN_2692644	2.05297337	8.770712396	5.455887941	0.000178692	0.003670215	BC054059	
ILMN_2438962	0.45163058	8.770603846	4.738589073	0.000561821	0.007665376	2900054C01Rik	
ILMN_2500533	0.435434774	8.769879978	3.303074706	0.00677006	0.038575438	AI415330	
ILMN_2535582	0.440461812	8.765147549	3.094559438	0.009866822	0.049185708	LOC382707	
ILMN_1246291	0.79448621	8.764986525	4.237012459	0.001305226	0.013147575	Pwwp2	
ILMN_1213376	1.239818385	8.764839514	7.475986442	1.03746E-05	0.00057474	Cfl1	Mus musculus cofilin 1, non-muscle (Cfl1), mRNA.
ILMN_2737903	0.445071064	8.764743698	3.676267983	0.003472525	0.024787576	Fgd2	
ILMN_2591342	0.841384676	8.764184809	3.677361681	0.003465794	0.024754338	BC021614	
ILMN_1250696	0.641831352	8.762465391	4.366780446	0.001046179	0.011383934	Tpbg	Mus musculus trophoblast glycoprotein (Tpbg), mRNA.
ILMN_1243477	0.386681523	8.761251896	3.53444127	0.004469893	0.029255361	D630036F01Rik	
ILMN_2892413	0.755107364	8.760713382	6.569917531	3.4792E-05	0.001265611	Tnfrsf22	Mus musculus tumor necrosis factor receptor superfamily, member 22 (Tnfrsf22), mRNA.
ILMN_3123657	0.527602499	8.760672387	4.21308621	0.001359879	0.013560713	Vrk1	Mus musculus vaccinia related kinase 1 (Vrk1), transcript variant 2, mRNA.
ILMN_1220861	0.495277198	8.758870501	5.119364871	0.000303102	0.00513636	Dlgap4	
ILMN_1232195	0.483140823	8.756573615	3.10744983	0.009639262	0.048425625	1110028E10Rik	
ILMN_2678513	0.513107989	8.756196183	3.668486656	0.003520804	0.025019933	Pinx1	Mus musculus RIKEN cDNA 2610028A01 gene (2610028A01Rik), mRNA.
ILMN_2966826	0.614853654	8.753553313	3.859339635	0.002513566	0.020148214	Ttll1	Mus musculus tubulin tyrosine ligase-like 1 (Ttll1), mRNA.
ILMN_1232925	0.580681628	8.753123967	4.455909825	0.00089982	0.010408338	BC042423	
ILMN_3077377	0.595635994	8.752518899	4.071394987	0.001736254	0.015794443	Wars	Mus musculus tryptophanyl-tRNA synthetase (Wars), mRNA.
ILMN_2818294	0.419290689	8.750788553	4.115101783	0.001609794	0.014982263	Srpx2	Mus musculus sushi-repeat-containing protein, X-linked 2 (Srpx2), mRNA.
ILMN_2427705	0.621150708	8.75065958	3.4748336	0.004972714	0.031375957	Ak7	
ILMN_1239238	0.640902702	8.748180182	6.172183855	6.11921E-05	0.001801054	Prkch	
ILMN_3162511	0.574576004	8.745508889	4.257841247	0.001259512	0.01285532	Shrm	
ILMN_2972585	0.441623669	8.744387514	3.856550582	0.002525909	0.020172614	Pvr	Mus musculus poliovirus receptor (Pvr), mRNA.
ILMN_1217493	1.026216505	8.742518529	8.409876249	3.29931E-06	0.000280183	Efna4	
ILMN_2723524	0.597498387	8.741671091	3.71240442	0.003257089	0.023783331	Tjp3	
ILMN_2506489	0.825911099	8.741422002	3.920595532	0.002257649	0.018791164	Nav1	
ILMN_2491265	0.408254981	8.739089288	3.689120897	0.003394267	0.024448352	Grip1	

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ILMN_2595597	1.348274997	8.738472868	8.682307778	2.40415E-06	0.000241051	Anln	Mus musculus anillin, actin binding protein (scraps homolog, Drosophila) (Anln), mRNA.
ILMN_2596385	0.978407501	8.738184106	5.426853582	0.000186909	0.003783038	Kcna6	
ILMN_2983714	0.478697416	8.738117955	4.720054241	0.000579251	0.007818254	Apitd1	Mus musculus apoptosis-inducing, TAF9-like domain 1 (Apitd1), mRNA.
ILMN_2460094	1.388797501	8.737444585	5.429345003	0.000186188	0.003774858	Wnt10a	Mus musculus wingless related MMTV integration site 10a (Wnt10a), mRNA.
ILMN_1247017	0.679939523	8.737230096	3.303936946	0.006759551	0.03852476	Tnrc15	
ILMN_3126646	0.504859333	8.735483324	3.862549123	0.00249944	0.020061936	Grip1	Mus musculus glutamate receptor interacting protein 1 (Grip1), transcript variant 2, mRNA.
ILMN_2729452	0.662471679	8.735316444	6.089406322	6.90078E-05	0.001960944	Cyp4f16	Mus musculus cytochrome P450, family 4, subfamily f, polypeptide 16 (Cyp4f16), mRNA.
ILMN_2735865	0.567443785	8.733957948	4.112938825	0.001615822	0.015016811	Rohn	Mus musculus Rho family GTPase 2 (Rnd2), mRNA.
ILMN_1217389	0.668417182	8.733845922	6.171981256	6.121E-05	0.001801054	Pkib	
ILMN_2634358	0.565175677	8.733183354	4.879342459	0.000446176	0.006578466	Msh2	
ILMN_2886896	0.441376531	8.732875509	4.811239224	0.00049864	0.007070136	4632417N05Rik	Mus musculus RIKEN cDNA 4632417N05 gene (4632417N05Rik), mRNA.
ILMN_1252762	1.886159377	8.732500055	8.716636619	2.31138E-06	0.000233714	Trib3	
ILMN_3154553	0.593419677	8.730323255	3.865644175	0.002485895	0.019993567	Slc41a3	Mus musculus solute carrier family 41, member 3 (Slc41a3), transcript variant 2, mRNA.
ILMN_2717079	0.567501926	8.729363708	4.413649582	0.000966346	0.010824058	Hoxa11	
ILMN_2645341	0.916286587	8.726846735	7.137224281	1.61158E-05	0.000772231	AU040576	
ILMN_2812164	0.445072345	8.725486542	4.39230243	0.001001887	0.011078792	Irak4	Mus musculus interleukin-1 receptor-associated kinase 4 (Irak4), mRNA.
ILMN_1222031	1.171428972	8.722911655	6.260763317	5.38621E-05	0.00164995	Zfp276	
ILMN_2862538	0.763379029	8.722897749	6.027274991	7.55699E-05	0.002087181	Col12a1	Mus musculus procollagen, type XII, alpha 1 (Col12a1), mRNA.
ILMN_3114585	0.60015722	8.722621835	4.243016001	0.001291875	0.013057184	Cd44	Mus musculus CD44 antigen (Cd44), transcript variant 2, mRNA.
ILMN_2974506	0.688446809	8.720888665	4.274536935	0.001224076	0.012617764	Gprc5b	Mus musculus G protein-coupled receptor, family C, group 5, member B (Gprc5b), mRNA.
ILMN_2606433	0.930473134	8.720377113	5.441424515	0.000182736	0.003727036	A930017N06Rik	Mus musculus RIKEN cDNA A930017N06 gene (A930017N06Rik), mRNA.
ILMN_1243616	0.746124719	8.719995916	6.490230486	3.88932E-05	0.001370913	Cdkn3	
ILMN_2539764	1.902989702	8.718892326	9.05137819	1.58446E-06	0.00019206	LOC384505	
ILMN_1221851	0.793550447	8.718334785	5.078584616	0.000323497	0.0053534	Adamts2	
ILMN_3006767	0.638044731	8.717979297	5.217275022	0.000259479	0.004687324	Mlkl	Mus musculus mixed lineage kinase domain-like (Mlkl), mRNA. XM_924589
ILMN_1219384	0.477843483	8.716471301	4.053612547	0.001790619	0.016100053	Igsf3	
ILMN_1232532	0.341802719	8.716108813	3.327778859	0.006475458	0.037329789	4931406I20Rik	Mus musculus RIKEN cDNA 4931406I20 gene (4931406I20Rik), mRNA.
ILMN_1232849	0.431147803	8.713487128	3.5057236	0.004705297	0.030211348	2410026K10Rik	
ILMN_2685318	0.389957116	8.712921924	3.437088709	0.005320692	0.032782772	Grip1	Mus musculus glutamate receptor interacting protein 1 (Grip1), transcript

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							variant 2, mRNA.
ILMN_2713538	0.608205134	8.709951006	3.943155132	0.00217033	0.018274726	Bmp1	Mus musculus bone morphogenetic protein 1 (Bmp1), mRNA.
ILMN_2595593	0.979596989	8.708793601	3.896212645	0.002356125	0.019301135	Fxyd3	Mus musculus FXYD domain-containing ion transport regulator 3 (Fxyd3), mRNA.
ILMN_2772821	0.809896041	8.707134838	6.71008392	2.86571E-05	0.001117122	2700063A19Rik	
ILMN_2520326	0.346776195	8.70457266	3.615850087	0.003866035	0.026671057	Nbea	
ILMN_2997406	0.865415749	8.703372807	4.278382042	0.001216063	0.012573185	Arl4c	Mus musculus ADP-ribosylation factor-like 4C (Arl4c), mRNA.
ILMN_1220688	0.906101769	8.702798667	6.871217566	2.30012E-05	0.000973186	6330505N24Rik	
ILMN_1237963	1.155008828	8.700904367	3.494115063	0.004804023	0.030602884	Alg8	
ILMN_1238398	0.326046621	8.698053592	3.973113061	0.00205975	0.017667795	Tex10	
ILMN_2944824	2.02438018	8.694405239	4.034094865	0.001852328	0.01649929	Hp	Mus musculus haptoglobin (Hp), mRNA.
ILMN_1234413	0.799844	8.693915354	6.319069465	4.9552E-05	0.001580827	Adamts12	
ILMN_2764744	0.615318844	8.687184849	4.137438318	0.001548901	0.014678883	BC003498	
ILMN_2672624	1.297474623	8.687070234	7.973859824	5.5652E-06	0.000373462	Hcn2	
ILMN_2605512	1.14393164	8.685018488	3.372299859	0.005977066	0.035392239	Lamb3	
ILMN_1222679	2.208915826	8.683045159	3.949105005	0.002147888	0.018169108	Cidec	Mus musculus cell death-inducing DFFA-like effector c (Cidec), mRNA.
ILMN_1228031	0.564876793	8.679121914	5.006532063	0.000363152	0.005769563	Dusp8	Mus musculus dual specificity phosphatase 8 (Dusp8), mRNA.
ILMN_2760927	0.510407228	8.678096267	4.260432767	0.001253942	0.012825901	Kcna6	
ILMN_2707865	0.775939222	8.673424493	4.340469933	0.001093985	0.011690897	2310046K10Rik	Mus musculus epithelial stromal interaction 1 (breast) (Epsti1), transcript variant a, mRNA.
ILMN_2841710	0.803666912	8.67278754	9.36148628	1.12747E-06	0.000158264	Slc25a24	Mus musculus solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 24 (Slc25a24), mRNA.
ILMN_1258935	1.887419344	8.672577317	5.642467686	0.000134236	0.003033414	Sult4a1	Mus musculus sulfotransferase family 4A, member 1 (Sult4a1), mRNA.
ILMN_1221568	0.838310404	8.672139462	6.839173984	2.40228E-05	0.000997579	Cdca7	Mus musculus cell division cycle associated 7 (Cdca7), mRNA.
ILMN_2640239	0.862254447	8.670964418	9.337041695	1.15775E-06	0.000158583	Pqlc3	Mus musculus PQ loop repeat containing (Pqlc3), mRNA.
ILMN_2686353	0.685384776	8.669151847	3.891878562	0.002374089	0.019381761	Sult2b1	Mus musculus sulfotransferase family, cytosolic, 2B, member 1 (Sult2b1), mRNA.
ILMN_2722108	0.415126492	8.668526933	3.61589431	0.003865731	0.026671057	C1qtnf1	Mus musculus C1q and tumor necrosis factor related protein 1 (C1qtnf1), mRNA.
ILMN_1233840	1.350115386	8.668331464	6.864516901	2.32109E-05	0.000975143	LOC381283	
ILMN_1237801	0.822446341	8.666378174	5.698974725	0.000123216	0.002871383	scl0003541.1_1	
ILMN_2833781	0.752416201	8.665831009	4.216153217	0.001352742	0.01351213	Pwwp2	Mus musculus PWWP domain containing 2 (Pwwp2), transcript variant 2, mRNA.
ILMN_1233075	1.095615621	8.665350615	6.128477793	6.5194E-05	0.001877169	Ercc2	Mus musculus kinesin light chain 3 (Klc3), mRNA.
ILMN_1249000	0.617946646	8.662650791	3.799599398	0.002792118	0.021486071	1500015O10Rik	Mus musculus RIKEN cDNA 1500015O10 gene (1500015O10Rik), mRNA.

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ILMN_2929723	0.277500232	8.66156703	3.610926997	0.003900054	0.026813675	Zfp64	Mus musculus zinc finger protein 64 (Zfp64), mRNA.
ILMN_1240164	0.98498126	8.657694103	6.671067015	3.02393E-05	0.001152712	Arhgdig	Mus musculus Rho GDP dissociation inhibitor (GDI) gamma (Arhgdig), mRNA.
ILMN_2545445	0.585658722	8.656240584	4.372367139	0.001036312	0.011317852	Hipk2	
ILMN_1219106	0.690653962	8.656071285	5.422543482	0.000188162	0.003795531	Rrad	
ILMN_2639214	0.943031464	8.655639123	7.380950779	1.17227E-05	0.000620459	Cyp3a13	
ILMN_2772288	0.56421515	8.64858036	4.375545543	0.001030741	0.011282836	Disp1	
ILMN_1233116	0.660315948	8.64333949	3.947525231	0.002153823	0.018187077	Map4k4	Mus musculus mitogen-activated protein kinase kinase kinase kinase 4 (Map4k4), mRNA.
ILMN_1254692	0.854674887	8.643161762	8.88053829	1.91859E-06	0.000210015	Ms4a6b	
ILMN_1245733	0.477535798	8.642060479	4.28110654	0.001210418	0.012552897	Homer3	Mus musculus homer homolog 3 (Drosophila) (Homer3), mRNA.
ILMN_2911248	0.281063729	8.63876299	3.130927792	0.009238314	0.047051337	Plcb4	Mus musculus phospholipase C, beta 4 (Plcb4), mRNA.
ILMN_1226783	0.395326495	8.638710952	5.314824571	0.000222562	0.004248803	Irak4	Mus musculus interleukin-1 receptor-associated kinase 4 (Irak4), mRNA.
ILMN_2761645	2.032893925	8.635116585	13.92292575	1.75772E-08	1.35304E-05	Fetub	Mus musculus fetuin beta (Fetub), mRNA.
ILMN_1239027	0.315902891	8.632952912	3.89757093	0.002350524	0.019275103	Epn2	
ILMN_2441534	0.643868904	8.631393447	3.797087947	0.002804504	0.021532776	Tsga2	
ILMN_2651297	0.497193878	8.630057546	4.209301122	0.001368741	0.01362341	4632428N05Rik	
ILMN_1223730	1.268991981	8.62864648	3.470615067	0.005010422	0.03154715	2510049I19Rik	Mus musculus RIKEN cDNA 2510049I19 gene (2510049I19Rik), mRNA.
ILMN_3131766	0.373822846	8.627108292	3.538044113	0.004441223	0.029123636	Trex1	
ILMN_2633511	0.580364298	8.626499498	4.881682268	0.00044448	0.006571637	Cdyl	
ILMN_1249727	0.589800475	8.625078388	4.814844716	0.000495706	0.007044963	Car13	
ILMN_2708469	0.554849215	8.622881561	4.410781785	0.000971043	0.010846781	Elmo2	Mus musculus engulfment and cell motility 2, ced-12 homolog (C. elegans) (Elmo2), transcript variant 3, mRNA.
ILMN_3119914	0.775035115	8.622446918	3.962013518	0.002100023	0.017929463	2300002D11Rik	Mus musculus RIKEN cDNA 2300002D11 gene (2300002D11Rik), mRNA.
ILMN_1239088	0.9072552	8.622052528	6.40182803	4.40544E-05	0.001474432	Ckap4	
ILMN_2595842	0.886437159	8.621016492	8.358029186	3.5072E-06	0.000292631	Def6	Mus musculus differentially expressed in FDCP 6 (Def6), mRNA.
ILMN_2524667	0.58328228	8.618704317	6.040785596	7.40885E-05	0.002060575	4833427B12Rik	
ILMN_1218242	0.502783258	8.618688581	3.881838205	0.002416252	0.019631944	Pvrl2	Mus musculus poliovirus receptor-related 2 (Pvrl2), mRNA.
ILMN_1233243	2.380154184	8.617418087	12.29564119	6.63492E-08	3.19682E-05	1110019C06Rik	
ILMN_2619408	1.62942674	8.617304252	7.23190409	1.42293E-05	0.000714849	Atf3	Mus musculus activating transcription factor 3 (Atf3), mRNA.
ILMN_2972478	0.769937179	8.616424965	6.857971129	2.34177E-05	0.000982104	Nlgn2	Mus musculus neuroligin 2 (Nlgn2), mRNA.
ILMN_2516710	0.48100622	8.614572899	4.069979004	0.001740519	0.015798407	A130028J20Rik	
ILMN_1255611	0.609030353	8.612852051	3.134337305	0.009181504	0.046865933	2610024M03Rik	
ILMN_2636764	0.640553444	8.612702173	4.837142982	0.000477958	0.006883231	C1qtnf5	

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ILMN_2747060	0.460295463	8.611954397	3.27399144	0.007134409	0.039833507	Coro1a	Mus musculus coronin, actin binding protein 1A (Coro1a), mRNA.
ILMN_2533766	0.790799198	8.610978985	4.549338933	0.000769188	0.009422551	LOC215999	
ILMN_2776140	0.421832212	8.609509649	3.350772202	0.006212985	0.03624064	Bmyc	
ILMN_2479681	0.552893143	8.60799161	4.248338798	0.001280157	0.012977224	2700083E18Rik	
ILMN_1223710	0.56911469	8.606760998	4.144290064	0.001530706	0.014627878	Pmm1	
ILMN_2690551	0.452136724	8.604425555	3.746992121	0.003063768	0.022872385	Nfkbie	
ILMN_2655260	0.58383999	8.603969667	3.732449906	0.003143566	0.023238825	Ptp4a3	Mus musculus protein tyrosine phosphatase 4a3 (Ptp4a3), mRNA.
ILMN_2597606	0.723121287	8.60207013	3.464227555	0.005068075	0.031753329	Gja12	Mus musculus gap junction membrane channel protein alpha 12 (Gja12), transcript variant 1, mRNA.
ILMN_2589350	0.697998503	8.596941037	4.652981322	0.000647223	0.008407762	9030624L02Rik	Mus musculus carboxylesterase 5 (Ces5), mRNA.
ILMN_2632712	0.725937816	8.595758721	5.800667318	0.000105731	0.002630922	Birc5	
ILMN_2889641	0.944352592	8.595331059	5.266163119	0.00024023	0.004461167	Wnt4	Mus musculus wingless-related MMTV integration site 4 (Wnt4), mRNA.
ILMN_2731760	0.520475303	8.594622894	3.501241937	0.004743163	0.030328539	Myo1f	Mus musculus myosin IF (Myo1f), mRNA.
ILMN_2781181	0.403755108	8.594045746	3.247897119	0.007478249	0.041137265	D10Bwg1379e	Mus musculus DNA segment, Chr 10, Brigham & Women's Genetics 1379 expressed (D10Bwg1379e), mRNA.
ILMN_2625451	1.612878939	8.593389571	6.174992746	6.0944E-05	0.001799885	Ankrd1	Mus musculus ankyrin repeat domain 1 (cardiac muscle) (Ankrd1), mRNA.
ILMN_1221940	0.67228142	8.591439242	5.230403204	0.000254155	0.004629697	8430419L09Rik	
ILMN_1218525	1.361833003	8.591298133	6.950169991	2.06772E-05	0.000897126	Il18r1	Mus musculus interleukin 18 receptor 1 (Il18r1), mRNA.
ILMN_2811746	0.329362593	8.590872361	3.901753485	0.002333363	0.019168322	Casp4	Mus musculus caspase 4, apoptosis-related cysteine peptidase (Casp4), mRNA.
ILMN_1237421	0.720688994	8.590473286	4.599147564	0.000707817	0.008967012	scl0003519.1_175	
ILMN_1237546	1.209282702	8.590361945	7.16334421	1.557E-05	0.000759808	9130213B05Rik	
ILMN_2604814	0.482150759	8.589507467	3.580448881	0.004117619	0.027639593	Fgf22	Mus musculus fibroblast growth factor 22 (Fgf22), mRNA.
ILMN_1238374	0.661229443	8.589397503	4.689902771	0.000608829	0.008040007	Cdc7	
ILMN_3072337	1.474103385	8.587707857	3.151555673	0.008899958	0.045949738	Cpne8	Mus musculus copine VIII (Cpne8), transcript variant 2, mRNA.
ILMN_2609887	0.977100924	8.586563766	7.846643777	6.50773E-06	0.000418582	Fgfr2	
ILMN_3001186	0.741059276	8.581990857	6.048470929	7.32596E-05	0.002040943	Trpv6	Mus musculus transient receptor potential cation channel, subfamily V, member 6 (Trpv6), mRNA.
ILMN_2914938	1.782435565	8.581072535	7.758740387	7.25843E-06	0.000453424	F13a1	Mus musculus coagulation factor XIII, A1 subunit (F13a1), mRNA.
ILMN_2775402	0.370579066	8.579326486	3.657250036	0.003591742	0.025315055	9330132O05Rik	
ILMN_1242902	0.319299932	8.577619383	3.353506545	0.006182501	0.036117842	Rapgef5	
ILMN_2711772	0.757849697	8.575926686	4.089113991	0.001683786	0.015468449	A930021H16Rik	
ILMN_1215085	0.612716707	8.572858184	4.836216442	0.000478682	0.006883814	Fkbp10	Mus musculus FK506 binding protein 10 (Fkbp10), mRNA.

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ILMN_1224619	0.55250259	8.57226092	4.493527625	0.00084463	0.010037556	Siat4a	
ILMN_2665666	0.5821883	8.565635758	3.858049218	0.002519269	0.020164495	Pstpip1	Mus musculus proline-serine-threonine phosphatase-interacting protein 1 (Pstpip1), mRNA.
ILMN_1242912	1.052931578	8.560049773	4.826420885	0.000486407	0.006962886	Pof1b	Mus musculus premature ovarian failure 1B (Pof1b), mRNA.
ILMN_2497190	0.514797941	8.559618505	3.400712128	0.005679609	0.034253717	Bmf	
ILMN_2708729	0.500992125	8.559106337	4.561743301	0.0007534	0.009291155	Ofd1	Mus musculus oral-facial-digital syndrome 1 gene homolog (human) (Ofd1), mRNA.
ILMN_2762326	0.782578871	8.558276272	5.216745782	0.000259696	0.004687697	Kif22	Mus musculus kinesin family member 22 (Kif22), mRNA.
ILMN_3112334	0.882466043	8.557756595	8.248886099	3.99234E-06	0.000310746	Pitpnm3	Mus musculus PITPNM family member 3 (Pitpnm3), transcript variant 1, mRNA.
ILMN_2598604	0.496236587	8.557227942	4.75031704	0.000551078	0.007592593	Nptxr	
ILMN_2597827	0.420469843	8.555969864	3.094062621	0.009875701	0.049209406	Arc	
ILMN_1246419	0.455445806	8.555145807	3.779355109	0.002893586	0.022074697	Tcfcp2l2	Mus musculus grainyhead-like 1 (Drosophila) (Grhl1), mRNA.
ILMN_3132588	0.897397959	8.552010882	5.119598292	0.000302989	0.00513636	D930038M13Rik	
ILMN_2933993	0.382093711	8.551143943	3.788234766	0.002848619	0.021829351	Rad9	Mus musculus RAD9 homolog (S. pombe) (Rad9), mRNA.
ILMN_2601072	1.030195775	8.550889509	5.614099806	0.000140159	0.003125639	C630028C02Rik	
ILMN_2685516	0.403296616	8.550349449	3.770471787	0.002939305	0.022266871	Hcls1	Mus musculus hematopoietic cell specific Lyn substrate 1 (Hcls1), mRNA.
ILMN_1247823	0.636726315	8.548121535	3.176967554	0.008500297	0.044531854	Lrp8	
ILMN_2668510	1.344416051	8.54811154	3.130655374	0.009242868	0.047058366	Hp	Mus musculus haptoglobin (Hp), mRNA.
ILMN_2610609	0.463555727	8.54679738	4.652863649	0.000647349	0.008407762	1810054D07Rik	
ILMN_1230281	0.780919599	8.546602883	4.55420457	0.000762954	0.009365419	Ophn1	Mus musculus oligophrenin 1 (Ophn1), mRNA.
ILMN_2656631	0.413207426	8.546526788	4.129774685	0.001569519	0.01475796	Gtf2ird1	
ILMN_2614620	0.75693536	8.54622926	4.181019858	0.001436889	0.014006733	2810043G22Rik	
ILMN_1230244	0.531484833	8.544535129	3.926893856	0.00223291	0.018645814	Klhl15	
ILMN_1253178	1.061330428	8.544364567	3.579532029	0.004124354	0.027653412	Aldh3a1	Mus musculus aldehyde dehydrogenase family 3, subfamily A1 (Aldh3a1), mRNA.
ILMN_2780322	1.055661952	8.543748096	8.837178491	2.01497E-06	0.000215153	Tkt	Mus musculus transketolase (Tkt), mRNA.
ILMN_3161805	1.109985744	8.54274818	4.983953949	0.000376608	0.005908605	Ccl12	
ILMN_2714073	0.631133406	8.539003152	5.557097416	0.000152915	0.003281479	2610027C15Rik	Mus musculus RIKEN cDNA 2610027C15 gene (2610027C15Rik), mRNA.
ILMN_2592901	0.640342918	8.53807144	4.765552632	0.000537443	0.00745639	Calml3	Mus musculus calmodulin-like 3 (Calml3), mRNA.
ILMN_2875404	0.929765798	8.534411645	4.198376321	0.001394658	0.013753449	Nrip3	Mus musculus nuclear receptor interacting protein 3 (Nrip3), mRNA.
ILMN_2767401	0.445992231	8.534163106	4.185006231	0.001427073	0.01393952	Capn1	Mus musculus calpain 1 (Capn1), mRNA.
ILMN_2647533	0.753474304	8.533664769	3.798789889	0.002796104	0.021507326	Slc41a3	
ILMN_1252202	0.413503201	8.533486106	3.847646302	0.002565736	0.020388329	Tnfaip3	Mus musculus tumor necrosis factor, alpha-induced protein 3 (Tnfaip3),

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							mRNA.
ILMN_2705570	0.444161011	8.533287705	3.516903674	0.004612178	0.029842842	2310038H17Rik	Mus musculus RIKEN cDNA 2310038H17 gene (2310038H17Rik), mRNA.
ILMN_1243263	0.417446448	8.531399894	4.279682836	0.001213365	0.012556167	Zfp608	Mus musculus zinc finger protein 608 (Zfp608), mRNA. XM_001000874 XM_001000888 XM_001000902 XM_001000914 XM_993937 XM_993952 XM_993993 XM_994038 XM_994057 XM_994076
ILMN_3128535	1.006941664	8.531339238	5.817398059	0.000103116	0.002587447	Samd4	Mus musculus sterile alpha motif domain containing 4 (Samd4), transcript variant 1, mRNA.
ILMN_1217786	0.696083351	8.530636805	5.04059436	0.000343802	0.005565904	2310046K10Rik	Mus musculus epithelial stromal interaction 1 (breast) (Epsti1), transcript variant a, mRNA.
ILMN_1226851	0.58896925	8.530555234	3.719674372	0.003215437	0.023616492	Abca1	
ILMN_2647544	0.843325362	8.529498735	5.669190139	0.0001289	0.002949549	Panx1	
ILMN_2416218	0.640231236	8.524866454	4.575118741	0.000736756	0.009161654	5530400B01Rik	
ILMN_1252400	0.39801293	8.52072817	3.362178343	0.006086828	0.035743994	1700095N21Rik	
ILMN_3138904	0.891659075	8.519262736	3.506471656	0.004699007	0.030191814	Ntrk2	Mus musculus neurotrophic tyrosine kinase, receptor, type 2 (Ntrk2), transcript variant 1, mRNA.
ILMN_2965660	1.223000505	8.516295258	6.715998345	2.84251E-05	0.001111097	Apcdd1	Mus musculus adenomatosis polyposis coli down-regulated 1 (Apcdd1), mRNA.
ILMN_2759499	0.684979776	8.514582016	4.621452555	0.000682019	0.008749423	MGC27770	Mus musculus expressed sequence AW544981 (AW544981), mRNA.
ILMN_2517665	1.104390841	8.514237354	8.527100197	2.87653E-06	0.000262999	Trpv6	Mus musculus transient receptor potential cation channel, subfamily V, member 6 (Trpv6), mRNA.
ILMN_2857947	0.813943472	8.512356899	5.884101369	9.33555E-05	0.002435961	Trim36	Mus musculus tripartite motif-containing 36 (Trim36), mRNA.
ILMN_2724469	0.702110013	8.50977446	4.071002481	0.001737435	0.015794443	4732473B16Rik	Mus musculus RIKEN cDNA 4732473B16 gene (4732473B16Rik), mRNA.
ILMN_2700550	0.474073229	8.50962476	5.547828037	0.000155103	0.003322457	Ddx11	
ILMN_2701379	0.418041457	8.50678682	4.484292152	0.000857843	0.010134016	Cblb	
ILMN_2900653	0.752346082	8.504162209	5.742783533	0.000115334	0.002760489	Gadd45b	Mus musculus growth arrest and DNA-damage-inducible 45 beta (Gadd45b), mRNA.
ILMN_2608746	0.681326748	8.502023571	6.031595361	7.50928E-05	0.002078815	Ltbp3	
ILMN_2907285	1.083691544	8.500869808	3.361763662	0.006091368	0.035758504	Krt20	Mus musculus keratin 20 (Krt20), mRNA.
ILMN_2675674	0.423028971	8.500756601	3.532650081	0.004484216	0.029319475	BC018371	
ILMN_2752454	2.008640161	8.498096103	18.66764693	7.19763E-10	2.45367E-06	3830408G10Rik	
ILMN_1257623	0.580820675	8.496953197	3.896336496	0.002355613	0.019301135	1810044J04Rik	
ILMN_2711410	0.309326106	8.494740265	3.950704223	0.002141897	0.01813925	Pmf1	Mus musculus polyamine-modulated factor 1 (Pmf1), mRNA.
ILMN_2900617	0.558329739	8.49299369	3.477486714	0.004949147	0.031301749	Tle6	Mus musculus transducin-like enhancer of split 6, homolog of Drosophila E(spl) (Tle6), mRNA.
ILMN_1242457	1.443109074	8.48905021	6.717168182	2.83795E-05	0.001111097	Fpr-rs2	
ILMN_1232768	0.935801257	8.488700699	4.004015037	0.001951789	0.017029444	Vcam1	

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ILMN_1252185	1.610061786	8.486032489	4.886113842	0.000441287	0.006548769	Rbp4	
ILMN_2844671	0.573227168	8.485366929	5.176167232	0.000276927	0.004870791	3110043J09Rik	Mus musculus RIKEN cDNA 3110043J09 gene (3110043J09Rik), mRNA.
ILMN_2681241	0.702219513	8.483144153	5.72076322	0.000119226	0.00281693	Birc5	
ILMN_2938440	1.110480118	8.481837262	5.190779152	0.000270587	0.004807276	Elf5	Mus musculus E74-like factor 5 (Elf5), mRNA.
ILMN_1224714	1.232279727	8.481598346	5.788343759	0.000107702	0.002655047	LOC381527	
ILMN_2854943	0.805632565	8.479818217	4.687692902	0.000611059	0.008051735	Gprc5a	Mus musculus G protein-coupled receptor, family C, group 5, member A (Gprc5a), mRNA.
ILMN_1249684	0.969909922	8.4775755	7.030679372	1.8564E-05	0.00082979	Tubg2	Mus musculus tubulin, gamma 2 (Tubg2), mRNA.
ILMN_2749747	0.551352013	8.476201404	4.441750643	0.000921559	0.010531992	2410004L22Rik	Mus musculus RIKEN cDNA 2410004L22 gene (2410004L22Rik), mRNA.
ILMN_2674378	1.223818546	8.47602025	8.804132229	2.09193E-06	0.000218946	Lrrc20	Mus musculus leucine rich repeat containing 20 (Lrrc20), mRNA.
ILMN_2441142	0.742716299	8.474957734	5.186259648	0.000272532	0.004828077	9130223C08Rik	
ILMN_2905646	0.455878199	8.473333597	4.474120632	0.000872646	0.010198163	Pak6	Mus musculus p21 (CDKN1A)-activated kinase 6 (Pak6), mRNA. XM_924943 XM_924947 XM_924951 XM_924953
ILMN_2757008	1.61892237	8.471622546	9.966249569	5.95314E-07	0.000113949	Aldh1l2	Mus musculus aldehyde dehydrogenase 1 family, member L2 (Aldh1l2), mRNA.
ILMN_2676641	0.593541573	8.470712471	3.808367794	0.002749315	0.021266422	3010027A04Rik	
ILMN_2947292	0.479730046	8.470018831	3.274708036	0.007125197	0.039813466	Map3k6	Mus musculus mitogen-activated protein kinase kinase kinase 6 (Map3k6), mRNA.
ILMN_2657844	0.944900181	8.468084147	7.505151142	9.99501E-06	0.000559885	Cdc2a	Mus musculus cell division cycle 2 homolog A (S. pombe) (Cdc2a), mRNA.
ILMN_1250588	0.671579382	8.467838531	4.350053393	0.001076313	0.011605994	Ptk7	Mus musculus PTK7 protein tyrosine kinase 7 (Ptk7), mRNA.
ILMN_2773769	0.565093378	8.466785146	4.877103052	0.000447805	0.006590924	Tjp2	
ILMN_3072427	1.107281226	8.465389244	5.596431991	0.000143988	0.003173797	Il1rn	Mus musculus interleukin 1 receptor antagonist (Il1rn), transcript variant 1, mRNA.
ILMN_2474229	1.271026997	8.463584472	7.121790435	1.64479E-05	0.000780311	Cd44	
ILMN_2431150	0.761251388	8.463130259	5.278369948	0.000235663	0.004424389	Eef2k	
ILMN_1224697	0.529655291	8.462500925	4.261377703	0.001251918	0.01281618	Fbxl12	
ILMN_1246724	0.416403226	8.461254894	4.308414323	0.00115533	0.012139867	Apg7l	Mus musculus autophagy-related 7 (yeast) (Atg7), mRNA.
ILMN_2901944	0.936666122	8.459196865	6.837568543	2.40752E-05	0.000997579	Col7a1	Mus musculus procollagen, type VII, alpha 1 (Col7a1), mRNA.
ILMN_1237980	0.730252578	8.458883079	3.444187636	0.005253396	0.032527706	0610010D24Rik	
ILMN_1250507	1.401617543	8.453567585	7.747652929	7.35953E-06	0.000457345	Elovl4	Mus musculus elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 4 (Elovl4), mRNA.
ILMN_1241310	0.899290784	8.452411246	6.796934606	2.54441E-05	0.001039039	Cpne8	
ILMN_2546423	0.518831575	8.450251111	3.769631304	0.002943669	0.022285782	1700022J01Rik	
ILMN_1246785	0.617688155	8.448301367	3.629497218	0.003773315	0.02623619	Rai3	
ILMN_2941058	0.317244648	8.446343739	3.212358687	0.007973755	0.042836044	Rgmb	Mus musculus RGM domain family, member B (Rgmb), mRNA.

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2418116	0.333914932	8.445090924	3.121221985	0.009401984	0.047564031	scl0002018.1_19	
ILMN_1232202	0.803587216	8.442884677	6.108460641	6.7119E-05	0.001918157	E030019D07Rik	
ILMN_2482494	0.372613009	8.442469741	4.932322861	0.000409392	0.006229623	Trim16	
ILMN_1221805	0.419779729	8.438597808	3.705223484	0.003298777	0.023983541	Dtna	
ILMN_1224607	0.377687628	8.437429519	3.157258518	0.008808644	0.045646184	D930046M13Rik	
ILMN_1260504	1.505107014	8.437099129	7.051881264	1.80468E-05	0.000816209	1700016D02Rik	
ILMN_2960325	1.512457759	8.435108179	4.389424258	0.001006783	0.011112327	Ctse	Mus musculus cathepsin E (Ctse), mRNA.
ILMN_2636755	1.606358537	8.433150664	6.589646358	3.38496E-05	0.001242697	Asns	Mus musculus asparagine synthetase (Asns), mRNA.
ILMN_2757617	1.048109962	8.4311162	5.956825731	8.38226E-05	0.00223243	Il1rl1	Mus musculus interleukin 1 receptor-like 1 (Il1rl1), transcript variant 2, mRNA.
ILMN_2650289	1.112199453	8.430217063	8.287653729	3.81223E-06	0.000304251	Rin1	
ILMN_2543393	0.56289439	8.42424627	3.389550766	0.005794618	0.034647198	1110017L21Rik	
ILMN_1226760	0.797640345	8.41662797	3.663240343	0.003553743	0.025138701	LOC269542	
ILMN_1223591	0.342388028	8.413992559	3.130088398	0.009252354	0.047066227	Zfp202	Mus musculus zinc finger protein 202 (Zfp202), mRNA.
ILMN_2977535	0.476233231	8.412237258	3.367495052	0.006028917	0.035570556	D930015E06Rik	Mus musculus RIKEN cDNA D930015E06 gene (D930015E06Rik), mRNA.
ILMN_1213567	0.470897924	8.41213407	3.17508666	0.008529246	0.044602315	6330441O12Rik	
ILMN_1224923	1.538600516	8.411395183	4.9758135	0.000381587	0.005956528	Gc	
ILMN_2459045	0.419677151	8.407534295	3.180244058	0.008450105	0.044376071	E030034P13Rik	
ILMN_2937340	1.282106037	8.407113044	5.187327901	0.000272071	0.004823492	Wnt9b	Mus musculus wingless-type MMTV integration site 9B (Wnt9b), mRNA.
ILMN_1255053	0.482180328	8.402125484	3.908009331	0.002307938	0.019051743	Plk1	
ILMN_2456957	1.473768234	8.39928564	6.281613438	5.22766E-05	0.001624318	Wnt7b	Mus musculus wingless-related MMTV integration site 7B (Wnt7b), mRNA.
ILMN_1218034	0.446106829	8.398085611	3.90772972	0.002309068	0.019053003	Tmco4	Mus musculus transmembrane and coiled-coil domains 4 (Tmco4), mRNA.
ILMN_1245924	0.39781159	8.395144278	3.192967275	0.00825803	0.043713927	Map3k8	
ILMN_2993314	0.990381347	8.393287529	7.525490686	9.73911E-06	0.000553344	Clec4n	Mus musculus C-type lectin domain family 4, member n (Clec4n), mRNA.
ILMN_2639442	0.415286897	8.393186827	3.501723014	0.004739084	0.030325306	Rock2	Mus musculus Rho-associated coiled-coil containing protein kinase 2 (Rock2), mRNA.
ILMN_1244018	0.370909855	8.393052085	3.830867206	0.002642557	0.020729569	Gng4	Mus musculus guanine nucleotide binding protein (G protein), gamma 4 subunit (Gng4), mRNA.
ILMN_2588860	0.292972156	8.392609257	3.180691667	0.008443272	0.044359709	Ddx31	
ILMN_1224982	0.368921309	8.39009438	3.562446495	0.004251941	0.028262972	5730550L01Rik	
ILMN_2888191	0.359316804	8.387449034	3.416765898	0.005518259	0.033600974	Ccr5	Mus musculus chemokine (C-C motif) receptor 5 (Ccr5), mRNA.
ILMN_2870965	0.520650718	8.384187945	3.095107612	0.009857036	0.04915746	Dusp4	Mus musculus dual specificity phosphatase 4 (Dusp4), mRNA.
ILMN_2760254	0.41078057	8.380592667	3.249436404	0.007457507	0.041064917	Mrgprf	

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_1235732	1.551362147	8.376028949	5.488008381	0.000170045	0.003553235	LOC386463	
ILMN_2793260	0.816006469	8.375839602	5.161459665	0.000283467	0.004915962	Micall2	Mus musculus MICAL-like 2 (Micall2), mRNA.
ILMN_2756943	0.939641012	8.375794157	7.442282804	1.08326E-05	0.00059018	Sdc1	Mus musculus syndecan 1 (Sdc1), mRNA.
ILMN_1229454	0.783229463	8.374687706	3.35257894	0.006192825	0.036158402	Cuedc1	Mus musculus CUE domain containing 1 (Cuedc1), mRNA.
ILMN_2964560	2.20108143	8.373172785	8.087843365	4.84464E-06	0.000343049	Cd163	Mus musculus CD163 antigen (Cd163), mRNA.
ILMN_2717117	0.864362935	8.369389202	4.496296391	0.000840711	0.010015916	4930546H06Rik	
ILMN_2632028	0.758550783	8.369196453	3.95470649	0.00212698	0.018070154	Asb11	Mus musculus ankyrin repeat and SOCS box-containing protein 11 (Asb11), mRNA.
ILMN_3155245	0.450219013	8.368812595	4.106176694	0.001634817	0.015139545	Arhgap25	Mus musculus Rho GTPase activating protein 25 (Arhgap25), transcript variant 2, mRNA. XM_899325 XM_899332 XM_899339 XM_899344 XM_914946 XM_923470 XM_923471 XM_923481 XM_923488 XM_923492 XM_923496 XM_923499 XM_923504
ILMN_1225086	0.319896424	8.365999259	3.764859179	0.002968575	0.022403758	0610030H11Rik	Mus musculus zinc finger protein 414 (Zfp414), mRNA.
ILMN_2703427	1.100071007	8.365225056	8.091700565	4.82208E-06	0.000342468	Agrp	
ILMN_2640551	0.469511487	8.362010254	4.146176953	0.001525734	0.014598477	Pir	
ILMN_1246841	0.565220217	8.359424755	3.602221276	0.003960968	0.027005876	Relb	Mus musculus avian reticuloendotheliosis viral (v-rel) oncogene related B (Relb), mRNA.
ILMN_2815594	0.654678712	8.358864868	4.142446486	0.00153558	0.014634002	B230317C12Rik	Mus musculus RIKEN cDNA B230317C12 gene (B230317C12Rik), mRNA.
ILMN_2531737	0.384117505	8.355435146	3.236945535	0.007627523	0.041584551	LOC240672	
ILMN_2600389	0.885332712	8.35289257	6.796133065	2.5472E-05	0.001039039	Slc7a6	
ILMN_1241825	0.609992692	8.349832363	5.619702191	0.000138968	0.003107959	Lor	
ILMN_2516438	0.555101785	8.346877753	3.181717128	0.008427638	0.044306834	5830411E10Rik	
ILMN_2571934	0.945588766	8.346071978	3.839045866	0.00260482	0.020568766	D030034I04Rik	
ILMN_1231288	1.497624518	8.343162827	5.2768948	0.00023621	0.004424389	Wnt9b	Mus musculus wingless-type MMTV integration site 9B (Wnt9b), mRNA.
ILMN_2913031	0.691547915	8.341231546	6.39161584	4.46961E-05	0.001491725	Tcfap2a	Mus musculus transcription factor AP-2, alpha (Tcfap2a), mRNA.
ILMN_1225261	0.40435076	8.339127624	3.220012922	0.007864293	0.042433369	Uchl1	Mus musculus ubiquitin carboxy-terminal hydrolase L1 (Uchl1), mRNA.
ILMN_1254114	1.184838576	8.336514171	5.87772755	9.42443E-05	0.002448536	Artn	Mus musculus artemin (Artn), mRNA.
ILMN_2616262	0.610151404	8.335765611	3.701730595	0.003319253	0.024097148	Pkig	
ILMN_3162854	0.668055241	8.335269098	6.237738675	5.56727E-05	0.001692378	Inadl	Mus musculus InaD-like (Drosophila) (Inadl), transcript variant 2, mRNA.
ILMN_1247614	0.302969204	8.332355254	3.356819076	0.006145775	0.035954067	Dusp18	
ILMN_2697304	0.615548694	8.331677493	5.087164616	0.000319088	0.005307417	Eln	Mus musculus elastin (Eln), mRNA.
ILMN_2896314	0.574288515	8.331402856	3.980314919	0.002034047	0.017529243	Axin2	Mus musculus axin2 (Axin2), mRNA.
ILMN_2742912	0.919043246	8.331124325	3.765492593	0.002965257	0.022403494	Gm1012	
ILMN_2661449	0.608841511	8.327316074	4.028836198	0.00186933	0.016556916	D930038M13Rik	

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ILMN_2680827	0.571876861	8.325876248	5.201406048	0.000266073	0.004763164	Il7r	Mus musculus interleukin 7 receptor (Il7r), mRNA.
ILMN_2655222	1.279358619	8.324205929	6.293431106	5.14001E-05	0.001609713	1700049E17Rik	
ILMN_2929594	0.418955885	8.320086649	3.60971888	0.00390845	0.026854977	EG317677	Mus musculus predicted gene, EG317677 (EG317677), mRNA.
ILMN_2965132	0.371742854	8.319886919	3.790562644	0.00283695	0.021746915	Tspyl3	Mus musculus TSPY-like 3 (Tspyl3), mRNA.
ILMN_1239077	0.391735484	8.319571673	3.36743767	0.006029539	0.035570556	Qscn6	
ILMN_2454919	0.48023713	8.319304912	3.676428264	0.003471538	0.024787576	Trim45	Mus musculus tripartite motif-containing 45 (Trim45), mRNA.
ILMN_2819319	0.360105998	8.316819486	3.105892138	0.009666477	0.048501083	Rrm2	Mus musculus ribonucleotide reductase M2 (Rrm2), mRNA.
ILMN_3132223	0.460386557	8.314472145	4.423933612	0.000949697	0.010725333	C630004H02Rik	
ILMN_2597255	0.516458335	8.312777331	5.049400201	0.000338978	0.00552975	Cdc6	
ILMN_1216662	0.44922452	8.312286306	3.354532715	0.0061711	0.036084529	Kif5c	Mus musculus kinesin family member 5C (Kif5c), mRNA.
ILMN_1226348	0.690888882	8.31223211	3.563326979	0.004245268	0.028238278	LOC214531	
ILMN_1244279	1.633614931	8.310459569	9.963681756	5.96891E-07	0.000113949	Trib3	
ILMN_2607196	0.56531195	8.308527119	4.776180272	0.000528141	0.00736589	0910001A06Rik	Mus musculus RIKEN cDNA 0910001A06 gene (0910001A06Rik), mRNA.
ILMN_1219278	0.503911541	8.302747696	3.702528583	0.003314563	0.024070427	E130306F01Rik	
ILMN_1229210	0.731197791	8.300996445	5.835512007	0.000100363	0.002545458	2610318C08Rik	
ILMN_1228165	0.444012359	8.300549871	4.157711493	0.001495706	0.014397758	Tbc1d9	Mus musculus TBC1 domain family, member 9 (Tbc1d9), mRNA.
ILMN_2553305	1.349184424	8.297601544	10.66051772	2.96965E-07	7.27599E-05	Ptpn14	
ILMN_1238573	0.685653914	8.295326537	4.00605601	0.001944868	0.01698148	LOC278188	
ILMN_1253772	1.885720491	8.29496991	6.729524364	2.7902E-05	0.001102362	LOC195357	
ILMN_2706755	0.744996439	8.294382192	4.597660255	0.000709573	0.008982777	Foxd1	Mus musculus forkhead box D1 (Foxd1), mRNA.
ILMN_3015003	0.891965141	8.294341629	8.259832342	3.94058E-06	0.000310746	Nrxn2	Mus musculus neurexin II (Nrxn2), mRNA.
ILMN_1218123	0.493985289	8.292163913	3.773704292	0.002922583	0.022178317	Aif1	Mus musculus allograft inflammatory factor 1 (Aif1), mRNA.
ILMN_2735961	0.53063563	8.290889692	4.494106521	0.000843809	0.010032795	Tlr13	Mus musculus toll-like receptor 13 (Tlr13), mRNA.
ILMN_2693339	0.423170467	8.290819078	4.479613864	0.000864619	0.010157241	A730020E08Rik	
ILMN_2618918	0.756220552	8.286468999	5.154967148	0.000286405	0.004948942	Slc2a6	Mus musculus solute carrier family 2 (facilitated glucose transporter), member 6 (Slc2a6), mRNA.
ILMN_1253075	0.284611742	8.283162825	4.083692185	0.001699663	0.015545826	C430045M10Rik	
ILMN_1256538	0.243125815	8.281881758	3.318557829	0.006583864	0.037776088	LOC211895	
ILMN_2734391	0.658261799	8.278851684	7.160198474	1.56346E-05	0.000760034	Ramp1	
ILMN_2740902	0.814223914	8.277933547	4.840728448	0.000475167	0.006847186	Mki67	
ILMN_2620799	0.531110499	8.277110935	3.998608869	0.001970244	0.017146581	A930010I20Rik	
ILMN_2770066	1.277596754	8.276880309	4.740118268	0.000560408	0.007659232	Cyp4f18	
ILMN_2578369	0.831313194	8.273234276	6.37044408	4.60585E-05	0.001515992	Hspg2	

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2737416	0.855367806	8.273188214	4.748634406	0.000552606	0.007604864	Fjx1	
ILMN_2834687	0.568611056	8.272969776	4.514689157	0.000815152	0.009819269	AW049765	Mus musculus expressed sequence AW049765 (AW049765), mRNA.
ILMN_2771176	0.730749629	8.272125467	4.299373356	0.001173273	0.012263606	Ccl7	
ILMN_1253354	0.729000477	8.271998306	6.322486235	4.93111E-05	0.00157736	Dapp1	
ILMN_2855298	0.699253402	8.268662238	4.832737224	0.000481411	0.006903792	Zfp334	Mus musculus zinc finger protein 334 (Zfp334), mRNA.
ILMN_2730701	0.730231302	8.268559421	6.194434094	5.92561E-05	0.001765328	Pqlc3	Mus musculus PQ loop repeat containing (Pqlc3), mRNA.
ILMN_2515081	0.467040706	8.265044588	3.842499661	0.002589051	0.020512124	Trim59	Mus musculus tripartite motif-containing 59 (Trim59), mRNA.
ILMN_1218263	0.605579079	8.263267485	5.275579016	0.000236699	0.004430072	Pemt	Mus musculus phosphatidylethanolamine N-methyltransferase (Pemt), mRNA.
ILMN_1227573	0.403152856	8.259352289	3.602938582	0.003955912	0.026990914	Irf7	
ILMN_1259610	1.560188807	8.258993676	8.247745518	3.99778E-06	0.000310746	6030411F23Rik	Mus musculus CD276 antigen (Cd276), mRNA.
ILMN_1255743	0.377954259	8.258400011	3.672676274	0.003494724	0.024893912	Il6ra	
ILMN_2616028	0.459260683	8.251700518	4.246547986	0.001284087	0.013000495	Ptges	Mus musculus prostaglandin E synthase (Ptges), mRNA.
ILMN_2524251	0.921282413	8.2439402	5.639274988	0.00013489	0.00303985	1500031A17Rik	
ILMN_2839877	0.409689986	8.243344566	3.90697259	0.002312131	0.019071686	Hectd2	Mus musculus HECT domain containing 2 (Hectd2), mRNA.
ILMN_1235488	1.041858156	8.241842854	7.300910974	1.30039E-05	0.000670222	Garnl3	Mus musculus GTPase activating RANGAP domain-like 3 (Garnl3), mRNA.
ILMN_2684465	0.761663698	8.240144712	7.123344044	1.64142E-05	0.000780311	2310043J07Rik	
ILMN_3049961	0.791410094	8.239409814	3.95880398	0.00211182	0.017997984	Syne1	Mus musculus synaptic nuclear envelope 1 (Syne1), transcript variant 1, mRNA.
ILMN_2659337	0.352022428	8.238364063	3.337540019	0.006362681	0.036909741	Solt	Mus musculus centromere protein K (Cenpk), transcript variant 1, mRNA.
ILMN_3149950	0.515836829	8.236215985	4.307550349	0.001157032	0.012152403	Ptprg	Mus musculus protein tyrosine phosphatase, receptor type, G (Ptprg), mRNA.
ILMN_1219573	0.964077056	8.231847081	3.856156819	0.002527657	0.020179818	C130072A16Rik	
ILMN_2881050	0.446074566	8.23176349	4.620205238	0.000683435	0.008749423	Rad51	Mus musculus RAD51 homolog (S. cerevisiae) (Rad51), mRNA.
ILMN_1245466	0.514932813	8.231311512	3.579222351	0.004126631	0.027653412	E230016K23Rik	
ILMN_1216742	0.774364942	8.230216852	3.438493262	0.005307308	0.032759515	Trp63	Mus musculus transformation related protein 63 (Trp63), mRNA.
ILMN_2771738	0.402910939	8.230211408	3.920734509	0.0022571	0.018791164	Dlk1	
ILMN_2746895	0.737789663	8.229332733	3.422439265	0.005462364	0.033354244	Gpr120	
ILMN_2449019	0.46659992	8.227565957	4.286002977	0.001200343	0.012478894	Tnk2	
ILMN_2987487	0.75702105	8.225746537	4.305754767	0.001160578	0.012173573	Tmem171	Mus musculus transmembrane protein 171 (Tmem171), mRNA.
ILMN_2908070	1.280581988	8.225626154	10.16769287	4.84589E-07	9.85896E-05	Gtse1	Mus musculus G two S phase expressed protein 1 (Gtse1), mRNA.
ILMN_1239032	0.593581099	8.224091685	4.488975048	0.000851117	0.010082672	1810049O03Rik	
ILMN_2604403	0.5815129	8.222412942	4.987135	0.00037468	0.00589274	4933436C20Rik	
ILMN_2694179	0.406442985	8.220255478	3.659920911	0.003574748	0.025215551	Ccl6	

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ILMN_2797642	0.692251692	8.220059707	6.658368709	3.07742E-05	0.001165657	Ncaph	Mus musculus non-SMC condensin I complex, subunit H (Ncaph), mRNA.
ILMN_1253365	1.243945357	8.218496452	9.685765725	7.97364E-07	0.000135911	Gpr39	
ILMN_1244612	0.813670626	8.218158292	4.701692157	0.00059708	0.007968742	C730010K05Rik	
ILMN_2647331	0.407807797	8.217485415	3.393874454	0.005749787	0.034521864	Nfatc4	Mus musculus nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 4 (Nfatc4), mRNA.
ILMN_2950343	0.418751567	8.216568995	3.714343264	0.003245927	0.023752701	Rasef	Mus musculus RAS and EF hand domain containing (Rasef), mRNA.
ILMN_2442122	0.340555508	8.213394266	4.334930894	0.001104337	0.011775157	9430067K09Rik	
ILMN_2648169	1.113337939	8.213390444	4.346514451	0.001082804	0.011640432	Sfn	Mus musculus stratifin (Sfn), mRNA.
ILMN_1254210	1.471116536	8.209919427	11.64978104	1.17363E-07	4.0589E-05	E130306M17Rik	
ILMN_3019158	0.844419156	8.208620441	5.973387066	8.17999E-05	0.002198187	Ms4a7	
ILMN_2831436	1.48267635	8.207301749	6.129971471	6.50527E-05	0.001877089	Msr2	Mus musculus macrophage scavenger receptor 2 (Msr2), mRNA.
ILMN_2890515	0.523136237	8.205411679	3.757997126	0.003004769	0.022589471	Nsg2	Mus musculus neuron specific gene family member 2 (Nsg2), mRNA.
ILMN_2830661	0.656272221	8.203205348	3.668563793	0.003520322	0.025019933	Top2a	Mus musculus topoisomerase (DNA) II alpha (Top2a), mRNA.
ILMN_1213736	0.473863959	8.202414872	4.55252289	0.000765103	0.00938214	6330406I15Rik	Mus musculus RIKEN cDNA 6330406I15 gene (6330406I15Rik), mRNA.
ILMN_2892006	0.652886233	8.202297232	5.843292197	9.92041E-05	0.00253188	F3	Mus musculus coagulation factor III (F3), mRNA.
ILMN_2752966	0.560714267	8.199116381	4.466302618	0.000884205	0.010277539	Tlr4	
ILMN_2427592	0.593129796	8.19411487	3.731045632	0.003151385	0.02326683	TRAV3-1_AF259071_T_cell_receptor_alpha_variable_3-1_17	
ILMN_2879681	1.80903235	8.193067546	9.097827905	1.50486E-06	0.000189003	B4galnt2	Mus musculus beta-1,4-N-acetyl-galactosaminyl transferase 2 (B4galnt2), mRNA.
ILMN_1228308	1.719470264	8.192628466	8.477659824	3.04727E-06	0.000273372	6330548O06Rik	Mus musculus protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), gamma isoform (Ppp2r2c), mRNA.
ILMN_1219102	0.285312001	8.191116774	3.270451663	0.007180095	0.039992551	5133400O11Rik	
ILMN_2692306	0.281016286	8.188329352	3.524973228	0.004546141	0.029608231	Suv39h1	Mus musculus suppressor of variegation 3-9 homolog 1 (Drosophila) (Suv39h1), mRNA.
ILMN_2688515	0.506777394	8.188000181	3.670772487	0.00350655	0.02495643	Ephb2	
ILMN_1228718	1.377358157	8.186114013	10.72403688	2.79185E-07	7.05562E-05	Sdc1	Mus musculus syndecan 1 (Sdc1), mRNA.
ILMN_2534259	0.31859508	8.180084975	3.119245939	0.009435663	0.047679607	LOC237877	
ILMN_2716959	0.684083407	8.177607957	6.939096888	2.09874E-05	0.000908932	Matn2	
ILMN_2600744	0.514440073	8.176683243	3.286650025	0.006973437	0.039293299	Rgs16	Mus musculus regulator of G-protein signaling 16 (Rgs16), mRNA.
ILMN_2504842	1.50348401	8.17632048	7.15693736	1.5702E-05	0.000760034	Ugt1a12	
ILMN_1259368	0.623862725	8.174185768	4.348602136	0.00107897	0.011616681	Apobec3	
ILMN_1227086	0.56513688	8.17375791	5.84159632	9.94555E-05	0.002533092	Pik3cg	
ILMN_2691352	0.830888408	8.171072049	6.516895755	3.74661E-05	0.001338405	Efna4	

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2608052	0.369527392	8.170770014	3.376312039	0.005934116	0.035207812	Smox	Mus musculus spermine oxidase (Smox), mRNA.
ILMN_1230152	0.974585943	8.169698928	6.709073845	2.8697E-05	0.001117122	Adamts4	
ILMN_2680770	0.426879531	8.167936575	3.194019548	0.008242343	0.043679111	Cysltr1	Mus musculus cysteinyl leukotriene receptor 1 (Cysltr1), mRNA.
ILMN_2602352	0.806849713	8.167886756	5.238025796	0.000251117	0.004587513	Ms4a6d	
ILMN_2879102	1.348031403	8.166573877	7.533411956	9.64136E-06	0.000550411	Gjb3	Mus musculus gap junction membrane channel protein beta 3 (Gjb3), mRNA.
ILMN_2967904	0.782661095	8.166237161	5.819021119	0.000102866	0.002583892	Slc44a1	Mus musculus solute carrier family 44, member 1 (Slc44a1), mRNA.
ILMN_3160750	0.719768215	8.159678611	3.288087907	0.006955387	0.03925648	AA467197	Mus musculus expressed sequence AA467197 (AA467197), mRNA.
ILMN_2603699	0.57564052	8.159374508	4.904710704	0.000428147	0.006413604	Birc5	
ILMN_2521893	0.420781976	8.159230702	4.159079247	0.001492187	0.014377891	scl0015365.1_6	
ILMN_1248696	0.385800002	8.154291731	3.433686218	0.005353259	0.032923921	E430036I04Rik	
ILMN_1234533	0.27527532	8.153543542	3.388292646	0.00580773	0.034690206	Slc22a9	
ILMN_1255166	0.948107251	8.152946525	6.742706746	2.74021E-05	0.001091514	Ctxn	Mus musculus cortexin 1 (Ctxn1), mRNA.
ILMN_2854036	0.299767357	8.149730391	3.142883633	0.009040651	0.046403237	Zfp553	Mus musculus zinc finger protein 553 (Zfp553), mRNA.
ILMN_1236133	0.721716032	8.148402759	5.042871769	0.000342547	0.005556907	Tpcn2	
ILMN_1216213	0.528543916	8.146949156	5.193195393	0.000269554	0.004807276	Incenp	Mus musculus inner centromere protein (Incenp), mRNA.
ILMN_2736497	0.510977415	8.146698563	3.927776985	0.002229464	0.018628047	Fgf10	Mus musculus fibroblast growth factor 10 (Fgf10), mRNA.
ILMN_1239908	0.522498575	8.146294985	3.582582579	0.00410199	0.027553544	Epn3	
ILMN_1246759	0.368274195	8.146260661	4.012952426	0.001921671	0.016834375	D730042P09Rik	
ILMN_2424222	0.491426177	8.14614839	3.537255682	0.004447481	0.029140648	A430065P19Rik	
ILMN_2688653	0.44427776	8.145093804	4.407311401	0.000976759	0.010881608	Epha2	Mus musculus Eph receptor A2 (Epha2), mRNA.
ILMN_2769285	0.547088669	8.144330206	5.318061385	0.000221437	0.004237153	Sema6b	Mus musculus sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6B (Sema6b), mRNA.
ILMN_2873444	0.595992076	8.14389159	4.341720328	0.001091663	0.011686208	Fbxo32	Mus musculus F-box protein 32 (Fbxo32), mRNA.
ILMN_2909238	0.594958499	8.14356344	3.196154189	0.008210614	0.043609896	Spnb1	Mus musculus spectrin beta 1 (Spnb1), mRNA.
ILMN_1222039	0.369553731	8.143426615	3.314952925	0.006626745	0.037979632	D11Lgp2e	
ILMN_2660293	0.594081452	8.142748782	4.443982347	0.000918097	0.010522832	BC011467	
ILMN_1228631	0.300293288	8.142096717	3.096704054	0.00982859	0.049077139	Nkd2	
ILMN_2736197	0.545748568	8.139990147	3.490290485	0.004837012	0.030756902	2610307O08Rik	
ILMN_1227142	0.49160124	8.139658218	3.990713131	0.001997523	0.017295681	Rpl14	Mus musculus ribosomal protein L14 (Rpl14), mRNA.
ILMN_2754698	0.441538872	8.138238591	4.880272895	0.0004455	0.006577854	Cd84	Mus musculus CD84 antigen (Cd84), mRNA.
ILMN_1229458	0.334549417	8.134698457	3.111638799	0.009566458	0.048140953	Prkcb	
ILMN_2955047	0.524534481	8.133201199	5.72142256	0.000119108	0.00281693	Dsg2	Mus musculus desmoglein 2 (Dsg2), mRNA.

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ILMN_3150996	0.391107807	8.132383913	3.73054448	0.00315418	0.02326683	Blm	Mus musculus Bloom syndrome homolog (human) (Blm), transcript variant 2, mRNA.
ILMN_2658980	0.546560782	8.128623666	5.280092259	0.000235026	0.004419977	Dab1	
ILMN_1228235	1.190350205	8.127360807	4.414462685	0.000965019	0.010824058	Ctse	
ILMN_3159275	0.787983142	8.126543474	4.937109545	0.00040623	0.006206063	Ahnak	Mus musculus AHNAK nucleoprotein (desmoyokin) (Ahnak), transcript variant 1, mRNA.
ILMN_2879195	0.400122603	8.124547537	3.44319966	0.005262709	0.032560028	BC057371	Mus musculus cDNA sequence BC057371 (BC057371), mRNA.
ILMN_1246065	0.613443288	8.122267729	3.939593289	0.00218388	0.018337061	Gadd45b	Mus musculus growth arrest and DNA-damage-inducible 45 beta (Gadd45b), mRNA.
ILMN_2863060	0.559637822	8.121411146	3.955726254	0.002123197	0.018053227	Ccdc109a	Mus musculus coiled-coil domain containing 109A (Ccdc109a), mRNA. XM_918871
ILMN_2663604	0.580506969	8.11849883	4.987651945	0.000374368	0.00589274	Fignl1	Mus musculus fidgetin-like 1 (Fignl1), mRNA.
ILMN_2659052	0.764502267	8.116834838	6.750538755	2.71097E-05	0.001084217	Ccnb1	
ILMN_2507232	0.538815392	8.115813731	3.748270097	0.003056855	0.022842421	Gas2l3	
ILMN_1254343	0.286966444	8.115631452	3.645301614	0.003668787	0.025666452	LOC380732	
ILMN_2891157	0.450479869	8.115055087	3.635694636	0.003731966	0.026009317	Rock2	Mus musculus Rho-associated coiled-coil containing protein kinase 2 (Rock2), mRNA.
ILMN_2825446	0.392073031	8.114873483	3.191840385	0.008274862	0.043740686	Sdcbp2	Mus musculus syndecan binding protein (syntenin) 2 (Sdcbp2), mRNA.
ILMN_2760434	0.372755927	8.112084109	3.490117211	0.004838512	0.030756902	Liph	Mus musculus lipase, member H (Liph), mRNA.
ILMN_2770119	0.398761708	8.110064718	4.439864984	0.000924495	0.010541203	Rog	
ILMN_2835384	0.468624894	8.106801866	4.851481351	0.0004669	0.006777151	Kif26b	Mus musculus kinesin family member 26B (Kif26b), mRNA.
ILMN_2482103	0.579636439	8.105350453	3.640704796	0.003698879	0.025846662	Rps20	
ILMN_1232960	0.446602958	8.101563036	3.934648132	0.002202839	0.018463764	LOC269515	
ILMN_2553280	0.486581925	8.101364476	3.425031029	0.005437022	0.033250551	4732470M22Rik	
ILMN_2749595	0.458391522	8.1012758	3.188026612	0.008332086	0.043949726	2610204M08Rik	
ILMN_2833587	0.511722323	8.100517573	3.287471374	0.00696312	0.039272263	Alg8	Mus musculus asparagine-linked glycosylation 8 homolog (yeast, alpha-1,3-glucosyltransferase) (Alg8), mRNA.
ILMN_2835117	1.171184006	8.096744649	4.088040746	0.001686916	0.015476695	Ccl7	Mus musculus chemokine (C-C motif) ligand 7 (Ccl7), mRNA.
ILMN_1242313	0.691139005	8.096663458	4.343420437	0.001088513	0.011663751	1700094C09Rik	Mus musculus RIKEN cDNA 1700094C09 gene (1700094C09Rik), mRNA.
ILMN_2740738	0.603648509	8.095195764	5.115219596	0.000305111	0.005149132	Slc7a11	
ILMN_2941715	0.545398529	8.089913683	3.215908501	0.007922799	0.042648713	Upk3b	Mus musculus uroplakin 3B (Upk3b), mRNA.
ILMN_2678431	0.736006271	8.088336474	5.375527518	0.000202428	0.004005431	Mns1	Mus musculus meiosis-specific nuclear structural protein 1 (Mns1), mRNA.
ILMN_3009047	0.754914419	8.086478425	5.524902876	0.000160658	0.003407804	EG625716	Mus musculus predicted gene, EG625716 (EG625716), mRNA.
ILMN_2873131	0.437177584	8.085765149	3.447675561	0.00522065	0.032383772	Trp53i11	Mus musculus transformation related protein 53 inducible protein 11 (Trp53i11), mRNA.

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ILMN_1220232	0.512219389	8.083515718	3.128117146	0.009285412	0.047164278	AI591476	
ILMN_1233962	0.991971043	8.082175325	8.927629547	1.8195E-06	0.000203844	Lamc2	
ILMN_1241903	0.508850156	8.080368501	3.423467418	0.005452296	0.033309817	Klf4	Mus musculus Kruppel-like factor 4 (gut) (Klf4), mRNA.
ILMN_2677332	0.341521916	8.079675894	3.460994673	0.005097513	0.03189354	Hic2	
ILMN_2633377	0.36449887	8.079557245	3.360775234	0.006102205	0.035795702	Mcm3	Mus musculus minichromosome maintenance deficient 3 (S. cerevisiae) (Mcm3), mRNA.
ILMN_2645234	0.940114761	8.077435958	6.924472711	2.14047E-05	0.000923654	1700016D02Rik	
ILMN_2718401	1.076612367	8.075727367	4.023892739	0.001885459	0.016614739	Htra3	
ILMN_2735937	0.639724732	8.073777003	4.186304651	0.001423891	0.013919833	Bmp15	Mus musculus bone morphogenetic protein 15 (Bmp15), mRNA.
ILMN_1229523	0.384752422	8.071239236	3.439311904	0.005299522	0.032728392	Fcgr1	Mus musculus Fc receptor, IgG, high affinity I (Fcgr1), mRNA.
ILMN_2640457	0.747863636	8.065504136	8.102421029	4.75997E-06	0.000341439	Pcdhb22	Mus musculus protocadherin beta 22 (Pcdhb22), mRNA.
ILMN_2612206	0.666489596	8.062553691	4.967315838	0.000386859	0.006006263	Cdc20	Mus musculus cell division cycle 20 homolog (S. cerevisiae) (Cdc20), mRNA.
ILMN_2697499	0.633373071	8.062352591	4.187157761	0.001421804	0.01390513	Nope	Mus musculus neighbor of Punc E11 (Nope), mRNA.
ILMN_3050451	0.792296197	8.061570459	8.947071612	1.78022E-06	0.000201333	Dbndd2	Mus musculus dysbindin (dystrobrevin binding protein 1) domain containing 2 (Dbndd2), transcript variant 1, mRNA.
ILMN_2649392	0.399175642	8.060564519	3.267914552	0.007213022	0.040094186	BC032204	Mus musculus cDNA sequence BC032204 (BC032204), mRNA.
ILMN_1223293	0.280205379	8.059536603	3.121816373	0.009391877	0.047522976	Pde1c	
ILMN_2817717	0.3922441	8.058836673	3.712624333	0.003255821	0.023783331	Tspan17	Mus musculus tetraspanin 17 (Tspan17), mRNA.
ILMN_2674966	0.651275875	8.058762612	3.379030662	0.005905193	0.035060265	Igsf10	
ILMN_2499470	0.534730733	8.058190975	3.877643612	0.002434095	0.01975002	2210420N10Rik	
ILMN_2770723	0.565359021	8.056974027	4.645500559	0.000655306	0.00848485	5830426I05Rik	
ILMN_2613832	0.608108272	8.056678442	3.953885056	0.002130033	0.018088605	Mgst2	
ILMN_1248916	0.648223119	8.056004249	7.424418165	1.10841E-05	0.000593608	2310061G07Rik	Mus musculus Ly6/Plaur domain containing 3 (Lypd3), mRNA.
ILMN_2633996	0.525266384	8.051392812	3.327236387	0.006481785	0.037343033	Epha1	Mus musculus Eph receptor A1 (Epha1), mRNA.
ILMN_1219984	0.556533464	8.05036823	4.179193403	0.00144141	0.014017075	Sesn2	Mus musculus sestrin 2 (Sesn2), mRNA.
ILMN_2637571	0.4141348	8.047430169	3.871399851	0.002460908	0.019888768	Gprk5	Mus musculus G protein-coupled receptor kinase 5 (Grk5), mRNA.
ILMN_2858359	0.468063926	8.047227306	4.088513214	0.001685537	0.015469992	Clspn	Mus musculus claspin homolog (Xenopus laevis) (Clspn), mRNA.
ILMN_3161105	0.950033822	8.046708917	4.774148912	0.000529906	0.007379704	AI450948	Mus musculus AHNAK nucleoprotein 2 (Ahnak2), mRNA.
ILMN_1229124	0.351832558	8.046636808	3.733667725	0.003136802	0.023210392	LOC385238	
ILMN_2945694	0.68210579	8.046358705	4.835851059	0.000478968	0.006883814	Hist1h3a	Mus musculus histone cluster 1, H3a (Hist1h3a), mRNA.
ILMN_3160190	0.920591363	8.045748036	3.604600149	0.003944226	0.026982105	Capn13	Mus musculus calpain 13 (Capn13), mRNA.
ILMN_1236908	0.48387009	8.042526553	3.368818215	0.006014593	0.03552719	Tlr1	Mus musculus toll-like receptor 1 (Tlr1), mRNA.
ILMN_2617228	0.528822762	8.042501246	5.301780749	0.000227159	0.004319167	Stk6	

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ILMN_1229609	0.316584707	8.041941928	3.329754776	0.006452466	0.037268362	Zmat2	
ILMN_1237498	1.365296868	8.041397994	7.413572493	1.12399E-05	0.0005987	LOC385201	
ILMN_2536590	0.407953401	8.037029309	3.526372218	0.004534791	0.029550442	LOC383054	
ILMN_2742636	0.516154433	8.036617199	3.649581508	0.003640996	0.025531911	Lipe	
ILMN_1254956	0.274723098	8.036030338	3.266127548	0.007236306	0.040195524	Adamts16	
ILMN_1226293	0.461286118	8.034615233	3.368852199	0.006014225	0.03552719	Slc39a4	Mus musculus solute carrier family 39 (zinc transporter), member 4 (Slc39a4), mRNA.
ILMN_1245276	0.726752188	8.034308126	5.779911312	0.000109073	0.002677781	2010300C02Rik	
ILMN_1228148	0.626497661	8.032690112	6.005930416	7.79749E-05	0.002138404	Lamc2	
ILMN_2634222	0.511943199	8.031971226	4.327762452	0.001117887	0.011861328	Efs	Mus musculus embryonal Fyn-associated substrate (Efs), mRNA.
ILMN_2767113	0.677790698	8.031879574	4.773972455	0.00053006	0.007379704	Tgif	Mus musculus TG interacting factor 1 (Tgif1), mRNA.
ILMN_2696611	0.736200907	8.031393497	4.905456999	0.000427628	0.006409859	Nkd1	
ILMN_1213191	0.41966817	8.029519987	3.452125328	0.005179177	0.032218638	Brrn1	
ILMN_2643900	0.434512246	8.027836601	4.851076921	0.000467208	0.006777501	A730020M07Rik	
ILMN_1236029	0.405976746	8.027711398	4.652003288	0.000648273	0.008407762	9930017A07Rik	Mus musculus tensin 4 (Tns4), mRNA.
ILMN_2486163	0.503149228	8.027333775	4.992100401	0.000371693	0.005865896	9430030N17Rik	
ILMN_2731135	0.502614473	8.025484226	3.743777423	0.003081226	0.022927129	1700013H19Rik	Mus musculus synaptonemal complex central element protein 2 (Syce2), mRNA.
ILMN_1223045	0.661615388	8.024031966	3.177472367	0.008492545	0.044510782	2810417H13Rik	
ILMN_1233823	0.837756022	8.020779278	7.185857825	1.51154E-05	0.000743707	Lamc2	
ILMN_1237195	0.863546718	8.019821963	3.872199026	0.002457459	0.019877934	Foxa1	
ILMN_2704919	0.499955627	8.019446039	3.825279239	0.002668666	0.020845293	2700084L22Rik	Mus musculus ubiquitin-conjugating enzyme E2T (putative) (Ube2t), mRNA.
ILMN_1241151	0.404534254	8.018962305	3.594810432	0.00401359	0.027199444	A930016D02Rik	Mus musculus leucine-rich repeats and transmembrane domains 1 (Lrtm1), mRNA.
ILMN_2802311	0.667985455	8.018226174	3.774905538	0.002916394	0.022176931	Gm1673	Mus musculus gene model 1673, (NCBI) (Gm1673), mRNA. XM_922421
ILMN_2732163	0.984865358	8.017238938	6.629868816	3.20117E-05	0.001199209	Oit1	
ILMN_2780323	0.706716515	8.014101602	5.38442272	0.000199644	0.003966781	Tkt	Mus musculus transketolase (Tkt), mRNA.
ILMN_1229763	1.084445737	8.013524777	5.844676637	9.89995E-05	0.002529362	Dmkn	Mus musculus dermokine (Dmkn), transcript variant 2, mRNA.
ILMN_2753497	0.784018987	8.013280315	6.227022967	5.65373E-05	0.00170995	Ccnb1	
ILMN_2606436	0.476084662	8.013075511	4.173054994	0.001456712	0.014119222	Diap3	
ILMN_2500700	0.39586072	8.010681316	3.458695788	0.005118553	0.031983249	A730055L17Rik	
ILMN_1214466	0.49649889	8.007307575	3.355224833	0.006163423	0.03604847	4932408C11Rik	
ILMN_1238310	0.589147184	8.002756353	3.79397207	0.002819949	0.021644402	LOC381633	
ILMN_2462901	0.840299323	8.002112434	7.833833071	6.61174E-06	0.000423755	G630023A01Rik	

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2890866	0.396793341	8.001293224	3.821696588	0.002685545	0.0209216	Bcl2l14	Mus musculus Bcl2-like 14 (apoptosis facilitator) (Bcl2l14), mRNA.
ILMN_1235237	0.380774374	7.999485525	4.129384157	0.001570577	0.01475796	8030462N17Rik	
ILMN_1254179	0.564249054	7.999066719	5.51834006	0.000162287	0.003421068	Rap2b	
ILMN_2677422	0.688597364	7.997697636	5.656579944	0.000131389	0.002983204	Bcl2l14	
ILMN_1220739	0.594183811	7.99688899	5.612844638	0.000140428	0.003125639	Nsg2	Mus musculus neuron specific gene family member 2 (Nsg2), mRNA.
ILMN_2992709	0.969609989	7.99683265	5.217681994	0.000259313	0.004687324	Trem2	Mus musculus triggering receptor expressed on myeloid cells 2 (Trem2), mRNA.
ILMN_2782794	1.195779623	7.996685214	8.60504897	2.6279E-06	0.000247723	C4bp	Mus musculus complement component 4 binding protein (C4bp), mRNA.
ILMN_2911788	1.012560646	7.991998809	4.435230714	0.000931753	0.010587825	Tmprss13	Mus musculus transmembrane protease, serine 13 (Tmprss13), mRNA.
ILMN_1231012	0.511774471	7.991634455	3.685984014	0.003413198	0.024522438	Lcp2	
ILMN_2460875	0.421672152	7.99156378	4.326304052	0.001120664	0.011885516	Tnfrsf10b	Mus musculus tumor necrosis factor receptor superfamily, member 10b (Tnfrsf10b), mRNA.
ILMN_2674483	1.183305143	7.991220267	6.841154556	2.39582E-05	0.000997579	Gpx2	Mus musculus glutathione peroxidase 2 (Gpx2), mRNA.
ILMN_1257987	0.430905528	7.990746515	3.628268486	0.003781568	0.026270615	Slc7a3	
ILMN_2665411	0.355789632	7.990317508	3.586602593	0.00407271	0.027430728	Nnmt	Mus musculus nicotinamide N-methyltransferase (Nnmt), mRNA.
ILMN_2512663	0.794332301	7.990177151	5.022655565	0.000353853	0.005690022	Wnt4	Mus musculus wingless-related MMTV integration site 4 (Wnt4), mRNA.
ILMN_1245192	0.474896045	7.986796066	4.54965814	0.000768777	0.009422358	Nssr	
ILMN_2791644	0.552984394	7.985903468	3.839977438	0.002600557	0.020555509	Reep1	Mus musculus receptor accessory protein 1 (Reep1), mRNA.
ILMN_2574633	0.324253561	7.985698247	3.42714365	0.005416454	0.033190914	B430201C15Rik	
ILMN_1223299	0.399275327	7.982831331	3.310905528	0.006675228	0.03817051	Pvr	
ILMN_1232336	0.630215038	7.982108445	3.931091114	0.002216581	0.018565905	1700007K13Rik	
ILMN_1253329	0.47266348	7.98101401	3.486620887	0.004868882	0.030903323	1700010A17Rik	
ILMN_2974737	0.817401935	7.979264031	6.864732277	2.32041E-05	0.000975143	BC065085	Mus musculus cDNA sequence BC065085 (BC065085), mRNA.
ILMN_2621507	0.859657187	7.977211825	6.248617004	5.48093E-05	0.001670388	Ros1	
ILMN_2474286	0.642081704	7.97631522	4.014117523	0.001917781	0.016808849	IGHV7S3_J00525_Ig_heavy_variable_7S3_105	
ILMN_2672442	0.54048842	7.974945868	3.998973762	0.001968992	0.017141942	Ccna2	Mus musculus cyclin A2 (Ccna2), mRNA.
ILMN_2795949	0.576270881	7.972073738	5.371340669	0.000203753	0.004014999	D2Ertd750e	Mus musculus DNA segment, Chr 2, ERATO Doi 750, expressed (D2Ertd750e), mRNA.
ILMN_2535227	0.711153416	7.966771989	3.475395157	0.004967716	0.031365761	M32486	
ILMN_2712454	0.72020854	7.966472804	4.985414583	0.000375721	0.005902463	1700010A17Rik	
ILMN_1222853	0.960609918	7.965605417	4.425180895	0.000947699	0.010707828	Cdh3	
ILMN_2717015	0.712586918	7.965007162	3.362126197	0.006087399	0.035743994	Ccl17	Mus musculus chemokine (C-C motif) ligand 17 (Ccl17), mRNA.
ILMN_2644229	1.375731825	7.96495964	8.602130019	2.63678E-06	0.000247723	Kcnd2	

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2698519	0.663197119	7.963073475	4.310656969	0.001150924	0.012114905	Hist1h3i	
ILMN_1239808	0.526050601	7.962821386	3.5986632	0.003986143	0.027100097	2210402C18Rik	Mus musculus LysM, putative peptidoglycan-binding, domain containing 2 (Lysmd2), mRNA.
ILMN_1227282	0.631671233	7.959984984	4.814836412	0.000495712	0.007044963	Soat2	Mus musculus sterol O-acyltransferase 2 (Soat2), mRNA.
ILMN_1234577	0.657156753	7.959475038	3.836374015	0.002617086	0.020608266	BC028663	
ILMN_1215110	0.261618748	7.957964905	3.245960891	0.007504423	0.041243217	Cacna2d1	
ILMN_1214296	0.460193994	7.957219487	4.272160382	0.001229056	0.012652701	Pcdhb17	Mus musculus protocadherin beta 17 (Pcdhb17), mRNA.
ILMN_2764770	0.681020142	7.950836818	4.857686423	0.000462198	0.006737592	Gpc6	
ILMN_1225464	0.470226093	7.950154059	3.393515432	0.005753496	0.034530104	D430030M24Rik	
ILMN_1220101	0.4754907	7.948263127	4.673971324	0.000625094	0.008214252	Ebi2	
ILMN_2714565	0.613952649	7.946473972	3.69248492	0.003374085	0.024339722	Rrm2	
ILMN_1237572	1.17707152	7.945797817	6.975337524	1.99902E-05	0.000870485	Aard	
ILMN_2564205	0.47385039	7.944662918	4.451309523	0.000906823	0.010458931	Pik3cg	
ILMN_1224644	0.373354169	7.939821677	3.917242319	0.002270935	0.018855711	Elk3	
ILMN_2981801	0.39080972	7.936747308	3.660526677	0.003570905	0.025210802	Hist1h2ag	
ILMN_1239135	0.383187662	7.932047728	3.514319503	0.004633533	0.029917302	LOC382878	
ILMN_2605960	0.473309096	7.929315268	5.237969601	0.000251139	0.004587513	Rab19	Mus musculus RAB19, member RAS oncogene family (Rab19), mRNA.
ILMN_2600004	0.401791677	7.927372957	4.311970088	0.001148352	0.012098507	Plk4	
ILMN_1227811	0.804820764	7.92701492	3.872067683	0.002458025	0.019877934	4930415O20Rik	
ILMN_2554253	0.364581529	7.926339024	3.199942348	0.008154613	0.043455453	6720490M18Rik	
ILMN_1248202	0.336500238	7.925397525	3.115432343	0.009501006	0.047912617	Arhgef2	
ILMN_2737200	0.560981075	7.925271445	4.244095008	0.001289491	0.013038607	Mbp	
ILMN_1239230	0.462246192	7.919022798	4.500657577	0.000834575	0.009957737	Aurkb	
ILMN_2751102	0.88442119	7.916296689	6.119442671	6.60555E-05	0.00189685	Hist1h2ae	Mus musculus histone cluster 1, H2ae (Hist1h2ae), mRNA.
ILMN_2613422	0.478050791	7.916140819	3.99578519	0.001979955	0.017199731	Itk	
ILMN_1227999	0.636255309	7.912967622	4.189391981	0.001416355	0.013884488	Ache	
ILMN_2834065	0.35863241	7.908516853	3.325361644	0.006503699	0.037426751	Esco2	Mus musculus establishment of cohesion 1 homolog 2 (S. cerevisiae) (Esco2), mRNA.
ILMN_2627920	0.388272036	7.906631516	3.625438558	0.003800648	0.026372455	Aytl1	Mus musculus acyltransferase like 1 (Aytl1), mRNA.
ILMN_2558167	0.666399062	7.905812736	3.391446907	0.005774914	0.034591513	9330158N06Rik	
ILMN_2625233	0.358011403	7.904519935	3.498291436	0.004768263	0.030448235	9130230L23Rik	
ILMN_1224252	0.703977751	7.897927089	3.162873209	0.008719668	0.045342652	9030624G23Rik	
ILMN_2756891	0.575743496	7.893924223	3.678137506	0.003461028	0.024735101	AI505034	Mus musculus 1-acylglycerol-3-phosphate O-acyltransferase 7 (lysophosphatidic acid acyltransferase, eta) (Agpat7), mRNA.

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2648732	0.637673469	7.886502642	3.277144823	0.00709396	0.039700553	Prnd	Mus musculus prion protein dublet (Prnd), mRNA.
ILMN_2735829	0.870995287	7.886016908	5.743602622	0.000115192	0.002760093	Kiss1	
ILMN_1236544	0.427361413	7.883008039	4.270437251	0.00123268	0.01267907	Utrn	
ILMN_2687628	0.389783872	7.876338118	3.09304789	0.009893859	0.049258089	Ckap2	
ILMN_1237729	0.627061951	7.876250706	4.166839513	0.001472379	0.014224853	Nefh	
ILMN_2416928	0.849122868	7.875302677	7.181577397	1.52007E-05	0.000744834	Tshr	
ILMN_2780247	0.33780824	7.875199785	3.210089837	0.008006497	0.042956674	Lta	Mus musculus lymphotoxin A (Lta), mRNA.
ILMN_2421822	0.402294434	7.873004013	3.545960483	0.00437889	0.028841691	2810430P21Rik	
ILMN_2776585	0.573455985	7.868882688	3.149648531	0.008930708	0.046043244	Slc1a5	
ILMN_2763194	0.289420254	7.867228248	3.982441489	0.002026522	0.017477012	ORF9	Mus musculus open reading frame 9 (ORF9), mRNA.
ILMN_2606619	0.590914192	7.863848924	3.244613649	0.00752269	0.041302368	Clec4a3	Mus musculus C-type lectin domain family 4, member a3 (Clec4a3), mRNA.
ILMN_2703079	0.48926582	7.863712089	4.512666762	0.000817922	0.009839511	Punc	
ILMN_2640346	0.838622255	7.859501482	5.903697632	9.06783E-05	0.002383102	P2ry13	Mus musculus purinergic receptor P2Y, G-protein coupled 13 (P2ry13), mRNA.
ILMN_1256359	0.468493785	7.857858311	4.400263455	0.000988476	0.010976267	Smox	Mus musculus spermine oxidase (Smox), mRNA.
ILMN_1216519	0.485669015	7.856379213	4.200477143	0.001389635	0.013740378	Myo3b	
ILMN_2623526	0.727321871	7.853199479	5.695141055	0.000123932	0.002885261	Myc	
ILMN_1231601	0.573679915	7.847977168	4.031967394	0.001859187	0.016517417	4930477M19	
ILMN_2632153	0.424107843	7.847523915	4.413214501	0.000967057	0.010824058	Cdca2	Mus musculus cell division cycle associated 2 (Cdca2), mRNA.
ILMN_2730436	0.379566333	7.843899624	4.260987065	0.001252754	0.012819244	Sag	
ILMN_2455181	0.563009861	7.84117377	4.747227202	0.000553887	0.007604954	Tnfrsf10b	Mus musculus tumor necrosis factor receptor superfamily, member 10b (Tnfrsf10b), mRNA.
ILMN_1251046	0.927253025	7.840695882	4.991313437	0.000372165	0.005865896	4921520P21Rik	Mus musculus DMRT-like family C1a (Dmrtc1a), transcript variant 1, mRNA.
ILMN_1255514	0.564659354	7.836710074	5.86654725	9.58251E-05	0.002480123	Il18r1	
ILMN_1255614	0.530682716	7.836114877	4.978716146	0.000379804	0.005944857	Tbc1d2	
ILMN_2637113	0.505624876	7.835577074	4.421094424	0.000954264	0.01075146	Slc9a9	
ILMN_2646078	0.339404387	7.827771072	3.154011052	0.008860526	0.045815541	Fgfr2	
ILMN_1217063	0.71424827	7.825466742	4.885027063	0.000442067	0.006551038	Liph	Mus musculus lipase, member H (Liph), mRNA.
ILMN_2657343	1.362843988	7.825225768	3.195329525	0.008222857	0.043633988	Spt2	Mus musculus salivary protein 2 (Spt2), mRNA.
ILMN_2816690	0.758245801	7.824166549	4.329614633	0.001114369	0.0118398	Nrip2	Mus musculus nuclear receptor interacting protein 2 (Nrip2), mRNA.
ILMN_1246673	0.652643739	7.824015355	3.380205886	0.005892734	0.035005806	1300013F15Rik	
ILMN_2636110	0.559368365	7.823972561	6.330075076	4.87805E-05	0.001572228	Sgol2	
ILMN_1245780	0.59730847	7.822302024	5.674086528	0.000127947	0.002932937	C130076O07Rik	Mus musculus neuron-glia-CAM-related cell adhesion molecule (Nrcam), mRNA.

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2741117	0.383389056	7.821093709	3.282676156	0.007023569	0.039452443	Ankrd23	
ILMN_1231094	0.376451418	7.820256326	3.870206723	0.002466066	0.019897559	Smyd3	
ILMN_2686652	0.416171127	7.819831487	3.16365426	0.008707362	0.045323378	Cart1	Mus musculus cartilage homeo protein 1 (Cart1), mRNA.
ILMN_1226394	0.337493873	7.817552795	3.346670106	0.006259004	0.036437819	BC024561	Mus musculus cDNA sequence BC024561 (BC024561), mRNA.
ILMN_2495688	0.283379862	7.816785949	3.384832462	0.005843948	0.034820006	scl0001333.1_125	
ILMN_2733708	0.601986396	7.816556223	3.124903682	0.009339557	0.047348597	Rbp7	Mus musculus retinol binding protein 7, cellular (Rbp7), mRNA.
ILMN_2448678	0.908319719	7.816400995	5.777126405	0.00010953	0.002683379	Ttc9	
ILMN_2847834	0.401882896	7.815888753	3.655677098	0.003601788	0.025353827	Unc119	Mus musculus unc-119 homolog (C. elegans) (Unc119), mRNA. XM_001004318
ILMN_2721149	0.640656569	7.815856426	7.043602909	1.82469E-05	0.00082311	Arl11	Mus musculus ADP-ribosylation factor-like 11 (Arl11), mRNA.
ILMN_1240429	0.344793561	7.814934959	3.505658475	0.004705845	0.030211348	scl0003173.1_9	
ILMN_3144535	0.488232457	7.813363734	4.201151489	0.001388026	0.013740378	Dmrtc1a	Mus musculus DMRT-like family C1a (Dmrtc1a), transcript variant 3, mRNA.
ILMN_2636934	0.447457619	7.812802634	5.020678714	0.000354979	0.005692791	AI326477	
ILMN_1224479	0.535678436	7.811983842	4.953371234	0.000395678	0.006091655	Hist1h2bg	Mus musculus histone cluster 1, H2bg (Hist1h2bg), mRNA.
ILMN_3105563	1.120534534	7.811484124	4.991320594	0.00037216	0.005865896	Dmkn	Mus musculus dermokine (Dmkn), transcript variant 2, mRNA.
ILMN_2925433	0.688955623	7.810935247	4.452352127	0.000905231	0.010454902	Plch2	Mus musculus phospholipase C, eta 2 (Plch2), mRNA.
ILMN_1245472	0.691083732	7.805121065	4.142738345	0.001534807	0.014632482	Afp	Mus musculus alpha fetoprotein (Afp), mRNA.
ILMN_2700627	0.812195529	7.80351919	6.488871939	3.89674E-05	0.001371504	Cyp3a13	
ILMN_2641229	0.432921938	7.802971402	3.700799119	0.003324735	0.024107073	Cd109	Mus musculus CD109 antigen (Cd109), mRNA.
ILMN_2766469	0.468025135	7.802288104	4.188837486	0.001417705	0.013884488	Smox	Mus musculus spermine oxidase (Smox), mRNA.
ILMN_2645460	0.690193052	7.797380708	5.181504099	0.000274593	0.00485	2410146L05Rik	Mus musculus RIKEN cDNA 2410146L05 gene (2410146L05Rik), mRNA.
ILMN_1231600	0.703690482	7.796031703	4.41826049	0.000958844	0.010792878	Ptgs2	
ILMN_2733290	0.997990652	7.786367329	7.106797504	1.67776E-05	0.000788117	Ivl	
ILMN_1241322	2.094603555	7.784839324	19.64375736	4.1033E-10	2.44792E-06	Casp14	Mus musculus caspase 14 (Casp14), mRNA.
ILMN_2764466	0.451608739	7.77711988	3.437843661	0.005313494	0.032772267	1700028N11Rik	Mus musculus calcyphosine-like (Capsl), mRNA.
ILMN_1220441	0.453538996	7.775248625	3.873698906	0.002451	0.01986017	Camk1d	
ILMN_1244101	0.501523075	7.774737134	3.289320738	0.006939949	0.039206439	LOC209182	
ILMN_1250913	0.511950341	7.773682014	4.849541215	0.00046838	0.006790378	9930023K05Rik	Mus musculus RIKEN cDNA 9930023K05 gene (9930023K05Rik), mRNA.
ILMN_2729015	0.791626586	7.767620356	4.843275389	0.000473195	0.006835597	BC049816	
ILMN_2614230	0.39193174	7.765332744	4.637250315	0.000664345	0.008573965	Eif5a2	
ILMN_1251191	0.550211049	7.753702198	5.372300507	0.000203449	0.004012311	Usp43	
ILMN_2710205	0.3216077	7.753513634	3.252319346	0.007418816	0.040930758	Chst12	Mus musculus carbohydrate sulfotransferase 12 (Chst12), mRNA.

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2657905	0.874669345	7.752338481	8.775975089	2.16E-06	0.000223134	Hemt1	
ILMN_2556209	0.477381889	7.751507172	3.716934089	0.003231073	0.023673039	Trim27	
ILMN_1246435	0.489229995	7.748732675	3.249383897	0.007458214	0.041064917	Impg2	Mus musculus interphotoreceptor matrix proteoglycan 2 (Impg2), mRNA.
ILMN_2655929	0.462333172	7.747239534	3.180803353	0.008441568	0.044359709	2700055K07Rik	Mus musculus tubulin polymerization-promoting protein family member 3 (Tppp3), mRNA.
ILMN_3075340	0.62104437	7.741040355	3.969369782	0.002073241	0.017751618	P2ry14	
ILMN_1216601	0.59068485	7.736709571	5.19231248	0.000269931	0.004807276	4933434I06Rik	
ILMN_2908807	0.765066374	7.728767866	5.172817046	0.000278402	0.004878443	EG433178	Mus musculus predicted gene, EG433178 (EG433178), mRNA.
ILMN_1218181	0.677399406	7.725609936	5.059361572	0.000333608	0.005475165	Ifitm6	
ILMN_2742840	0.3846356	7.723459963	3.571428019	0.004184374	0.027985347	Gpr34	Mus musculus G protein-coupled receptor 34 (Gpr34), mRNA.
ILMN_2416145	0.565618182	7.72108738	5.171410233	0.000279024	0.004878443	Tpx2	
ILMN_1225835	0.653999972	7.720905621	3.419173433	0.005494469	0.033473195	Mfap5	
ILMN_1244809	0.450698222	7.720709951	3.307028375	0.006722011	0.038354641	Igsf10	
ILMN_1231275	0.422103143	7.716507694	3.094205054	0.009873155	0.049206994	LOC381480	
ILMN_2635700	0.574875389	7.715322869	3.631173494	0.003762084	0.026180991	Lgi2	
ILMN_1231837	0.889902967	7.709473646	5.04866037	0.000339381	0.005531863	Pcdh9	
ILMN_2754718	0.935475369	7.709458265	6.614550085	3.26988E-05	0.001218424	LOC383540	
ILMN_2693785	0.475241245	7.705992452	4.466497032	0.000883916	0.010277539	Cenph	Mus musculus centromere protein H (Cenph), mRNA.
ILMN_2437728	0.63738319	7.705010042	3.531559638	0.004492959	0.029351312	2310006E12Rik	
ILMN_1250938	0.473044082	7.700272774	3.947959619	0.002152189	0.018181994	MGC58818	Mus musculus RIKEN cDNA 1700016K19 gene (1700016K19Rik), mRNA.
ILMN_1230426	0.604121947	7.691766953	4.556450733	0.000760094	0.009353099	LOC380670	
ILMN_1245816	1.139997049	7.690570252	8.653601863	2.48479E-06	0.000242488	Raet1b	Mus musculus retinoic acid early transcript beta (Raet1b), mRNA.
ILMN_2712986	0.377104943	7.68460637	3.106183724	0.009661377	0.048495886	Chi3l3	
ILMN_1250149	0.461677788	7.68228188	3.415462369	0.005531184	0.03362385	Dnmt3l	Mus musculus DNA (cytosine-5-)-methyltransferase 3-like (Dnmt3l), transcript variant 1, mRNA.
ILMN_3158725	1.111083612	7.676638605	8.828433073	2.03504E-06	0.000215831	Raet1b	Mus musculus retinoic acid early transcript beta (Raet1b), mRNA.
ILMN_1233884	0.504127722	7.673277895	5.162518168	0.000282991	0.004915208	BC058674	
ILMN_2988931	0.734957515	7.662172658	6.76131542	2.67127E-05	0.001073012	Stfa1	Mus musculus stefin A1 (Stfa1), mRNA.
ILMN_1237817	0.517754087	7.661617066	4.547925013	0.000771009	0.009435177	Gpr34	Mus musculus G protein-coupled receptor 34 (Gpr34), mRNA.
ILMN_3161813	0.361834713	7.658590629	3.281766634	0.007035094	0.039472951	Tube1	Mus musculus epsilon-tubulin 1 (Tube1), mRNA.
ILMN_2766028	0.570475606	7.656634507	5.052739556	0.000337168	0.005521701	Postn	
ILMN_2542373	1.034195469	7.651974992	5.238747199	0.000250831	0.004587513	LOC385207	
ILMN_3079461	0.732931474	7.650679393	6.209667098	5.79683E-05	0.001736572	Raet1b	Mus musculus retinoic acid early transcript beta (Raet1b), mRNA.

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2840082	0.466580418	7.646341426	4.11117944	0.001620742	0.015054791	P2ry12	Mus musculus purinergic receptor P2Y, G-protein coupled 12 (P2ry12), mRNA.
ILMN_2642517	0.699766534	7.645967812	3.359004827	0.006121664	0.03586924	6330406I15Rik	Mus musculus RIKEN cDNA 6330406I15 gene (6330406I15Rik), mRNA.
ILMN_2483304	0.900295831	7.636383722	3.975932885	0.002049646	0.017612787	Xlkd1	
ILMN_2574165	0.57566502	7.627471396	4.194177149	0.001404755	0.01381198	Slc7a11	
ILMN_2908065	0.547893713	7.626722444	4.266055029	0.001241947	0.012746915	Gtse1	Mus musculus G two S phase expressed protein 1 (Gtse1), mRNA.
ILMN_1236176	0.785092521	7.626655988	5.755267958	0.000113187	0.002736497	B230312C02Rik	
ILMN_3090207	0.541391827	7.624475685	3.176066532	0.008514153	0.044565304	Cyp4f18	Mus musculus cytochrome P450, family 4, subfamily f, polypeptide 18 (Cyp4f18), mRNA.
ILMN_1223315	0.57363155	7.62215513	3.850140676	0.002554514	0.020326232	Scarb1	Mus musculus scavenger receptor class B, member 1 (Scarb1), mRNA.
ILMN_1252678	0.40527834	7.616746484	3.632542768	0.003752936	0.026132571	Rab27b	
ILMN_3007428	0.586283823	7.61035172	3.67434778	0.003484375	0.024842439	Sox9	Mus musculus SRY-box containing gene 9 (Sox9), mRNA.
ILMN_2672745	0.527034188	7.600131943	3.717096315	0.003230145	0.023673039	4930432K21Rik	
ILMN_2668927	1.187799681	7.596513324	4.897162282	0.00043343	0.0064834	Apod	
ILMN_2907972	0.59961619	7.590228272	3.802943901	0.002775711	0.021392498	B3gnt3	Mus musculus UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 3 (B3gnt3), mRNA.
ILMN_2627340	0.618088252	7.584256934	3.946862734	0.002156317	0.018201695	Cd163	Mus musculus CD163 antigen (Cd163), mRNA.
ILMN_2756678	0.523355659	7.583452748	3.362191878	0.00608668	0.035743994	Birc1e	
ILMN_2682268	0.762824893	7.580806453	3.926831642	0.002233153	0.018645814	BC004853	Mus musculus leucine rich repeat containing 26 (Lrrc26), mRNA.
ILMN_2681913	0.860271175	7.580171466	3.451393766	0.005185972	0.032244283	2300002G24Rik	
ILMN_1252430	0.328363815	7.575177016	3.259057204	0.007329182	0.040598018	4633402D15Rik	Mus musculus coiled-coil domain containing 93 (Ccdc93), transcript variant 3, mRNA.
ILMN_2904117	0.698177872	7.571168802	5.77646672	0.000109638	0.002683379	Six1	Mus musculus sine oculis-related homeobox 1 homolog (Drosophila) (Six1), mRNA.
ILMN_2629519	0.710780324	7.552929788	5.70408432	0.000122268	0.002857538	Cryba2	Mus musculus crystallin, beta A2 (Cryba2), mRNA.
ILMN_2658198	0.731872587	7.545841042	7.082430854	1.73285E-05	0.000801378	Gpr123	
ILMN_1219764	0.599668612	7.527521327	4.114176703	0.001612369	0.015000378	Msr2	
ILMN_2655465	0.837690134	7.47961249	6.363236354	4.65324E-05	0.001529347	D630003K02Rik	
ILMN_1225141	0.460050616	7.475564537	3.421857199	0.005468072	0.033372019	Ptgds2	Mus musculus prostaglandin D2 synthase 2, hematopoietic (Ptgds2), mRNA.
ILMN_3117876	0.574390014	7.457818394	3.660003467	0.003574224	0.025215551	Chi3l3	Mus musculus chitinase 3-like 3 (Chi3l3), mRNA.
ILMN_2480140	0.545282087	7.429433877	3.368827737	0.00601449	0.03552719	4631405K08Rik	
ILMN_2898886	0.68384361	7.415308287	3.728429126	0.003166006	0.023332426	OTTMUSG0000 0010673	Mus musculus predicted gene, OTTMUSG00000010673 (OTTMUSG00000010673), mRNA. XM_902030 XM_902032 XM_902035 XM_918501

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_1221016	0.411494679	7.394575334	3.528211013	0.004519917	0.029469614	F730011J02	
ILMN_3009225	0.612830658	7.383611128	4.719692605	0.000579597	0.007818498	Apoc4	Mus musculus apolipoprotein C-IV (Apoc4), mRNA.
ILMN_2595189	0.364730466	7.375828982	3.232371795	0.007690756	0.041815739	AV006891	Mus musculus RIKEN cDNA B230120H23 gene (B230120H23Rik), transcript variant 1, mRNA.

Appendix I (a4)

List of downregulated genes: Fh1-/- Hif-1a-/- vs Fh1+/+ kidneys.

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.365927215	16.08140454	-3.201234048	0.008135605	0.0434095	mt-Atp6	
-0.385014721	16.07228168	-3.312279436	0.00665873	0.038132297	Gpx1	
-0.366905287	16.0677399	-3.095322659	0.009853199	0.049148598	mtDNA_ATP8	
-0.422114517	16.06475138	-3.567032578	0.004217302	0.028097024	Spink3	
-0.457506483	16.06403974	-4.122052742	0.001590582	0.014873068	Keg1	Mus musculus kidney expressed gene 1 (Keg1), mRNA.
-0.374390477	16.05705185	-3.141852957	0.009057521	0.046454412	mtDNA_ND1	
-0.397758578	16.04207758	-3.374772014	0.005950565	0.035285963	Fth1	Mus musculus ferritin heavy chain 1 (Fth1), mRNA.
-0.429115465	16.03707532	-4.156506348	0.001498815	0.01441024	mtDNA_ND2	
-0.399339146	16.02112851	-3.262955162	0.00727783	0.040379179	Slc34a1	
-0.376687032	16.01890824	-3.266162802	0.007235846	0.040195524	Igfbp7	
-0.309386253	16.01677693	-3.33116588	0.006436097	0.037205568	Uba52	
-0.395501272	16.00984627	-3.408406142	0.005601688	0.033927175	Napsa	Mus musculus napsin A aspartic peptidase (Napsa), mRNA.
-0.336122641	16.00962361	-3.136848321	0.009139891	0.046749837	Hspa8	
-0.419712072	16.00618271	-3.294951909	0.006869875	0.038939625	Rpl41	Mus musculus ribosomal protein L41 (Rpl41), mRNA.
-0.340395666	15.98232282	-3.237368513	0.007621702	0.041584551	LOC218963	Mus musculus ubiquitin pseudogene (LOC218963) on chromosome 14.
-0.371319467	15.98190799	-3.459355777	0.005112504	0.031962188	Gapd	
-0.298139384	15.97900648	-3.341468641	0.006317857	0.036715203	LOC384206	
-0.373961647	15.95789321	-3.798672494	0.002796682	0.021507326	Napsa	Mus musculus napsin A aspartic peptidase (Napsa), mRNA.
-0.487239791	15.9553479	-5.393093248	0.000196969	0.003923428	0610010I05Rik	
-0.413619233	15.94219479	-4.319304302	0.001134097	0.011986329	mtDNA_ND4L	
-0.380622122	15.93792148	-3.27622089	0.007105787	0.039742351	Atp5b	Mus musculus ATP synthase, H+ transporting mitochondrial F1 complex, beta subunit (Atp5b), nuclear gene encoding mitochondrial protein, mRNA.
-0.374712151	15.93098108	-3.406531281	0.005620574	0.033989804	mtDNA_ND4	
-0.358610856	15.9307322	-3.666867423	0.003530936	0.025062087	Gm1821	Mus musculus gene model 1821, (NCBI) (Gm1821) on chromosome 14. XM_899826
-0.33801891	15.92796519	-3.258395306	0.007337938	0.040620468	mtDNA_ATP6	
-0.343676268	15.92369304	-3.273345555	0.007142723	0.039861273	mtDNA_COXIII	
-0.302301658	15.92278648	-3.237236566	0.007623517	0.041584551	Cox8a	
-0.373164934	15.91923072	-3.656363849	0.003597398	0.025344829	Atp1a1	Mus musculus ATPase, Na+/K+ transporting, alpha 1 polypeptide (Atp1a1), mRNA.
-0.379806571	15.91901617	-3.499674912	0.004756477	0.030397378	Cyb5	
-0.377612673	15.91358176	-3.591338576	0.004038489	0.027284954	Grim19	
-0.364461463	15.90792703	-3.455180426	0.005150897	0.032092915	Hsd3b4	Mus musculus hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 4 (Hsd3b4), mRNA.
-0.420072704	15.90343402	-4.258903531	0.001257226	0.012848779	Prdx5	
-0.346921895	15.89923571	-3.325641928	0.006500418	0.037426751	Klk6	Mus musculus kallikrein 1 (Klk1), mRNA.
-0.334545603	15.89862973	-3.112514662	0.009551306	0.048105281	mt-Cytb	
-0.398483023	15.89013754	-3.320682265	0.006558726	0.037668081	Akr1a4	Mus musculus aldo-keto reductase family 1, member A4 (aldehyde reductase) (Akr1a4), mRNA.

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.315825607	15.87473619	-3.219695154	0.007868807	0.042434651	1110020P15Rik	
-0.450736828	15.87140522	-4.23612275	0.001307217	0.013162072	Acadm	Mus musculus acyl-Coenzyme A dehydrogenase, medium chain (Acadm), mRNA.
-0.396283195	15.87059025	-4.03739123	0.001841753	0.01644211	Napsa	Mus musculus napsin A aspartic peptidase (Napsa), mRNA.
-0.360182702	15.8685069	-3.365347477	0.006052241	0.03566221	Akr1a4	Mus musculus aldo-keto reductase family 1, member A4 (aldehyde reductase) (Akr1a4), mRNA.
-0.549887535	15.86417479	-5.607066392	0.00014167	0.003136062	Rpl23	Mus musculus ribosomal protein L23 (Rpl23), mRNA.
-0.505976401	15.86057709	-5.061731675	0.000332344	0.005463838	mt-Nd4l	
-0.536547989	15.85285643	-4.300147128	0.001171726	0.012260841	AI313915	
-0.449341781	15.84427206	-3.68342831	0.003428701	0.024599849	Slc27a2	
-0.468586037	15.83803014	-4.148546002	0.001519516	0.014556491	Aldrl6	Mus musculus myo-inositol oxygenase (Miox), mRNA.
-0.408092766	15.82585619	-3.826043917	0.002665077	0.020833461	Klk26	Mus musculus kallikrein 1-related petidase b26 (Klk1b26), mRNA.
-0.529002602	15.81869209	-5.121601873	0.000302023	0.00513307	Pdzk1	
-0.349137447	15.81791964	-3.29496284	0.006869739	0.038939625	Ly6a	Mus musculus lymphocyte antigen 6 complex, locus A (Ly6a), mRNA.
-0.357212115	15.81495657	-3.468165106	0.005032456	0.031644133	Sif1	
-0.395177885	15.81134923	-3.253293882	0.007405783	0.040873659	Akr1a4	Mus musculus aldo-keto reductase family 1, member A4 (aldehyde reductase) (Akr1a4), mRNA.
-0.476223664	15.80944705	-4.247956812	0.001280994	0.012980197	Fxyd2	
-0.558194107	15.80865864	-4.954283713	0.000395095	0.006090531	Pdzk1	Mus musculus PDZ domain containing 1 (Pdzk1), mRNA.
-0.428646424	15.79633351	-4.228628317	0.001324112	0.013287335	Hibadh	Mus musculus 3-hydroxyisobutyrate dehydrogenase (Hibadh), mRNA.
-0.435337177	15.79464165	-3.641642019	0.003692723	0.025811205	0610007H07Rik	Mus musculus transmembrane BAX inhibitor motif containing 4 (Tmbim4), mRNA.
-0.633355905	15.77372368	-5.345119259	0.000212262	0.004131486	Umod	Mus musculus uromodulin (Umod), mRNA.
-0.375684027	15.77000721	-3.95193617	0.002137294	0.01813091	mtDNA_ND5	
-0.250531652	15.76751734	-3.101364061	0.00974603	0.048787396	Cox6c	
-0.42168572	15.75868199	-3.518748151	0.004596998	0.029784999	Fxyd2	
-0.37209995	15.74219814	-3.805249617	0.002764458	0.021335146	Cox7c	
-0.339587993	15.71700513	-3.474534411	0.004975379	0.031384472	Vdac1	
-0.563884679	15.6935348	-3.674400772	0.003484048	0.024842439	Tmem27	Mus musculus transmembrane protein 27 (Tmem27), mRNA.
-0.747316808	15.67120838	-7.373821399	1.18311E-05	0.000624615	Lrp2	
-0.420627143	15.66602283	-4.532612166	0.000791028	0.009611669	Ndufa1	
-0.563895421	15.65202063	-4.035243152	0.001848637	0.016485066	Klk1b27	Mus musculus kallikrein 1-related peptidase b27 (Klk1b27), mRNA.
-0.59101104	15.59456274	-3.832833616	0.002633433	0.02068519	Dhrs6	Mus musculus 3-hydroxybutyrate dehydrogenase, type 2 (Bdh2), mRNA.
-0.39206306	15.56770369	-4.331560104	0.001110687	0.011816462	Aldob	Mus musculus aldolase 2, B isoform (Aldob), mRNA.
-0.393536398	15.56450768	-3.286053128	0.006980944	0.039307753	Park7	Mus musculus Parkinson disease (autosomal recessive, early onset) 7 (Park7), mRNA.
-0.386403257	15.56025172	-3.255365756	0.007378152	0.040793523	Suclg1	Mus musculus succinate-CoA ligase, GDP-forming, alpha subunit (Suclg1), mRNA.
-0.50350523	15.55579409	-3.848880499	0.002560177	0.020357715	Klk5	
-0.496932086	15.55434796	-3.740902438	0.003096927	0.02301525	Ngfa	Mus musculus kallikrein 1-related pepidase b4 (Klk1b4), mRNA.

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.403324757	15.52490417	-4.20711786	0.00137388	0.013654683	Atp5j	Mus musculus ATP synthase, H+ transporting, mitochondrial F0 complex, subunit F (Atp5j), mRNA.
-0.342863233	15.49828506	-3.472837895	0.004990516	0.031446711	Pramel4	Mus musculus preferentially expressed antigen in melanoma like 4 (Pramel4), mRNA.
-0.516123549	15.49652079	-3.409364319	0.00559206	0.033894674	Nme2	
-0.407326191	15.46884315	-3.523557382	0.004557657	0.02961958	Ech1	Mus musculus enoyl coenzyme A hydratase 1, peroxisomal (Ech1), mRNA.
-0.334047755	15.46688189	-3.618930827	0.003844901	0.026585747	Atp5c1	
-0.35740109	15.40784899	-3.856589644	0.002525736	0.020172614	Atp5a1	
-0.579827913	15.38003896	-4.157843486	0.001495366	0.014397758	Akr7a5	Mus musculus aldo-keto reductase family 7, member A5 (aflatoxin aldehyde reductase) (Akr7a5), mRNA.
-0.819322054	15.37791405	-6.314271585	4.98924E-05	0.001587442	Oxct	
-0.311108656	15.34992901	-3.851800509	0.002547075	0.020294392	Sod2	
-0.376664039	15.33533913	-4.017548622	0.001906371	0.016743366	Ndufs6	Mus musculus NADH dehydrogenase (ubiquinone) Fe-S protein 6 (Ndufs6), mRNA.
-0.465230577	15.33381797	-4.028044735	0.001871902	0.016556916	Abhd14b	Mus musculus abhydrolase domain containing 14b (Abhd14b), mRNA.
-0.596626365	15.3300238	-4.38240886	0.00101882	0.011198569	Scp2	Mus musculus sterol carrier protein 2, liver (Scp2), mRNA.
-1.194917376	15.32888852	-7.111030597	1.66838E-05	0.000786809	Umod	Mus musculus uromodulin (Umod), mRNA.
-0.572680789	15.31732943	-5.190129552	0.000270866	0.004807276	Khk	
-0.689237291	15.2873066	-6.162705644	6.20372E-05	0.001816433	Cldn10	
-0.445275197	15.26286949	-4.438906188	0.000925992	0.010546926	4833439L19Rik	
-0.42572761	15.2333664	-3.701428426	0.00332103	0.024102719	Hint2	
-0.284541627	15.22437048	-3.296599468	0.006849509	0.038871597	Gapd	
-0.627440809	15.21917426	-4.370929191	0.001038842	0.011338225	Fah	Mus musculus fumarylacetoacetate hydrolase (Fah), mRNA.
-0.424947944	15.21032476	-4.660116026	0.00063961	0.008340445	Lamp2	
-0.325738492	15.20722425	-3.214807883	0.007938562	0.042685423	Etfa	Mus musculus electron transferring flavoprotein, alpha polypeptide (Etfa), nuclear gene encoding mitochondrial protein, mRNA.
-0.965044679	15.18034887	-4.178840882	0.001442284	0.014017075	Ugt3a1	Mus musculus UDP glycosyltransferases 3 family, polypeptide A1 (Ugt3a1), mRNA.
-0.77422014	15.16563287	-4.067312708	0.001748581	0.015837828	Ass1	Mus musculus argininosuccinate synthetase 1 (Ass1), mRNA.
-0.556721717	15.16195314	-4.569537358	0.000743654	0.009218607	Aldh6a1	Mus musculus aldehyde dehydrogenase family 6, subfamily A1 (Aldh6a1), mRNA.
-0.782223712	15.15536257	-6.902882108	2.20372E-05	0.000944141	Fmo1	Mus musculus flavin containing monooxygenase 1 (Fmo1), mRNA.
-0.648820609	15.13947625	-5.975059185	8.15985E-05	0.002195249	Khk	
-0.86900977	15.1287703	-5.415210903	0.000190315	0.003822803	Lpl	
-0.329920871	15.10819104	-3.508410492	0.004682744	0.03013992	Uqcrb	Mus musculus ubiquinol-cytochrome c reductase binding protein (Uqcrb), mRNA.
-0.554005806	15.10453049	-3.745670761	0.003070931	0.022893222	Pter	
-0.255037652	15.09869793	-3.471027179	0.005006725	0.031535949	Ndufa6	Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 6 (B14) (Ndufa6), mRNA.
-0.975326652	15.07747404	-3.902246794	0.002331348	0.019163951	Sepp1	Mus musculus selenoprotein P, plasma, 1 (Sepp1), transcript variant 1, mRNA.
-0.363220689	15.07726754	-4.112866525	0.001616024	0.015016811	2400010C15Rik	
-0.333904048	15.06378001	-3.523704392	0.00455646	0.02961958	Ndufa2	Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 2 (Ndufa2),

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
						mRNA.
-0.833103185	15.03533597	-7.008854164	1.9113E-05	0.000841411	Lrpap1	
-0.76179747	15.02684075	-5.458527544	0.000177964	0.003660996	Galnt11	Mus musculus UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 11 (Galnt11), mRNA.
-0.684356241	14.99378167	-5.171730949	0.000278882	0.004878443	Sfxn1	Mus musculus sideroflexin 1 (Sfxn1), mRNA.
-0.307911707	14.97885304	-3.128511717	0.009278785	0.047147723	Tpi1	Mus musculus triosephosphate isomerase 1 (Tpi1), mRNA.
-0.590523154	14.97818995	-4.390761025	0.001004506	0.011097464	Sfxn1	Mus musculus sideroflexin 1 (Sfxn1), mRNA.
-0.64344286	14.97512586	-4.143152598	0.001533711	0.014627878	Cyba	Mus musculus cytochrome b-245, alpha polypeptide (Cyba), mRNA.
-0.226358982	14.96949963	-3.262990183	0.00727737	0.040379179	Ndufv2	Mus musculus NADH dehydrogenase (ubiquinone) flavoprotein 2 (Ndufv2), mRNA. XM_981927 XM_981966
-0.659867639	14.96595781	-5.423073598	0.000188007	0.003795531	Ghr	
-0.853419919	14.96037986	-4.730004866	0.000569824	0.007739168	Slc22a18	Mus musculus solute carrier family 22 (organic cation transporter), member 18 (Slc22a18), transcript variant 1, mRNA.
-0.321322066	14.95602945	-3.900167231	0.002339856	0.019214035	1810046J19Rik	
-0.416149742	14.94972607	-4.40846203	0.00097486	0.010865524	Idh3g	Mus musculus isocitrate dehydrogenase 3 (NAD+), gamma (Idh3g), mRNA.
-0.539751892	14.94672473	-4.255362629	0.001264863	0.012888459	Slc3a1	
-0.746600209	14.93862101	-3.531730766	0.004491586	0.029351312	Mep1a	Mus musculus meprin 1 alpha (Mep1a), mRNA.
-1.039048759	14.93629212	-3.145929747	0.008990977	0.046249556	Hbb-b1	
-0.380217575	14.92066791	-3.187594162	0.0083386	0.043964649	Hspd1	Mus musculus heat shock protein 1 (chaperonin) (Hspd1), mRNA.
-0.451223984	14.91877099	-4.692719389	0.000606	0.008034041	Them2	Mus musculus thioesterase superfamily member 2 (Them2), mRNA.
-1.368324997	14.9112025	-3.225919022	0.007780873	0.042134908	Hbb-b1	
-1.091894535	14.8829231	-3.732580502	0.00314284	0.023238825	Odc1	Mus musculus ornithine decarboxylase, structural 1 (Odc1), mRNA.
-0.361988148	14.87985002	-4.173439641	0.001455748	0.014115614	Idh2	Mus musculus isocitrate dehydrogenase 2 (NADP+), mitochondrial (Idh2), mRNA.
-0.358738893	14.87749066	-4.21406385	0.0013576	0.013543887	Ndufa9	Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 9 (Ndufa9), mRNA.
-0.694028671	14.8416263	-5.705161456	0.000122069	0.002857408	Aldh4a1	Mus musculus aldehyde dehydrogenase 4 family, member A1 (Aldh4a1), mRNA.
-0.302122091	14.83365666	-3.38903784	0.00579996	0.034661769	Ndufc1	Mus musculus NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 1 (Ndufc1), mRNA.
-0.647955481	14.81568162	-3.754331813	0.003024288	0.022658893	Chpt1	Mus musculus choline phosphotransferase 1 (Chpt1), mRNA.
-0.282223133	14.80323823	-3.289544173	0.006937155	0.039200581	Ndufa5	Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5 (Ndufa5), mRNA.
-0.998697785	14.79425221	-5.82976019	0.000101228	0.002552874	Acadm	
-0.724528379	14.79162121	-5.525115322	0.000160605	0.003407804	Prdx5	
-0.95747595	14.78669655	-9.648756508	8.29129E-07	0.000137399	Oxct1	
-0.58891491	14.78518541	-3.663140657	0.003554372	0.025138701	Dnajc19	Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 19 (Dnajc19), transcript variant 2, mRNA.
-0.606432822	14.78138378	-5.050771752	0.000338234	0.00552975	Scp2	Mus musculus sterol carrier protein 2, liver (Scp2), mRNA.
-1.053776775	14.77849495	-9.51000122	9.6094E-07	0.000146248	Pdzk1	

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.625513726	14.77694299	-4.867677426	0.000454732	0.006653144	Igfbp5	
-0.421009278	14.77672635	-4.474853075	0.000871571	0.010198163	1500032D16Rik	Mus musculus RIKEN cDNA 1500032D16 gene (1500032D16Rik), mRNA.
-1.457664603	14.77431728	-9.02061144	1.63967E-06	0.00019206	Wfdc15	Mus musculus WAP four-disulfide core domain 15B (Wfdc15b), transcript variant 1, mRNA.
-0.370074061	14.75959781	-4.115390194	0.001608992	0.014980642	Lamp2	
-0.591746484	14.73119935	-3.364858368	0.006057566	0.03567416	Chpt1	Mus musculus choline phosphotransferase 1 (Chpt1), mRNA.
-0.60962578	14.72776664	-3.249706769	0.00745387	0.041064917	Gcnt1	Mus musculus glucosaminyl (N-acetyl) transferase 1, core 2 (Gcnt1), mRNA.
-0.363256565	14.71998241	-3.830897314	0.002642417	0.020729569	1500032D16Rik	Mus musculus RIKEN cDNA 1500032D16 gene (1500032D16Rik), mRNA.
-0.412563166	14.68428128	-3.144508964	0.009014112	0.046308666	Lamp2	Mus musculus lysosomal-associated membrane protein 2 (Lamp2), transcript variant 1, mRNA.
-0.544987158	14.66091612	-4.200421157	0.001389768	0.013740378	Mucdhl	Mus musculus mucin and cadherin like (Mucdhl), mRNA.
-0.245205572	14.65619442	-3.240922257	0.007572972	0.04146715	Ndufa10	
-0.571167577	14.64935037	-4.289943893	0.001192297	0.012413517	Nme2	
-0.611375534	14.64043859	-5.346161585	0.000211916	0.004128132	Clcnkb	
-0.710158165	14.63347629	-4.444028577	0.000918025	0.010522832	Selenbp1	
-0.604553372	14.62076095	-4.75960639	0.000542722	0.007507805	Fbp1	Mus musculus fructose bisphosphatase 1 (Fbp1), mRNA.
-0.694560886	14.61709396	-5.028712964	0.000350425	0.005653946	Dab2	
-0.634179933	14.58728352	-5.156374732	0.000285765	0.004948636	Igfbp5	
-0.375547811	14.58657495	-3.897175519	0.002352153	0.019281836	0910001L09Rik	
-0.843347643	14.5807572	-5.67436622	0.000127892	0.002932937	Apeh	Mus musculus acylpeptide hydrolase (Apeh), mRNA.
-0.550090645	14.57720013	-3.258874894	0.007331592	0.040601947	Gstz1	Mus musculus glutathione transferase zeta 1 (maleylacetoacetate isomerase) (Gstz1), mRNA.
-0.339488173	14.57677585	-4.489815855	0.000849915	0.010075269	Ak3	Mus musculus adenylate kinase 3 (Ak3), mRNA.
-0.61779934	14.56975589	-3.559686248	0.00427293	0.02834466	Chpt1	Mus musculus choline phosphotransferase 1 (Chpt1), mRNA.
-0.524405734	14.55988985	-3.596103322	0.004004358	0.027171917	Cldn2	Mus musculus claudin 2 (Cldn2), mRNA.
-0.375579131	14.54311375	-3.461588908	0.005092089	0.031867959	Tra1	Mus musculus heat shock protein 90kDa beta (Grp94), member 1 (Hsp90b1), mRNA.
-0.711921799	14.52671512	-5.132589452	0.000296783	0.005080436	Hgd	
-0.670732111	14.52042118	-4.555875205	0.000760826	0.009353099	Hmgcl	Mus musculus 3-hydroxy-3-methylglutaryl-Coenzyme A lyase (Hmgcl), mRNA.
-0.393509235	14.51583567	-4.692871202	0.000605848	0.008034041	Itpr1	Mus musculus inositol 1,4,5-triphosphate receptor 1 (Itpr1), mRNA.
-0.461967256	14.51149412	-3.37196008	0.005980718	0.035405077	Cldn2	Mus musculus claudin 2 (Cldn2), mRNA.
-0.373464671	14.49031927	-4.704344483	0.000594469	0.007942788	Ndufs8	
-0.474230221	14.48942311	-3.357424075	0.006139092	0.035941401	Stard10	
-0.919959456	14.48033994	-8.494094533	2.98934E-06	0.000269187	Cldn10	Mus musculus claudin 10 (Cldn10), transcript variant 1, mRNA.
-0.606458288	14.47788844	-3.784880208	0.002865522	0.021915457	Acas2l	Mus musculus acyl-CoA synthetase short-chain family member 1 (Acss1), mRNA.
-0.693431944	14.47682029	-5.71085762	0.000121023	0.002845287	Cyp2j11	Mus musculus cytochrome P450, family 2, subfamily j, polypeptide 11 (Cyp2j11), mRNA.
-1.18240299	14.47600805	-3.567441813	0.004214225	0.028097024	D7Rp2e	

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.354465207	14.4717027	-3.470960706	0.005007321	0.031535949	Acaa1	
-1.073522792	14.46698669	-5.840447114	9.96261E-05	0.002534519	Slc12a3	
-0.629127611	14.46221411	-5.00475231	0.000364194	0.005775481	Csrp2	Mus musculus cysteine and glycine-rich protein 2 (Csrp2), mRNA.
-0.468773509	14.37894288	-3.749191594	0.003051881	0.02281549	1500003D12Rik	
-0.336881689	14.37548761	-4.498336206	0.000837835	0.009991636	E430039I23Rik	
-0.617827025	14.36669166	-4.556088207	0.000760555	0.009353099	4931406C07Rik	
-0.362420238	14.36493843	-3.857142236	0.002523286	0.020172614	Timm8b	Mus musculus translocase of inner mitochondrial membrane 8 homolog b (yeast) (Timm8b), mRNA.
-0.528539874	14.36402581	-5.544325478	0.000155938	0.003337355	5730469M10Rik	
-0.3282014	14.35800849	-3.691561797	0.003379611	0.024364852	Ivns1abp	
-0.9559596	14.35509095	-4.129055084	0.00157147	0.01475796	Spp2	Mus musculus secreted phosphoprotein 2 (Spp2), mRNA.
-0.496322658	14.35366811	-4.039290934	0.001835687	0.016412517	Rnpepl1	Mus musculus arginyl aminopeptidase (aminopeptidase B)-like 1 (Rnpepl1), mRNA.
-0.736175737	14.33810697	-3.442886525	0.005265665	0.032561428	Smpdl3a	
-0.577793457	14.32711555	-4.625703986	0.000677214	0.008707549	Suclg1	Mus musculus succinate-CoA ligase, GDP-forming, alpha subunit (Suclg1), mRNA.
-0.401409531	14.32684387	-3.385250738	0.005839557	0.034802537	Atp5f1	
-0.56074436	14.32502477	-3.425402649	0.005433398	0.03324253	Ppp1r1a	
-0.38319213	14.32477203	-4.151795274	0.001511031	0.014500553	Timm8b	Mus musculus translocase of inner mitochondrial membrane 8 homolog b (yeast) (Timm8b), mRNA.
-0.654389941	14.30027381	-3.680613141	0.003445863	0.024656259	AA175286	
-0.383421076	14.29695452	-3.495336222	0.004793539	0.030552407	Ctsh	Mus musculus cathepsin H (Ctsh), mRNA.
-0.369983844	14.28276211	-4.398408785	0.000991583	0.010999923	LOC654426	Mus musculus ATP synthase, H+ transporting, mitochondrial F0 complex, subunit F pseudogene (LOC654426) on chromosome 14.
-0.447968187	14.26091152	-3.40025133	0.005684311	0.034253717	Gyk	
-0.309015408	14.24475229	-3.236963394	0.007627277	0.041584551	Rab5c	
-1.018496087	14.24263582	-6.54264862	3.61409E-05	0.001308694	Ckb	
-0.538888056	14.23691135	-3.930605861	0.002218462	0.018572171	Car12	
-0.475481495	14.23400681	-5.357428901	0.000208222	0.004079467	C330001N20Rik	
-0.377044098	14.22509786	-4.554797877	0.000762198	0.009360948	Tgm2	
-0.342494937	14.22205901	-3.965660695	0.0020867	0.017845326	0610007J10Rik	
-0.469951826	14.21488966	-6.609845067	3.2913E-05	0.001221465	1110012O05Rik	
-1.833184561	14.20967101	-7.3807043	1.17264E-05	0.000620459	Ttr	Mus musculus transthyretin (Ttr), mRNA.
-0.659330705	14.20830617	-3.584981824	0.004084489	0.027479041	Pck1	
-0.514643788	14.20150679	-6.643526566	3.14122E-05	0.001186057	Ndufc2	Mus musculus NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 2 (Ndufc2), mRNA.
-0.418403062	14.19944358	-4.095638359	0.001664884	0.015321116	Nisch	
-0.374016879	14.1932238	-3.988094288	0.002006657	0.01734959	C330002I19Rik	
-0.426485989	14.18693017	-3.978201194	0.002041556	0.017574913	Atp5f1	Mus musculus ATP synthase, H+ transporting, mitochondrial F0 complex, subunit b,

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
						isoform 1 (Atp5f1), mRNA.
-0.725007411	14.18373308	-4.60670931	0.000698958	0.008890849	Dab2	Mus musculus disabled homolog 2 (Drosophila) (Dab2), transcript variant 2, mRNA.
-0.790999729	14.18035428	-4.572367496	0.000740148	0.009199037	Amn	Mus musculus amnionless (Amn), mRNA.
-0.599003008	14.1757129	-3.388163317	0.005809079	0.034690206	Gcdh	Mus musculus glutaryl-Coenzyme A dehydrogenase (Gcdh), transcript variant 2, mRNA.
-0.70341062	14.16074915	-5.397166042	0.000195725	0.003902504	Hnf4a	Mus musculus hepatic nuclear factor 4, alpha (Hnf4a), mRNA.
-0.446105209	14.15979468	-6.002985047	7.83132E-05	0.002143104	Il11ra1	Mus musculus interleukin 11 receptor, alpha chain 1 (Il11ra1), mRNA.
-0.568068721	14.15076147	-4.049709064	0.001802788	0.016185073	Echdc2	Mus musculus enoyl Coenzyme A hydratase domain containing 2 (Echdc2), mRNA.
-0.535441443	14.14927988	-3.650309244	0.003636292	0.02550642	Cryl1	Mus musculus crystallin, lambda 1 (Cryl1), mRNA.
-0.327726366	14.14744159	-3.285703707	0.006985342	0.039310228	C78339	
-0.274970148	14.13376968	-3.239499601	0.007592442	0.041526116	2410016F01Rik	
-1.047768942	14.11396412	-3.834139017	0.002627393	0.020658151	0610012H03Rik	Mus musculus RIKEN cDNA 0610012H03 gene (0610012H03Rik), mRNA.
-0.554633663	14.10322847	-4.516318897	0.000812927	0.009807217	Ccs	
-0.660106638	14.08473721	-4.474514958	0.000872067	0.010198163	Igfbp5	Mus musculus insulin-like growth factor binding protein 5 (Igfbp5), mRNA.
-0.363624775	14.07479364	-3.596058444	0.004004678	0.027171917	Fh1	Mus musculus fumarate hydratase 1 (Fh1), mRNA.
-0.620425202	14.06794349	-3.942899853	0.002171298	0.01827643	Nox4	Mus musculus NADPH oxidase 4 (Nox4), mRNA.
-1.09392068	14.05867354	-5.596194308	0.00014404	0.003173797	Kl	Mus musculus klotho (Kl), mRNA.
-0.35462889	14.05505914	-4.457724704	0.000897072	0.010386628	Poldip2	
-0.343929572	14.03117082	-4.062958669	0.001761829	0.01590712	Sec13l1	Mus musculus SEC13 homolog (S. cerevisiae) (Sec13), mRNA.
-0.724511993	14.02344561	-3.301442519	0.006789997	0.038642906	Enpp2	Mus musculus ectonucleotide pyrophosphatase/phosphodiesterase 2 (Enpp2), mRNA.
-0.433939716	14.0212489	-3.293433199	0.006888702	0.039027803	Id2	Mus musculus inhibitor of DNA binding 2 (Id2), mRNA.
-0.331065132	13.99292395	-3.885964506	0.002398831	0.0195303	Deb1	Mus musculus differentially expressed in B16F10 1 (Deb1), mRNA.
-0.711233143	13.9891639	-4.178457059	0.001443237	0.014017075	Grhpr	Mus musculus glyoxylate reductase/hydroxypyruvate reductase (Grhpr), mRNA.
-0.440076107	13.98743603	-3.744205188	0.003078897	0.022920606	Mrpl20	Mus musculus mitochondrial ribosomal protein L20 (Mrpl20), mRNA.
-0.51284005	13.9763329	-3.654267546	0.003610816	0.025383438	0610006F02Rik	Mus musculus methyltransferase like 7B (Mettl7b), mRNA.
-0.478534019	13.97190823	-4.933406115	0.000408674	0.006227458	LOC381629	
-0.490523047	13.96702245	-4.883201681	0.000443382	0.006563543	Anapc13	Mus musculus anaphase promoting complex subunit 13 (Anapc13), mRNA.
-0.309735491	13.96060242	-3.550431162	0.004344085	0.028715482	1600019D15Rik	
-0.704766393	13.95868809	-3.293597275	0.006886666	0.03902553	Pik4ca	
-0.650215548	13.95319988	-3.319616072	0.00657133	0.037722311	Slc13a3	Mus musculus solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3 (Slc13a3), mRNA.
-0.985176765	13.94908206	-5.352703593	0.000209763	0.00409621	Pah	Mus musculus phenylalanine hydroxylase (Pah), mRNA.
-0.591744882	13.94645649	-4.311458189	0.001149354	0.012103718	Fahd1	
-0.872121605	13.9319846	-4.5026057	0.00083185	0.0099357	Tcn2	
-0.315933715	13.92263077	-4.067231739	0.001748826	0.015837828	Tufm	Mus musculus Tu translation elongation factor, mitochondrial (Tufm), mRNA.
-0.969471557	13.92257008	-5.73362428	0.000116936	0.002787661	BC026585	

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.832024035	13.9195262	-3.287230461	0.006966145	0.039272847	Fhl1	
-0.442734352	13.91680164	-4.296295519	0.001179447	0.012295829	Mcee	
-0.704631132	13.91471981	-4.358906078	0.001060254	0.011510842	Selenbp2	
-1.13122356	13.91195171	-6.190801856	5.95676E-05	0.001772396	Tnfaip8	Mus musculus tumor necrosis factor, alpha-induced protein 8 (Tnfaip8), mRNA.
-0.599773847	13.9084772	-3.784774463	0.002866056	0.021915457	1810063B05Rik	Mus musculus RIKEN cDNA 1810063B05 gene (1810063B05Rik), mRNA.
-0.649599071	13.90725373	-5.423687268	0.000187829	0.00379522	Cyp2j11	
-0.782130223	13.906765	-4.285501849	0.00120137	0.012480754	Ivd	
-0.744894506	13.89567165	-4.916718214	0.000419882	0.006353618	Calml4	
-0.583067666	13.89531926	-3.112190077	0.009556919	0.048116881	Pck1	
-1.133050991	13.89291914	-7.114900612	1.65985E-05	0.000784339	F13b	
-0.667373132	13.8926183	-5.861263997	9.65819E-05	0.0024943	Abat	Mus musculus 4-aminobutyrate aminotransferase (Abat), mRNA.
-0.635372466	13.87935337	-3.348845684	0.006234554	0.036330934	Slc7a9	Mus musculus solute carrier family 7 (cationic amino acid transporter, y+ system), member 9 (Slc7a9), mRNA.
-0.42186501	13.87663731	-4.497798516	0.000838592	0.009995667	Ndufb4	Mus musculus NADH dehydrogenase (ubiquinone) 1 beta subcomplex 4 (Ndufb4), mRNA.
-0.36407127	13.87559746	-3.826403409	0.002663392	0.020833461	5730437N04Rik	Mus musculus RIKEN cDNA 5730437N04 gene (5730437N04Rik), mRNA.
-0.380759201	13.87429564	-3.177755547	0.008488199	0.044510557	1110001J03Rik	Mus musculus RIKEN cDNA 1110001J03 gene (1110001J03Rik), mRNA.
-0.87333686	13.86573761	-5.845155381	9.89288E-05	0.002529362	Acy1	Mus musculus aminoacylase 1 (Acy1), mRNA.
-0.607084913	13.85504054	-3.503210423	0.004726493	0.03028687	Cryz	Mus musculus crystallin, zeta (Cryz), mRNA.
-0.850139866	13.85449517	-3.272230207	0.007157103	0.039918535	Fhl1	Mus musculus four and a half LIM domains 1 (Fhl1), transcript variant 2, mRNA.
-0.440996564	13.85206644	-4.054014706	0.00178937	0.016094889	Mrpl50	Mus musculus mitochondrial ribosomal protein L50 (Mrpl50), mRNA.
-0.570476633	13.85149072	-4.324887723	0.001123369	0.011903618	Tcea3	
-0.386327017	13.84638186	-4.398167099	0.000991989	0.010999923	Ndufb3	Mus musculus NADH dehydrogenase (ubiquinone) 1 beta subcomplex 3 (Ndufb3), mRNA.
-0.841239143	13.84146812	-3.687097217	0.003406467	0.02450664	Smarca2	Mus musculus SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 (Smarca2), transcript variant 1, mRNA.
-0.404768537	13.82572226	-3.208893224	0.00802382	0.043012842	Cib1	Mus musculus calcium and integrin binding 1 (calmyrin) (Cib1), mRNA.
-0.360742909	13.82116758	-3.244694761	0.007521589	0.041302368	Cox7b	
-0.349799841	13.79213756	-3.907987641	0.002308025	0.019051743	Vamp8	Mus musculus vesicle-associated membrane protein 8 (Vamp8), mRNA.
-0.347363692	13.79074114	-3.604005814	0.003948402	0.026985442	Hist2h2aa2	Mus musculus histone cluster 2, H2aa2 (Hist2h2aa2), mRNA.
-0.463866751	13.77711301	-3.73822089	0.003111645	0.023103048	Entpd5	
-0.680740404	13.76705546	-4.13994385	0.001542222	0.014649361	Fbp3	
-0.481333751	13.75935265	-5.520083495	0.000161852	0.003420295	Hspc171	Mus musculus HSPC171 protein (Hspc171), mRNA.
-0.309548503	13.75726535	-3.760492268	0.002991556	0.022505515	Coq2	Mus musculus coenzyme Q2 homolog, prenyltransferase (yeast) (Coq2), mRNA.
-0.419897025	13.75545265	-4.471542061	0.000876441	0.010227144	9130227C08Rik	
-0.649124107	13.75266863	-3.746523603	0.003066306	0.022880317	Prss8	Mus musculus protease, serine, 8 (prostasin) (Prss8), mRNA.
-0.445668161	13.74888491	-4.024420449	0.00188373	0.016605637	LOC233080	

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.40942069	13.73893966	-4.083887821	0.001699087	0.015545826	2410018G23Rik	Mus musculus TM2 domain containing 2 (Tm2d2), mRNA.
-0.772769537	13.72906829	-3.329691016	0.006453207	0.037268362	BC021608	Mus musculus cDNA sequence BC021608 (BC021608), mRNA.
-0.834060446	13.69828954	-3.495626037	0.004791054	0.030544728	Defb29	Mus musculus defensin beta 29 (Defb29), mRNA.
-0.352665182	13.69767299	-3.419752771	0.005488759	0.033455495	Hspe1	Mus musculus heat shock protein 1 (chaperonin 10) (Hspe1), mRNA.
-0.584288424	13.68301768	-5.626094825	0.000137622	0.003083631	0610007N19Rik	
-0.862440511	13.68275957	-5.659302013	0.000130848	0.002976794	0610011F06Rik	
-0.506833917	13.68158582	-4.134957002	0.001555546	0.014695165	Idh3g	Mus musculus isocitrate dehydrogenase 3 (NAD+), gamma (Idh3g), mRNA.
-0.369424392	13.68141097	-3.941527936	0.002176509	0.01830738	Sar1b	Mus musculus SAR1 gene homolog B (S. cerevisiae) (Sar1b), mRNA.
-0.443978419	13.67582832	-3.400610621	0.005680645	0.034253717	Tm4sf8	Mus musculus tetraspanin 3 (Tspan3), mRNA.
-0.661610476	13.67546836	-3.731344462	0.003149719	0.023262691	Cda	
-2.987622797	13.66487578	-8.761435837	2.19608E-06	0.000224732	Egf	Mus musculus epidermal growth factor (Egf), mRNA.
-0.692277768	13.66455947	-3.819909236	0.002694007	0.020967738	Nit1	Mus musculus nitrilase 1 (Nit1), mRNA.
-0.405142541	13.66199116	-3.765398409	0.00296575	0.022403494	Trap1	
-1.273195457	13.65594108	-4.429987072	0.000940038	0.010651529	1810022C23Rik	
-0.738034721	13.65412104	-4.168593847	0.00146794	0.014199145	Csad	
-0.578485018	13.64989422	-3.92251508	0.002250079	0.018754327	Ddah1	
-0.743031921	13.64578204	-4.28061069	0.001211444	0.012556167	Bhmt2	Mus musculus betaine-homocysteine methyltransferase 2 (Bhmt2), mRNA.
-0.28943169	13.61825931	-3.721244786	0.003206512	0.023565446	D10Ertd322e	Mus musculus DNA segment, Chr 10, ERATO Doi 322, expressed (D10Ertd322e), mRNA.
-0.41324966	13.61205442	-4.350590715	0.001075331	0.011605994	D9Ertd392e	
-0.666553321	13.61076044	-3.859946376	0.00251089	0.02013352	2010107H07Rik	
-0.487106145	13.60645531	-3.618441756	0.003848248	0.026586783	Prodh	Mus musculus proline dehydrogenase (Prodh), mRNA.
-0.561498655	13.59002207	-5.373511699	0.000203065	0.004011377	Slc1a1	
-0.808514309	13.57723421	-6.011375877	7.73537E-05	0.002124156	mtDNA_ND3	
-0.771293848	13.57035575	-6.46157914	4.04914E-05	0.00140239	Tinag	Mus musculus tubulointerstitial nephritis antigen (Tinag), mRNA.
-0.435227466	13.56473615	-5.387382652	0.000198726	0.00395184	Il11ra2	
-0.782933324	13.55503078	-5.542247139	0.000156436	0.003342018	D16H22S680E	Mus musculus DNA segment, Chr 16, human D22S680E, expressed (D16H22S680E), mRNA.
-0.573684461	13.55480866	-4.222705853	0.001337624	0.013382336	St6galnac2	Mus musculus ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1, 3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 2 (St6galnac2), mRNA.
-0.339585116	13.54264722	-3.824648615	0.002671629	0.02086161	LOC381297	
-0.427703683	13.53944029	-4.426643251	0.000945361	0.010696607	Wsb2	
-0.435564631	13.53033888	-3.507110894	0.004693638	0.030181701	1810013B01Rik	
-0.260164827	13.51701656	-3.096281035	0.00983612	0.04909419	AU067744	
-0.390723371	13.50310313	-3.940413831	0.002180751	0.01832368	Hspe1	Mus musculus heat shock protein 1 (chaperonin 10) (Hspe1), mRNA.
-0.590871742	13.50004356	-4.684448439	0.000614347	0.0080906	4833426J09Rik	Mus musculus RIKEN cDNA 4833426J09 gene (4833426J09Rik), mRNA.
-0.720614394	13.48075934	-3.615087313	0.003871286	0.026688483	Fv1	

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.889610456	13.47978098	-4.799086793	0.000508665	0.007165445	Rab11fip3	
-0.922330181	13.46321386	-4.425463188	0.000947247	0.010707793	Cideb	Mus musculus cell death-inducing DNA fragmentation factor, alpha subunit-like effector B (Cideb), mRNA.
-0.396033463	13.46172473	-3.914680833	0.002281138	0.018914108	Emcn	
-0.574968136	13.44962721	-5.012927748	0.000359433	0.005737218	Sirt3	Mus musculus sirtuin 3 (silent mating type information regulation 2, homolog) 3 (S. cerevisiae) (Sirt3), mRNA.
-0.617805972	13.44863384	-5.699101523	0.000123192	0.002871383	2310009E04Rik	
-0.544039888	13.44745988	-3.282162181	0.00703008	0.039471696	Adk	Mus musculus adenosine kinase (Adk), mRNA.
-0.308297193	13.44693994	-3.463803103	0.00507193	0.031766792	Slc35b4	Mus musculus solute carrier family 35, member B4 (Slc35b4), mRNA.
-0.583229637	13.43533932	-4.599032961	0.000707952	0.008967012	Ndel1	Mus musculus nuclear distribution gene E-like homolog 1 (A. nidulans) (Ndel1), mRNA.
-0.956929965	13.43470614	-5.163540147	0.000282532	0.004914357	Aldh8a1	
-0.284934472	13.43142073	-3.654002998	0.003612513	0.025383438	2400007G07Rik	
-0.293181381	13.42491176	-3.559532724	0.004274101	0.02834466	Supt4h2	Mus musculus suppressor of Ty 4 homolog 2 (S. cerevisiae) (Supt4h2), mRNA.
-1.237834729	13.4209559	-5.9393091	8.60199E-05	0.002283308	Slc12a3	
-0.573624782	13.41900927	-6.523030447	3.71458E-05	0.001334387	Tomm7	
-0.678061283	13.40871512	-4.437450806	0.000928269	0.01056332	Lypla1	Mus musculus lysophospholipase 1 (Lypla1), mRNA.
-0.349290945	13.40546623	-3.568928878	0.004203064	0.028071006	Ube2b	Mus musculus ubiquitin-conjugating enzyme E2B, RAD6 homology (S. cerevisiae) (Ube2b), mRNA.
-0.538608433	13.40377994	-4.413561173	0.000966491	0.010824058	Kcnj1	Mus musculus potassium inwardly-rectifying channel, subfamily J, member 1 (Kcnj1), mRNA.
-1.755203356	13.39815614	-4.972276143	0.000383773	0.005973886	Slc17a3	Mus musculus solute carrier family 17 (sodium phosphate), member 3 (Slc17a3), mRNA.
-0.65689193	13.39689354	-3.8780883	0.002432197	0.019741332	Folr1	Mus musculus folate receptor 1 (adult) (Folr1), mRNA.
-0.397999728	13.39586979	-3.365306208	0.00605269	0.03566221	1600019D15Rik	
-0.38400627	13.39250911	-3.774446298	0.002918759	0.022178317	Mtap7	
-0.675969029	13.38513233	-3.095605938	0.009848148	0.049133671	1300013J15Rik	Mus musculus RIKEN cDNA 1300013J15 gene (1300013J15Rik), mRNA.
-0.507020235	13.38441817	-5.16516296	0.000281805	0.004909524	Mrps21	Mus musculus mitochondrial ribosomal protein S21 (Mrps21), mRNA.
-0.647274612	13.38408691	-3.580072291	0.004120384	0.027650374	Sgpp1	Mus musculus sphingosine-1-phosphate phosphatase 1 (Sgpp1), mRNA.
-0.832984096	13.35970432	-5.327730011	0.000218111	0.004194025	Dcxr	Mus musculus dicarbonyl L-xylulose reductase (Dcxr), mRNA.
-0.383572408	13.35570518	-3.306665614	0.006726405	0.038363336	2210412D01Rik	Mus musculus RIKEN cDNA 2210412D01 gene (2210412D01Rik), mRNA.
-0.685530979	13.34799157	-6.013992887	7.70571E-05	0.002120891	Fars2	Mus musculus phenylalanine-tRNA synthetase 2 (mitochondrial) (Fars2), transcript variant 2, mRNA.
-0.586675883	13.34242281	-5.026340508	0.000351763	0.005660234	Pmpcb	
-0.335795283	13.33987631	-3.844551624	0.002579729	0.020472255	Vkorc1	Mus musculus vitamin K epoxide reductase complex, subunit 1 (Vkorc1), mRNA.
-0.624573539	13.33209057	-3.404359022	0.005642538	0.034086352	Prss8	Mus musculus protease, serine, 8 (prostasin) (Prss8), mRNA.
-0.256308664	13.33083731	-3.310791454	0.0066766	0.03817051	1110021H02Rik	Mus musculus ubiquitin-fold modifier conjugating enzyme 1 (Ufc1), mRNA.
-0.867993357	13.32052346	-5.90595138	9.03757E-05	0.002380392	0610011F06Rik	

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.377063174	13.3189167	-3.842253209	0.002590173	0.020514202	Ctsh	
-0.634417864	13.31433534	-5.514192008	0.000163325	0.003436888	Prosapip1	Mus musculus ProSAPiP1 protein (Prosapip1), mRNA.
-0.445548083	13.31403073	-3.63635985	0.003727555	0.025986168	Vps29	Mus musculus vacuolar protein sorting 29 (S. pombe) (Vps29), mRNA.
-0.96206253	13.311653	-4.029058963	0.001868606	0.016556916	Ghr	Mus musculus growth hormone receptor (Ghr), transcript variant 2, mRNA.
-1.025466809	13.30976749	-3.110979081	0.009577887	0.048178147	Slc22a12	Mus musculus solute carrier family 22 (organic anion/cation transporter), member 12 (Slc22a12), mRNA.
-0.602210817	13.30187319	-4.006726292	0.001942601	0.016972661	Hmgcl	Mus musculus 3-hydroxy-3-methylglutaryl-Coenzyme A lyase (Hmgcl), mRNA.
-0.511226562	13.30045682	-4.00679734	0.001942361	0.016972661	4833439L19Rik	
-0.367674785	13.30045166	-3.410889155	0.005576774	0.033815898	2310005N03Rik	
-0.379900768	13.28917025	-4.769265233	0.000534174	0.00742399	Ndufs2	Mus musculus NADH dehydrogenase (ubiquinone) Fe-S protein 2 (Ndufs2), mRNA.
-0.746905294	13.28279181	-4.608040392	0.000697411	0.008875898	Glb1	
-0.496728054	13.27972648	-3.907964993	0.002308117	0.019051743	1190007F08Rik	Mus musculus RIKEN cDNA 1190007F08 gene (1190007F08Rik), mRNA. XM_921339 XM_921348 XM_921353
-0.477822244	13.2750184	-3.223002703	0.007821951	0.042288887	Sostdc1	Mus musculus sclerostin domain containing 1 (Sostdc1), mRNA.
-1.07541073	13.26948124	-4.878143719	0.000447047	0.006585114	Dnajc12	Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 12 (Dnajc12), mRNA.
-0.403932701	13.26628376	-3.984551979	0.002019082	0.017431746	Mboat5	Mus musculus membrane bound O-acyltransferase domain containing 5 (Mboat5), mRNA.
-0.28505413	13.26007873	-3.152259716	0.008888633	0.045921076	1810006K21Rik	
-0.680824674	13.24446982	-3.385593927	0.005835958	0.034798466	Upb1	Mus musculus ureidopropionase, beta (Upb1), mRNA.
-0.572143391	13.23686643	-4.579919876	0.000730876	0.00912694	Mdh1	Mus musculus malate dehydrogenase 1, NAD (soluble) (Mdh1), mRNA.
-0.656573839	13.23524595	-3.435322639	0.005337571	0.032861312	Cryz	Mus musculus crystallin, zeta (Cryz), mRNA.
-0.757445972	13.23077674	-4.316165957	0.001140174	0.01202828	Folr1	Mus musculus folate receptor 1 (adult) (Folr1), mRNA.
-0.485543792	13.22125134	-4.41181676	0.000969346	0.010839499	Fkbp2	Mus musculus FK506 binding protein 2 (Fkbp2), mRNA.
-0.698314652	13.2198277	-3.13108928	0.009235615	0.047051337	Enpp6	Mus musculus ectonucleotide pyrophosphatase/phosphodiesterase 6 (Enpp6), mRNA.
-0.439937857	13.21382946	-4.188615228	0.001418247	0.013884488	Papss1	Mus musculus 3'-phosphoadenosine 5'-phosphosulfate synthase 1 (Papss1), mRNA.
-1.025084222	13.2128408	-5.42695376	0.00018688	0.003783038	Slc6a20	Mus musculus solute carrier family 6 (neurotransmitter transporter), member 20 (Slc6a20), mRNA.
-0.40950527	13.20800195	-3.450521082	0.00519409	0.032269348	Dnajb11	
-0.34660264	13.19997506	-3.171465907	0.008585255	0.044819501	Pccb	Mus musculus propionyl Coenzyme A carboxylase, beta polypeptide (Pccb), mRNA.
-0.425443266	13.18743773	-3.856925233	0.002524248	0.020172614	Pkp4	
-0.599196819	13.18253197	-4.70559643	0.000593241	0.007935266	Hagh	Mus musculus hydroxyacyl glutathione hydrolase (Hagh), mRNA.
-0.587217211	13.16759341	-6.394731628	4.44993E-05	0.001487235	D10Jhu81e	Mus musculus DNA segment, Chr 10, Johns Hopkins University 81 expressed (D10Jhu81e), mRNA.
-0.844117853	13.15906873	-4.019652293	0.00189941	0.016706827	Cryz	Mus musculus crystallin, zeta (Cryz), mRNA.
-0.294840724	13.15881069	-3.095655732	0.00984726	0.049133671	Slc25a3	Mus musculus solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 3 (Slc25a3), mRNA.
-0.580749269	13.15351271	-6.784898138	2.58654E-05	0.001049706	D10Ertd214e	Mus musculus zinc finger, CDGSH-type domain 1 (Zcd1), mRNA.

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.708270712	13.15331975	-4.276975195	0.001218988	0.012584369	Sgk2	Mus musculus serum/glucocorticoid regulated kinase 2 (Sgk2), mRNA.
-0.397277615	13.14428251	-5.444434404	0.000181887	0.003716061	Vkorc1	Mus musculus vitamin K epoxide reductase complex, subunit 1 (Vkorc1), mRNA.
-1.04022452	13.14123787	-3.240335514	0.007580996	0.041501562	Pecr	Mus musculus peroxisomal trans-2-enoyl-CoA reductase (Pecr), mRNA.
-0.699516271	13.13875048	-5.178495209	0.000275906	0.004862595	Qdpr	Mus musculus quinoid dihydropteridine reductase (Qdpr), mRNA.
-1.265025446	13.13534296	-5.854555064	9.7552E-05	0.002511202	Gatm	Mus musculus glycine amidinotransferase (L-arginine:glycine amidinotransferase) (Gatm), mRNA.
-0.291329401	13.13268832	-3.311348269	0.006669907	0.03817051	Ssr2	Mus musculus signal sequence receptor, beta (Ssr2), mRNA.
-0.877701929	13.13157384	-4.566184377	0.00074783	0.009246362	Dpp7	Mus musculus dipeptidylpeptidase 7 (Dpp7), mRNA.
-0.510474892	13.13156192	-3.714110895	0.003247263	0.023755191	Mocs2	
-0.434107531	13.11480239	-4.954724764	0.000394813	0.006090531	Aifm1	Mus musculus apoptosis-inducing factor, mitochondrion-associated 1 (Aifm1), mRNA.
-0.477663686	13.11445708	-4.747774363	0.000553389	0.007604954	Suclg1	Mus musculus succinate-CoA ligase, GDP-forming, alpha subunit (Suclg1), mRNA.
-1.017153004	13.11108047	-4.56992594	0.000743172	0.009218607	S100g	
-1.257036219	13.11035688	-4.625490738	0.000677455	0.008707549	AI746432	
-0.662999091	13.10017786	-3.539490969	0.004429763	0.029080451	BC051244	
-0.544529403	13.09956298	-3.177718236	0.008488771	0.044510557	Slc22a5	Mus musculus solute carrier family 22 (organic cation transporter), member 5 (Slc22a5), mRNA.
-0.604399516	13.09064665	-3.852423681	0.002544288	0.020292225	Akr7a5	Mus musculus aldo-keto reductase family 7, member A5 (aflatoxin aldehyde reductase) (Akr7a5), mRNA.
-0.963529439	13.0870141	-3.871333004	0.002461196	0.019888768	Slc22a19	Mus musculus solute carrier family 22 (organic anion transporter), member 9 (Slc22a9), mRNA.
-0.413991636	13.08602741	-4.116693117	0.001605375	0.014965917	Atp5e	
-0.410126448	13.06723036	-3.536814316	0.004450988	0.02914762	Slc25a16	Mus musculus solute carrier family 25 (mitochondrial carrier, Graves disease autoantigen), member 16 (Slc25a16), mRNA.
-0.319325475	13.05572371	-3.48657103	0.004869316	0.030903323	Add3	Mus musculus adducin 3 (gamma) (Add3), mRNA.
-0.586448466	13.05546139	-3.523978623	0.004554228	0.02961958	Ascc1	
-0.293553904	13.05160606	-3.132190976	0.009217225	0.047008045	Skp1a	Mus musculus S-phase kinase-associated protein 1A (Skp1a), mRNA.
-1.330474293	13.04922745	-7.475532795	1.03806E-05	0.00057474	Slc5a12	
-1.481523431	13.03519743	-4.761014435	0.000541467	0.007498217	Ndufb10	
-0.735411697	13.02896514	-4.078255321	0.001715741	0.015662863	Akr7a5	Mus musculus aldo-keto reductase family 7, member A5 (aflatoxin aldehyde reductase) (Akr7a5), mRNA.
-0.631790036	13.02589052	-5.919261743	8.86102E-05	0.002346842	Tmem24	
-0.383177333	13.01941594	-4.318587468	0.001135482	0.01199469	2410015M20Rik	Mus musculus RIKEN cDNA 2410015M20 gene (2410015M20Rik), mRNA.
-0.683464148	13.01841042	-3.83880713	0.002605913	0.020570595	Thnsl2	Mus musculus threonine synthase-like 2 (bacterial) (Thnsl2), transcript variant 2, mRNA.
-1.659309464	13.01398121	-7.182358914	1.51851E-05	0.000744834	9230106L14Rik	
-0.663960982	12.99562128	-4.106950221	0.001632632	0.015135782	Habp2	Mus musculus hyaluronic acid binding protein 2 (Habp2), mRNA.
-0.321506646	12.99354233	-3.93838014	0.002188515	0.018363059	Hax1	Mus musculus HCLS1 associated X-1 (Hax1), mRNA.
-0.775780992	12.99283191	-7.312165828	1.2815E-05	0.000661916	Ebp	Mus musculus phenylalkylamine Ca2+ antagonist (emopamil) binding protein (Ebp),

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
						mRNA.
-0.377320671	12.98906054	-3.201886496	0.008126022	0.043400013	Slc35d1	
-0.855637129	12.98627945	-4.083139976	0.001701289	0.015554735	2310016A09Rik	Mus musculus carboxymethylenebutenolidase-like (Pseudomonas) (Cmbl), mRNA.
-0.548141871	12.98594974	-5.881405023	9.37304E-05	0.002441799	Snx8	Mus musculus sorting nexin 8 (Snx8), mRNA.
-0.644904157	12.97695326	-4.894797766	0.000435099	0.006492565	Epb4.1l3	Mus musculus erythrocyte protein band 4.1-like 3 (Epb4.1l3), mRNA.
-0.618121727	12.97174197	-5.498307901	0.000167368	0.003510155	Ptprd	
-0.623790218	12.97081972	-5.295180032	0.000229523	0.00435346	Prkwnk1	Mus musculus WNK lysine deficient protein kinase 1 (Wnk1), mRNA.
-0.859902435	12.96652745	-3.925837511	0.00223704	0.018671731	Rgl1	
-0.594286871	12.96597354	-5.220966159	0.000257971	0.004674223	Ptprd	Mus musculus protein tyrosine phosphatase, receptor type, D (Ptprd), transcript variant a, mRNA.
-0.45078	12.96546091	-3.426176632	0.005425858	0.033216533	Dhrs1	Mus musculus dehydrogenase/reductase (SDR family) member 1 (Dhrs1), mRNA.
-0.603944174	12.96299978	-6.703569064	2.8915E-05	0.001123778	2310009A05Rik	
-0.989121047	12.96136162	-3.922949878	0.002248368	0.018753167	D630036H09Rik	
-0.420700191	12.96097248	-3.475298907	0.004968572	0.031365761	Vps29	Mus musculus vacuolar protein sorting 29 (S. pombe) (Vps29), mRNA.
-1.355860999	12.95400922	-5.277262585	0.000236073	0.004424389	Car4	Mus musculus carbonic anhydrase 4 (Car4), mRNA.
-0.708797978	12.95214469	-3.838123616	0.002609047	0.020581715	Slc7a9	Mus musculus solute carrier family 7 (cationic amino acid transporter, y+ system), member 9 (Slc7a9), mRNA.
-0.505711846	12.94862002	-5.207612613	0.000263473	0.004734384	5730469M10Rik	Mus musculus RIKEN cDNA 5730469M10 gene (5730469M10Rik), mRNA.
-0.409582663	12.94830317	-3.539839185	0.00442701	0.029070372	Fh1	
-0.500213689	12.93826432	-6.033371943	7.48975E-05	0.002075818	Mthfd1	Mus musculus methylenetetrahydrofolate dehydrogenase (NADP+ dependent), methenyltetrahydrofolate cyclohydrolase, formyltetrahydrofolate synthase (Mthfd1), mRNA.
-0.616945078	12.93553005	-5.17996198	0.000275265	0.004854885	0610007C21Rik	Mus musculus RIKEN cDNA 0610007C21 gene (0610007C21Rik), transcript variant 1, mRNA.
-0.550292522	12.92973142	-4.80269887	0.000505663	0.007147167	1700027M01Rik	
-0.808562852	12.92927077	-4.41647848	0.000961736	0.010810135	Tmem25	Mus musculus transmembrane protein 25 (Tmem25), mRNA.
-0.364953275	12.92829556	-4.136601659	0.001551138	0.014682591	Mrps31	Mus musculus mitochondrial ribosomal protein S31 (Mrps31), mRNA.
-0.974637867	12.9280734	-4.613193721	0.000691454	0.008823618	0610030I09Rik	
-0.760270951	12.92487576	-5.848829482	9.83882E-05	0.002524557	BC025446	Mus musculus cDNA sequence BC025446 (BC025446), mRNA.
-0.826226267	12.91608836	-3.180441247	0.008447094	0.044370022	Slc6a19	Mus musculus solute carrier family 6 (neurotransmitter transporter), member 19 (Slc6a19), mRNA.
-0.550400168	12.90428988	-3.401511808	0.005671459	0.034219478	Ush1c	Mus musculus Usher syndrome 1C homolog (human) (Ush1c), transcript variant a1, mRNA.
-0.66509144	12.89559707	-4.26967512	0.001234286	0.012690123	Timp3	
-0.639469691	12.89499455	-3.361147131	0.006098125	0.035786445	Haao	
-0.466830202	12.89198209	-4.330101832	0.001113446	0.01183526	Mfn1	Mus musculus mitofusin 1 (Mfn1), mRNA.
-0.556700564	12.8905283	-5.257287793	0.000243609	0.00449941	Bloc1s1	Mus musculus biogenesis of lysosome-related organelles complex-1, subunit 1 (Bloc1s1), mRNA.

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.723753953	12.87501892	-4.786330796	0.000519416	0.007278049	Fthfd	Mus musculus aldehyde dehydrogenase 1 family, member L1 (Aldh1l1), mRNA.
-0.430473181	12.86827828	-3.818675761	0.002699863	0.020999616	Atp6a1	
-0.429335966	12.85838799	-4.589852923	0.000718867	0.009057191	1700029P11Rik	Mus musculus RIKEN cDNA 1700029P11 gene (1700029P11Rik), mRNA.
-1.194412446	12.85501438	-6.833091881	2.42221E-05	0.00100002	F13b	Mus musculus coagulation factor XIII, beta subunit (F13b), mRNA.
-0.62986021	12.84789163	-5.0870258	0.000319159	0.005307417	Rhobtb1	
-0.763442857	12.84263769	-5.584331543	0.000146673	0.003205191	Scoc	Mus musculus short coiled-coil protein (Scoc), transcript variant 2, mRNA.
-0.871955973	12.84033749	-5.576251571	0.000148496	0.003230238	Cubn	
-0.721413437	12.83355991	-3.412853063	0.005557149	0.033723459	Slc13a3	Mus musculus solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3 (Slc13a3), mRNA.
-0.743285269	12.83082298	-4.584884905	0.000724847	0.009088769	9530058B02Rik	Mus musculus RIKEN cDNA 9530058B02 gene (9530058B02Rik), mRNA.
-0.235119654	12.81456876	-3.142786271	0.009042243	0.046403237	Ndufs2	Mus musculus NADH dehydrogenase (ubiquinone) Fe-S protein 2 (Ndufs2), mRNA.
-0.825740464	12.80509862	-5.795009286	0.000106631	0.002650555	Dcxr	Mus musculus dicarbonyl L-xylulose reductase (Dcxr), mRNA.
-0.528799324	12.80482685	-5.897644382	9.14965E-05	0.00239838	Cox7a2	
-1.186276755	12.80403688	-5.789961014	0.000107441	0.002651355	LOC632778	Mus musculus predicted gene, EG632778 (EG632778), mRNA.
-0.502089674	12.80005765	-5.082054023	0.000321707	0.005331168	2310005O14Rik	
-0.343565893	12.79996637	-3.131614581	0.009226842	0.047024193	Pex6	Mus musculus peroxisomal biogenesis factor 6 (Pex6), mRNA.
-0.428017968	12.79954857	-4.209606905	0.001368023	0.01362341	Ndufaf1	Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, assembly factor 1 (Ndufaf1), mRNA.
-0.393916448	12.79084535	-3.597165975	0.003996786	0.02714925	Slc25a38	Mus musculus solute carrier family 25, member 38 (Slc25a38), mRNA.
-0.941896401	12.78922418	-4.353867471	0.001069363	0.011557162	Psg23	Mus musculus pregnancy-specific glycoprotein 23 (Psg23), mRNA.
-0.376898661	12.7884834	-3.987754849	0.002007845	0.017353566	Slc25a28	Mus musculus solute carrier family 25, member 28 (Slc25a28), mRNA.
-0.74648835	12.78780302	-3.324581043	0.006512846	0.037467705	Enpp2	
-0.996316167	12.78519397	-4.601582597	0.000704951	0.008943247	Adhfe1	
-0.443372176	12.78442132	-4.504066437	0.000829813	0.0099307	AW549877	
-0.869995055	12.77591482	-3.767077411	0.002956971	0.022379385	6430559E15Rik	
-0.374733409	12.7758988	-4.263930019	0.001246467	0.012776817	Esrra	Mus musculus estrogen related receptor, alpha (Esrra), mRNA.
-0.465905578	12.76915701	-3.730562722	0.003154078	0.02326683	Mfn1	Mus musculus mitofusin 1 (Mfn1), mRNA.
-0.320348927	12.762005	-3.385297685	0.005839065	0.034802537	Rer1	Mus musculus RER1 retention in endoplasmic reticulum 1 homolog (S. cerevisiae) (Rer1), mRNA.
-0.611190608	12.76009887	-5.833544588	0.000100658	0.00254873	1700027M01Rik	
-0.818755757	12.7531553	-7.312458486	1.28102E-05	0.000661916	Mccc1	Mus musculus methylcrotonoyl-Coenzyme A carboxylase 1 (alpha) (Mccc1), mRNA.
-0.578029084	12.74207227	-5.507240569	0.000165082	0.003470784	Rnu6	Mus musculus U6 small nuclear RNA (Rnu6).
-0.653364888	12.72967286	-3.310832682	0.006676104	0.03817051	Ascc1	Mus musculus activating signal cointegrator 1 complex subunit 1 (Ascc1), mRNA.
-0.684334491	12.72468369	-6.619212481	3.2488E-05	0.001215144	Gnpda1	Mus musculus glucosamine-6-phosphate deaminase 1 (Gnpda1), mRNA.
-0.716978743	12.71541106	-4.281247211	0.001210128	0.012552897	Slc2a2	Mus musculus solute carrier family 2 (facilitated glucose transporter), member 2 (Slc2a2), mRNA.
-1.069876575	12.7011947	-12.53919378	5.38713E-08	3.05389E-05	2210404O07Rik	

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.409650607	12.68806767	-3.350549118	0.006215479	0.036242948	Sar1b	Mus musculus SAR1 gene homolog B (S. cerevisiae) (Sar1b), mRNA.
-0.718390119	12.68362874	-3.872275204	0.00245713	0.019877934	Vdr	Mus musculus vitamin D receptor (Vdr), mRNA.
-0.559041095	12.67476582	-3.837017926	0.002614125	0.02060134	Acbd4	
-0.617433897	12.66564951	-3.694315759	0.003363154	0.024275541	9530058B02Rik	Mus musculus RIKEN cDNA 9530058B02 gene (9530058B02Rik), mRNA.
-0.303751508	12.66358623	-3.373381821	0.005965453	0.035349788	LOC228715	
-1.54776749	12.64816615	-9.766619307	7.3244E-07	0.000130434	Cyp51	
-0.303242476	12.6477759	-3.840210639	0.002599491	0.020555509	1110058L19Rik	Mus musculus RIKEN cDNA 1110058L19 gene (1110058L19Rik), mRNA.
-0.508150159	12.64173645	-3.645552053	0.003667155	0.025662557	Tsc2	Mus musculus tuberous sclerosis 2 (Tsc2), transcript variant 2, mRNA.
-0.27869294	12.63824328	-3.549336259	0.004352582	0.028750652	Supt4h2	
-0.976466007	12.63655674	-5.534253649	0.000158367	0.003377222	Slc16a4	Mus musculus solute carrier family 16 (monocarboxylic acid transporters), member 4 (Slc16a4), mRNA.
-1.119524538	12.62900711	-5.408429439	0.00019233	0.003850302	4833421E05Rik	
-0.401461005	12.61674163	-5.521488722	0.000161503	0.003416621	Epb4.9	
-1.347969806	12.61648563	-7.523017247	9.76985E-06	0.000553772	Mep1b	Mus musculus meprin 1 beta (Mep1b), mRNA.
-1.033612726	12.61504825	-3.994025274	0.001986032	0.017209252	D630042F21Rik	Mus musculus RIKEN cDNA D630042F21 gene (D630042F21Rik), mRNA.
-1.133800518	12.61293887	-6.073815866	7.05953E-05	0.001988508	Aldh4a1	
-0.961980503	12.61205073	-5.704791278	0.000122137	0.002857408	Fgf1	
-0.671477303	12.60445651	-3.941089222	0.002178178	0.018314965	Scoc	
-0.598758944	12.60386788	-4.590145317	0.000718516	0.009057191	Nfs1	Mus musculus nitrogen fixation gene 1 (S. cerevisiae) (Nfs1), mRNA.
-0.456252852	12.60286875	-4.157269093	0.001496847	0.014402924	Pcbd	Mus musculus pterin 4 alpha carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (TCF1) 1 (Pcbd1), mRNA.
-0.902593776	12.60154765	-6.00079039	7.85662E-05	0.002145109	Acy1	Mus musculus aminoacylase 1 (Acy1), mRNA.
-0.968290912	12.59450636	-4.588254448	0.000720785	0.009067001	Pthr1	Mus musculus parathyroid hormone receptor 1 (Pthr1), mRNA.
-0.47338016	12.58444658	-4.250718553	0.001274954	0.012940972	Atp2a2	Mus musculus ATPase, Ca++ transporting, cardiac muscle, slow twitch 2 (Atp2a2), mRNA.
-1.295449128	12.58160023	-5.20629664	0.000264022	0.004739553	Lypla1	Mus musculus lysophospholipase 1 (Lypla1), mRNA.
-0.623681494	12.57872324	-4.579582892	0.000731287	0.00912694	Slc26a4	Mus musculus solute carrier family 26, member 4 (Slc26a4), mRNA.
-0.967156706	12.56949899	-3.420528432	0.005481125	0.033434582	Mg29	Mus musculus synaptophysin-like 2 (Sypl2), mRNA.
-0.803615559	12.55888217	-3.906713674	0.00231318	0.019073742	Upb1	Mus musculus ureidopropionase, beta (Upb1), mRNA.
-0.275479296	12.55883699	-3.292479394	0.006900554	0.039076391	MGC68323	Mus musculus predicted gene, EG277333 (EG277333), mRNA.
-0.331924832	12.54721615	-3.833172919	0.002631862	0.020679656	1810013D10Rik	
-0.613886236	12.53926401	-3.594532953	0.004015574	0.027199444	Klk8	
-0.515271806	12.53630807	-4.095899494	0.001664132	0.015320669	Atp2a2	Mus musculus ATPase, Ca++ transporting, cardiac muscle, slow twitch 2 (Atp2a2), mRNA.
-0.470135914	12.53059158	-3.562081865	0.004254708	0.028273486	Snx7	
-0.408474483	12.53000145	-3.157124152	0.008810785	0.045647363	Preb	
-0.67428235	12.52318373	-4.357192085	0.001063343	0.011528651	D10Ertd438e	

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.318343853	12.52263962	-3.2131256	0.007962718	0.042796022	Hoxa7	
-0.618988803	12.51542331	-6.378214405	4.55534E-05	0.001505597	Pcca	Mus musculus propionyl-Coenzyme A carboxylase, alpha polypeptide (Pcca), mRNA.
-0.522602077	12.5139951	-3.882093738	0.002415169	0.019631944	Npepl1	Mus musculus aminopeptidase-like 1 (Npepl1), mRNA.
-0.836419508	12.51039673	-4.992912284	0.000371207	0.005862414	1810020D17Rik	Mus musculus RIKEN cDNA 1810020D17 gene (1810020D17Rik), mRNA.
-0.659326579	12.50314087	-5.980811222	8.091E-05	0.002184113	Gpm6a	Mus musculus glycoprotein m6a (Gpm6a), mRNA.
-0.378260734	12.49696098	-3.747992507	0.003058355	0.022842421	Tusc4	Mus musculus tumor suppressor candidate 4 (Tusc4), mRNA.
-0.309495308	12.4927806	-3.453178324	0.005169412	0.032180393	Gm561	Mus musculus gene model 561, (NCBI) (Gm561), mRNA.
-0.729861424	12.48985941	-4.109014903	0.001626816	0.01509946	Ostb	Mus musculus organic solute transporter beta (Ostb), mRNA.
-0.507067943	12.48800943	-3.675543739	0.00347699	0.024804605	9130210N20Rik	Mus musculus nicotinate phosphoribosyltransferase domain containing 1 (Naprt1), mRNA.
-0.529930193	12.47749722	-4.203767716	0.001381805	0.013710604	Akp2	Mus musculus alkaline phosphatase 2, liver (Akp2), mRNA.
-1.124933095	12.4762632	-5.613611569	0.000140264	0.003125639	7530408C15Rik	
-0.329175493	12.47130111	-3.342071144	0.006311011	0.036704766	Inpp5f	Mus musculus inositol polyphosphate-5-phosphatase F (Inpp5f), mRNA.
-0.891368562	12.46958485	-5.639207368	0.000134903	0.00303985	Glb1l	
-0.634707188	12.46663246	-5.959720693	8.34652E-05	0.002227885	Ecsit	Mus musculus ECSIT homolog (Drosophila) (Ecsit), mRNA.
-0.649221244	12.45300512	-4.241562311	0.001295095	0.013084184	Fthfd	Mus musculus aldehyde dehydrogenase 1 family, member L1 (Aldh1l1), mRNA.
-0.595197369	12.45162748	-3.171608838	0.008583037	0.044817727	2610528A15Rik	
-0.553557244	12.44936884	-5.873695427	9.48112E-05	0.002456546	Pcca	Mus musculus propionyl-Coenzyme A carboxylase, alpha polypeptide (Pcca), mRNA.
-0.516478022	12.44603321	-3.737005213	0.003118342	0.023106535	Mdh1	Mus musculus malate dehydrogenase 1, NAD (soluble) (Mdh1), mRNA.
-1.13288186	12.44492643	-5.070384613	0.00032777	0.005416601	BC026682	Mus musculus cDNA sequence BC026682 (BC026682), mRNA.
-0.848701162	12.43929148	-4.691457769	0.000607266	0.008034041	Pdzk2	Mus musculus PDZ domain containing 3 (Pdzd3), mRNA.
-0.784390682	12.43588825	-4.044662297	0.001818648	0.016290689	Evc	
-0.406297673	12.43326297	-3.21550517	0.007928572	0.042663653	Ppp1r10	Mus musculus protein phosphatase 1, regulatory subunit 10 (Ppp1r10), mRNA.
-0.385557116	12.43158506	-3.826070206	0.002664954	0.020833461	Ndufb2	
-0.856567813	12.42407344	-4.141826045	0.001537224	0.014643819	Vil1	Mus musculus villin 1 (Vil1), mRNA.
-0.307956236	12.42068513	-3.13619802	0.00915065	0.046768464	Tmem4	Mus musculus transmembrane protein 4 (Tmem4), mRNA.
-0.289640348	12.42024624	-3.497349747	0.004776302	0.030480942	Sec61b	Mus musculus Sec61 beta subunit (Sec61b), mRNA.
-0.618892042	12.42011624	-3.823310732	0.002677926	0.020890278	Mrpl48	Mus musculus mitochondrial ribosomal protein L48 (Mrpl48), transcript variant 1, mRNA.
-0.395742788	12.41612296	-4.410588805	0.00097136	0.010846781	Mrps31	Mus musculus mitochondrial ribosomal protein S31 (Mrps31), mRNA.
-0.566335112	12.41490492	-3.151858991	0.008895077	0.04594442	Acads	Mus musculus acyl-Coenzyme A dehydrogenase, short chain (Acads), mRNA.
-0.372494112	12.40896018	-3.264873432	0.007252692	0.040258432	Zbtb8os	Mus musculus zinc finger and BTB domain containing 8 opposite strand (Zbtb8os), mRNA.
-0.322738291	12.40819473	-3.290651197	0.006923327	0.039168175	Stard5	Mus musculus StAR-related lipid transfer (START) domain containing 5 (Stard5), mRNA.
-0.309101038	12.40373886	-3.574200116	0.004163743	0.027862985	2610018L09Rik	
-0.79355371	12.40266103	-5.212687178	0.000261368	0.004710323	BC025446	Mus musculus cDNA sequence BC025446 (BC025446), mRNA.

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.654133207	12.39728408	-3.567988546	0.004210118	0.02809453	Fthfd	Mus musculus aldehyde dehydrogenase 1 family, member L1 (Aldh1l1), mRNA.
-0.783902271	12.39597065	-4.482581157	0.000860315	0.010148142	Tm7sf1	
-0.422475659	12.39213736	-3.730564317	0.003154069	0.02326683	Vamp8	Mus musculus vesicle-associated membrane protein 8 (Vamp8), mRNA.
-0.390209895	12.38926044	-4.190591883	0.001413437	0.013884488	2310005E10Rik	
-1.309784782	12.38688535	-4.245318156	0.001286793	0.013022369	Slc22a19	Mus musculus solute carrier family 22 (organic anion transporter), member 9 (Slc22a9), mRNA.
-0.619099122	12.38381229	-3.697891639	0.003341908	0.024184708	Echdc2	Mus musculus enoyl Coenzyme A hydratase domain containing 2 (Echdc2), mRNA.
-1.164871351	12.38331977	-6.279029632	5.24703E-05	0.001628218	Cldn10	Mus musculus claudin 10 (Cldn10), transcript variant 1, mRNA.
-0.320497148	12.38259142	-3.930496806	0.002218885	0.018572171	Stard8	Mus musculus START domain containing 8 (Stard8), mRNA.
-0.94791113	12.38254107	-7.752697293	7.31335E-06	0.000455661	Slc12a3	Mus musculus solute carrier family 12, member 3 (Slc12a3), mRNA.
-0.326989795	12.38159447	-3.589436917	0.004052194	0.027327339	0710008K08Rik	Mus musculus RIKEN cDNA 0710008K08 gene (0710008K08Rik), mRNA.
-0.327474956	12.36630433	-3.695014829	0.003358989	0.024266985	0610007P06Rik	Mus musculus lethal, Chr 7, Rinchik 6 (l7Rn6), mRNA.
-0.646162731	12.35849635	-4.473152776	0.000874068	0.010209444	Slc9a3	
-0.426065095	12.35630148	-3.209421504	0.008016168	0.042986474	Lyrm2	Mus musculus LYR motif containing 2 (Lyrm2), mRNA.
-1.375368062	12.35380025	-5.149325564	0.000288985	0.004971522	0610012D14Rik	Mus musculus RIKEN cDNA 0610012D14 gene (0610012D14Rik), mRNA.
-2.719750159	12.3419794	-5.829292289	0.000101299	0.002552874	Pvalb	
-0.551045844	12.3412589	-3.763814488	0.002974056	0.022423348	Sipa1l1	
-0.384766971	12.34059963	-4.812753078	0.000497406	0.00705683	Vkorc1	Mus musculus vitamin K epoxide reductase complex, subunit 1 (Vkorc1), mRNA.
-1.000221041	12.3400852	-4.879960171	0.000445727	0.006577854	Ptplb	
-0.912542911	12.33728126	-5.474393393	0.000173655	0.003606439	Acy1	Mus musculus aminoacylase 1 (Acy1), mRNA.
-0.629503471	12.33530846	-6.298072557	5.10602E-05	0.001609713	scl000416.1_19	
-0.407683851	12.32167806	-4.263156124	0.001248117	0.012782752	0610009B22Rik	Mus musculus RIKEN cDNA 0610009B22 gene (0610009B22Rik), mRNA.
-0.462383411	12.3181329	-3.498310114	0.004768103	0.030448235	Sms	
-0.509226105	12.31630509	-3.253251545	0.007406349	0.040873659	Mrpl48	Mus musculus mitochondrial ribosomal protein L48 (Mrpl48), transcript variant 1, mRNA.
-0.462458022	12.31103538	-5.560983118	0.000152007	0.003271631	Aifm1	Mus musculus apoptosis-inducing factor, mitochondrion-associated 1 (Aifm1), mRNA.
-0.54396469	12.30868755	-4.457086173	0.000898038	0.010392766	Slc44a4	Mus musculus solute carrier family 44, member 4 (Slc44a4), mRNA.
-0.645321301	12.30614391	-4.341496764	0.001092077	0.011686208	Nit2	Mus musculus nitrilase family, member 2 (Nit2), mRNA.
-1.025951033	12.2824193	-4.956365202	0.000393767	0.006081852	0610038K03Rik	Mus musculus phenazine biosynthesis-like protein domain containing (Pbld), mRNA.
-0.51302745	12.28196496	-4.909085596	0.000425116	0.00639228	1700034H14Rik	Mus musculus RIKEN cDNA 1700034H14 gene (1700034H14Rik), mRNA.
-0.502408731	12.27838225	-4.105951123	0.001635454	0.015139545	BC025519	
-0.380921003	12.27630361	-3.707122743	0.003287698	0.023926301	Cox15	
-0.839109479	12.27346543	-4.393337818	0.001000132	0.011069645	Pthr1	Mus musculus parathyroid hormone receptor 1 (Pthr1), mRNA.
-0.39629459	12.27115784	-4.133906262	0.001558368	0.014709106	9430063L05Rik	
-0.92421305	12.26810553	-4.356065035	0.00106538	0.011545488	gamma glutamyl transpeptidase type III	
-0.728729404	12.26487723	-4.538426179	0.000783364	0.009552074	Vdr	Mus musculus vitamin D receptor (Vdr), mRNA.

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.374911518	12.25372747	-4.139899339	0.00154234	0.014649361	AW107703	
-0.881030417	12.252186	-3.288445505	0.006950905	0.039240467	Cldn10	
-0.472606752	12.24983001	-3.764479005	0.002970568	0.022405457	BC006662	Mus musculus cDNA sequence BC006662 (BC006662), mRNA.
-0.515032365	12.23644365	-3.100969718	0.009752989	0.048803704	Mlycd	
-0.761028141	12.22969261	-3.481331775	0.004915195	0.031128267	Htra1	Mus musculus HtrA serine peptidase 1 (Htra1), mRNA.
-0.854289963	12.22797751	-4.156585034	0.001498612	0.01441024	Tmem150	Mus musculus transmembrane protein 150 (Tmem150), mRNA.
-0.559410667	12.22504467	-5.141123186	0.000292779	0.005026325	Akr1e1	
-0.705890019	12.21684468	-4.339266726	0.001096225	0.011709591	Habp2	Mus musculus hyaluronic acid binding protein 2 (Habp2), mRNA.
-0.280336952	12.21645763	-3.278337868	0.007078717	0.039633838	Cln2	Mus musculus tripeptidyl peptidase I (Tpp1), mRNA.
-0.605107987	12.21271924	-6.818561191	2.47055E-05	0.001014711	AW491445	Mus musculus solute carrier family 25, member 45 (Slc25a45), mRNA.
-0.776246342	12.20010432	-3.86473857	0.00248985	0.020005151	Upb1	Mus musculus ureidopropionase, beta (Upb1), mRNA.
-0.318442066	12.18688258	-3.582514103	0.004102491	0.027553544	Snx1	
-1.045402883	12.18098115	-5.754608373	0.000113299	0.002736497	LOC381674	
-0.490595877	12.17788332	-3.688282704	0.003399315	0.024477322	Ngef	
-0.726770145	12.17594075	-4.769813685	0.000533693	0.007421627	Pgam2	
-0.510093965	12.1716459	-3.607532715	0.003923689	0.026897726	Rarsl	Mus musculus arginyl-tRNA synthetase 2, mitochondrial (putative) (Rars2), mRNA.
-0.686870866	12.16883535	-4.06066743	0.001768842	0.015958365	Selenbp2	Mus musculus selenium binding protein 2 (Selenbp2), mRNA.
-0.510439335	12.16034255	-4.433831743	0.000933956	0.010607804	Frda	Mus musculus frataxin (Fxn), mRNA.
-0.658322817	12.1602107	-3.226760089	0.007769066	0.042096555	LOC386360	
-0.676050434	12.15822377	-3.599756148	0.003978393	0.02707054	Sgk2	Mus musculus serum/glucocorticoid regulated kinase 2 (Sgk2), mRNA.
-1.032119191	12.15445438	-3.63731858	0.003721208	0.025953929	sty	
-0.633594854	12.15223002	-3.354065594	0.006176287	0.03609717	Abcg2	
-0.997925898	12.1521108	-5.897168207	9.15612E-05	0.00239838	Aldh8a1	
-0.347098914	12.15044968	-3.179484839	0.008461709	0.044417457	Mipep	Mus musculus mitochondrial intermediate peptidase (Mipep), mRNA.
-1.033454914	12.14195062	-5.002830409	0.000365322	0.005788638	Osbpl6	
-0.719915219	12.13667655	-4.606364029	0.00069936	0.008891222	Gmpr	Mus musculus guanosine monophosphate reductase (Gmpr), mRNA.
-0.943523303	12.13390823	-5.33216228	0.000216604	0.004175141	6230410P16Rik	Mus musculus RIKEN cDNA 6230410P16 gene (6230410P16Rik), transcript variant 1, mRNA.
-1.337755149	12.1334329	-3.151238651	0.008905062	0.045966145	Idb2	
-0.459596264	12.13308004	-4.06325692	0.001760918	0.01590712	Pbp	
-0.529351791	12.12974977	-3.52897763	0.004513731	0.029461479	9130201F22Rik	
-0.813722789	12.12721604	-5.319092908	0.00022108	0.004234046	Aadac	Mus musculus arylacetamide deacetylase (esterase) (Aadac), mRNA.
-0.534729898	12.12022658	-3.275461447	0.007115524	0.039774595	Paqr9	Mus musculus progestin and adipoQ receptor family member IX (Paqr9), mRNA.
-0.478786765	12.1189454	-3.45710623	0.005133153	0.032026368	Prodh	Mus musculus proline dehydrogenase (Prodh), mRNA.
-0.338708086	12.11716702	-3.79796702	0.002800162	0.021527146	Wbscr21	Mus musculus abhydrolase domain containing 11 (Abhd11), mRNA.
-0.448345833	12.1168385	-3.904766662	0.002321081	0.019119071	6330403M23Rik	

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.536916081	12.11041779	-3.42134713	0.005473079	0.033394036	9230101K24Rik	
-0.564371836	12.09999921	-3.608202291	0.003919015	0.026873405	Ndufc2	Mus musculus NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 2 (Ndufc2), mRNA.
-0.344649686	12.09241177	-3.390362507	0.005786174	0.03463142	1810047C23Rik	Mus musculus RIKEN cDNA 1810047C23 gene (1810047C23Rik), mRNA.
-0.504332164	12.09110515	-3.143099371	0.009037124	0.046396921	Pink1	
-0.660067845	12.08669356	-3.153856115	0.008863009	0.045818452	H2-T17	
-0.442605047	12.07706597	-4.666206348	0.000633186	0.008285915	2310004L02Rik	Mus musculus RIKEN cDNA 2310004L02 gene (2310004L02Rik), mRNA.
-0.601653457	12.07029262	-3.32933101	0.00645739	0.037273213	Pgcp	
-0.617529445	12.06785644	-3.840666353	0.002597409	0.020551049	1700012B18Rik	Mus musculus oxidative stress induced growth inhibitor 1 (Osgin1), mRNA.
-0.323973833	12.06456137	-3.776376292	0.002908835	0.022130855	Bcas3	Mus musculus breast carcinoma amplified sequence 3 (Bcas3), mRNA.
-0.708463754	12.05726969	-3.145234629	0.009002288	0.046287784	Acat2	Mus musculus acetyl-Coenzyme A acetyltransferase 2 (Acat2), mRNA.
-0.265642023	12.05334622	-3.197724431	0.008187354	0.043532715	2210018M03Rik	
-0.471303596	12.0482062	-3.272575094	0.007152653	0.039907358	Fut8	Mus musculus fucosyltransferase 8 (Fut8), mRNA.
-1.577576832	12.04653295	-9.215716196	1.32155E-06	0.000171392	Slc5a2	
-0.568258051	12.04273452	-3.672971672	0.003492893	0.024888297	Hexb	Mus musculus hexosaminidase B (Hexb), mRNA.
-0.617680251	12.03749504	-4.046563194	0.001812657	0.016249225	9630015D15Rik	
-0.605568809	12.03341387	-3.338846494	0.006347739	0.036864465	1110014L17Rik	Mus musculus transmembrane emp24 protein transport domain containing 4 (Tmed4), mRNA.
-0.600009299	12.02762134	-5.060899539	0.000332787	0.005465448	Acbd4	
-1.542677082	12.02187315	-6.350879131	4.73569E-05	0.001541716	LOC233038	
-0.365478285	12.01011332	-3.590110562	0.004047334	0.027313779	AW112037	
-1.023856426	12.00417202	-3.722469485	0.00319957	0.023550688	AF397014	Mus musculus RIKEN cDNA 5033411D12 gene (5033411D12Rik), mRNA.
-1.583974126	12.00237882	-4.271157709	0.001231163	0.012668931	1200006F02Rik	
-0.606824981	12.00018715	-3.517031382	0.004611125	0.029842842	Klk1b9	Mus musculus kallikrein 1-related peptidase b9 (Klk1b9), mRNA.
-0.465845382	11.99831744	-3.917516977	0.002269843	0.018855711	Epb4.9	Mus musculus erythrocyte protein band 4.9 (Epb4.9), mRNA.
-0.587766223	11.99166393	-4.61980486	0.00068389	0.008749423	Rbpms2	
-0.596080547	11.99036092	-3.729844953	0.003158086	0.023288441	AI428936	
-1.6414706	11.98084422	-5.249442589	0.000246638	0.004537791	A230106J09Rik	
-0.472800973	11.97800546	-3.506670018	0.00469734	0.030189235	Rarsl	Mus musculus arginyl-tRNA synthetase 2, mitochondrial (putative) (Rars2), mRNA.
-0.565682603	11.97152156	-3.660125915	0.003573447	0.025215551	Kmo	
-0.877707846	11.96949277	-4.64793225	0.000652667	0.008459857	Lrrk2	Mus musculus leucine-rich repeat kinase 2 (Lrrk2), mRNA.
-0.313069648	11.96568904	-3.28959933	0.006936465	0.039200581	LOC380871	
-0.799357397	11.95947166	-6.092615904	6.86857E-05	0.001955904	LOC433224	Mus musculus predicted gene, EG433224 (EG433224) on chromosome 19.
-0.522839084	11.95730532	-4.051229782	0.001798037	0.016148496	Txnl4	
-0.378930826	11.94907825	-3.75112137	0.003041492	0.022752073	LOC243268	
-1.309441657	11.94090343	-5.124391783	0.000300683	0.005125144	Nphs2	

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.785551809	11.93764491	-3.50808153	0.004685499	0.030145608	Htra1	Mus musculus HtrA serine peptidase 1 (Htra1), mRNA.
-0.518141513	11.93369743	-5.0660957	0.000330029	0.005442268	Esrra	Mus musculus estrogen related receptor, alpha (Esrra), mRNA.
-0.384023115	11.92822222	-4.47960997	0.000864624	0.010157241	LOC382087	
-0.670213154	11.92189233	-3.810118555	0.002740851	0.021214699	AI649392	
-1.220766723	11.91694478	-5.061513204	0.00033246	0.005463838	AV344025	
-0.730732604	11.91346498	-3.400328827	0.00568352	0.034253717	B430104H02Rik	
-0.37217051	11.91134618	-3.191767045	0.008275958	0.043740686	Neu2	Mus musculus neuraminidase 2 (Neu2), mRNA.
-0.303731591	11.90924129	-3.588107913	0.0040618	0.027364976	D2Bwg1335e	
-0.429851283	11.90333461	-3.302003388	0.006783139	0.03862489	Dgkq	
-0.474154713	11.90262857	-4.730662999	0.000569207	0.007736464	Ptprd	
-0.767911703	11.90198676	-3.329215541	0.006458733	0.037273213	C730027J19Rik	
-1.07922846	11.89734465	-5.233522792	0.000252907	0.004614005	4833421E05Rik	
-0.3672503	11.89734448	-4.568004812	0.00074556	0.00923264	Dnajc3	Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 3A (Dnajc3a), mRNA.
-0.502773601	11.88156263	-3.448911727	0.005209095	0.032333108	Xpr1	Mus musculus xenotropic and polytropic retrovirus receptor 1 (Xpr1), mRNA.
-0.627639904	11.87500878	-4.332228544	0.001109425	0.011813597	4833426J09Rik	
-0.828135516	11.87368947	-5.875446787	9.45645E-05	0.002452818	Rmnd1	Mus musculus required for meiotic nuclear division 1 homolog (S. cerevisiae) (Rmnd1), mRNA.
-0.980354543	11.86978711	-6.76880724	2.64404E-05	0.0010694	Pthr1	Mus musculus parathyroid hormone receptor 1 (Pthr1), mRNA.
-0.532090405	11.86888378	-3.483747152	0.00489399	0.031043402	Clcnkb	
-0.864297349	11.86731059	-3.656209283	0.003598386	0.025344829	Zfp523	Mus musculus zinc finger protein 523 (Zfp523), mRNA.
-0.402960563	11.86351537	-3.599764835	0.003978331	0.02707054	Msrb2	Mus musculus methionine sulfoxide reductase B2 (Msrb2), mRNA.
-0.685543208	11.86102079	-5.092246103	0.000316508	0.005296508	Lman2l	
-0.510290899	11.85311038	-6.316960945	4.97013E-05	0.001583473	1500011K16Rik	
-0.568638077	11.84846637	-4.911432676	0.0004235	0.006384061	Tlcd1	Mus musculus TLC domain containing 1 (Tlcd1), mRNA.
-0.328801832	11.84078	-3.468235921	0.005031817	0.031644133	Add3	Mus musculus adducin 3 (gamma) (Add3), mRNA.
-1.049623906	11.8358044	-5.858418802	9.69921E-05	0.002502185	Tinag	Mus musculus tubulointerstitial nephritis antigen (Tinag), mRNA.
-1.252490374	11.82815712	-8.131627456	4.59509E-06	0.000334307	2210415K03Rik	
-0.62740264	11.82599798	-4.254594414	0.001266527	0.012893827	Hmgcl	Mus musculus 3-hydroxy-3-methylglutaryl-Coenzyme A lyase (Hmgcl), mRNA.
-0.95966853	11.82409191	-4.734978672	0.000565173	0.007702295	Tmem8	Mus musculus transmembrane protein 8 (five membrane-spanning domains) (Tmem8), mRNA.
-0.588000766	11.82294862	-5.378936331	0.000201357	0.003987528	Osbpl8	Mus musculus oxysterol binding protein-like 8 (Osbpl8), transcript variant 1, mRNA.
-0.405557889	11.81878182	-3.118473644	0.009448859	0.047720237	BC051083	Mus musculus myotubularin related protein 11 (Mtmr11), mRNA.
-0.634428888	11.81219901	-4.347390351	0.001081194	0.01163234	Nit2	Mus musculus nitrilase family, member 2 (Nit2), mRNA.
-0.778611316	11.8068199	-4.195630906	0.001401251	0.013783204	Hoxc6	
-0.278596609	11.79471823	-3.356843843	0.006145502	0.035954067	Mrpl37	Mus musculus mitochondrial ribosomal protein L37 (Mrpl37), mRNA.
-0.381955009	11.79005276	-3.458786933	0.005117717	0.031983249	Lzf	

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.677382494	11.78976781	-3.954673395	0.002127103	0.018070154	Sod3	
-0.453699594	11.78587945	-4.463691212	0.000888102	0.010315921	2310047L21Rik	
-0.65483605	11.78425852	-4.827375716	0.000485648	0.006957182	2610003J06Rik	Mus musculus RIKEN cDNA 2610003J06 gene (2610003J06Rik), mRNA.
-0.675041088	11.78307316	-3.52606486	0.004537282	0.029558603	Pep4	Mus musculus peptidase D (Pepd), mRNA.
-0.639528187	11.78302922	-4.027987169	0.00187209	0.016556916	Msra	
-0.976587155	11.78266616	-4.596321752	0.000711157	0.008989059	Trib2	
-0.580353504	11.77850358	-6.683324361	2.97324E-05	0.001142072	Sgk3	Mus musculus serum/glucocorticoid regulated kinase 3 (Sgk3), transcript variant 1, mRNA.
-0.559238636	11.77306504	-3.626245197	0.0037952	0.026342307	Pxmp2	
-0.283043232	11.76976578	-3.148340034	0.008951868	0.046117965	Mrps22	Mus musculus mitochondrial ribosomal protein S22 (Mrps22), mRNA.
-1.585938716	11.76903679	-3.70523402	0.003298715	0.023983541	Hbb-b1	Mus musculus hemoglobin, beta adult major chain (Hbb-b1), mRNA.
-0.920069177	11.76035676	-6.595302511	3.35845E-05	0.001234864	Aqp11	Mus musculus aquaporin 11 (Aqp11), mRNA.
-0.810809153	11.76008752	-7.107991448	1.67511E-05	0.000788117	Prkcz	Mus musculus protein kinase C, zeta (Prkcz), transcript variant 2, mRNA.
-0.562452118	11.75813433	-4.543635702	0.000776563	0.009483682	Mrps7	Mus musculus mitchondrial ribosomal protein S7 (Mrps7), mRNA.
-0.702106037	11.75637692	-4.234288391	0.001311331	0.013186807	Pcyt2	Mus musculus phosphate cytidylyltransferase 2, ethanolamine (Pcyt2), mRNA.
-0.423534232	11.75607318	-3.364119069	0.006065624	0.035695186	3732412D22Rik	
-0.49329842	11.74964617	-4.200329337	0.001389988	0.013740378	4921506I22Rik	
-0.746762657	11.74874216	-4.039792141	0.00183409	0.016404385	Cdkn1c	Mus musculus cyclin-dependent kinase inhibitor 1C (P57) (Cdkn1c), mRNA.
-0.645974033	11.74174238	-3.681002754	0.003443482	0.024646617	scl0001737.1_18	
-0.675821758	11.74172404	-4.172774065	0.001457417	0.014120314	Cutc	Mus musculus cutC copper transporter homolog (E.coli) (Cutc), mRNA.
-0.348773822	11.73806325	-3.4258787	0.005428759	0.033225567	Pdzd11	Mus musculus PDZ domain containing 11 (Pdzd11), mRNA.
-0.400515675	11.73752617	-3.50160124	0.004740116	0.030325306	4930432O21Rik	
-0.694276218	11.73576984	-4.028298081	0.001871078	0.016556916	Agtr1a	Mus musculus angiotensin II receptor, type 1a (Agtr1a), mRNA.
-1.031947231	11.72359308	-4.024797108	0.001882498	0.016600902	1810054O13Rik	Mus musculus transmembrane protein 86A (Tmem86a), mRNA.
-0.678522254	11.72353785	-3.135289456	0.009165703	0.04682534	Igsf11	Mus musculus immunoglobulin superfamily, member 11 (Igsf11), mRNA.
-0.578599533	11.72220333	-3.175369552	0.008524886	0.044601919	Dnajb6	Mus musculus DnaJ (Hsp40) homolog, subfamily B, member 6 (Dnajb6), transcript variant 2, mRNA.
-0.346599456	11.71512326	-4.07026703	0.001739651	0.015796532	2310002F18Rik	
-0.795779628	11.71368444	-3.599293397	0.003981672	0.027085133	3000003G13Rik	
-0.481554295	11.71142677	-3.265279862	0.007247378	0.040247656	Pcyt1a	
-0.857142752	11.70988524	-5.729549454	0.000117657	0.002799244	E330039G21Rik	
-0.836007289	11.70719409	-7.286746011	1.32459E-05	0.000676846	Acad9	
-0.707339427	11.70273801	-3.958549674	0.002112757	0.017999547	Slc37a4	
-0.741239873	11.69838475	-6.450909717	4.11044E-05	0.001415402	Abat	Mus musculus 4-aminobutyrate aminotransferase (Abat), mRNA.
-0.582987115	11.69684522	-4.869841497	0.000453132	0.006646028	Gphn	Mus musculus gephyrin (Gphn), mRNA.
-0.409455643	11.68969926	-3.520132282	0.00458564	0.029735629	Rarsl	Mus musculus arginyl-tRNA synthetase 2, mitochondrial (putative) (Rars2), mRNA.

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.999820219	11.68834529	-3.123034879	0.009371192	0.047468637	Gas2	
-0.563226179	11.68827392	-5.446643313	0.000181266	0.00370973	Pycrl	
-0.5686508	11.68785693	-4.477714624	0.000867385	0.010169119	LOC385461	
-0.237625103	11.68590521	-3.098551306	0.009795779	0.048933781	Plekhm1	Mus musculus pleckstrin homology domain containing, family M (with RUN domain) member 1 (Plekhm1), mRNA.
-0.693101856	11.68434309	-3.544301009	0.004391882	0.028919281	1110014L17Rik	Mus musculus transmembrane emp24 protein transport domain containing 4 (Tmed4), mRNA.
-0.239330474	11.68253436	-3.160501243	0.008757145	0.045418768	Mrpl43	
-0.777053501	11.68242599	-6.024445609	7.58841E-05	0.002093437	Tpk1	
-0.820137416	11.68195034	-4.739101223	0.000561348	0.007663294	D16H22S680E	
-0.846296212	11.67379758	-6.722320737	2.81793E-05	0.001107815	Acad9	
-0.490095725	11.67329219	-3.364402734	0.006062531	0.035685784	Lactb	Mus musculus lactamase, beta (Lactb), mRNA.
-0.953902006	11.66853238	-4.34400076	0.001087439	0.011660123	Nalp6	
-1.064406477	11.66096099	-5.215113601	0.000260367	0.004696252	Dnajc6	
-1.009441163	11.65794399	-3.716537929	0.003233339	0.023682376	BC016495	Mus musculus cDNA sequence BC016495 (BC016495), mRNA.
-0.705746396	11.65430469	-5.062576049	0.000331894	0.005462065	C730029A08Rik	
-1.175952721	11.65367542	-3.198676117	0.008173289	0.043505878	Car14	Mus musculus carbonic anhydrase 14 (Car14), mRNA.
-1.484847059	11.6497863	-6.187283442	5.9871E-05	0.001773684	Dpep1	Mus musculus dipeptidase 1 (renal) (Dpep1), mRNA.
-0.386210241	11.64902806	-3.781878593	0.002880733	0.021990704	Ndufb7	Mus musculus NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 7 (Ndufb7), mRNA.
-0.904294192	11.64783598	-3.585906491	0.004077764	0.027457024	Frap1	Mus musculus FK506 binding protein 12-rapamycin associated protein 1 (Frap1), mRNA.
-0.694361764	11.64405788	-7.663459252	8.17838E-06	0.000489447	Galm	Mus musculus galactose mutarotase (Galm), mRNA.
-1.075241655	11.63836552	-5.383274964	0.000200001	0.003970568	Dnajc6	
-0.325126255	11.63720374	-3.603438634	0.003952391	0.026985956	Pcp2	
-0.536528427	11.62965209	-3.497572191	0.004774402	0.030479281	Tcea3	Mus musculus transcription elongation factor A (SII), 3 (Tcea3), mRNA.
-0.611822801	11.62952853	-7.159937593	1.564E-05	0.000760034	Pde1a	
-0.649762288	11.61990863	-4.021700817	0.001892657	0.016659712	Ppp1r1b	Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 1B (Ppp1r1b), mRNA.
-1.053450646	11.61694521	-7.147727483	1.58939E-05	0.000766214	2610528J11Rik	
-0.567286979	11.61394389	-3.960592632	0.002105237	0.017948293	Txnl4	
-1.476061575	11.61152205	-9.866743979	6.59835E-07	0.000119474	Chrna4	Mus musculus cholinergic receptor, nicotinic, alpha polypeptide 4 (Chrna4), mRNA.
-0.63070592	11.61003029	-3.191162709	0.008285001	0.043762422	Frrs1	Mus musculus ferric-chelate reductase 1 (Frrs1), mRNA.
-0.677627763	11.60907877	-3.131831818	0.009223216	0.047024193	Ganc	Mus musculus glucosidase, alpha; neutral C (Ganc), mRNA.
-0.587931317	11.60459848	-3.714730391	0.003243703	0.023743707	Keo4	Mus musculus ER lipid raft associated 1 (Erlin1), mRNA.
-0.32278277	11.60379689	-3.166562235	0.008661703	0.045140328	Polr2i	
-0.796272209	11.60170148	-8.494245523	2.98881E-06	0.000269187	2900054D09Rik	

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-0.388236839	11.60039075	-4.178756889	0.001442492	0.014017075	1110001N06Rik	
-0.741998185	11.59894267	-3.75738725	0.003008007	0.022593668	Asb9	Mus musculus ankyrin repeat and SOCS box-containing protein 9 (Asb9), mRNA.
-0.950179035	11.59887832	-5.255147995	0.000244431	0.004507618	Bpnt1	
-0.404111216	11.59167124	-4.007717614	0.001939253	0.016969704	Mrpl18	Mus musculus mitochondrial ribosomal protein L18 (Mrpl18), mRNA.
-0.545576192	11.59150009	-4.056819466	0.001780686	0.016059146	Krt10	Mus musculus keratin 10 (Krt10), mRNA.
-0.330523209	11.57853264	-3.25410188	0.007394995	0.040840414	Rab34	Mus musculus RAB34, member of RAS oncogene family (Rab34), mRNA.
-0.364302974	11.57682382	-3.130855872	0.009239516	0.047051337	5330414D10Rik	Mus musculus protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 2 (Pcmtd2), mRNA.
-1.015618869	11.57507807	-4.07708157	0.001719232	0.015685334	Susd2	Mus musculus sushi domain containing 2 (Susd2), mRNA.
-0.309211523	11.57500434	-3.373015537	0.005969382	0.035364288	Wdr45	Mus musculus WD repeat domain 45 (Wdr45), mRNA.
-0.810820277	11.57256983	-3.622682002	0.003819329	0.026466508	Abhd3	Mus musculus abhydrolase domain containing 3 (Abhd3), mRNA.
-0.681998662	11.57045129	-4.30548323	0.001161116	0.012173857	1110035L05Rik	Mus musculus C1q domain containing 2 (C1qdc2), mRNA.
-0.563224556	11.56776879	-3.428553665	0.00540277	0.033143009	Gcdh	
-1.181689324	11.56514429	-5.260572668	0.000242352	0.004486621	BC055107	
-0.577046018	11.56302272	-4.068014369	0.001746456	0.015834221	Apg3l	Mus musculus autophagy-related 3 (yeast) (Atg3), mRNA.
-0.559323942	11.56254014	-4.432733654	0.000935689	0.010617377	Dst	
-0.545633355	11.56161714	-3.772012467	0.002931323	0.022220356	Aldh5a1	
-0.545125692	11.55212993	-4.84101759	0.000474943	0.006847186	2010001H14Rik	Mus musculus RIKEN cDNA 2010001H14 gene (2010001H14Rik), mRNA.
-0.398105028	11.54984432	-3.917011954	0.00227185	0.018856753	Dock9	
-1.565512494	11.54934148	-5.804964379	0.000105053	0.002616776	Sectm1	
-0.740176428	11.54042644	-4.209200229	0.001368978	0.01362341	5730402C02Rik	
-0.616762888	11.53837579	-5.004744077	0.000364198	0.005775481	Gphn	Mus musculus gephyrin (Gphn), mRNA.
-0.716520898	11.53804723	-4.454677969	0.00090169	0.010424914	Nr1h3	
-0.933013605	11.53570155	-6.511292379	3.77613E-05	0.001343731	Espn	Mus musculus espin (Espn), transcript variant 5, mRNA.
-0.508193681	11.53338726	-3.624931118	0.00380408	0.026388594	1300010F03Rik	
-2.198253588	11.53123395	-9.02385239	1.63376E-06	0.00019206	Slc9a8	Mus musculus solute carrier family 9 (sodium/hydrogen exchanger), member 8 (Slc9a8), transcript variant 2, mRNA.
-0.768779999	11.51753184	-4.569118337	0.000744175	0.00922027	Grtp1	
-1.496047324	11.51713588	-8.038988293	5.14039E-06	0.000357461	Slc4a1	Mus musculus solute carrier family 4 (anion exchanger), member 1 (Slc4a1), mRNA.
-0.447160412	11.51598042	-3.285910769	0.006982735	0.039308566	Fads3	Mus musculus fatty acid desaturase 3 (Fads3), mRNA.
-0.52352293	11.51403915	-3.161059119	0.008748316	0.045410892	Clpx	
-0.520552338	11.5096519	-4.673758442	0.000625314	0.008214252	BC034090	
-0.499800687	11.50738165	-3.288750004	0.006947092	0.039228217	1200016B10Rik	Mus musculus RIKEN cDNA 1200016B10 gene (1200016B10Rik), mRNA.
-0.349800284	11.50641342	-3.215464791	0.00792915	0.042663653	Atp6v0a2	
-0.374814376	11.50267116	-3.992253054	0.001992172	0.01725561	2010003O02Rik	
-0.721561613	11.5014476	-5.162472216	0.000283011	0.004915208	Pcyt2	Mus musculus phosphate cytidylyltransferase 2, ethanolamine (Pcyt2), mRNA.

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.29130033	11.50028228	-3.185782352	0.008365947	0.044089353	Tfb2m	Mus musculus transcription factor B2, mitochondrial (Tfb2m), mRNA.
-0.35412361	11.49510152	-4.126519832	0.001578362	0.014795829	Pcsk7	
-1.418337421	11.49117692	-6.286082475	5.19433E-05	0.001620291	Clcnka	Mus musculus chloride channel Ka (Clcnka), mRNA.
-0.736854128	11.48692712	-4.856416447	0.000463157	0.00673921	Tln2	
-0.592189764	11.48528077	-5.783147992	0.000108544	0.002670302	Taf9b	Mus musculus TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor (Taf9b), mRNA.
-0.571092304	11.47482236	-4.517994398	0.000810646	0.009789698	Mme	Mus musculus membrane metallo endopeptidase (Mme), mRNA.
-1.249979288	11.47362276	-4.528361086	0.000796681	0.009662506	Uap1	Mus musculus UDP-N-acetylglucosamine pyrophosphorylase 1 (Uap1), mRNA.
-0.827293392	11.47264402	-3.703187918	0.003310694	0.024049646	Sp5	Mus musculus trans-acting transcription factor 5 (Sp5), mRNA.
-0.258565639	11.47230087	-3.209705881	0.008012051	0.042974057	Sec61b	Mus musculus Sec61 beta subunit (Sec61b), mRNA.
-0.673650243	11.47140789	-4.853671057	0.000465235	0.006761209	Mccc2	
-0.692525772	11.4595035	-3.492737094	0.004815882	0.03065388	4631427C17Rik	Mus musculus RIKEN cDNA 4631427C17 gene (4631427C17Rik), mRNA.
-0.314596835	11.45798147	-3.678415199	0.003459323	0.024730326	Mopt	Mus musculus MORN repeat containing 2 (Morn2), mRNA.
-0.316656253	11.45759298	-3.280706922	0.007048547	0.039510265	Itch	
-0.750125897	11.45730908	-6.5108607	3.77842E-05	0.001343731	Hadhsc	
-1.591899685	11.45528372	-3.171083982	0.008591185	0.044830841	9030605E09Rik	Mus musculus RIKEN cDNA 9030605E09 gene (9030605E09Rik), mRNA.
-0.564330526	11.44785824	-3.370682524	0.005994469	0.035477679	Gphn	Mus musculus gephyrin (Gphn), mRNA.
-0.730138383	11.44224665	-3.83029349	0.002645226	0.020736867	Phlda2	
-0.557082152	11.44091415	-5.411958821	0.000191278	0.00383892	Cnnm2	
-0.408655354	11.44070727	-4.19854637	0.001394251	0.013753449	Ctns	Mus musculus cystinosis, nephropathic (Ctns), mRNA.
-0.432590465	11.43371102	-4.199158309	0.001392786	0.013753449	Tmem116	Mus musculus transmembrane protein 116 (Tmem116), mRNA.
-0.878451901	11.42744825	-3.33368256	0.006407008	0.037082326	2410014A08Rik	Mus musculus RIKEN cDNA 2410014A08 gene (2410014A08Rik), mRNA.
-0.695211715	11.42151301	-3.957296174	0.002117386	0.018019676	Dmgdh	Mus musculus dimethylglycine dehydrogenase precursor (Dmgdh), mRNA.
-0.579195573	11.41925624	-4.106381214	0.001634239	0.015139545	Npepl1	
-0.699519577	11.41770258	-6.125774714	6.54504E-05	0.00188174	A930009M04Rik	
-0.417640932	11.41294376	-4.485749958	0.000855743	0.010114774	Msrb2	Mus musculus methionine sulfoxide reductase B2 (Msrb2), mRNA.
-0.642570859	11.40913108	-3.122767501	0.009375727	0.047471455	Als2cr4	Mus musculus amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 4 (Als2cr4), transcript variant 2, mRNA. XM_909142 XM_921139 XM_921149 XM_921172 XM_921181
-0.332078067	11.40478102	-3.297924088	0.006833179	0.038814606	Rnf167	Mus musculus ring finger protein 167 (Rnf167), mRNA.
-0.542525065	11.39924911	-6.300854489	5.08576E-05	0.001607435	Pde1a	Mus musculus phosphodiesterase 1A, calmodulin-dependent (Pde1a), transcript variant 9, mRNA.
-0.477014649	11.39475928	-4.977150723	0.000380765	0.00595035	Lace1	Mus musculus lactation elevated 1 (Lace1), mRNA.
-0.459374103	11.38819169	-3.60888694	0.003914242	0.026871146	BC049806	Mus musculus cDNA sequence BC049806 (BC049806), mRNA.
-1.066745489	11.38671065	-8.854853043	1.97507E-06	0.000213495	D930010J01Rik	Mus musculus RIKEN cDNA D930010J01 gene (D930010J01Rik), mRNA.
-0.399544523	11.38593775	-4.378810568	0.001025052	0.011242792	Nqo2	Mus musculus NAD(P)H dehydrogenase, quinone 2 (Nqo2), mRNA.
-0.888454154	11.38591311	-3.566842265	0.004218733	0.028097024	Tmem8	Mus musculus transmembrane protein 8 (five membrane-spanning domains)

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
						(Tmem8), mRNA.
-0.369438224	11.37934231	-3.223778604	0.007811001	0.042254662	Pdcd10	Mus musculus programmed cell death 10 (Pdcd10), mRNA.
-0.589893537	11.3780334	-3.362529668	0.006082984	0.035743994	Gatad1	Mus musculus GATA zinc finger domain containing 1 (Gatad1), mRNA.
-0.623537121	11.3733007	-5.43927036	0.000183347	0.003733108	Col4a3	Mus musculus procollagen, type IV, alpha 3 (Col4a3), mRNA.
-0.814593261	11.37165398	-4.140520768	0.001540688	0.014649361	Gpc4	
-1.168983464	11.36782317	-3.450763768	0.005191831	0.032263715	Proc	Mus musculus protein C (Proc), transcript variant 2, mRNA.
-0.794868841	11.36689311	-7.039885167	1.83375E-05	0.000825638	Prkcz	
-1.107410353	11.36275594	-3.559425185	0.004274921	0.02834466	D630023F18Rik	Mus musculus RIKEN cDNA D630023F18 gene (D630023F18Rik), mRNA.
-0.909143276	11.35780252	-4.468712891	0.000880625	0.010254301	Gpr137b	Mus musculus G protein-coupled receptor 137B (Gpr137b), mRNA.
-0.544615984	11.35492851	-6.055699393	7.2489E-05	0.002025532	Pde1a	
-0.765404575	11.35262776	-3.918337729	0.002266586	0.018845805	Lrrc19	Mus musculus leucine rich repeat containing 19 (Lrrc19), mRNA.
-1.019239273	11.35180587	-3.844323132	0.002580765	0.02047367	Clk4	Mus musculus CDC like kinase 4 (Clk4), mRNA.
-0.735819461	11.34211592	-3.176558567	0.008506584	0.044555005	BC022145	
-0.453441311	11.33789486	-3.748021717	0.003058198	0.022842421	1110020A09Rik	
-0.616557019	11.3336839	-5.907725084	9.01383E-05	0.002376762	LOC381132	
-0.733763154	11.3321506	-4.383387699	0.001017131	0.011190319	Nit1	Mus musculus nitrilase 1 (Nit1), mRNA.
-0.925466628	11.32309234	-6.698624706	2.91124E-05	0.001127776	Pdk3	
-0.753095206	11.32152742	-3.574285449	0.00416311	0.027862985	Dab2	
-0.317804195	11.31969854	-3.870442554	0.002465046	0.019897559	Hax1	Mus musculus HCLS1 associated X-1 (Hax1), mRNA.
-0.550063168	11.3157939	-3.428886626	0.005399544	0.033140257	Cyp27a1	Mus musculus cytochrome P450, family 27, subfamily a, polypeptide 1 (Cyp27a1), mRNA.
-0.586418286	11.30980977	-5.95182814	8.44433E-05	0.002243954	Dusp19	Mus musculus dual specificity phosphatase 19 (Dusp19), mRNA.
-0.597187776	11.30857561	-3.141987265	0.009055321	0.046454412	Fahd2a	Mus musculus fumarylacetoacetate hydrolase domain containing 2A (Fahd2a), mRNA.
-0.335388285	11.30148	-3.519250046	0.004592876	0.029772501	1110025I09Rik	Mus musculus TM2 domain containing 3 (Tm2d3), transcript variant 1, mRNA.
-0.754345321	11.29252737	-4.131980242	0.001563556	0.01474166	Slc16a2	
-0.579928149	11.28750036	-3.803050428	0.00277519	0.021392498	Pcdh17	Mus musculus protocadherin 17 (Pcdh17), mRNA.
-0.475255733	11.28429588	-3.466041637	0.005051633	0.031704692	Hadhsc	
-0.50112961	11.28141968	-3.884040071	0.00240694	0.019589632	2700097O09Rik	Mus musculus RIKEN cDNA 2700097O09 gene (2700097O09Rik), mRNA.
-0.440456234	11.27959333	-4.673620195	0.000625458	0.008214252	2400010G15Rik	Mus musculus transmembrane protein 112 (Tmem112), mRNA.
-0.64555409	11.27589537	-4.481452502	0.000861949	0.010157241	Lman2l	
-0.329955857	11.2758525	-3.19112451	0.008285573	0.043762422	3830406C13Rik	
-0.792496789	11.27473613	-6.310252422	5.01794E-05	0.001591775	0610031G08Rik	
-1.488301418	11.27321173	-4.843234948	0.000473227	0.006835597	Mep1b	
-0.763869699	11.26601902	-3.164342444	0.008696535	0.045285681	2410014A08Rik	Mus musculus RIKEN cDNA 2410014A08 gene (2410014A08Rik), mRNA.
-0.665466198	11.26403004	-5.093177182	0.000316037	0.005292346	2810407C02Rik	

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.338841568	11.26372768	-3.952646925	0.002134643	0.018114861	1700013A01Rik	
-1.343002811	11.26290476	-6.416044421	4.31774E-05	0.001457343	Mep1b	
-0.524373477	11.2570071	-3.21009549	0.008006415	0.042956674	Slc22a4	
-0.46232251	11.24249104	-3.137614418	0.009127234	0.046728851	D730039F16Rik	
-0.523304254	11.24129698	-4.743383256	0.000557403	0.007635656	A630084D02Rik	
-0.58492354	11.23878387	-5.364139518	0.000206053	0.00405022	Tdrd3	Mus musculus tudor domain containing 3 (Tdrd3), mRNA.
-0.423176347	11.23720124	-4.695319066	0.000603401	0.008017243	Magmas	Mus musculus mitochondria-associated protein involved in granulocyte-macrophage colony-stimulating factor signal transduction (Magmas), mRNA.
-0.389816044	11.22284317	-3.300048674	0.006807071	0.038703153	Apba3	Mus musculus amyloid beta (A4) precursor protein-binding, family A, member 3 (Apba3), mRNA.
-0.624294274	11.22168677	-3.60468939	0.0039436	0.026982105	Rshl2	
-0.323701632	11.22080847	-3.155585904	0.008835327	0.045734797	Crbn	
-1.236383057	11.21922578	-4.063248281	0.001760944	0.01590712	Idi1	
-1.4709787	11.21875146	-3.18403432	0.008392417	0.044189819	Slc30a2	
-0.572667038	11.21677044	-3.543279713	0.004399897	0.028948096	Piga	
-0.433674472	11.21629538	-3.547691245	0.004365382	0.028805992	E030003N15Rik	
-0.608728577	11.21522754	-4.445863058	0.000915189	0.010519825	5730402C02Rik	
-0.850109125	11.21246504	-5.532735973	0.000158736	0.003381311	LOC381873	
-1.850164764	11.20770887	-3.375428314	0.005943549	0.035255013	Akr1c14	Mus musculus aldo-keto reductase family 1, member C14 (Akr1c14), mRNA.
-0.265696363	11.19901694	-3.45094604	0.005190135	0.032261578	Ubl4	Mus musculus ubiquitin-like 4 (Ubl4), mRNA.
-0.465279447	11.18998165	-3.988565281	0.002005012	0.017341642	Farp2	Mus musculus FERM, RhoGEF and pleckstrin domain protein 2 (Farp2), mRNA.
-0.775274884	11.18870603	-5.099549811	0.000312837	0.005249803	Eps8	
-0.310023838	11.18759303	-3.901723434	0.002333486	0.019168322	Silg111	
-1.415285201	11.18466315	-7.251710933	1.38654E-05	0.000698037	Sfrp1	
-0.289148319	11.17961168	-3.386338513	0.005828156	0.034765421	1810043H04Rik	
-0.904183424	11.17637364	-4.355190009	0.001066964	0.011546924	Bcat2	Mus musculus branched chain aminotransferase 2, mitochondrial (Bcat2), mRNA.
-0.890235616	11.16976725	-4.842875075	0.000473505	0.006835597	Pet112l	Mus musculus PET112-like (yeast) (Pet112l), mRNA.
-0.647498873	11.16973686	-4.45845975	0.000895962	0.010378809	Ank3	
-2.170022305	11.16646093	-8.85389012	1.97722E-06	0.000213495	1700018O18Rik	
-0.34865305	11.16314161	-4.304643691	0.001162778	0.012185936	2610029D06Rik	Mus musculus zinc finger protein 623 (Zfp623), mRNA.
-0.412225005	11.15198838	-3.902594327	0.002329929	0.019163951	AW456874	
-0.469195713	11.14481678	-3.469424864	0.005021114	0.031606129	Mapbpip-pending	
-0.53897705	11.14392013	-4.541950452	0.000778756	0.009505603	A930009M04Rik	
-0.386063443	11.14328898	-3.352124005	0.006197895	0.036170304	LOC280408	
-0.407733502	11.14071222	-3.555129285	0.004307814	0.028519982	2310045N01Rik	
-1.051475658	11.13608668	-5.341036973	0.00021362	0.004147771	AI746471	

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.430440427	11.13222867	-4.761733084	0.000540827	0.007494634	Nqo2	Mus musculus NAD(P)H dehydrogenase, quinone 2 (Nqo2), mRNA.
-0.529649426	11.13060504	-6.635017894	3.17843E-05	0.00119256	1700034H14Rik	Mus musculus RIKEN cDNA 1700034H14 gene (1700034H14Rik), mRNA.
-0.393865689	11.13033795	-3.287813095	0.006958833	0.039266642	AI314976	Mus musculus expressed sequence AI314976 (AI314976), mRNA.
-0.903061153	11.12881957	-4.381472667	0.001020437	0.011206027	Bpnt1	
-0.587097052	11.12816031	-5.242373702	0.000249401	0.004571009	Helb	Mus musculus helicase (DNA) B (Helb), mRNA.
-1.17497055	11.1272653	-3.903409904	0.002326603	0.019151336	0610012H03Rik	Mus musculus RIKEN cDNA 0610012H03 gene (0610012H03Rik), mRNA.
-0.839443485	11.12711835	-4.835615197	0.000479152	0.006883814	Lhx1	
-0.550320195	11.12367201	-3.876716538	0.002438057	0.019768724	Kcnj1	Mus musculus potassium inwardly-rectifying channel, subfamily J, member 1 (Kcnj1), mRNA.
-0.779189062	11.12227625	-3.928824512	0.002225384	0.018606982	Ddo	Mus musculus D-aspartate oxidase (Ddo), mRNA.
-0.533293992	11.11740292	-5.336587489	0.000215111	0.004156425	Nfs1	Mus musculus nitrogen fixation gene 1 (S. cerevisiae) (Nfs1), mRNA.
-0.450529648	11.10976823	-3.582143655	0.0041052	0.027563984	Top1mt	
-0.791621224	11.10382425	-3.416315363	0.005522723	0.033602432	Asl	
-0.584058429	11.10152525	-5.569468601	0.000150045	0.003257992	Pcyt2	Mus musculus phosphate cytidylyltransferase 2, ethanolamine (Pcyt2), mRNA.
-0.691626144	11.09807331	-5.118999201	0.000303278	0.00513636	Hook2	
-1.03818457	11.09012342	-4.300019575	0.001171981	0.012260841	Shmt2	
-0.403532798	11.08846521	-3.713035336	0.003253453	0.023782898	Irak2	Mus musculus interleukin-1 receptor-associated kinase 2 (Irak2), mRNA.
-0.456020142	11.08654428	-3.894943195	0.002361372	0.019317593	Atp5s	Mus musculus ATP synthase, H+ transporting, mitochondrial F0 complex, subunit s (Atp5s), mRNA.
-0.867474296	11.08189726	-3.82864846	0.002652892	0.020776325	Galnt14	
-1.292438115	11.07153602	-6.788560495	2.57365E-05	0.001046984	Ace	
-0.48833869	11.07150766	-3.961099437	0.002103376	0.017944333	2410022L05Rik	Mus musculus RIKEN cDNA 2410022L05 gene (2410022L05Rik), mRNA.
-0.636777013	11.0645201	-4.801366397	0.000506768	0.007147167	D11Ertd18e	Mus musculus solute carrier family 46, member 1 (Slc46a1), mRNA.
-0.947369083	11.05830951	-3.610907274	0.003900191	0.026813675	Gats	
-0.427066707	11.05308558	-4.017876792	0.001905283	0.016739975	D4Ertd22e	
-1.198811182	11.05080653	-5.205971208	0.000264158	0.004739553	0610012D14Rik	Mus musculus RIKEN cDNA 0610012D14 gene (0610012D14Rik), mRNA.
-0.864063515	11.04980062	-4.67869337	0.000620226	0.008163518	Anpep	Mus musculus alanyl (membrane) aminopeptidase (Anpep), mRNA.
-0.549205732	11.04470567	-5.292540259	0.000230476	0.00435346	Mrrf	Mus musculus mitochondrial ribosome recycling factor (Mrrf), mRNA.
-0.549829865	11.04059282	-4.932088406	0.000409548	0.006229623	Clp1	
-0.92394301	11.03871345	-3.857656417	0.002521008	0.020167218	LOC380737	
-1.680257438	11.03674405	-3.290188691	0.006929101	0.03918226	Akr1c14	Mus musculus aldo-keto reductase family 1, member C14 (Akr1c14), mRNA.
-0.663618956	11.03633988	-5.692248116	0.000124476	0.002895091	Bphl	Mus musculus biphenyl hydrolase-like (serine hydrolase, breast epithelial mucin-associated antigen) (Bphl), mRNA.
-0.539870136	11.03620764	-5.397069079	0.000195755	0.003902504	2210410P13Rik	
-0.362316083	11.03316972	-3.189203803	0.00831438	0.043866028	0610037L13Rik	
-0.486094443	11.03287572	-3.13737027	0.009131266	0.046739466	Als2	Mus musculus amyotrophic lateral sclerosis 2 (juvenile) homolog (human) (Als2), mRNA.

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.859218065	11.03184622	-3.756401838	0.003013248	0.022611679	Lrrk2	Mus musculus leucine-rich repeat kinase 2 (Lrrk2), mRNA.
-0.72295555	11.03163962	-3.448839127	0.005209773	0.032333108	Habp2	Mus musculus hyaluronic acid binding protein 2 (Habp2), mRNA.
-0.460303601	11.02749531	-3.448258235	0.0052152	0.032358377	Lars2	
-0.542821529	11.02205327	-3.722007168	0.003202189	0.023562698	Aqp7	Mus musculus aquaporin 7 (Aqp7), mRNA.
-0.605915295	11.02140626	-7.069745955	1.7623E-05	0.000804858	0610027O18Rik	Mus musculus transmembrane protein 42 (Tmem42), mRNA.
-0.635140715	11.01852905	-4.960607875	0.000391075	0.006053122	Mertk	
-0.74992753	11.00960302	-4.240403708	0.001297667	0.013104621	B230354O11Rik	
-0.781004835	11.00899988	-4.613670285	0.000690906	0.00882134	Tm7sf1	
-0.674159616	11.00657074	-4.618072312	0.000685864	0.008761655	Scrn2	Mus musculus secernin 2 (Scrn2), mRNA.
-1.072859431	11.00637553	-4.516023607	0.00081333	0.009807217	Zmynd10	Mus musculus zinc finger, MYND domain containing 10 (Zmynd10), mRNA.
-0.699457686	11.00374981	-4.478321462	0.0008665	0.010165829	As3mt	
-0.736091662	11.00369904	-3.10259818	0.009724283	0.048706549	Ggnbp1	
-0.778548179	11.00141695	-3.771913523	0.002931835	0.022220356	6230410P16Rik	Mus musculus RIKEN cDNA 6230410P16 gene (6230410P16Rik), transcript variant 1, mRNA.
-0.521607913	10.99298197	-4.633868461	0.000668088	0.008612951	4921521J11Rik	
-0.541598822	10.97936401	-3.249564553	0.007455783	0.041064917	1110001A23Rik	
-1.265034072	10.97788712	-3.314809314	0.006628459	0.037979632	Kir4.2	
-0.704343562	10.96963478	-3.217079091	0.007906068	0.04257786	Gats	
-1.090602015	10.96775137	-4.405440418	0.000979855	0.010911006	Tpk1	
-0.905371837	10.96725112	-3.411456063	0.005571102	0.033793392	Fut9	
-0.741135054	10.96547302	-4.118379477	0.001600705	0.014945121	Tex2	
-0.231579733	10.95957979	-3.221221557	0.007847148	0.042384901	BC003479	Mus musculus dehydrogenase/reductase (SDR family) member 7B (Dhrs7b), mRNA.
-0.616640568	10.95903883	-6.154526757	6.27764E-05	0.001830162	9330155C01Rik	
-0.309084587	10.95725324	-3.108190313	0.009626352	0.048381139	Atp5k	
-1.052513115	10.94980732	-5.265306159	0.000240554	0.004463712	Gnpda1	
-0.339383812	10.94913007	-3.127020695	0.009303851	0.047217734	6330580J24Rik	
-0.888220427	10.94590571	-7.545393204	9.4955E-06	0.000547241	Dorz1	
-1.499068213	10.94053415	-7.998555846	5.39984E-06	0.000366069	Slc34a3	Mus musculus solute carrier family 34 (sodium phosphate), member 3 (Slc34a3), mRNA.
-0.716933262	10.93848698	-3.541965786	0.004410231	0.028992107	Slc35f3	
-1.352605048	10.93611626	-5.9667113	8.26089E-05	0.002209973	Prok1	
-0.455623618	10.93459246	-4.123910505	0.001585488	0.014837061	D9Wsu20e	
-0.555223195	10.92914852	-4.18071466	0.001437643	0.014008364	Osgepl1	Mus musculus O-sialoglycoprotein endopeptidase-like 1 (Osgepl1), mRNA.
-0.576718433	10.92122503	-3.221656273	0.007840991	0.042370117	Fbxo7	
-2.088702941	10.91779634	-3.107699864	0.009634901	0.048413908	E330016A09Rik	
-0.557734499	10.91337393	-4.027619189	0.001873287	0.016556916	1700034H14Rik	Mus musculus RIKEN cDNA 1700034H14 gene (1700034H14Rik), mRNA.

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.976397502	10.91168891	-3.839651144	0.002602049	0.020560495	Slc22a5	Mus musculus solute carrier family 22 (organic cation transporter), member 5 (Slc22a5), mRNA.
-0.998706967	10.90837974	-5.613378107	0.000140313	0.003125639	Trrp1	
-0.319547903	10.90681715	-3.176070303	0.008514095	0.044565304	D2Ertd217e	
-0.623762989	10.90281524	-4.64722658	0.000653432	0.008465172	Cetn4	Mus musculus centrin 4 (Cetn4), mRNA.
-0.515009888	10.89892632	-4.75299398	0.000548656	0.007572153	Nme7	Mus musculus non-metastatic cells 7, protein expressed in (Nme7), transcript variant 1, mRNA.
-0.955223354	10.89643792	-5.774871996	0.000109901	0.002687055	Mg29	
-0.983189176	10.89385263	-3.374663593	0.005951724	0.035285963	3830612M24	
-0.755444487	10.88406896	-3.68208679	0.003436868	0.024621431	Afmid	Mus musculus arylformamidase (Afmid), mRNA.
-0.665745196	10.88394652	-3.821531469	0.002686325	0.0209216	2510015F01Rik	
-0.484507641	10.88046307	-3.367620252	0.00602756	0.035570556	Fut8	Mus musculus fucosyltransferase 8 (Fut8), mRNA.
-0.36735502	10.87906226	-3.489814129	0.004841137	0.030757202	Ncoa5	Mus musculus nuclear receptor coactivator 5 (Ncoa5), mRNA.
-0.594944456	10.86858561	-3.231815931	0.007698477	0.041837763	Cyp27a1	Mus musculus cytochrome P450, family 27, subfamily a, polypeptide 1 (Cyp27a1), mRNA.
-0.314725483	10.86761396	-3.619271348	0.003842573	0.026578351	Zcchc14	Mus musculus zinc finger, CCHC domain containing 14 (Zcchc14), mRNA.
-0.676897816	10.86601085	-4.046159561	0.001813927	0.016254507	Pde4dip	Mus musculus phosphodiesterase 4D interacting protein (myomegalin) (Pde4dip), transcript variant 1, mRNA.
-0.262335354	10.86570514	-3.538775136	0.004435429	0.029101636	Pdzd11	Mus musculus PDZ domain containing 11 (Pdzd11), mRNA.
-0.428932046	10.86015614	-4.255105445	0.00126542	0.012888459	Pes1	
-1.140916905	10.86003941	-4.653155112	0.000647036	0.008407762	B230339H12Rik	
-2.012998421	10.85890541	-8.651854544	2.48979E-06	0.000242488	Slc9a8	Mus musculus solute carrier family 9 (sodium/hydrogen exchanger), member 8 (Slc9a8), transcript variant 1, mRNA.
-0.536753546	10.84726952	-4.258266903	0.001258596	0.012854743	1700064K09Rik	
-0.444669643	10.84517245	-3.666157418	0.003535389	0.025083681	Cetn2	Mus musculus centrin 2 (Cetn2), mRNA.
-1.354847799	10.83968778	-4.907944338	0.000425905	0.006396075	AI315068	
-0.541217035	10.83910548	-3.665556371	0.003539163	0.025083681	Aqp7	Mus musculus aquaporin 7 (Aqp7), mRNA.
-0.736280572	10.83496547	-3.594641944	0.004014794	0.027199444	BC049806	Mus musculus cDNA sequence BC049806 (BC049806), mRNA.
-0.426819633	10.83307108	-3.202890752	0.008111293	0.043331046	BC021611	
-0.489686911	10.83151032	-4.310130299	0.001151957	0.012117007	AW456874	Mus musculus protein tyrosine phosphatase domain containing 1 (Ptpdc1), mRNA.
-0.467642696	10.83041239	-3.870372188	0.00246535	0.019897559	LOC381105	
-0.706277546	10.82303109	-4.884755147	0.000442263	0.006551038	Fcgr2b	
-0.268767749	10.80810163	-3.261553833	0.007296249	0.040453156	Sirt2	Mus musculus sirtuin 2 (silent mating type information regulation 2, homolog) 2 (S. cerevisiae) (Sirt2), mRNA.
-0.493830481	10.80406846	-4.743997594	0.00055684	0.007632319	Rtn4ip1	Mus musculus reticulon 4 interacting protein 1 (Rtn4ip1), mRNA.
-0.795195353	10.79990487	-3.817310151	0.002706361	0.021036447	1110031I02Rik	Mus musculus RIKEN cDNA 1110031I02 gene (1110031I02Rik), mRNA.
-0.538788787	10.79795188	-4.506414544	0.000826548	0.00990654	9030612M13Rik	

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-1.104370593	10.78883559	-3.153622052	0.008866761	0.045827922	1810027I20Rik	
-0.513683573	10.78677475	-4.59163834	0.00071673	0.009044597	A930027H06Rik	Mus musculus transmembrane protein 139 (Tmem139), mRNA.
-0.495977533	10.78668071	-3.902742396	0.002329325	0.019163951	5730509K17Rik	Mus musculus RIKEN cDNA 5730509K17 gene (5730509K17Rik), mRNA.
-0.541091392	10.78323499	-3.647927477	0.003651711	0.025584068	Mocos	Mus musculus molybdenum cofactor sulfurase (Mocos), mRNA.
-0.997213084	10.78204117	-3.595224833	0.004010628	0.027196824	Slc2a2	Mus musculus solute carrier family 2 (facilitated glucose transporter), member 2 (Slc2a2), mRNA.
-0.400628897	10.76759274	-3.394302911	0.005745363	0.034508333	Cecr5	
-0.349667175	10.76556877	-3.260217399	0.007313859	0.040535322	scl0004059.1_11	
-0.858742275	10.76115155	-3.797351954	0.002803199	0.021529686	Afmid	Mus musculus arylformamidase (Afmid), mRNA.
-1.103874629	10.74815289	-4.635271779	0.000666532	0.00859754	B230339H12Rik	
-0.567611141	10.74464753	-5.831535364	0.00010096	0.002552139	Mdh1	Mus musculus malate dehydrogenase 1, NAD (soluble) (Mdh1), mRNA.
-0.585153241	10.74176674	-4.188400229	0.001418771	0.013884488	Mertk	
-1.469628171	10.73660985	-4.421824627	0.000953087	0.01075146	Bcat1	Mus musculus branched chain aminotransferase 1, cytosolic (Bcat1), transcript variant 2, mRNA.
-0.777169178	10.73245568	-4.256868805	0.001261609	0.012871215	Pdss1	Mus musculus prenyl (solanesyl) diphosphate synthase, subunit 1 (Pdss1), mRNA.
-0.485694712	10.73176173	-4.312650251	0.001147022	0.012089834	Nme7	Mus musculus non-metastatic cells 7, protein expressed in (Nme7), transcript variant 1, mRNA.
-1.029036862	10.72935705	-3.785603415	0.002861869	0.021909778	Etv1	
-0.80721115	10.72715103	-4.369544089	0.001041286	0.011344582	Nsdhl	Mus musculus NAD(P) dependent steroid dehydrogenase-like (Nsdhl), mRNA.
-0.494556708	10.72437875	-3.610260908	0.003904681	0.026836808	9130210N20Rik	Mus musculus nicotinate phosphoribosyltransferase domain containing 1 (Naprt1), mRNA.
-1.000649664	10.72413892	-3.196119642	0.008211127	0.043609896	Slc22a19	Mus musculus solute carrier family 22 (organic anion transporter), member 9 (Slc22a9), mRNA.
-0.501666592	10.71804418	-4.791610027	0.000514938	0.007223959	Txndc4	
-0.294830911	10.71734069	-3.359708492	0.006113922	0.035838007	Dolpp1	Mus musculus dolichyl pyrophosphate phosphatase 1 (Dolpp1), mRNA.
-1.01421484	10.71711381	-5.72121122	0.000119146	0.00281693	Gnpda1	
-1.329507174	10.71383113	-7.951069703	5.72263E-06	0.000379331	Aqp11	Mus musculus aquaporin 11 (Aqp11), mRNA.
-0.677665705	10.71340222	-3.869924641	0.002467287	0.019897559	Add3	Mus musculus adducin 3 (gamma) (Add3), mRNA.
-0.575833911	10.70275166	-4.820613529	0.000491049	0.007008309	Rab38	Mus musculus Rab38, member of RAS oncogene family (Rab38), mRNA.
-0.703072491	10.69173346	-4.87260875	0.000451094	0.006620209	Pole4	Mus musculus polymerase (DNA-directed), epsilon 4 (p12 subunit) (Pole4), mRNA.
-0.874569394	10.68577671	-4.579930468	0.000730863	0.00912694	Fahd2a	Mus musculus fumarylacetoacetate hydrolase domain containing 2A (Fahd2a), mRNA.
-0.391365322	10.68288511	-4.833224534	0.000481028	0.006902444	Dap3	Mus musculus death associated protein 3 (Dap3), mRNA.
-0.762989544	10.68279038	-5.732692104	0.000117101	0.002788794	2210408F11Rik	
-0.57173365	10.68104127	-3.835908615	0.002619229	0.020614336	2810055F11Rik	Mus musculus RIKEN cDNA 2810055F11 gene (2810055F11Rik), mRNA.
-1.162300536	10.68103428	-4.252115222	0.00127191	0.012926576	ORF63	Mus musculus open reading frame 63 (ORF63), mRNA.
-0.411893107	10.67269135	-3.13008811	0.009252359	0.047066227	Lrrc8a	Mus musculus leucine rich repeat containing 8A (Lrrc8a), mRNA.

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-1.639195943	10.67003097	-10.43023255	3.72432E-07	8.38428E-05	Chrna4	Mus musculus cholinergic receptor, nicotinic, alpha polypeptide 4 (Chrna4), mRNA.
-0.690745894	10.66722475	-5.308470086	0.000224789	0.004287886	Slc25a13	
-0.580942165	10.66512706	-4.327900338	0.001117624	0.011861328	Fhit	
-0.555539629	10.65906415	-4.491100545	0.000848082	0.010067052	Pomt2	
-0.580573176	10.65545082	-4.32210708	0.001128698	0.01194418	Smpd2	Mus musculus sphingomyelin phosphodiesterase 2, neutral (Smpd2), mRNA.
-0.586391287	10.65528464	-5.565980247	0.000150849	0.003262327	Srr	Mus musculus serine racemase (Srr), mRNA.
-0.834557077	10.64949579	-4.508181643	0.000824101	0.009892848	2210010A19Rik	Mus musculus pyridoxal-dependent decarboxylase domain containing 1 (Pdxdc1), transcript variant 3, mRNA.
-0.833777699	10.64238638	-3.160717369	0.008753723	0.045410892	Ace2	
-0.341293511	10.63793358	-3.650809322	0.003633064	0.025491266	Pts	Mus musculus 6-pyruvoyl-tetrahydropterin synthase (Pts), mRNA.
-1.68775832	10.63775569	-3.734211136	0.003133789	0.023195287	Trps1	
-0.46099562	10.63439208	-4.92802659	0.000412253	0.006258006	Ctsf	Mus musculus cathepsin F (Ctsf), mRNA.
-0.861058822	10.63382347	-3.691680303	0.003378901	0.024364852	Nsdhl	Mus musculus NAD(P) dependent steroid dehydrogenase-like (Nsdhl), mRNA.
-0.536948704	10.62779857	-3.567209642	0.00421597	0.028097024	1300017K07Rik	Mus musculus threonine aldolase 1 (Tha1), mRNA.
-0.916959317	10.62712626	-4.266904708	0.001240144	0.012733892	Tmem150	Mus musculus transmembrane protein 150 (Tmem150), mRNA.
-0.919495212	10.62193949	-4.18315599	0.00143162	0.013973075	Fbxo36	Mus musculus F-box protein 36 (Fbxo36), mRNA.
-0.352406379	10.61971697	-3.727096796	0.003173478	0.023380271	Yme1l1	Mus musculus YME1-like 1 (S. cerevisiae) (Yme1l1), mRNA.
-0.378446515	10.61799336	-4.13692898	0.001550263	0.014682591	Nqo2	Mus musculus NAD(P)H dehydrogenase, quinone 2 (Nqo2), mRNA.
-0.513016234	10.61775803	-4.170003879	0.001464381	0.014170531	LOC386233	
-0.689821745	10.61668845	-4.189381471	0.00141638	0.013884488	Mapt	
-0.650872737	10.61609906	-3.7932763	0.00282341	0.021663998	Rbks	Mus musculus ribokinase (Rbks), mRNA.
-1.045673609	10.61243127	-4.943700892	0.000401918	0.006155946	BC026682	Mus musculus cDNA sequence BC026682 (BC026682), mRNA.
-0.657867733	10.60592355	-5.223914135	0.000256772	0.004659585	Tln2	
-0.467988572	10.60545721	-3.515005509	0.004627854	0.02990373	Slc39a8	Mus musculus solute carrier family 39 (metal ion transporter), member 8 (Slc39a8), mRNA.
-1.748960754	10.605017	-3.269766509	0.007188972	0.040025765	C1qtnf3	Mus musculus C1q and tumor necrosis factor related protein 3 (C1qtnf3), mRNA.
-0.356724358	10.59975703	-3.296037292	0.006856451	0.038891251	4432409B16	
-0.358150851	10.59408558	-4.281770805	0.001209046	0.012549576	2610019N19Rik	
-0.648104431	10.59348802	-3.974232828	0.002055731	0.017639668	Cutc	Mus musculus cutC copper transporter homolog (E.coli) (Cutc), mRNA.
-0.506781472	10.59288406	-3.94205669	0.002174499	0.018296922	Npr2	
-0.405077731	10.58946668	-3.712933379	0.00325404	0.023782898	Zhx1	
-0.337601689	10.585524	-3.147002519	0.008973549	0.046192307	LOC245651	
-0.565061029	10.58457404	-3.745885895	0.003069764	0.022891805	Slc25a15	Mus musculus solute carrier family 25 (mitochondrial carrier ornithine transporter), member 15 (Slc25a15), mRNA.
-0.326322366	10.58378605	-3.22794616	0.007752448	0.042035142	Men1	Mus musculus multiple endocrine neoplasia 1 (Men1), mRNA.
-1.617229626	10.58287886	-3.219962247	0.007865012	0.042433369	4933437K13Rik	
-0.862375823	10.57108506	-6.458248879	4.06817E-05	0.001406938	Scn4b	Mus musculus sodium channel, type IV, beta (Scn4b), mRNA.

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.448232004	10.57085854	-3.787562038	0.002852001	0.021848247	Ulk2	Mus musculus Unc-51 like kinase 2 (C. elegans) (Ulk2), mRNA.
-0.43827688	10.56482473	-3.620210155	0.00383616	0.026549388	Echdc2	Mus musculus enoyl Coenzyme A hydratase domain containing 2 (Echdc2), mRNA.
-0.491177437	10.55983115	-3.950920304	0.002141089	0.01813925	Zbtb24	Mus musculus zinc finger and BTB domain containing 24 (Zbtb24), mRNA.
-1.008666586	10.55614253	-9.664288086	8.15635E-07	0.000137093	2310040C09Rik	
-0.611280439	10.55527225	-6.676588766	3.00098E-05	0.0011458	2410016F19Rik	Mus musculus RIKEN cDNA 2410016F19 gene (2410016F19Rik), mRNA.
-0.493097248	10.55357245	-4.322347592	0.001128236	0.01194418	Helb	Mus musculus helicase (DNA) B (Helb), mRNA.
-0.727498767	10.5525594	-6.83736982	2.40817E-05	0.000997579	Uros	
-0.811892247	10.54595275	-3.99400604	0.001986099	0.017209252	Suclg2	Mus musculus succinate-Coenzyme A ligase, GDP-forming, beta subunit (Suclg2), mRNA.
-0.585785785	10.53604929	-5.711653111	0.000120877	0.002844673	Zadh1	
-1.012380708	10.53106398	-6.541446152	3.62016E-05	0.001308908	Aldh8a1	
-1.897661475	10.52642653	-3.091043231	0.009929831	0.049386319	1200006G13Rik	
-1.039135558	10.52331152	-7.503283724	1.00189E-05	0.000559907	Plekhb1	Mus musculus pleckstrin homology domain containing, family B (evectins) member 1 (Plekhb1), mRNA.
-0.527476109	10.51483559	-3.818467006	0.002700855	0.021000489	Nfs1	Mus musculus nitrogen fixation gene 1 (S. cerevisiae) (Nfs1), mRNA.
-0.497836079	10.51291078	-5.05027518	0.000338503	0.00552975	Biklk	
-0.881326754	10.51256924	-3.395771838	0.005730225	0.034452093	H2-T10	Mus musculus histocompatibility 2, T region locus 10 (H2-T10), mRNA.
-0.736742482	10.50291437	-5.013475657	0.000359116	0.005735999	As3mt	
-0.418979301	10.50289961	-3.515366596	0.004624868	0.029892528	Mtrf1l	
-0.359127493	10.50083454	-4.21745708	0.00134972	0.013487587	Nudt2	
-0.651866342	10.49741907	-3.39839629	0.005703279	0.034333338	Il15	Mus musculus interleukin 15 (Il15), mRNA.
-0.66005088	10.49677737	-4.752657674	0.00054896	0.007572153	Gnpda1	
-0.793056231	10.49179201	-5.065704638	0.000330235	0.005442268	2810407C02Rik	
-0.778446192	10.48673272	-3.890702623	0.002378988	0.01941511	Nsdhl	Mus musculus NAD(P) dependent steroid dehydrogenase-like (Nsdhl), mRNA.
-0.326081114	10.48401782	-3.765004015	0.002967816	0.022403758	A930005H10Rik	
-0.546299877	10.48214055	-5.337771846	0.000214713	0.004152099	2310001H17Rik	
-0.330725977	10.47933735	-3.523851401	0.004555263	0.02961958	1110004B13Rik	Mus musculus transmembrane protein 107 (Tmem107), transcript variant 1, mRNA.
-0.40708454	10.4788936	-3.536827534	0.004450883	0.02914762	scl0003960.1_24	
-0.439866963	10.46884043	-3.940457997	0.002180582	0.01832368	Gosr2	Mus musculus golgi SNAP receptor complex member 2 (Gosr2), mRNA.
-0.456048563	10.46444353	-3.957861715	0.002115296	0.018011298	Fads2	
-0.672689304	10.45085827	-3.427172087	0.005416177	0.033190914	B430110C06Rik	
-0.60150593	10.43863276	-3.886563413	0.002396314	0.019516461	BC051083	Mus musculus myotubularin related protein 11 (Mtmr11), mRNA.
-0.810482925	10.42860962	-4.7678237	0.000535441	0.007437263	A330021E22Rik	Mus musculus RIKEN cDNA A330021E22 gene (A330021E22Rik), mRNA.
-1.588815485	10.42650718	-4.565286762	0.000748953	0.009250651	E130013N09Rik	
-0.405233492	10.42515677	-3.408516398	0.005600579	0.033927175	Ube2n	
-0.707617639	10.42492367	-5.279156466	0.000235372	0.004422577	Suox	Mus musculus sulfite oxidase (Suox), mRNA.

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.664670364	10.42071965	-5.153210739	0.000287206	0.004955597	4833426J09Rik	Mus musculus RIKEN cDNA 4833426J09 gene (4833426J09Rik), mRNA.
-0.401301728	10.42049813	-4.125033009	0.001582418	0.014825776	Fbxl5	Mus musculus F-box and leucine-rich repeat protein 5 (Fbxl5), mRNA.
-0.951944187	10.41881789	-5.129713707	0.000298145	0.005085513	1110018K11Rik	
-0.420651835	10.41776985	-3.089299856	0.009961222	0.049483644	Gyk	
-0.439493507	10.41623233	-3.908654022	0.002305334	0.019048538	1110020A09Rik	
-0.848851571	10.4156766	-4.548923269	0.000769723	0.009424267	Mvd	Mus musculus mevalonate (diphospho) decarboxylase (Mvd), mRNA.
-0.978215554	10.4123447	-4.82496081	0.00048757	0.006975344	Gna14	Mus musculus guanine nucleotide binding protein, alpha 14 (Gna14), mRNA.
-0.436457849	10.40976058	-3.110377726	0.009588317	0.048220446	2310008M20Rik	Mus musculus zinc finger, AN1-type domain 1 (Zfand1), mRNA.
-0.532084534	10.40738465	-3.308835565	0.006700164	0.038282793	Gpr155	
-0.348950901	10.40730994	-3.357224768	0.006141293	0.035945467	Pigl	
-1.046858307	10.40566501	-8.081732569	4.88061E-06	0.000344482	Fn3k	
-0.787312531	10.40204316	-9.102357367	1.49733E-06	0.000189003	2210016F16Rik	
-1.7322595	10.40124178	-8.627942805	2.55935E-06	0.000242488	Gm853	Mus musculus gene model 853, (NCBI) (Gm853), mRNA.
-0.581847455	10.40090631	-4.276492823	0.001219993	0.012584369	2700046G09Rik	
-0.48819093	10.39537982	-3.706837331	0.003289361	0.023931101	Ppox	Mus musculus protoporphyrinogen oxidase (Ppox), mRNA.
-0.72384598	10.37675668	-6.81344701	2.48781E-05	0.001020043	Rangnrf	
-0.749981068	10.37100931	-4.189219013	0.001416776	0.013884488	LOC385959	
-0.736457564	10.36602882	-5.337982822	0.000214642	0.004152099	5730402C02Rik	
-0.370058004	10.35830201	-3.098709188	0.00979298	0.048932724	LOC231046	
-0.703906852	10.34956223	-5.362891929	0.000206455	0.00405022	3632451O06Rik	
-0.907270228	10.34205659	-4.159555183	0.001490964	0.014375302	Slc2a2	Mus musculus solute carrier family 2 (facilitated glucose transporter), member 2 (Slc2a2), mRNA.
-0.744400697	10.34131795	-4.744286331	0.000556575	0.007632319	Dpyd	
-0.551109456	10.33608891	-5.154271942	0.000286722	0.004950827	Rmnd1	Mus musculus required for meiotic nuclear division 1 homolog (S. cerevisiae) (Rmnd1), mRNA.
-0.304963205	10.32831075	-3.133820266	0.009190096	0.046899759	Snx16	Mus musculus sorting nexin 16 (Snx16), mRNA.
-0.62037354	10.32089636	-3.325511128	0.006501949	0.037426751	Rmrp1	
-0.707054227	10.32041186	-3.754970854	0.003020875	0.022640435	Plekha6	Mus musculus pleckstrin homology domain containing, family A member 6 (Plekha6), mRNA.
-0.429113588	10.31743421	-3.229813029	0.007726363	0.041931819	Ipp	
-0.546869872	10.31491777	-4.255961439	0.001263568	0.012885698	Bbs7	Mus musculus Bardet-Biedl syndrome 7 (Bbs7), mRNA.
-0.538791999	10.31093103	-3.974692252	0.002054085	0.017631882	Slc9a2	
-0.515680274	10.30779129	-4.133719508	0.001558871	0.014709106	Atp6v0e2	Mus musculus ATPase, H+ transporting, lysosomal V0 subunit E2 (Atp6v0e2), mRNA.
-0.883684266	10.30400423	-3.204428559	0.008088791	0.043268211	2810439F02Rik	Mus musculus RIKEN cDNA 2810439F02 gene (2810439F02Rik), mRNA.
-0.979076509	10.29765333	-5.51529661	0.000163048	0.003434083	2810022L02Rik	Mus musculus RIKEN cDNA 2810022L02 gene (2810022L02Rik), mRNA.
-0.904632095	10.29660827	-4.695324371	0.000603396	0.008017243	1810073H04Rik	

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-0.625895137	10.29531621	-5.130796598	0.000297631	0.005084019	Fkbp11	
-0.930884027	10.29395147	-3.294995547	0.006869334	0.038939625	Depdc1b	
-0.52936984	10.29015468	-4.699982121	0.000598769	0.007986823	Ccdc68	Mus musculus coiled-coil domain containing 68 (Ccdc68), mRNA.
-0.399258611	10.28921025	-4.152732428	0.001508592	0.014487955	Pdir	
-1.065117535	10.28790063	-3.529613299	0.004508608	0.029436092	Aass	
-1.418759173	10.28677508	-4.446690723	0.000913913	0.010515283	A930034L06Rik	Mus musculus RIKEN cDNA A930034L06 gene (A930034L06Rik), mRNA.
-0.738938426	10.2832652	-4.060792132	0.00176846	0.015958365	Entpd5	Mus musculus ectonucleoside triphosphate diphosphohydrolase 5 (Entpd5), transcript variant 2, mRNA.
-0.569385061	10.27840786	-3.115552613	0.009498938	0.047912315	Pet112l	Mus musculus PET112-like (yeast) (Pet112l), mRNA.
-0.459213487	10.27768658	-3.217179339	0.007904637	0.04257786	Car5b	Mus musculus carbonic anhydrase 5b, mitochondrial (Car5b), mRNA.
-0.369610791	10.27485726	-3.721557177	0.00320474	0.023565446	Zfp367	Mus musculus zinc finger protein 367 (Zfp367), mRNA.
-0.319812775	10.27484432	-3.484688454	0.004885751	0.030999382	Becn1	Mus musculus beclin 1 (coiled-coil, myosin-like BCL2-interacting protein) (Becn1), mRNA.
-0.679934413	10.27312731	-5.135773515	0.000295282	0.005065652	Plscr4	
-0.360432969	10.26337148	-3.107053326	0.009646183	0.048439995	Tmem143	Mus musculus transmembrane protein 143 (Tmem143), mRNA.
-0.557585511	10.26095283	-3.892863089	0.002369996	0.019354967	2210039O17Rik	
-0.462352608	10.25889226	-4.136046282	0.001552625	0.014690838	Pik3ca	Mus musculus phosphatidylinositol 3-kinase, catalytic, alpha polypeptide (Pik3ca), mRNA.
-0.444589324	10.25248116	-3.862789842	0.002498384	0.020060206	Ppp3cc	
-0.608293477	10.24898358	-3.184144715	0.008390743	0.044189819	Olfm3	
-0.905230286	10.24058702	-3.857924206	0.002519822	0.020164495	D430022H17Rik	
-0.551464336	10.23937528	-3.323767788	0.006522389	0.037504523	LOC332300	
-0.360299289	10.23834701	-3.384320837	0.005849322	0.034825944	4432416O06Rik	
-0.716068876	10.23831327	-7.321753496	1.26564E-05	0.000657997	LOC383897	
-0.479338166	10.2323999	-3.590920947	0.004041495	0.027297533	Slc35a1	Mus musculus solute carrier family 35 (CMP-sialic acid transporter), member 1 (Slc35a1), mRNA.
-0.615452913	10.23013252	-4.207784757	0.001372308	0.013644743	Paqr9	Mus musculus progestin and adipoQ receptor family member IX (Paqr9), mRNA.
-0.703211628	10.23002046	-3.204251664	0.008091376	0.043268211	Cyp2j9	
-0.297847771	10.22832605	-3.207339042	0.008046377	0.043080449	1110020M19Rik	
-0.360415159	10.22688539	-4.585900415	0.000723621	0.009088596	3830406C13Rik	
-1.380429486	10.22445306	-5.165037228	0.000281861	0.004909524	Fgf1	
-1.171645725	10.22165543	-6.527206447	3.69294E-05	0.001331188	Myo5a	
-1.361377064	10.21728974	-3.430793944	0.005381102	0.033046859	Ube2i	Mus musculus ubiquitin-conjugating enzyme E2I (Ube2i), mRNA.
-1.12218328	10.21696834	-8.281687698	3.83937E-06	0.000305396	Edg7	Mus musculus endothelial differentiation, lysophosphatidic acid G-protein-coupled receptor 7 (Edg7), mRNA.
-0.347895528	10.21346172	-4.222513528	0.001338065	0.013382336	Pdzd11	Mus musculus PDZ domain containing 11 (Pdzd11), mRNA.
-0.445421478	10.21167737	-4.083887646	0.001699088	0.015545826	LOC331511	

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.327055659	10.21069771	-3.228884764	0.007739322	0.041992598	Cyhr1	
-0.418044849	10.20499978	-4.13531303	0.001554591	0.014691958	Als2cr2	
-0.5529302	10.20351402	-3.199630698	0.008159205	0.043460516	B3galt5	Mus musculus UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 5 (B3galt5), mRNA.
-0.372429377	10.20288589	-3.665264306	0.003540998	0.025088728	Ppm1l	
-0.480219402	10.20257115	-3.654632366	0.003608477	0.025383438	Nlrx1	Mus musculus NLR family member X1 (Nlrx1), mRNA.
-0.991919363	10.18464169	-7.144264751	1.59667E-05	0.000768171	C8a	Mus musculus complement component 8, alpha polypeptide (C8a), mRNA.
-1.946257471	10.17932775	-5.084252119	0.000320578	0.00532726	1110069O07Rik	
-0.732214224	10.17871871	-5.303451638	0.000226565	0.004311412	Gpm6a	Mus musculus glycoprotein m6a (Gpm6a), mRNA.
-0.502672595	10.17406847	-3.551479212	0.004335966	0.028677706	Rdh5	
-0.598342571	10.17119599	-4.879143597	0.00044632	0.006578466	Ppil6	
-0.451445169	10.16885986	-3.508337859	0.004683352	0.03013992	2410004H02Rik	Mus musculus aldehyde dehydrogenase 16 family, member A1 (Aldh16a1), mRNA.
-0.48382958	10.1672932	-3.807870154	0.002751726	0.021278174	D7Wsu128e	
-0.911297891	10.16520603	-5.659251939	0.000130858	0.002976794	AI173486	
-0.363410916	10.16236481	-3.334748026	0.006394733	0.037047654	2610111M03Rik	
-0.64862104	10.15989434	-3.281431913	0.007039341	0.039478212	Slc7a8	Mus musculus solute carrier family 7 (cationic amino acid transporter, y+ system), member 8 (Slc7a8), mRNA.
-1.002946773	10.15573823	-3.388481955	0.005805755	0.034687714	Sh3bp2	
-1.411221861	10.15099132	-4.556049836	0.000760604	0.009353099	LOC231462	
-0.528724221	10.13893572	-4.949314432	0.000398283	0.006119917	Stra13	Mus musculus stimulated by retinoic acid 13 (Stra13), mRNA.
-0.500683702	10.1372269	-3.277209791	0.007093129	0.039700553	Car5b	Mus musculus carbonic anhydrase 5b, mitochondrial (Car5b), mRNA.
-0.585698478	10.13543548	-4.795132129	0.000511972	0.007199292	LOC382237	
-1.442249529	10.1333602	-3.346687309	0.006258811	0.036437819	scl0003377.1_167	
-0.44964988	10.13194909	-4.028304258	0.001871058	0.016556916	Tmem8	Mus musculus transmembrane protein 8 (five membrane-spanning domains) (Tmem8), mRNA.
-0.47935962	10.12533165	-3.102639271	0.00972356	0.048706549	Tprkb	Mus musculus Tp53rk binding protein (Tprkb), mRNA.
-0.390979815	10.12525068	-3.194917744	0.008228978	0.043656757	Lig3	
-1.616631345	10.12409644	-5.41944547	0.000189069	0.003804169	Slc22a7	Mus musculus solute carrier family 22 (organic anion transporter), member 7 (Slc22a7), mRNA.
-1.019447725	10.12388856	-3.971139964	0.00206685	0.017703244	scl0003238.1_3	
-0.50649757	10.11906152	-4.051483431	0.001797246	0.016147468	Phtf2	Mus musculus putative homeodomain transcription factor 2 (Phtf2), mRNA.
-0.785988159	10.11607622	-3.950452764	0.002142838	0.01813925	Tcfec	Mus musculus transcription factor EC (Tcfec), mRNA.
-0.613332533	10.11373989	-4.176095868	0.001449111	0.014062679	Slc9a2	
-0.633048621	10.10983309	-4.442639835	0.000920178	0.010531992	4930578F03Rik	
-0.345934704	10.10953827	-3.424687152	0.005440377	0.033262547	LOC215958	
-0.458791654	10.10800008	-3.510727421	0.004663384	0.030068182	Rab17	Mus musculus RAB17, member RAS oncogene family (Rab17), mRNA.
-0.511017576	10.10404232	-3.51548958	0.004623851	0.029892528	E330019C05Rik	

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-1.024829724	10.09874692	-5.109143341	0.000308083	0.005189739	2210011C24Rik	
-0.544575277	10.09647073	-4.940389986	0.000404078	0.006181097	Hoxa9	
-1.082036842	10.09440497	-5.339270792	0.00021421	0.004152099	Daf1	
-1.239406825	10.09137434	-8.900847961	1.87516E-06	0.000207162	Dleu2	
-0.955928291	10.09121328	-4.310037605	0.001152139	0.012117007	Slc39a8	Mus musculus solute carrier family 39 (metal ion transporter), member 8 (Slc39a8), mRNA.
-0.456257037	10.08475573	-3.700072743	0.003329017	0.024123999	Slc25a38	Mus musculus solute carrier family 25, member 38 (Slc25a38), mRNA.
-0.332484674	10.08362821	-3.445070508	0.005245087	0.032493124	Cog2	Mus musculus component of oligomeric golgi complex 2 (Cog2), mRNA.
-0.626718637	10.08170222	-4.860476259	0.000460101	0.006711114	4632408A20Rik	
-0.421164656	10.07832956	-3.555555046	0.004304543	0.028510952	BC057552	Mus musculus cDNA sequence BC057552 (BC057552), mRNA.
-0.586397833	10.07289107	-3.893178654	0.002368686	0.019350888	Abcc5	Mus musculus ATP-binding cassette, sub-family C (CFTR/MRP), member 5 (Abcc5), transcript variant 2, mRNA.
-0.580961174	10.07274578	-4.576566571	0.000734978	0.009144305	Mme	Mus musculus membrane metallo endopeptidase (Mme), mRNA.
-0.779921366	10.07146247	-4.444266019	0.000917657	0.010522832	1300018L09Rik	Mus musculus dihydrodiol dehydrogenase (dimeric) (Dhdh), mRNA.
-0.895508302	10.06982603	-3.113964586	0.009526276	0.048019758	Ubie	
-0.949623453	10.06709208	-8.457188387	3.12113E-06	0.000276648	Uros	
-0.668513758	10.06702352	-4.09765768	0.001659078	0.015291843	Stxbp4	Mus musculus syntaxin binding protein 4 (Stxbp4), mRNA.
-0.871120598	10.06520725	-4.892303985	0.000436866	0.006507762	Pdss1	Mus musculus prenyl (solanesyl) diphosphate synthase, subunit 1 (Pdss1), mRNA.
-0.535518589	10.06016949	-3.427493697	0.005413053	0.033189026	3110052N05Rik	
-0.450770186	10.05948745	-3.31477337	0.006628888	0.037979632	Abcb8	Mus musculus ATP-binding cassette, sub-family B (MDR/TAP), member 8 (Abcb8), mRNA.
-0.668767893	10.05741387	-6.682442123	2.97686E-05	0.001142072	AU022252	Mus musculus expressed sequence AU022252 (AU022252), mRNA.
-0.706608842	10.05691244	-4.525002315	0.000801178	0.009704827	9830166G06Rik	
-1.083770944	10.05266241	-5.199550812	0.000266855	0.004773588	Dnajc19	Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 19 (Dnajc19), transcript variant 2, mRNA.
-0.861481569	10.04659702	-7.051345506	1.80597E-05	0.000816209	Nkiras1	
-1.151580378	10.04181475	-4.691554786	0.000607168	0.008034041	Mogat2	Mus musculus monoacylglycerol O-acyltransferase 2 (Mogat2), mRNA.
-0.330846813	10.03926573	-3.193664837	0.008247628	0.04368771	Tcfl4	Mus musculus MAX-like protein X (Mlx), mRNA.
-0.359292724	10.03622284	-3.963295489	0.00209533	0.017908618	C230095J06Rik	
-2.00513832	10.0359335	-3.868537273	0.002473303	0.019912422	Mthfd1	
-0.304948682	10.03287404	-3.82590982	0.002665706	0.020833461	Ttc8	Mus musculus tetratricopeptide repeat domain 8 (Ttc8), transcript variant 2, mRNA.
-0.358654115	10.03122464	-3.989383433	0.002002156	0.017329503	C920011N12Rik	
-0.591038518	10.02001787	-4.103974926	0.001641052	0.015178456	C8b	Mus musculus complement component 8, beta subunit (C8b), mRNA.
-0.701939865	10.00771932	-3.843310241	0.002585364	0.02048972	LOC384607	
-0.429476177	10.00562368	-3.944928052	0.002163617	0.018237512	A030012M09Rik	
-0.899962518	9.999207897	-5.068632548	0.000328691	0.005424303	9630007J19Rik	
-0.441127603	9.992182908	-3.134573165	0.009177587	0.046865933	Rab17	Mus musculus RAB17, member RAS oncogene family (Rab17), mRNA.

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.529841374	9.986139282	-4.078520772	0.001714952	0.015662863	1200016B10Rik	Mus musculus RIKEN cDNA 1200016B10 gene (1200016B10Rik), mRNA.
-0.814233217	9.985350381	-3.439735796	0.005295496	0.032724926	2810417J12Rik	Mus musculus RIKEN cDNA 2810417J12 gene (2810417J12Rik), mRNA.
-0.646900208	9.98460656	-3.36880419	0.006014744	0.03552719	Rbbp9	
-1.562388616	9.982834399	-8.353279421	3.52694E-06	0.000293252	LOC332942	
-0.76123811	9.980478277	-4.577693225	0.000733597	0.009136653	Pet112l	Mus musculus PET112-like (yeast) (Pet112l), mRNA.
-1.953715499	9.979118206	-3.841395729	0.00259408	0.020534989	Atp10d	Mus musculus ATPase, Class V, type 10D (Atp10d), mRNA.
-0.536175325	9.978662096	-3.742589162	0.003087706	0.022968179	9330129D05Rik	
-0.915967579	9.977443665	-3.201154993	0.008136767	0.0434095	H2-T22	
-0.503544034	9.975600905	-3.618789214	0.00384587	0.026585747	A930026I22Rik	
-1.38836232	9.972099786	-3.999325494	0.001967787	0.017137701	LOC278105	
-0.59318628	9.963681599	-5.019472131	0.000355669	0.005700016	Osbpl8	
-0.71137656	9.963606198	-3.436530901	0.005326017	0.032798645	Snca	
-0.361294826	9.949117019	-3.352438164	0.006194394	0.036158713	Ttc8	Mus musculus tetratricopeptide repeat domain 8 (Ttc8), transcript variant 2, mRNA.
-0.492130696	9.947360027	-4.361274218	0.001056	0.011475105	Homer1	Mus musculus homer homolog 1 (Drosophila) (Homer1), transcript variant d, mRNA.
-0.443629596	9.936198116	-4.067006775	0.001749508	0.015837828	Hoxa9	
-0.725036223	9.933750391	-4.798109699	0.00050948	0.007172694	Ndufab1	
-0.765966908	9.93274854	-3.548834038	0.004356486	0.028759397	Afmid	Mus musculus arylformamidase (Afmid), mRNA.
-0.719092472	9.932100204	-4.532579819	0.000791071	0.009611669	Gtf3a	
-1.040886472	9.922694876	-7.195507993	1.49249E-05	0.000735852	Kif12	Mus musculus kinesin family member 12 (Kif12), mRNA.
-0.436422874	9.913681614	-4.799546903	0.000508281	0.007164273	scl0002007.1_97	
-0.697754417	9.910591193	-5.768409523	0.000110973	0.00269894	Slc33a1	Mus musculus solute carrier family 33 (acetyl-CoA transporter), member 1 (Slc33a1), mRNA.
-1.264429686	9.903771043	-6.220768941	5.70486E-05	0.00172105	Slc6a15	Mus musculus solute carrier family 6 (neurotransmitter transporter), member 15 (Slc6a15), mRNA.
-0.341482225	9.897109671	-3.224952613	0.007794461	0.04218626	Gtf2e2	Mus musculus general transcription factor II E, polypeptide 2 (beta subunit) (Gtf2e2), mRNA.
-0.578236624	9.896554784	-5.130849878	0.000297606	0.005084019	C330018D20Rik	
-0.336793267	9.893152763	-3.600886526	0.003970393	0.027046954	Aifm1	Mus musculus apoptosis-inducing factor, mitochondrion-associated 1 (Aifm1), mRNA.
-0.941375964	9.891316615	-3.708687296	0.0032786	0.023873378	D630011D02Rik	
-0.261802085	9.887837747	-3.160761426	0.008753026	0.045410892	Pkn1	Mus musculus protein kinase N1 (Pkn1), mRNA.
-0.823215103	9.884224581	-4.468593336	0.000880802	0.010254301	Afmid	Mus musculus arylformamidase (Afmid), mRNA.
-0.456884711	9.879217162	-4.653796695	0.000646348	0.008407762	Stk38l	Mus musculus serine/threonine kinase 38 like (Stk38l), mRNA.
-1.219205925	9.876499581	-5.813431062	0.00010373	0.002594661	A830020B06Rik	Mus musculus transmembrane protein 169 (Tmem169), mRNA.
-0.983845018	9.873819831	-3.49144119	0.004827062	0.03071685	Dleu7	Mus musculus deleted in lymphocytic leukemia, 7 (Dleu7), mRNA.
-0.958127625	9.864029166	-4.185040002	0.00142699	0.01393952	Hdhd3	Mus musculus haloacid dehalogenase-like hydrolase domain containing 3 (Hdhd3), mRNA.
-0.524591543	9.862939882	-5.397305646	0.000195683	0.003902504	Siah2	

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-0.909281703	9.862475721	-5.041408484	0.000343353	0.005565737	Rhobtb1	
-0.567048016	9.847230076	-5.177982224	0.000276131	0.004862961	LOC381250	
-0.751715941	9.844508062	-5.088027927	0.000318648	0.005307417	LOC434197	Mus musculus predicted gene, EG434197 (EG434197), mRNA.
-0.396071804	9.839462674	-4.935673661	0.000407176	0.006208589	BC004636	Mus musculus methyltransferase like 8 (Mettl8), mRNA.
-0.483183413	9.838888769	-4.472106313	0.000875609	0.010222435	Rab38	Mus musculus Rab38, member of RAS oncogene family (Rab38), mRNA.
-0.700625589	9.83671006	-4.997102208	0.000368709	0.005837464	E330039G21Rik	
-0.340084351	9.833914112	-3.117499868	0.009465524	0.047763967	Smurf2	
-1.229703709	9.82773572	-3.720706259	0.00320957	0.023580656	LOC381697	
-1.20369638	9.821258802	-4.887866449	0.00044003	0.006542332	LOC381220	
-0.771226187	9.816982166	-5.244259971	0.00024866	0.004567962	Cycs	Mus musculus cytochrome c, somatic (Cycs), mRNA.
-0.277628741	9.81636642	-3.147274079	0.008969143	0.04618702	Gga2	
-0.284466291	9.816000584	-3.42822269	0.005405979	0.03315417	Scgf	
-0.458010181	9.814649261	-3.149934011	0.008926098	0.046043244	5830454E08Rik	
-0.476245945	9.808878545	-5.283349114	0.000233826	0.004403944	Gin1	
-1.026469667	9.801512506	-3.392555706	0.005763423	0.034564604	Lama3	
-0.780079367	9.797501597	-4.452712663	0.000904681	0.010454436	LOC386117	
-0.398595263	9.788090895	-3.189258511	0.008313558	0.043866028	2210403N09Rik	
-0.443738418	9.786011085	-4.190084817	0.001414669	0.013884488	LOC380745	
-0.597893389	9.782584331	-3.763091905	0.002977853	0.022437799	Galc	
-0.432619558	9.780584384	-4.441177257	0.000922451	0.010531992	LOC233899	
-0.276451518	9.78042354	-3.197272053	0.008194048	0.043551641	4733401H18Rik	
-0.876895472	9.773158382	-6.440132272	4.17336E-05	0.001426774	LOC381691	
-1.066579209	9.771224921	-4.903054389	0.0004293	0.006426848	B230339H12Rik	
-0.285008132	9.764316391	-3.661255134	0.00356629	0.025208049	Zfand2b	Mus musculus zinc finger, AN1 type domain 2B (Zfand2b), mRNA.
-0.816082529	9.76403896	-5.088574495	0.00031837	0.005307417	Cpne4	Mus musculus copine IV (Cpne4), mRNA.
-0.841730032	9.763211846	-5.612299251	0.000140544	0.003125639	5730593N15Rik	Mus musculus notum pectinacetylesterase homolog (Drosophila) (Notum), mRNA.
-0.714390312	9.763119432	-3.82158081	0.002686092	0.0209216	Lama1	Mus musculus laminin, alpha 1 (Lama1), mRNA.
-0.992276117	9.762533402	-3.537318898	0.004446979	0.029140648	Aass	
-0.389705631	9.760708269	-3.094822598	0.009862123	0.049172554	Dgkq	Mus musculus diacylglycerol kinase, theta (Dgkq), mRNA.
-0.398288527	9.753323576	-3.541095724	0.004417088	0.029027681	Sall2	
-1.685585963	9.750426401	-9.865223584	6.60878E-07	0.000119474	Shd	Mus musculus src homology 2 domain-containing transforming protein D (Shd), mRNA.
-0.405156565	9.748456159	-3.339468262	0.00634064	0.036832203	LOC241385	
-0.482289294	9.745644177	-5.015049	0.000358208	0.005729168	LOC218805	Mus musculus expressed sequence AA536717 (AA536717), transcript variant 2, mRNA.
-0.571250577	9.743818385	-5.209923395	0.000262512	0.00472067	1700073K01Rik	

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-0.455153497	9.731000648	-3.24274192	0.007548143	0.041378669	Pld1	
-0.52863212	9.725506837	-3.929677568	0.002222066	0.018585758	Insig1	Mus musculus insulin induced gene 1 (Insig1), mRNA.
-0.416585332	9.722168437	-3.759436659	0.002997138	0.022540408	Sgk3	
-2.384828962	9.717212328	-3.903469971	0.002326358	0.019151336	Slc14a2	Mus musculus solute carrier family 14 (urea transporter), member 2 (Slc14a2), transcript variant 1, mRNA.
-0.751365533	9.716333981	-5.841539441	9.94639E-05	0.002533092	Lhx1	
-1.603395392	9.704132863	-3.611406343	0.003896729	0.026813675	scl0001689.1_10	
-0.459899654	9.703006393	-3.313341975	0.006646	0.038068528	D630029K19Rik	
-1.051480129	9.701771966	-4.63849596	0.000662972	0.008560876	Hmgcr	
-0.818299081	9.69867677	-3.815175637	0.002716551	0.021088081	Bnc2	Mus musculus basonuclin 2 (Bnc2), mRNA.
-0.806751268	9.690213497	-5.687740791	0.000125328	0.002909235	Cxcl9	
-1.385626328	9.68836002	-8.079100553	4.89619E-06	0.000344482	Gcgr	Mus musculus glucagon receptor (Gcgr), mRNA.
-1.048700862	9.685625443	-6.409581957	4.35737E-05	0.001464506	Crim2	Mus musculus cysteine rich BMP regulator 2 (chordin like) (Crim2), mRNA.
-0.544784395	9.677893259	-4.129459079	0.001570374	0.01475796	Insig1	Mus musculus insulin induced gene 1 (Insig1), mRNA.
-1.181209095	9.67772291	-4.211749248	0.001363002	0.013586182	Bcat1	
-0.364033483	9.677175599	-3.762626554	0.002980301	0.022449156	Taf12	Mus musculus TAF12 RNA polymerase II, TATA box binding protein (TBP)-associated factor (Taf12), mRNA.
-0.473878166	9.668550876	-3.681501465	0.003440438	0.024632215	scl0002864.1_26	
-0.827052968	9.659322382	-3.653858401	0.003613441	0.025383438	Vill	Mus musculus villin-like (Vill), mRNA.
-0.39339955	9.65836554	-3.60841949	0.0039175	0.026873405	9530008L14Rik	Mus musculus RIKEN cDNA 9530008L14 gene (9530008L14Rik), mRNA.
-0.832825046	9.655671836	-6.51764713	3.74267E-05	0.001338405	AI505012	
-0.889232247	9.655524028	-5.994482483	7.92983E-05	0.002155234	Gprc5c	Mus musculus G protein-coupled receptor, family C, group 5, member C (Gprc5c), mRNA.
-0.988462876	9.655432607	-6.605876223	3.30948E-05	0.001226306	Tpk1	
-0.694198504	9.654475357	-3.358309968	0.006129319	0.035898753	Lrpprc	Mus musculus leucine-rich PPR-motif containing (Lrpprc), mRNA.
-0.951636114	9.652458002	-5.494846035	0.000168263	0.003522152	Zfp101	
-0.587562719	9.651000673	-3.915636433	0.002277326	0.018895631	Ube2u	Mus musculus ubiquitin-conjugating enzyme E2U (putative) (Ube2u), mRNA.
-1.070182454	9.64727632	-7.588817462	8.98636E-06	0.000528181	3830431G21Rik	
-1.884320673	9.646522766	-4.105683858	0.00163621	0.015139545	LOC245580	
-0.352242761	9.645606585	-3.157405024	0.008806311	0.045644004	Mrpl49	Mus musculus mitochondrial ribosomal protein L49 (Mrpl49), mRNA.
-0.299946525	9.636846413	-3.252221504	0.007420126	0.040930758	Zfp787	Mus musculus zinc finger protein 787 (Zfp787), mRNA.
-0.588874165	9.635521897	-3.994646796	0.001983884	0.017209252	5830445O15Rik	
-1.228388317	9.634822722	-7.643809786	8.38323E-06	0.000498876	Slc12a3	
-1.635012589	9.63070188	-4.414319146	0.000965253	0.010824058	B4galt5	
-0.747557139	9.622889032	-5.434970618	0.000184572	0.00374846	LOC382911	
-0.425769114	9.618917948	-3.159370983	0.00877506	0.045501797	BC051083	Mus musculus myotubularin related protein 11 (Mtmr11), mRNA.
-1.074388564	9.618276289	-4.519303926	0.000808868	0.009778122	Slc18a1	

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-0.522064462	9.616419646	-3.286107141	0.006980264	0.039307753	9930032E18Rik	
-0.424771085	9.616387569	-3.556865718	0.004294487	0.02845858	Ankib1	
-0.877567643	9.615111699	-3.230356661	0.007718784	0.04192883	LOC386348	
-0.540182153	9.61456753	-4.071802074	0.001735029	0.015792964	9130230N09Rik	
-1.199348171	9.612592418	-3.192388891	0.008266664	0.043740686	4732441L20Rik	
-0.664099455	9.610515016	-3.360507857	0.00610514	0.035804116	Stxbp4	Mus musculus syntaxin binding protein 4 (Stxbp4), mRNA.
-0.498629818	9.607790442	-5.130167298	0.00029793	0.005085476	Gna12	
-0.619189794	9.604526024	-4.697817504	0.000600915	0.007999375	Fcgr2b	Mus musculus Fc receptor, IgG, low affinity IIb (Fcgr2b), transcript variant 1, mRNA.
-0.421386335	9.602156328	-3.524605416	0.00454913	0.029613202	Tysnd1	
-0.485430671	9.601588231	-4.99679219	0.000368893	0.005837464	Fbxo22	Mus musculus F-box protein 22 (Fbxo22), mRNA.
-0.722987957	9.60108669	-6.522056951	3.71964E-05	0.001334387	Bpnt1	
-0.679636161	9.590268204	-3.393387544	0.005754818	0.034530104	Abhd14a	Mus musculus abhydrolase domain containing 14A (Abhd14a), mRNA.
-1.089900012	9.579917591	-4.097666048	0.001659054	0.015291843	C730027J19Rik	
-0.854508673	9.579671854	-5.021824805	0.000354326	0.00569182	B930008K04Rik	
-0.323912566	9.579648401	-3.342077203	0.006310942	0.036704766	Aabp3-pending	
-0.63407133	9.573303904	-3.32724693	0.006481662	0.037343033	Ing3	Mus musculus inhibitor of growth family, member 3 (Ing3), mRNA.
-0.312136692	9.562801462	-3.168433002	0.008632457	0.045016677	1200016D23Rik	
-0.492952841	9.558803765	-3.78233021	0.002878439	0.021980223	2010005J08Rik	
-0.786562865	9.556915164	-4.67563799	0.000623371	0.008200392	LOC331490	
-0.686337239	9.556596529	-4.29404523	0.001183983	0.012337725	Afmid	Mus musculus arylformamidase (Afmid), mRNA.
-0.468257773	9.556146401	-3.618483432	0.003847963	0.026586783	Tex9	Mus musculus testis expressed gene 9 (Tex9), mRNA.
-1.010466315	9.552888113	-5.772670773	0.000110265	0.002693192	Lrp2	
-0.447549586	9.551648118	-3.187277169	0.008343378	0.043980124	2310042D19Rik	Mus musculus RIKEN cDNA 2310042D19 gene (2310042D19Rik), mRNA.
-1.339044301	9.551337575	-4.741750643	0.000558904	0.007651818	Slc17a3	Mus musculus solute carrier family 17 (sodium phosphate), member 3 (Slc17a3), mRNA.
-0.299097544	9.548010838	-3.136773527	0.009141128	0.046749837	A030012M09Rik	
-0.636657672	9.546026066	-3.694856085	0.003359935	0.024266985	Pak1	
-0.261961512	9.542763043	-3.113369548	0.00953654	0.048061344	D630029K19Rik	
-0.919638732	9.536820082	-4.01879251	0.001902252	0.016719497	Bnc2	Mus musculus basonuclin 2 (Bnc2), mRNA.
-0.962982508	9.531347723	-6.64041257	3.15478E-05	0.001187421	Tceal1	Mus musculus transcription elongation factor A (SII)-like 1 (Tceal1), mRNA.
-0.727316666	9.530674767	-3.912201934	0.002291058	0.018963414	Mtcp1	Mus musculus mature T-cell proliferation 1 (Mtcp1), transcript variant 1, mRNA.
-0.394641123	9.529163813	-3.637970286	0.0037169	0.025934616	C330006K01Rik	
-0.450343403	9.527504221	-3.420099092	0.005485349	0.0334518	Homer1	Mus musculus homer homolog 1 (Drosophila) (Homer1), transcript variant d, mRNA.
-0.527699073	9.527106857	-4.942247824	0.000402864	0.006166485	LOC381534	
-0.358705549	9.519104388	-4.536752788	0.000785562	0.009564213	LOC218805	Mus musculus expressed sequence AA536717 (AA536717), transcript variant 2, mRNA.

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.650559712	9.517591058	-4.640385812	0.000660895	0.008538671	A330021E22Rik	Mus musculus RIKEN cDNA A330021E22 gene (A330021E22Rik), mRNA.
-0.354457766	9.517083629	-3.654329367	0.00361042	0.025383438	4930465J06Rik	
-0.709589241	9.5167879	-4.8849367	0.000442132	0.006551038	Myo7a	
-0.466148945	9.514780198	-3.773821251	0.00292198	0.022178317	Cfl2	
-0.319319095	9.512304579	-3.264946359	0.007251738	0.040258432	3010001K23Rik	Mus musculus transmembrane protein 175 (Tmem175), mRNA.
-0.513627773	9.508858408	-3.332520396	0.006420424	0.037131782	Ren2	
-0.408964542	9.505897405	-3.678726528	0.003457413	0.024726002	Atp2c1	Mus musculus ATPase, Ca++-sequestering (Atp2c1), mRNA. XM_920852 XM_920861 XM_920863 XM_920866 XM_920870 XM_920876 XM_920881
-0.577466711	9.50430243	-3.609117568	0.003912635	0.026868263	4933403G14Rik	Mus musculus RIKEN cDNA 4933403G14 gene (4933403G14Rik), mRNA.
-0.525122992	9.503563751	-4.948726827	0.000398662	0.006121796	Nfia	
-0.455872488	9.50145755	-3.979738737	0.002036091	0.017534644	Slc39a9	
-1.01971672	9.500753527	-3.831957694	0.002637493	0.020703455	4931417G12Rik	Mus musculus RIKEN cDNA 4931417G12 gene (4931417G12Rik), mRNA.
-0.504448536	9.500020482	-5.149946035	0.0002887	0.004971522	Zfp758	Mus musculus zinc finger protein 758 (Zfp758), mRNA.
-0.586012973	9.497697747	-4.391628505	0.001003031	0.011086305	LOC382050	
-0.362715556	9.494767925	-3.501427923	0.004741586	0.030326577	A430005L14Rik	Mus musculus RIKEN cDNA A430005L14 gene (A430005L14Rik), mRNA.
-0.342714156	9.49431447	-3.594902146	0.004012934	0.027199444	1700022C21Rik	Mus musculus RIKEN cDNA 1700022C21 gene (1700022C21Rik), mRNA.
-0.883956456	9.491329866	-3.439414059	0.005298552	0.032728392	4732477G22Rik	
-0.672615719	9.489514647	-3.416519845	0.005520697	0.033602432	D11Ertd636e	Mus musculus DNA segment, Chr 11, ERATO Doi 636, expressed (D11Ertd636e), transcript variant 2, mRNA.
-0.512819215	9.488082459	-3.621250898	0.003829064	0.026507967	Narg2	Mus musculus NMDA receptor-regulated gene 2 (Narg2), mRNA.
-0.756524431	9.487543818	-6.26755415	5.33401E-05	0.0016418	LOC382163	
-0.445706707	9.482068531	-4.015768515	0.001912282	0.0167891	Epb4.1l5	Mus musculus erythrocyte protein band 4.1-like 5 (Epb4.1l5), mRNA.
-0.300313612	9.477705722	-3.197975974	0.008183634	0.043532335	Whdc1	Mus musculus WAS protein homology region 2 domain containing 1 (Whdc1), mRNA.
-0.459172173	9.477153482	-4.094919146	0.001666956	0.015328933	ENPP3	
-0.673502995	9.471478433	-3.514650882	0.004630788	0.029914593	2310009E04Rik	Mus musculus RIKEN cDNA 2310009E04 gene (2310009E04Rik), mRNA.
-0.41414477	9.470216641	-3.398727737	0.005699885	0.034321566	2400006N03Rik	
-0.573409255	9.469364973	-3.245310512	0.007513236	0.041282143	Necap1	Mus musculus NECAP endocytosis associated 1 (Necap1), mRNA.
-0.822644566	9.467441742	-3.167763908	0.008642905	0.045061317	LOC280097	
-0.29934786	9.466145906	-3.185611721	0.008368527	0.044093212	Auh	
-0.553771842	9.461513849	-3.655706489	0.0036016	0.025353827	Rasa2	
-1.669145311	9.454684358	-4.150635036	0.001514055	0.014515827	Prkwnk1	Mus musculus WNK lysine deficient protein kinase 1 (Wnk1), mRNA.
-0.540657606	9.451528568	-3.685884272	0.003413801	0.024522438	LOC245666	
-0.644374175	9.451046967	-3.570864009	0.004188585	0.027997813	4921531D08Rik	
-0.322909679	9.441123489	-3.285269181	0.006990815	0.039310228	6330411E07Rik	
-0.49945313	9.435883907	-3.540970518	0.004418076	0.029027681	Ganc	Mus musculus glucosidase, alpha; neutral C (Ganc), mRNA.
-0.503882433	9.435382181	-4.286432109	0.001199464	0.012477248	Cgref1	

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-0.529374103	9.431677689	-3.844005335	0.002582207	0.020478302	5031400M07Rik	Mus musculus HERPUD family member 2 (Herpud2), mRNA.
-0.908082351	9.430419245	-3.882869067	0.002411887	0.019620676	Bcdo2	
-0.310966127	9.427489301	-4.033161656	0.001855334	0.01649929	4430402I18Rik	
-1.261257757	9.424739798	-3.177124268	0.00849789	0.044529017	LOC384538	
-1.008248691	9.42278085	-6.084070437	6.95468E-05	0.001966345	2010016B19Rik	
-0.570006898	9.421817376	-6.32772718	4.8944E-05	0.001572228	LOC380637	
-0.424179101	9.411669983	-3.878524731	0.002430336	0.019732936	Endog	Mus musculus endonuclease G (Endog), mRNA.
-0.44738337	9.404808686	-4.520131113	0.000807747	0.009769519	Zfp213	Mus musculus zinc finger protein 213 (Zfp213), mRNA.
-0.59254571	9.402785454	-4.358223874	0.001061482	0.01151894	P2ry1	Mus musculus purinergic receptor P2Y, G-protein coupled 1 (P2ry1), mRNA.
-1.749448545	9.402276057	-3.22836937	0.007746527	0.042012583	AW822252	
-1.52595035	9.399251191	-3.604322887	0.003946174	0.026982105	D630005B22Rik	Mus musculus RIKEN cDNA D630005B22 gene (D630005B22Rik), mRNA.
-0.347005139	9.399215353	-3.337558371	0.006362471	0.036909741	Srfbp1	Mus musculus serum response factor binding protein 1 (Srfbp1), mRNA.
-0.52766374	9.399066534	-4.209182067	0.001369021	0.01362341	Brap	
-0.599399936	9.398642862	-3.399363156	0.005693385	0.034299733	Als2cr4	Mus musculus amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 4 (Als2cr4), transcript variant 2, mRNA. XM_909142 XM_921139 XM_921149 XM_921172 XM_921181
-0.872844407	9.398156166	-3.170818929	0.008595302	0.044842521	5530401P20Rik	
-0.333514535	9.39582368	-4.482683495	0.000860167	0.010148142	Pdzk6	
-0.866387041	9.395512059	-3.194654337	0.008232895	0.04365833	Hsd3b2	Mus musculus hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 2 (Hsd3b2), mRNA.
-0.773850439	9.388797301	-3.444458323	0.005250847	0.032520363	1810005K13Rik	
-1.584895162	9.383693174	-4.581745093	0.000728654	0.0091227	Slc12a1	
-0.690769222	9.369569654	-8.594797165	2.65924E-06	0.000248853	BC035522	
-0.802229321	9.362649265	-4.064418619	0.001757375	0.015896982	5730593N15Rik	
-1.225774345	9.361434777	-4.584653264	0.000725127	0.009088769	Mogat2	Mus musculus monoacylglycerol O-acyltransferase 2 (Mogat2), mRNA.
-0.474101393	9.360955656	-5.854951356	9.74945E-05	0.002511202	A730091E08Rik	
-0.783948403	9.360930776	-3.593545814	0.004022641	0.027231852	Gjb2	Mus musculus gap junction membrane channel protein beta 2 (Gjb2), mRNA.
-0.71988966	9.359790506	-6.08483475	6.94693E-05	0.001966345	3110057O12Rik	Mus musculus RIKEN cDNA 3110057O12 gene (3110057O12Rik), mRNA.
-0.408876957	9.358793217	-3.145952903	0.008990601	0.046249556	BC023181	
-0.628955959	9.356694219	-3.776872393	0.00290629	0.022129161	Arhgef19	Mus musculus Rho guanine nucleotide exchange factor (GEF) 19 (Arhgef19), mRNA.
-1.106714377	9.353381006	-3.416442915	0.005521459	0.033602432	C630028N24Rik	
-0.621625535	9.340401826	-4.003378686	0.001953952	0.017042085	Zfp191	
-0.374779407	9.338717869	-3.316593729	0.006607192	0.03789609	Parp16	Mus musculus poly (ADP-ribose) polymerase family, member 16 (Parp16), mRNA.
-0.678244146	9.336565377	-5.115295749	0.000305074	0.005149132	Syp	Mus musculus synaptophysin (Syp), mRNA.
-1.148308957	9.330981674	-5.528702279	0.000159723	0.003397029	6330444G18Rik	
-0.65415855	9.329272858	-3.564571423	0.004235855	0.028187454	Pkp4	

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.530324601	9.325940146	-3.542568517	0.004405488	0.028968904	Cdadc1	
-0.653251546	9.323656142	-3.443425359	0.00526058	0.032555296	Sall3	
-0.431483671	9.318811319	-4.086658267	0.001690958	0.015495902	Tdrd3	Mus musculus tudor domain containing 3 (Tdrd3), mRNA.
-1.174232945	9.318253764	-7.260823388	1.37013E-05	0.000693704	Slc4a9	
-0.627780337	9.316942308	-4.156086936	0.001499898	0.014414849	Cdadc1	
-0.536255085	9.314106106	-3.773629548	0.002922969	0.022178317	LOC382114	
-0.706393926	9.307417179	-3.304858598	0.006748337	0.038470034	Dusp23	Mus musculus dual specificity phosphatase 23 (Dusp23), mRNA.
-0.35095713	9.298401079	-3.306415639	0.006729435	0.038371445	Mrpl51	Mus musculus mitochondrial ribosomal protein L51 (Mrpl51), mRNA.
-0.954626431	9.297614266	-3.764846534	0.002968641	0.022403758	Slc26a1	Mus musculus solute carrier family 26 (sulfate transporter), member 1 (Slc26a1), mRNA.
-0.539402695	9.294902868	-5.480251955	0.000172092	0.003589712	A130092J06Rik	Mus musculus RIKEN cDNA A130092J06 gene (A130092J06Rik), mRNA.
-0.654423015	9.29004342	-3.238175171	0.007610613	0.041581516	Slc25a13	
-1.213998076	9.285867964	-4.733683659	0.00056638	0.007708669	4933437K13Rik	
-0.756202382	9.280686203	-6.777161005	2.61402E-05	0.001059055	Chrd	Mus musculus chordin (Chrd), mRNA.
-0.998116006	9.275434	-7.097499033	1.69856E-05	0.000794759	3110057O12Rik	Mus musculus RIKEN cDNA 3110057O12 gene (3110057O12Rik), mRNA.
-0.859243606	9.274879787	-3.524133535	0.004552967	0.02961958	Fv1	
-0.9746513	9.269442226	-6.073149518	7.0664E-05	0.001988508	Ovol1	Mus musculus OVO homolog-like 1 (Drosophila) (Ovol1), mRNA.
-1.057423138	9.26597412	-4.450123894	0.000908638	0.010464683	9430098E02Rik	
-0.768774046	9.262936346	-4.995650313	0.000369572	0.005844339	Mmp13	Mus musculus matrix metallopeptidase 13 (Mmp13), mRNA.
-0.467987596	9.260802745	-3.482415822	0.004905667	0.031092675	Parc	
-0.803531123	9.258859033	-5.107203119	0.000309038	0.005193363	Gp2	Mus musculus glycoprotein 2 (zymogen granule membrane) (Gp2), mRNA.
-1.517012357	9.248489928	-4.667520485	0.000631809	0.008285915	5730521E12Rik	Mus musculus nephrocan (Nepn), mRNA.
-1.180289909	9.243216451	-3.145460986	0.008998603	0.046278809	0610006L08Rik	
-0.551097215	9.24223553	-3.289535015	0.006937269	0.039200581	Dst	
-0.673790166	9.225110512	-3.980741361	0.002032536	0.017522546	D430007J11Rik	
-0.76319878	9.223681333	-3.805609939	0.002762704	0.021328505	2310002B06Rik	Mus musculus RIKEN cDNA 2310002B06 gene (2310002B06Rik), mRNA.
-1.246204832	9.217728549	-4.118343875	0.001600804	0.014945121	Rpl3l	Mus musculus ribosomal protein L3-like (Rpl3l), mRNA.
-1.029865055	9.217267426	-4.007301951	0.001940656	0.016972661	Car14	
-0.736713531	9.210168982	-3.333959084	0.00640382	0.037081862	Glis1	
-0.768272237	9.210031666	-4.072480951	0.00173299	0.015784097	Chst3	Mus musculus carbohydrate (chondroitin 6/keratan) sulfotransferase 3 (Chst3), mRNA.
-0.685679592	9.208270788	-3.341886675	0.006313106	0.036708005	Afmid	Mus musculus arylformamidase (Afmid), mRNA.
-0.887876706	9.207399599	-5.852033108	9.79194E-05	0.002515233	Slc2a13	Mus musculus solute carrier family 2 (facilitated glucose transporter), member 13 (Slc2a13), mRNA.
-0.35929116	9.198982108	-3.766030889	0.00296244	0.022399461	Slc9a6	
-0.684049393	9.195384426	-3.698029726	0.00334109	0.024184708	Sunc1	Mus musculus Sad1 and UNC84 domain containing 1 (Sunc1), mRNA.
-0.744150435	9.195222495	-3.845816401	0.002574	0.020434876	D5Ertd135e	

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.320900822	9.192477901	-3.29026105	0.006928197	0.03918226	Stk16	Mus musculus serine/threonine kinase 16 (Stk16), mRNA.
-0.36306484	9.190986453	-3.397729438	0.005710114	0.034365812	Adal	Mus musculus adenosine deaminase-like (Adal), mRNA. XM_900859 XM_900862 XM_917792 XM_925262 XM_925265 XM_925269 XM_925272 XM_925275 XM_986097 XM_986134 XM_986169 XM_986201 XM_986236 XM_986298
-0.677242628	9.190238873	-6.058461127	7.21968E-05	0.002022105	Uros	
-0.372117429	9.188855369	-4.432746344	0.000935669	0.010617377	Stra13	Mus musculus stimulated by retinoic acid 13 (Stra13), mRNA.
-0.399283982	9.187358555	-4.033422845	0.001854492	0.01649929	6620401M08Rik	
-0.304625815	9.185610765	-3.098234659	0.009801395	0.04895159	Abcb8	Mus musculus ATP-binding cassette, sub-family B (MDR/TAP), member 8 (Abcb8), mRNA.
-0.460406233	9.185446772	-3.579581927	0.004123987	0.027653412	Slc22a17	
-0.64576682	9.182784389	-3.602853563	0.003956511	0.026990914	Ybx2	
-0.650204788	9.18252805	-3.711741953	0.003260912	0.023791997	LOC381345	
-0.650712289	9.175486945	-3.127405162	0.009297381	0.047204979	Sema4g	Mus musculus sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4G (Sema4g), mRNA.
-0.569304203	9.172968049	-3.200932565	0.008140038	0.0434095	Myh14	
-0.558866346	9.172712296	-3.828466486	0.002653742	0.020776325	3110023E09Rik	
-1.647158132	9.171630947	-5.270719193	0.000238514	0.004443142	Eme2	
-1.329133007	9.171175732	-4.953514019	0.000395587	0.006091655	A830089I03Rik	
-0.411162627	9.168881917	-3.507918279	0.004686867	0.030146281	1700027J05Rik	
-0.456404296	9.16863739	-5.442912692	0.000182316	0.003721639	1700020C11Rik	
-0.76939643	9.168240078	-4.623568237	0.000679623	0.008728662	Irf5	Mus musculus interferon regulatory factor 5 (Irf5), mRNA.
-0.570222088	9.162064502	-3.503278282	0.004725919	0.03028687	Abcd4	Mus musculus ATP-binding cassette, sub-family D (ALD), member 4 (Abcd4), mRNA.
-0.741519382	9.155984871	-3.776424906	0.002908585	0.022130855	Espn	
-0.670985124	9.155521332	-4.086813888	0.001690502	0.015495902	Clic3	Mus musculus chloride intracellular channel 3 (Clic3), mRNA.
-0.724600861	9.154198062	-6.602073875	3.327E-05	0.001227082	4430402O11Rik	Mus musculus nuclear prelamin A recognition factor (Narf), mRNA.
-0.438747585	9.153834989	-3.244257399	0.007527528	0.04131311	scl0002312.1_1	
-0.401413132	9.152722027	-4.219326435	0.001345399	0.013450042	Fbs1	
-0.7668316	9.146204676	-6.573887824	3.46001E-05	0.001260553	Adhfe1	Mus musculus alcohol dehydrogenase, iron containing, 1 (Adhfe1), mRNA.
-0.450761258	9.143332158	-3.660881461	0.003568657	0.025209844	D630004G21Rik	
-0.705357134	9.142496496	-4.585928159	0.000723587	0.009088596	4833409A17Rik	
-0.323281572	9.141887406	-4.136808435	0.001550585	0.014682591	2610529C04Rik	Mus musculus RIKEN cDNA 2610529C04 gene (2610529C04Rik), mRNA.
-0.711721318	9.141170647	-3.451390567	0.005186002	0.032244283	Trim63	Mus musculus tripartite motif-containing 63 (Trim63), mRNA.
-0.716868785	9.137301423	-3.390475132	0.005785003	0.03463142	LOC385985	
-1.159606378	9.137260871	-3.493513713	0.004809195	0.030627652	Srd5a2	
-0.567288168	9.137120155	-3.628690668	0.00377873	0.026258544	A330084E23Rik	
-0.279301883	9.135795899	-3.120363158	0.009416606	0.04762791	Sfmbt1	Mus musculus Scm-like with four mbt domains 1 (Sfmbt1), mRNA.
-0.730897209	9.133416229	-6.52529829	3.70281E-05	0.001332733	Myom2	

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-0.511048237	9.133258678	-4.116637394	0.001605529	0.014965917	A530092L01Rik	
-0.361391313	9.132715728	-3.31887791	0.00658007	0.037763401	Herc1	
-0.836738388	9.12713958	-6.242314888	5.53077E-05	0.001683429	Trpm6	Mus musculus transient receptor potential cation channel, subfamily M, member 6 (Trpm6), mRNA.
-0.274454825	9.125513581	-3.236637597	0.007631764	0.041596378	Rnf135	Mus musculus ring finger protein 135 (Rnf135), mRNA.
-0.320700712	9.125111258	-3.341371618	0.00631896	0.036715203	Crbn	
-0.374596712	9.124787887	-3.13536868	0.009164389	0.04682534	2210410D02Rik	
-0.462858769	9.121076322	-3.584434853	0.004088472	0.027490338	C230081G24Rik	
-0.456197288	9.120316245	-3.5972776	0.003995992	0.02714925	Lamc3	Mus musculus laminin gamma 3 (Lamc3), mRNA.
-1.130135115	9.116546132	-4.129416032	0.001570491	0.01475796	Slc17a3	Mus musculus solute carrier family 17 (sodium phosphate), member 3 (Slc17a3), mRNA.
-0.619509125	9.115622465	-5.173981826	0.000277888	0.004878443	LOC385256	
-0.473015663	9.114060295	-3.19465176	0.008232933	0.04365833	Stk32b	Mus musculus serine/threonine kinase 32B (Stk32b), mRNA.
-0.424970114	9.101197074	-3.298290529	0.006828669	0.038798221	Plekha7	Mus musculus pleckstrin homology domain containing, family A member 7 (Plekha7), mRNA.
-0.435195094	9.096845695	-3.464625649	0.005064463	0.031745014	Pdzx	Mus musculus PDZ domain containing, X chromosome (Pdzx), mRNA.
-0.314631486	9.091339113	-3.810283999	0.002740052	0.021214699	Yod1	Mus musculus YOD1 OTU deubiquitinating enzyme 1 homologue (S. cerevisiae) (Yod1), mRNA.
-0.333180372	9.090221738	-3.694647898	0.003361175	0.024268596	Armc6	
-0.429964235	9.084317382	-3.392099364	0.005768149	0.034582923	Fpgs	Mus musculus folylpolyglutamyl synthetase (Fpgs), mRNA.
-1.016018665	9.08353801	-4.724164135	0.000575338	0.007776522	BC031901	Mus musculus cDNA sequence BC031901 (BC031901), mRNA.
-0.520898928	9.080832475	-4.251508437	0.001273232	0.012934495	5730537D05Rik	Mus musculus transmembrane protein 144 (Tmem144), mRNA.
-0.355449474	9.077279521	-3.78454769	0.002867203	0.021915457	Mrps22	
-0.328428748	9.072995947	-3.753517687	0.003028641	0.022684386	2810022L02Rik	Mus musculus RIKEN cDNA 2810022L02 gene (2810022L02Rik), mRNA.
-0.647986795	9.069281627	-3.591798316	0.004035183	0.027280808	Arhgap8	Mus musculus Rho GTPase activating protein 8 (Arhgap8), mRNA.
-0.481369287	9.06487861	-4.914588668	0.000421336	0.00635948	Sephs1	Mus musculus selenophosphate synthetase 1 (Sephs1), mRNA.
-0.646982767	9.064448358	-4.196450234	0.00139928	0.013775173	Map2k6	Mus musculus mitogen activated protein kinase kinase 6 (Map2k6), mRNA.
-0.977859091	9.063790369	-5.33341417	0.000216181	0.004171081	Gpr137b	Mus musculus G protein-coupled receptor 137B (Gpr137b), mRNA.
-0.685338862	9.060966382	-3.689743787	0.003390521	0.024428742	Slc19a3	
-1.499468264	9.059428155	-3.092992322	0.009894854	0.049258089	Pik3c2g	
-0.7529782	9.041167342	-6.309730997	5.02168E-05	0.001591775	Lypla1	Mus musculus lysophospholipase 1 (Lypla1), mRNA.
-0.687756074	9.036659427	-5.365633038	0.000205574	0.004047536	LOC386146	
-0.682051495	9.036403953	-5.277634462	0.000235935	0.004424389	LOC385274	
-0.895211192	9.035152516	-4.852516855	0.000466112	0.006769829	A930021K20Rik	
-0.409232539	9.033353597	-3.320801094	0.006557323	0.037668081	Ppp1r1b	Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 1B (Ppp1r1b), mRNA.
-0.486241503	9.028515192	-3.297115271	0.006843145	0.038852719	Plod3	

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-0.358662564	9.024941057	-4.201085859	0.001388183	0.013740378	4632433K11Rik	
-0.337593305	9.023355752	-4.140519333	0.001540692	0.014649361	Prmt6	Mus musculus protein arginine N-methyltransferase 6 (Prmt6), mRNA.
-1.013432234	9.020267986	-5.107338098	0.000308971	0.005193363	Gys2	Mus musculus glycogen synthase 2 (Gys2), mRNA.
-0.512791908	9.014054086	-3.771836407	0.002932234	0.022220356	Rab3il1	
-0.643130125	9.013355169	-6.425918225	4.25792E-05	0.00144599	Frs3	
-0.467441253	9.001135955	-3.122552044	0.009379383	0.04747394	Gusb	Mus musculus glucuronidase, beta (Gusb), mRNA.
-0.555625819	8.998944611	-4.755476835	0.00054642	0.007554585	Nr1h3	
-1.205972019	8.990335536	-10.27311126	4.35692E-07	9.20081E-05	Oxgr1	Mus musculus oxoglutarate (alpha-ketoglutarate) receptor 1 (Oxgr1), mRNA.
-0.381393706	8.988503309	-3.154227219	0.008857063	0.045809108	1110020N13Rik	
-0.487997442	8.978645852	-3.275667977	0.007112875	0.039769102	1110028A07Rik	Mus musculus RIKEN cDNA 1110028A07 gene (1110028A07Rik), mRNA.
-0.360837542	8.974879068	-3.311027732	0.006673759	0.03817051	ORF5	
-0.740871703	8.971838469	-6.595953199	3.35541E-05	0.001234864	Adhfe1	
-0.247694583	8.968987734	-3.358950972	0.006122257	0.03586924	Snx25	Mus musculus sorting nexin 25 (Snx25), mRNA.
-0.506441184	8.962230334	-3.663447503	0.003552436	0.025138701	Vpreb1	Mus musculus pre-B lymphocyte gene 1 (Vpreb1), mRNA.
-0.974650137	8.957415458	-3.300311134	0.006803853	0.038694074	Siat8a	
-0.444053222	8.954931491	-3.93794848	0.002190167	0.018370458	Rad23a	Mus musculus RAD23a homolog (S. cerevisiae) (Rad23a), mRNA.
-0.47361972	8.950918075	-5.829218137	0.00010131	0.002552874	Gpr180	Mus musculus G protein-coupled receptor 180 (Gpr180), mRNA.
-0.315243959	8.950391215	-3.136419731	0.009146981	0.046759725	Bcl7c	
-0.531128712	8.9501269	-4.273345042	0.001226571	0.012632568	Ing1l	Mus musculus inhibitor of growth family, member 2 (Ing2), mRNA.
-0.359613614	8.94856855	-3.522591946	0.004565527	0.029653555	5730455P16Rik	
-0.356076564	8.944515847	-3.56750852	0.004213724	0.028097024	Khdrbs3	
-0.356456733	8.940194681	-3.661300088	0.003566005	0.025208049	MGC67181	
-0.59303045	8.937214774	-3.481771781	0.004911325	0.031112015	1700028J19Rik	
-0.683244983	8.931572905	-5.08137582	0.000322056	0.00533325	Cmah	
-0.644092844	8.930334624	-3.591506748	0.004037279	0.027284506	Rhpn1	
-0.640016283	8.928086847	-3.227373894	0.007760461	0.042069035	Osbpl8	
-1.245089345	8.922566409	-11.08680198	1.97357E-07	5.4762E-05	Slc9a8	Mus musculus solute carrier family 9 (sodium/hydrogen exchanger), member 8 (Slc9a8), transcript variant 1, mRNA.
-1.113170171	8.922249424	-10.23168368	4.54241E-07	9.4257E-05	Hs6st2	
-0.447994956	8.912985166	-5.605139568	0.000142087	0.003142377	Rad23a	Mus musculus RAD23a homolog (S. cerevisiae) (Rad23a), mRNA.
-0.483089574	8.91259333	-3.22500394	0.007793739	0.04218626	Cenpj	
-0.651666779	8.903349148	-4.760736313	0.000541714	0.007498217	D5Ertd135e	Mus musculus DNA segment, Chr 5, ERATO Doi 135, expressed (D5Ertd135e), mRNA.
-0.49585431	8.90126806	-4.108345078	0.001628701	0.015110885	Wdr37	Mus musculus WD repeat domain 37 (Wdr37), transcript variant 2, mRNA.
-0.715987825	8.897946147	-4.22935364	0.001322467	0.013277272	D330038K10Rik	
-0.574302436	8.895813166	-3.774747026	0.00291721	0.022176931	LOC382117	

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-0.725214155	8.886530991	-3.15457965	0.008851419	0.045808159	C330008L01Rik	
-0.480260535	8.885603799	-3.668757465	0.003519112	0.025019933	Rnf135	Mus musculus ring finger protein 135 (Rnf135), mRNA.
-0.315972993	8.871870924	-3.913376432	0.002286353	0.018937602	Ftsj	Mus musculus FtsJ homolog 1 (E. coli) (Ftsj1), mRNA.
-0.643929	8.871447941	-3.532905788	0.004482169	0.029319475	2010204K13Rik	
-0.652308049	8.870814275	-5.792061427	0.000107103	0.002651355	Emx1	
-1.543385679	8.870310343	-12.21646212	7.10537E-08	3.21374E-05	4732465J04Rik	
-0.318409477	8.868247866	-3.149773427	0.008928691	0.046043244	Mthfs	Mus musculus 5, 10-methenyltetrahydrofolate synthetase (Mthfs), mRNA.
-0.748572463	8.861688631	-4.151708571	0.001511256	0.014500553	Chst3	Mus musculus carbohydrate (chondroitin 6/keratan) sulfotransferase 3 (Chst3), mRNA.
-0.573420168	8.861014694	-3.251951426	0.007423742	0.040941244	Cep63	Mus musculus centrosomal protein 63 (Cep63), mRNA.
-0.640050528	8.859158091	-6.138911454	6.42139E-05	0.001859633	6330575B07Rik	
-0.90950813	8.857670771	-6.082273866	6.97293E-05	0.001966844	Dnajc12	Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 12 (Dnajc12), mRNA.
-0.723107021	8.854550946	-3.087180005	0.009999526	0.049619191	9330188B09Rik	
-0.801236148	8.854087947	-5.839101237	9.98265E-05	0.00253691	Tceal1	Mus musculus transcription elongation factor A (SII)-like 1 (Tceal1), mRNA.
-0.677315235	8.847706426	-3.141820362	0.009058055	0.046454412	Cct6b	Mus musculus chaperonin subunit 6b (zeta) (Cct6b), mRNA.
-1.285755672	8.84275307	-4.264541185	0.001245165	0.01276896	Adra1a, GPCR	
-0.43047063	8.839337242	-4.417333787	0.000960347	0.010801377	1700073K01Rik	
-0.516864841	8.837970142	-3.528447468	0.004518008	0.029465218	B830017H08Rik	
-0.28663449	8.834628944	-3.404246176	0.005643682	0.034086352	Ccdc9	Mus musculus coiled-coil domain containing 9 (Ccdc9), mRNA.
-0.56961854	8.834295254	-4.143816894	0.001531955	0.014627878	9430063L05Rik	
-1.242761905	8.831420064	-5.243282041	0.000249044	0.004567977	Nphs2	
-0.546914526	8.830444662	-3.239912699	0.007586783	0.041514197	Edem1	
-0.304607021	8.830171978	-3.522166764	0.004568997	0.029667664	Stxbp5l	Mus musculus syntaxin binding protein 5-like (Stxbp5l), mRNA.
-0.572067944	8.824872271	-3.426173243	0.005425891	0.033216533	Ppp1r10	Mus musculus protein phosphatase 1, regulatory subunit 10 (Ppp1r10), mRNA.
-0.467808314	8.8205854	-3.150125558	0.008923006	0.046043244	BC023151	
-0.314218666	8.816871232	-3.710229559	0.003269658	0.023824742	A430005L14Rik	Mus musculus RIKEN cDNA A430005L14 gene (A430005L14Rik), mRNA.
-0.57560645	8.796094437	-3.100130936	0.009767809	0.048853207	BC028975	Mus musculus WD repeat domain 78 (Wdr78), mRNA.
-0.308714695	8.793571151	-3.282975742	0.007019777	0.039450217	4631434O19Rik	
-0.742114859	8.790655462	-5.474220662	0.000173701	0.003606439	Fgfr3	
-0.87226995	8.789658249	-3.187612882	0.008338318	0.043964649	Slc12a3	
-0.814580798	8.78837416	-3.247550106	0.007482933	0.041153546	Slc9a8	Mus musculus solute carrier family 9 (sodium/hydrogen exchanger), member 8 (Slc9a8), transcript variant 1, mRNA.
-0.394908553	8.788348602	-3.399219138	0.005694858	0.034299946	LOC330553	
-0.574706635	8.786599616	-3.543796927	0.004395836	0.028932722	Glb1	
-0.326936012	8.78360201	-3.302486772	0.006777235	0.038607102	Dpm1	
-0.363822168	8.782863199	-4.280263258	0.001212163	0.012556167	Sap18	

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-0.522438056	8.782439292	-3.734363881	0.003132942	0.023195287	Opa1	
-0.438732992	8.781019447	-4.144961998	0.001528934	0.014623225	2810404O06Rik	
-0.272782514	8.78084692	-3.127806888	0.009290626	0.047180719	Mmp1a	Mus musculus matrix metallopeptidase 1a (interstitial collagenase) (Mmp1a), mRNA.
-0.333618354	8.779716081	-3.535982332	0.004457607	0.029182954	C230096C10Rik	
-0.406470501	8.779076373	-3.994519074	0.001984325	0.017209252	A530043H16Rik	
-1.287722453	8.778898587	-6.828537398	2.43725E-05	0.00100276	1110011D13Rik	Mus musculus hedgehog acyltransferase-like (Hhatl), mRNA.
-0.372651213	8.778802989	-3.382096876	0.005872744	0.034913128	Btbd14b	Mus musculus BTB (POZ) domain containing 14B (Btbd14b), mRNA.
-0.964846988	8.77679472	-3.124713106	0.009342778	0.047354866	Bdnf	Mus musculus brain derived neurotrophic factor (Bdnf), transcript variant 3, mRNA.
-0.964549414	8.772435621	-3.374155829	0.005957159	0.035309409	Itih1	
-0.527823566	8.77238185	-3.751209361	0.003041019	0.022752073	Tmem25	Mus musculus transmembrane protein 25 (Tmem25), mRNA.
-0.257316318	8.767324118	-3.268376817	0.007207011	0.040070108	Frg1	Mus musculus FSHD region gene 1 (Frg1), mRNA.
-0.467779217	8.76293902	-3.932879569	0.00220966	0.018514437	Pdir	
-0.404145577	8.755582415	-3.162532737	0.008725037	0.045360689	Ttc19	Mus musculus tetratricopeptide repeat domain 19 (Ttc19), transcript variant 2, mRNA.
-0.845368504	8.755133893	-3.837772252	0.002610659	0.02058763	Lrp2	Mus musculus low density lipoprotein receptor-related protein 2 (Lrp2), mRNA.
-0.310068121	8.751480589	-3.14471065	0.009010824	0.046301744	4930432O21Rik	Mus musculus RIKEN cDNA 4930432O21 gene (4930432O21Rik), mRNA.
-0.431091506	8.75053393	-5.171329346	0.00027906	0.004878443	Pgm3	Mus musculus phosphoglucomutase 3 (Pgm3), mRNA.
-0.373859437	8.749872072	-3.434179061	0.005348529	0.032903312	B230308N11Rik	
-0.341154397	8.746600564	-4.16520025	0.00147654	0.014253513	Btrc	
-0.50373028	8.744371407	-4.037775443	0.001840525	0.016437292	Ddn	
-0.395668468	8.74218226	-3.36991451	0.006002751	0.035500282	Ceacam1	
-0.53755442	8.741636256	-3.092171269	0.009909573	0.049306119	6530404N21Rik	
-0.666806175	8.741279148	-5.10288426	0.000311176	0.005225604	Tmem25	Mus musculus transmembrane protein 25 (Tmem25), mRNA.
-0.266737186	8.737601811	-3.208460287	0.008030097	0.043012842	Psmf1	Mus musculus proteasome (prosome, macropain) inhibitor subunit 1 (Psmf1), transcript variant 2, mRNA.
-0.479562529	8.735747832	-4.612053376	0.000692767	0.008830934	Tex9	Mus musculus testis expressed gene 9 (Tex9), mRNA.
-0.397079434	8.734766125	-3.639371559	0.003707654	0.02588524	Fthfd	Mus musculus aldehyde dehydrogenase 1 family, member L1 (Aldh1l1), mRNA.
-0.789900993	8.732439566	-6.110969826	6.68744E-05	0.001913459	2610302F08Rik	
-0.40489741	8.729864374	-3.893720437	0.002366437	0.019339143	Efcab2	Mus musculus EF-hand calcium binding domain 2 (Efcab2), mRNA.
-0.404198317	8.723861363	-4.056372565	0.001782066	0.01605946	9430043O10Rik	
-0.496739327	8.723798822	-3.14621521	0.008986336	0.046245621	2610301F02Rik	Mus musculus RIKEN cDNA 2610301F02 gene (2610301F02Rik), mRNA. XM_896676 XM_896697 XM_896711 XM_896724 XM_912240 XM_922274 XM_922277 XM_922280 XM_922286 XM_922295 XM_922299 XM_922303 XM_922309
-0.566647923	8.723528907	-3.274199089	0.007131738	0.039827914	BC013491	
-0.590948777	8.72110278	-5.466603687	0.000175757	0.003631239	EG624866	Mus musculus predicted gene, EG624866 (EG624866), mRNA.
-0.725119975	8.718765775	-3.742290887	0.003089334	0.022973132	Trpc1	
-0.513863402	8.713008945	-4.442425804	0.00092051	0.010531992	Epb4.1l5	Mus musculus erythrocyte protein band 4.1-like 5 (Epb4.1l5), mRNA.

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-0.756314045	8.710217786	-4.188951004	0.001417428	0.013884488	D230040N21Rik	
-0.350715367	8.710203083	-3.749444148	0.003050519	0.022812456	Mfsd7	Mus musculus major facilitator superfamily domain containing 7 (Mfsd7), mRNA.
-0.649992933	8.708544698	-3.797387568	0.002803023	0.021529686	Tdrd3	Mus musculus tudor domain containing 3 (Tdrd3), mRNA.
-0.423820478	8.702506309	-4.739309293	0.000561155	0.007663294	A430107P09Rik	Mus musculus RIKEN cDNA A430107P09 gene (A430107P09Rik), mRNA.
-0.459400329	8.697689803	-3.192310348	0.008267838	0.043740686	Nr3c1	
-0.581163703	8.69689515	-4.855329085	0.000463979	0.006747058	Villp	
-0.33392414	8.690919073	-3.274530104	0.007127483	0.039813466	Dpm1	
-0.84910728	8.690884614	-6.847508471	2.37525E-05	0.000992338	Bcat1	
-0.595197417	8.687818672	-3.25408723	0.00739519	0.040840414	Snca	
-0.64338373	8.684215004	-5.93447326	8.66373E-05	0.00229714	Mrp63	Mus musculus mitochondrial ribosomal protein 63 (Mrp63), mRNA.
-0.584033491	8.683530765	-4.952667897	0.000396128	0.006094657	0610042E07Rik	Mus musculus isochorismatase domain containing 2b (Isoc2b), mRNA.
-0.599413069	8.681658862	-3.244528959	0.00752384	0.041302368	LOC386164	
-0.748283915	8.68150506	-4.936216954	0.000406818	0.006207094	Sprr2a	
-0.621441159	8.679575626	-3.222979178	0.007822283	0.042288887	Acox1	
-0.73047093	8.67781063	-3.45706779	0.005133506	0.032026368	Bmp2k	Mus musculus BMP2 inducible kinase (Bmp2k), mRNA.
-0.395225686	8.675472647	-4.200839122	0.001388771	0.013740378	ORF28	
-0.552687978	8.671878565	-4.971023273	0.00038455	0.005982082	Trpm6	Mus musculus transient receptor potential cation channel, subfamily M, member 6 (Trpm6), mRNA.
-0.553064707	8.671782354	-4.355223366	0.001066904	0.011546924	9130430L19Rik	
-0.67691604	8.671587216	-3.822844774	0.002680123	0.020900583	Acot11	Mus musculus acyl-CoA thioesterase 11 (Acot11), mRNA.
-0.949278229	8.670241494	-8.7583909	2.20371E-06	0.000224732	Shd	
-0.687355026	8.665742765	-4.006725314	0.001942604	0.016972661	5730537D05Rik	Mus musculus transmembrane protein 144 (Tmem144), mRNA.
-0.267210546	8.661708537	-3.505024268	0.004711185	0.030237498	Uxt	
-1.552270045	8.661369704	-3.152929605	0.008877871	0.04587541	scl000605.1_87	
-0.780311119	8.660150433	-6.282223631	5.2231E-05	0.001624318	Dusp15	
-0.75936522	8.658053029	-4.336929901	0.00110059	0.011741099	Pik3c2g	Mus musculus phosphatidylinositol 3-kinase, C2 domain containing, gamma polypeptide (Pik3c2g), transcript variant 1, mRNA.
-0.548424429	8.650837274	-3.783881366	0.002870574	0.021934203	4930578F03Rik	
-0.98419944	8.645290537	-4.728661432	0.000571088	0.007751913	9030420J04Rik	
-0.454695283	8.64417691	-3.247204511	0.007487601	0.04116973	Mia1	
-0.667335521	8.643552027	-5.87902675	9.40624E-05	0.002447776	LOC381431	
-1.133480589	8.642040027	-4.298422816	0.001175176	0.012272748	LOC268701	
-0.285556623	8.641368886	-3.249079885	0.007462306	0.041077971	Riok2	Mus musculus RIO kinase 2 (yeast) (Riok2), mRNA.
-0.591018395	8.638282452	-4.319257084	0.001134188	0.011986329	BC065397	Mus musculus cDNA sequence BC065397 (BC065397), mRNA.
-0.518837908	8.636883832	-4.713760646	0.000585298	0.007868715	Tmem168	Mus musculus transmembrane protein 168 (Tmem168), mRNA.
-0.523450417	8.633971553	-4.864223788	0.000457299	0.006674323	Pdlim2	Mus musculus PDZ and LIM domain 2 (Pdlim2), mRNA.

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.498750944	8.633152043	-3.309363474	0.006693795	0.03825965	BC048937	
-0.828243438	8.630289382	-3.502316802	0.004734053	0.030319032	BC039632	
-0.257016037	8.627950357	-3.243932318	0.007531945	0.041318347	2700046G09Rik	
-0.523794264	8.625020497	-3.270780035	0.007175844	0.03998066	Snta1	
-1.008030619	8.616002447	-3.098779272	0.009791737	0.048932724	2700033B16Rik	
-0.283839726	8.615095094	-3.17424422	0.008542245	0.044653579	Mier1	Mus musculus mesoderm induction early response 1 homolog (Xenopus laevis (Mier1), transcript variant 1, mRNA.
-0.919037455	8.610573133	-7.639926579	8.42436E-06	0.000500076	Slc6a15	Mus musculus solute carrier family 6 (neurotransmitter transporter), member 15 (Slc6a15), mRNA.
-1.085225568	8.598715083	-3.660535875	0.003570847	0.025210802	Clrf	
-0.701064668	8.597961531	-3.663958379	0.003549216	0.025124575	Rgs11	
-0.664498609	8.596325548	-3.801118843	0.002784652	0.021442447	Unc5c	
-0.62343217	8.59210748	-3.670758303	0.003506638	0.02495643	Cmah	
-0.385528513	8.591453626	-3.133093741	0.009202184	0.046951402	4732479N06Rik	Mus musculus RIKEN cDNA 4732479N06 gene (4732479N06Rik), mRNA.
-0.567041336	8.591053381	-3.393804458	0.00575051	0.034521864	Slc26a6	Mus musculus solute carrier family 26, member 6 (Slc26a6), mRNA.
-0.493842488	8.590455518	-3.128893371	0.00927238	0.047128181	Pigc	
-0.467771163	8.589065289	-3.447269815	0.005224448	0.032398912	A630072J24Rik	
-0.854865453	8.586608559	-5.026883502	0.000351456	0.005660234	Grtp1	
-0.502912354	8.585498395	-3.144305442	0.009017431	0.046315745	Aifm3	Mus musculus apoptosis-inducing factor, mitochondrion-associated 3 (Aifm3), mRNA.
-0.512357448	8.585288102	-4.276441753	0.0012201	0.012584369	Slc9a2	
-0.652639019	8.585274954	-5.717102413	0.000119887	0.002829735	Adra1a	
-0.673007458	8.583809248	-7.104864402	1.68206E-05	0.000788585	Tmem108	Mus musculus transmembrane protein 108 (Tmem108), mRNA.
-0.354587193	8.579201066	-3.608734036	0.003915307	0.026871146	Oaf	Mus musculus OAF homolog (Drosophila) (Oaf), mRNA.
-1.033299063	8.578124877	-3.785056108	0.002864633	0.021915457	Trrp1	
-0.347637389	8.573029538	-4.229315761	0.001322553	0.013277272	Tuba4	Mus musculus tubulin, alpha 4A (Tuba4a), mRNA.
-0.465013861	8.569883383	-3.537887127	0.004442469	0.029123799	1600014C10Rik	Mus musculus RIKEN cDNA 1600014C10 gene (1600014C10Rik), mRNA.
-0.972496771	8.569060318	-5.738075551	0.000116154	0.002774568	Rgl1	
-1.053237548	8.565885453	-5.630497513	0.000136703	0.0030688	Abat	Mus musculus 4-aminobutyrate aminotransferase (Abat), mRNA.
-0.409482106	8.563349906	-4.718691898	0.000580555	0.007825142	LOC330190	
-0.448683065	8.561879068	-3.130111753	0.009251963	0.047066227	2310035C23Rik	
-0.429806063	8.559587231	-4.258117651	0.001258917	0.012854743	Il18bp	
-0.466532396	8.559509952	-3.68229273	0.003435613	0.024619832	LOC270579	
-0.7023334	8.557633201	-4.377814888	0.001026783	0.011249832	Etv1	
-0.303015599	8.557602898	-3.129701192	0.009258838	0.047079406	Senp8	
-0.288355421	8.557476054	-3.334198641	0.006401059	0.037074873	5830412B09Rik	
-1.02773018	8.552066582	-7.955528904	5.69145E-06	0.000378315	Prima1	

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.625064767	8.549143328	-4.596286368	0.000711199	0.008989059	Camk4	
-0.539656875	8.540989448	-3.382775905	0.005865583	0.034887937	2610301K12Rik	
-0.372917534	8.538979451	-3.4732106	0.004987187	0.03143403	LOC381787	
-0.718808247	8.535576813	-4.162319653	0.001483882	0.014312807	Gpx5	Mus musculus glutathione peroxidase 5 (Gpx5), mRNA.
-0.383149945	8.531081072	-3.898003823	0.002348742	0.019267109	LOC269213	
-0.3059527	8.530186022	-3.557234374	0.004291663	0.028447767	D6Wsu163e	Mus musculus DNA segment, Chr 6, Wayne State University 163, expressed (D6Wsu163e), mRNA.
-0.470034014	8.529580832	-3.745974254	0.003069284	0.022891805	Wdr9	
-0.353178333	8.525553827	-3.649359463	0.003642433	0.02553448	Nadsyn1	Mus musculus NAD synthetase 1 (Nadsyn1), mRNA.
-0.38392141	8.524978679	-3.283697344	0.007010651	0.039409935	Msh3	Mus musculus mutS homolog 3 (E. coli) (Msh3), mRNA. XM_922668 XM_922672 XM_922677 XM_922681
-0.335500988	8.524583055	-3.464186269	0.00506845	0.031753329	Yif1a	Mus musculus Yip1 interacting factor homolog A (S. cerevisiae) (Yif1a), mRNA.
-0.770401431	8.522573102	-5.583719351	0.000146811	0.003205256	Ppara	Mus musculus peroxisome proliferator activated receptor alpha (Ppara), mRNA.
-0.71685517	8.521648918	-3.389298469	0.005797245	0.034654222	Acas2	Mus musculus acyl-CoA synthetase short-chain family member 2 (Acss2), mRNA.
-2.337261167	8.520129564	-6.266009028	5.34584E-05	0.0016418	0610005K03Rik	
-0.702779282	8.516275894	-4.803123448	0.000505311	0.007147167	D630005C06Rik	
-1.244781777	8.515672276	-4.659228841	0.000640552	0.00834816	Trpc1	
-0.550833362	8.514377874	-3.489869118	0.004840661	0.030757202	Nsd1	
-0.393981897	8.512252018	-3.70854519	0.003279426	0.023873378	4933421E11Rik	
-0.639304762	8.505645178	-3.640484023	0.003700331	0.025849236	C330001K17Rik	Mus musculus RIKEN cDNA C330001K17 gene (C330001K17Rik), mRNA.
-0.342973955	8.50496374	-3.391423374	0.005775158	0.034591513	1600014C10Rik	
-0.584530024	8.502489108	-3.837054325	0.002613957	0.02060134	Nol3	Mus musculus nucleolar protein 3 (apoptosis repressor with CARD domain) (Nol3), mRNA.
-0.57012988	8.499234267	-3.271503952	0.007166482	0.039937826	E2f6	
-0.339333409	8.497311403	-3.58503506	0.004084101	0.027479041	1700009P13Rik	
-0.360170649	8.496701434	-3.162147033	0.008731124	0.045366524	Lin7a	
-0.517727557	8.484684545	-4.388213934	0.001008849	0.01112484	LOC329092	
-0.397412297	8.483326912	-3.802625559	0.002777269	0.021392498	Pbx1	Mus musculus pre B-cell leukemia transcription factor 1 (Pbx1), transcript variant a, mRNA.
-0.360326407	8.482050025	-3.125826075	0.009323983	0.047285028	Scoc	
-1.512320192	8.47874181	-6.982520145	1.97986E-05	0.000865302	Corin	Mus musculus corin (Corin), mRNA.
-0.508804784	8.475861802	-3.415577543	0.005530041	0.03362385	Il15	
-0.27330413	8.474360776	-3.501919212	0.004737421	0.030325306	D630002J18Rik	
-2.081390359	8.468221575	-3.602247847	0.00396078	0.027005876	Apoa2	Mus musculus apolipoprotein A-II (Apoa2), mRNA.
-0.326854009	8.463732524	-3.870309325	0.002465622	0.019897559	Crat	
-0.765507257	8.453437716	-4.584608177	0.000725182	0.009088769	C230057L10Rik	
-0.534384849	8.452697858	-5.171904369	0.000278806	0.004878443	Abcc6	Mus musculus ATP-binding cassette, sub-family C (CFTR/MRP), member 6 (Abcc6),

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
						mRNA.
-0.304972082	8.448671561	-4.100754186	0.001650217	0.015240803	1700030J22Rik	
-0.805778683	8.440267385	-3.093522051	0.00988537	0.049247303	D430044G20Rik	
-1.036749636	8.435078466	-3.203448931	0.008103118	0.043297069	Hsd3b2	Mus musculus hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 2 (Hsd3b2), mRNA.
-0.326182545	8.433456754	-3.175757159	0.008518915	0.044580454	9130204K15Rik	
-0.378990507	8.433407927	-3.665947035	0.003536709	0.025083681	Man1b	
-0.659015383	8.431131416	-5.009272193	0.000361553	0.005756961	Arhgap10	
-0.304153314	8.430188222	-3.329701766	0.006453082	0.037268362	9430003J03Rik	
-0.352710544	8.429254467	-4.096283146	0.001663028	0.015320669	4930532K22Rik	
-0.345805457	8.428106862	-3.826400062	0.002663408	0.020833461	2810457I06Rik	Mus musculus RIKEN cDNA 2810457I06 gene (2810457I06Rik), mRNA.
-1.01059089	8.427641377	-3.522974204	0.004562409	0.029641374	Mcsp	
-0.382009825	8.425684299	-3.131608135	0.00922695	0.047024193	A430106H13Rik	
-1.396716131	8.419000572	-3.460467438	0.005102331	0.031914835	Sdhc	Mus musculus succinate dehydrogenase complex, subunit C, integral membrane protein (Sdhc), mRNA.
-0.508428897	8.418872492	-4.4808168	0.000862871	0.010157241	Lamc3	
-0.363624246	8.418291159	-3.825787954	0.002666278	0.020833461	4933404M02Rik	
-0.284256623	8.417864274	-3.590375567	0.004045423	0.027309188	4930428J16Rik	
-0.750347262	8.416614159	-3.554576986	0.004312062	0.028533195	Mpst	
-0.409363405	8.41416184	-3.259873639	0.007318395	0.040547683	2210407G14Rik	
-0.58106548	8.41329288	-3.408132248	0.005604443	0.033935249	Tmem86b	Mus musculus transmembrane protein 86B (Tmem86b), mRNA.
-0.707536487	8.410788497	-6.850939642	2.36421E-05	0.000989776	Cxx1c	Mus musculus CAAX box 1 homolog C (human) (Cxx1c), mRNA.
-0.524523881	8.409181374	-4.865666245	0.000456225	0.006662727	LOC385147	
-0.336212711	8.407578615	-3.895498714	0.002359074	0.019315382	6.03044E+24	
-1.094775381	8.404585276	-4.056046923	0.001783073	0.016062468	Gadd45gip1	Mus musculus growth arrest and DNA-damage-inducible, gamma interacting protein 1 (Gadd45gip1), mRNA.
-0.648483569	8.403592018	-5.008242877	0.000362153	0.005757529	6230410P16Rik	Mus musculus RIKEN cDNA 6230410P16 gene (6230410P16Rik), transcript variant 1, mRNA.
-0.612280307	8.402619541	-3.273408216	0.007141916	0.039861273	LOC219228	
-0.317050471	8.398338889	-4.026654297	0.001876431	0.016556916	Invs	
-0.388104098	8.396858882	-3.151629296	0.008898773	0.045949738	Abhd2	Mus musculus abhydrolase domain containing 2 (Abhd2), mRNA.
-0.971716115	8.394688706	-3.946655031	0.0021571	0.018201862	Ppt2	Mus musculus palmitoyl-protein thioesterase 2 (Ppt2), mRNA.
-0.466159277	8.394190484	-5.374774894	0.000202666	0.004006807	Prosc	
-0.697551709	8.393382732	-4.503346865	0.000830816	0.0099357	D030013I16Rik	Mus musculus RIKEN cDNA D030013I16 gene (D030013I16Rik), mRNA. XM_897988 XM_897998 XM_904163 XM_918687 XM_918696 XM_918713 XM_918727 XM_918743 XM_918759
-0.80049613	8.391181256	-4.014153205	0.001917662	0.016808849	Gys2	Mus musculus glycogen synthase 2 (Gys2), mRNA.

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-1.071557304	8.383170555	-3.83944506	0.002602992	0.020561138	Pde6a	Mus musculus phosphodiesterase 6A, cGMP-specific, rod, alpha (Pde6a), mRNA.
-0.386578931	8.383118244	-3.20071128	0.008143292	0.043414519	1100001J08Rik	
-1.178402937	8.376234995	-9.66037241	8.19014E-07	0.000137093	F5	
-0.711402067	8.374808596	-5.008727694	0.00036187	0.005756961	LOC385992	
-0.349571057	8.374033573	-3.391751913	0.00577175	0.034588468	6330415F13Rik	
-0.348739288	8.371770008	-3.75689883	0.003010604	0.022598943	Lrch3	
-1.10220032	8.371488678	-4.143223532	0.001533524	0.014627878	Sec14l3	Mus musculus SEC14-like 3 (S. cerevisiae) (Sec14l3), mRNA.
-0.292524871	8.370767976	-3.413095697	0.00555473	0.033719795	Spire1	
-0.520420353	8.369133872	-3.560904855	0.004263651	0.028309264	Lin7a	
-0.890037204	8.367644956	-3.617214609	0.00385666	0.026629476	LOC217376	
-0.274211486	8.36705414	-3.483025752	0.004900313	0.031073965	Kif1c	
-0.828773707	8.366757506	-4.588816819	0.00072011	0.009067001	AV344025	
-0.4750541	8.362317146	-4.494708202	0.000842957	0.010027896	Nol3	Mus musculus nucleolar protein 3 (apoptosis repressor with CARD domain) (Nol3), mRNA.
-0.399599857	8.359136243	-4.027067979	0.001875082	0.016556916	Bcl2l12	Mus musculus BCL2-like 12 (proline rich) (Bcl2l12), mRNA.
-0.560430209	8.356571858	-3.401701779	0.005669525	0.034216458	BC066028	Mus musculus cDNA sequence BC066028 (BC066028), mRNA.
-0.864340996	8.355017753	-4.844102796	0.000472557	0.006835597	4931417G12Rik	
-0.702016656	8.353179208	-7.743459084	7.39816E-06	0.000457607	5230400J09Rik	
-2.434439165	8.349184021	-11.03164572	2.07915E-07	5.64408E-05	LOC224058	
-0.523937213	8.346344175	-5.387454406	0.000198704	0.00395184	Spata2	
-0.640849231	8.333017563	-3.879579502	0.002425843	0.019703164	C030025P15Rik	
-0.355667998	8.332685808	-3.814939575	0.00271768	0.021088081	1810012P15Rik	
-1.441619387	8.323921493	-5.044741947	0.000341521	0.005547799	LOC380683	
-0.671385509	8.322337848	-3.269195336	0.00719638	0.040050008	E330009F12Rik	
-0.662242955	8.320039601	-3.476434385	0.004958481	0.031344167	LOC380960	
-0.490744004	8.315361615	-4.268987842	0.001235737	0.012699565	Dhfr	
-1.253744579	8.313841977	-6.482534966	3.93157E-05	0.001381725	Ace	
-0.379075044	8.310971771	-3.575484385	0.004154221	0.027822668	1300015B04Rik	
-0.568680761	8.309720644	-4.102414984	0.001645484	0.015213555	Osbpl3	Mus musculus oxysterol binding protein-like 3 (Osbpl3), mRNA.
-0.578220623	8.308436025	-5.87735271	9.42968E-05	0.002448536	Ramp3	Mus musculus receptor (calcitonin) activity modifying protein 3 (Ramp3), mRNA.
-0.372956778	8.306049847	-4.588569833	0.000720406	0.009067001	LOC207879	
-0.30342835	8.303175398	-3.308344064	0.006706098	0.038302446	1600015H20Rik	Mus musculus RIKEN cDNA 1600015H20 gene (1600015H20Rik), mRNA.
-0.351138422	8.301716408	-3.664183829	0.003547796	0.025121975	Narfl	Mus musculus nuclear prelamin A recognition factor-like (Narfl), mRNA.
-0.619009857	8.29799151	-5.969770679	8.22371E-05	0.002202495	Odf4	Mus musculus outer dense fiber of sperm tails 4 (Odf4), mRNA.
-0.452354032	8.291121677	-3.337488701	0.006363268	0.036909741	A530064K17Rik	
-0.516721288	8.283690098	-4.297135609	0.001177759	0.012285925	Pdzk3	

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.402741435	8.283423858	-4.515379176	0.000814209	0.009812864	LOC240899	
-0.515464824	8.27868116	-3.207218105	0.008048135	0.043080449	A330072B11Rik	
-0.654844746	8.27785832	-4.297776767	0.001176472	0.012280902	Rhov	Mus musculus ras homolog gene family, member V (Rhov), mRNA.
-1.388146007	8.277804318	-6.295237546	5.12675E-05	0.001609713	Slc16a14	
-0.455922213	8.275248334	-3.173360765	0.008555898	0.044705361	Vwa2	Mus musculus von Willebrand factor A domain containing 2 (Vwa2), mRNA.
-0.330593841	8.272929652	-3.976411148	0.002047938	0.017610789	D730030D15Rik	
-0.358604871	8.27276962	-4.279809456	0.001213102	0.012556167	1190003M12Rik	
-0.493373251	8.270421593	-5.175152494	0.000277373	0.004874042	scl0003155.1_68	
-0.591428203	8.266805853	-4.556317268	0.000760264	0.009353099	Galc	
-0.876607309	8.263732136	-4.651982564	0.000648296	0.008407762	LOC545253	Mus musculus predicted gene, EG545253 (EG545253), mRNA.
-0.375298924	8.262815457	-4.080684114	0.001708539	0.015615039	LOC329824	
-0.834447186	8.257907014	-7.403478359	1.1387E-05	0.000605183	scl0002956.1_592	
-0.507963167	8.257164091	-3.201742947	0.008128129	0.043401556	Ube2i	Mus musculus ubiquitin-conjugating enzyme E2I (Ube2i), mRNA.
-0.593225884	8.255043125	-4.77929184	0.00052545	0.00734123	Takrp	
-0.386020716	8.248536722	-3.57116868	0.00418631	0.027990447	Rarres1	
-0.433438841	8.245673615	-3.163314347	0.008712715	0.045336123	0610012A05Rik	
-0.92414318	8.245649345	-3.684617634	0.003421477	0.024555403	Tef	
-0.98281616	8.245617692	-11.1848792	1.79986E-07	5.36876E-05	5230400J09Rik	
-0.503171991	8.245318146	-3.30876188	0.006701053	0.038282793	Krt15	Mus musculus keratin 15 (Krt15), mRNA.
-0.890824157	8.245157781	-3.391980981	0.005769376	0.034582923	LOC240549	Mus musculus predicted gene, EG240549 (EG240549), mRNA.
-0.453858272	8.240740953	-4.401541712	0.00098634	0.010972974	2810484M10Rik	Mus musculus MOCO sulphurase C-terminal domain containing 2 (Mosc2), mRNA.
-0.627191908	8.240456864	-4.741064263	0.000559536	0.007656079	Matn4	Mus musculus matrilin 4 (Matn4), mRNA.
-0.419397323	8.239017517	-3.192964396	0.008258072	0.043713927	D130043K22Rik	
-0.550454386	8.232068315	-3.437183221	0.00531979	0.032782772	9430077D24Rik	
-1.102078989	8.230385645	-5.678841366	0.000127028	0.002928763	Ace	
-0.843563781	8.219710703	-5.166524605	0.000281196	0.004905107	Capn6	Mus musculus calpain 6 (Capn6), mRNA.
-0.350142912	8.215600681	-3.685011134	0.003419091	0.024553044	LOC208684	
-0.343717164	8.213210585	-3.46555251	0.005056061	0.03170901	Rad51l3	
-0.401121212	8.209157411	-3.293263123	0.006890814	0.0390305	LOC381277	
-0.51487361	8.208755817	-5.585475932	0.000146417	0.003202523	Amacr	Mus musculus alpha-methylacyl-CoA racemase (Amacr), mRNA.
-0.718664663	8.206435075	-3.100830173	0.009755453	0.048803853	A230106N23Rik	Mus musculus RIKEN cDNA A230106N23 gene (A230106N23Rik), mRNA.
-0.49329668	8.203376827	-4.237998779	0.001303023	0.013136472	Mtap7	
-0.515180501	8.201143357	-4.126698486	0.001577875	0.014795829	Slc16a7	Mus musculus solute carrier family 16 (monocarboxylic acid transporters), member 7 (Slc16a7), mRNA.
-0.862396738	8.199169706	-3.093304926	0.009889256	0.049256381	Hrg	Mus musculus histidine-rich glycoprotein (Hrg), mRNA.
-0.312495614	8.197619337	-4.253543244	0.001268807	0.012906024	Egf	

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-0.395663114	8.197170853	-3.797546177	0.002802239	0.021529686	A230060F14Rik	
-0.476932615	8.196751502	-4.14706392	0.001523403	0.014582019	Katnal1	Mus musculus katanin p60 subunit A-like 1 (Katnal1), mRNA.
-0.425393184	8.195711067	-4.039860725	0.001833872	0.016404385	C230089D15Rik	
-0.748030739	8.191939876	-5.975519998	8.15432E-05	0.002195249	AI586015	Mus musculus expressed sequence AI586015 (AI586015), mRNA.
-0.251408189	8.187849789	-3.100947691	0.009753378	0.048803704	Aars2	Mus musculus alanyl-tRNA synthetase 2, mitochondrial (putative) (Aars2), mRNA.
-0.754998661	8.186055029	-3.36913179	0.006011203	0.03552719	Slc14a2	Mus musculus solute carrier family 14 (urea transporter), member 2 (Slc14a2), transcript variant 1, mRNA.
-0.413746651	8.180000149	-3.710110536	0.003270347	0.023824742	Mtr	
-0.511770089	8.179648064	-4.868543309	0.000454091	0.006653144	9530096D07Rik	Mus musculus RIKEN cDNA 9530096D07 gene (9530096D07Rik), mRNA.
-0.654591618	8.179395133	-3.642344629	0.003688115	0.02578655	Masp2	Mus musculus mannan-binding lectin serine peptidase 2 (Masp2), transcript variant 1, mRNA.
-0.270211512	8.179179044	-3.119178304	0.009436818	0.047679607	Ptcra	Mus musculus pre T-cell antigen receptor alpha (Ptcra), mRNA.
-0.938591637	8.175759555	-7.260361213	1.37096E-05	0.000693704	Lrrc52	Mus musculus leucine rich repeat containing 52 (Lrrc52), mRNA.
-0.577818442	8.166696346	-4.354311346	0.001068557	0.011553686	2810055G20Rik	
-1.082652203	8.163387937	-4.307137089	0.001157847	0.012155614	Nphs2	
-0.390162855	8.163373435	-3.681872209	0.003438176	0.024623411	2810441E16Rik	
-0.355176688	8.161909231	-3.433512754	0.005354925	0.03292568	LOC242805	
-0.688844345	8.160621242	-5.762439772	0.000111973	0.002709946	C330021F23Rik	
-0.805528254	8.160243539	-7.052868915	1.80231E-05	0.000816209	Odf4	
-0.396146012	8.158570836	-3.51674516	0.004613485	0.029843207	Mia1	Mus musculus melanoma inhibitory activity 1 (Mia1), mRNA.
-0.347866133	8.15560812	-3.614995849	0.003871916	0.026688483	Slc12a4	Mus musculus solute carrier family 12, member 4 (Slc12a4), mRNA.
-0.426832795	8.155376532	-4.137492497	0.001548756	0.014678883	Nphs1	
-0.576975533	8.155367924	-5.158726718	0.0002847	0.004933761	B230112P13Rik	
-0.753581244	8.152809567	-6.072102834	7.07721E-05	0.001989204	Bzrap1	Mus musculus benzodiazapine receptor associated protein 1 (Bzrap1), mRNA.
-0.64531807	8.150954431	-4.475920532	0.000870007	0.010186939	Etv1	
-0.277675818	8.150373294	-3.503514476	0.004723923	0.03028667	2600014M03Rik	
-0.317890092	8.149566954	-3.872029544	0.00245819	0.019877934	Tmem49	Mus musculus transmembrane protein 49 (Tmem49), mRNA.
-0.353797236	8.149308691	-3.137118131	0.009135431	0.046740738	4930427E19Rik	
-0.569549148	8.141651943	-3.977278189	0.002044844	0.017590526	Syn3	
-0.308944202	8.13967002	-3.480252271	0.004924703	0.031163669	Erf	Mus musculus Ets2 repressor factor (Erf), mRNA.
-0.799591	8.139008	-4.508680196	0.000823411	0.009892848	4930405J17Rik	
-0.461563047	8.138663505	-3.869337776	0.00246983	0.01989789	Cbfa2t1h	Mus musculus runt-related transcription factor 1; translocated to, 1 (cyclin D-related) (Runx1t1), mRNA.
-0.363775701	8.125724572	-4.409542647	0.00097308	0.010855827	Dgkb	
-0.792054066	8.122474343	-3.361055783	0.006099127	0.035786445	4932416A11Rik	
-0.409761659	8.12239569	-3.449814632	0.005200671	0.032301825	C76746	
-0.454154758	8.11968027	-3.712562882	0.003256176	0.023783331	Gprk2l	Mus musculus G protein-coupled receptor kinase 4 (Grk4), transcript variant 2,

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
						mRNA.
-0.280931758	8.119412183	-3.17748932	0.008492284	0.044510782	Robo3	
-0.446035844	8.119060477	-3.465922044	0.005052715	0.031704692	B930014J03Rik	
-0.459075794	8.11775215	-4.591993166	0.000716306	0.009044031	BC047219	Mus musculus N-acetyltransferase 14 (Nat14), mRNA.
-0.406599114	8.11725226	-3.504826214	0.004712854	0.030240076	BC049762	Mus musculus cDNA sequence BC049762 (BC049762), mRNA.
-0.68174732	8.117080921	-4.967482077	0.000386756	0.006006263	6430537F04	
-0.376153135	8.114697204	-3.250010249	0.007449789	0.041056425	LOC384863	
-0.277623631	8.113125933	-3.415392346	0.005531879	0.03362385	B930095G10Rik	
-0.762445152	8.11301238	-4.458945789	0.000895229	0.010375351	Nrap	
-0.596206449	8.109132418	-3.432685266	0.005362878	0.032966089	BC065397	Mus musculus cDNA sequence BC065397 (BC065397), mRNA.
-0.371060364	8.103850982	-3.296402527	0.00685194	0.038874904	LOC381498	
-0.512495973	8.097639927	-3.654239491	0.003610996	0.025383438	Klhl8	Mus musculus kelch-like 8 (Drosophila) (Klhl8), mRNA.
-0.345715409	8.097633566	-3.777169715	0.002904765	0.022124614	LOC233964	
-0.483884752	8.096018877	-3.546591375	0.004373961	0.028841691	Cldn6	Mus musculus claudin 6 (Cldn6), mRNA.
-0.346224548	8.089127831	-3.291096937	0.006917768	0.039148784	Lifr	Mus musculus leukemia inhibitory factor receptor (Lifr), mRNA.
-0.322361106	8.088305625	-3.154208532	0.008857362	0.045809108	Ncor1	
-0.715061838	8.087018194	-8.028946371	5.20356E-06	0.000357846	B230369F24Rik	
-0.986311347	8.082833606	-7.07118288	1.75894E-05	0.000804858	Bcat1	
-0.468784808	8.071709796	-4.022106894	0.001891322	0.016654098	Uhmk1	Mus musculus U2AF homology motif (UHM) kinase 1 (Uhmk1), mRNA.
-0.282217987	8.068876259	-4.178465703	0.001443215	0.014017075	0610027B03Rik	Mus musculus methyltransferase 5 domain containing 1 (Mett5d1), mRNA.
-0.400706315	8.067720375	-3.914145706	0.002283276	0.018925257	C130015E15Rik	
-0.296733858	8.059850303	-3.141103562	0.009069808	0.04647473	LOC382177	
-1.324937763	8.054649178	-8.664962058	2.45253E-06	0.000242488	Vstm2	Mus musculus V-set and transmembrane domain containing 2 (Vstm2), mRNA.
-1.381100422	8.054246316	-5.56606468	0.000150829	0.003262327	Ccl28	Mus musculus chemokine (C-C motif) ligand 28 (Ccl28), mRNA.
-0.361481801	8.053814864	-3.280195625	0.007055048	0.039529138	A630055I06Rik	
-0.477420516	8.051208315	-3.185401197	0.008371711	0.044100254	Acox3	Mus musculus acyl-Coenzyme A oxidase 3, pristanoyl (Acox3), mRNA.
-0.525062537	8.050095477	-4.028157874	0.001871534	0.016556916	Zfp523	Mus musculus zinc finger protein 523 (Zfp523), mRNA.
-0.430916962	8.049913247	-3.350465101	0.006216418	0.036242948	Pr1	Mus musculus transmembrane protein 37 (Tmem37), mRNA.
-0.611412335	8.041944729	-4.856539782	0.000463063	0.00673921	4933428A15Rik	
-0.412550454	8.035559211	-3.344640392	0.006281903	0.036562208	C130061D10Rik	
-2.109468271	8.034654273	-3.232527482	0.007688595	0.041815739	A030003A19Rik	Mus musculus serine (or cysteine) peptidase inhibitor, clade A, member 3B (Serpina3b), mRNA.
-0.420301959	8.03441753	-4.776546936	0.000527824	0.007365762	LOC382176	
-0.752446665	8.029240159	-4.445252634	0.000916132	0.010522832	C330001K17Rik	
-0.3722477	8.028864333	-3.573857119	0.00416629	0.027872213	Sufu	
-0.930053405	8.023702284	-6.023296631	7.60121E-05	0.002094546	Proz	

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-0.439322863	8.019843824	-3.547582768	0.004366227	0.028805992	D630046D15Rik	
-0.870410099	8.019126196	-3.499732677	0.004755985	0.030397378	Fcamr	Mus musculus Fc receptor, IgA, IgM, high affinity (Fcamr), mRNA.
-0.378268486	8.013639001	-3.407552739	0.005610276	0.033961955	1810049N02Rik	
-0.284389245	8.012646772	-3.820493157	0.002691239	0.020953032	2700004E22Rik	
-0.335592142	8.007833712	-4.028506444	0.001870401	0.016556916	1500005I02Rik	Mus musculus RIKEN cDNA 1500005I02 gene (1500005I02Rik), mRNA.
-0.500142829	8.003659659	-3.390096888	0.005788936	0.034635009	BC034076	Mus musculus cDNA sequence BC034076 (BC034076), mRNA.
-0.28388177	7.997916961	-3.119279803	0.009435085	0.047679607	scl0003176.1_43	
-0.52145971	7.997876342	-4.945267389	0.0004009	0.00614825	9530057J20Rik	
-0.392324995	7.997598002	-3.589373416	0.004052652	0.027327339	2610524G07Rik	
-0.36863426	7.993308493	-5.026615535	0.000351608	0.005660234	Wwp2	Mus musculus WW domain containing E3 ubiquitin protein ligase 2 (Wwp2), mRNA.
-0.499231406	7.992781165	-3.134365442	0.009181037	0.046865933	4933432P15Rik	
-0.43139526	7.992284708	-3.971559826	0.002065337	0.017702993	Scp2	Mus musculus sterol carrier protein 2, liver (Scp2), mRNA.
-0.478521192	7.990594487	-3.845780614	0.002574162	0.020434876	Ybx2	
-0.381648716	7.988279094	-3.616794209	0.003859546	0.026641694	Usp8	Mus musculus ubiquitin specific peptidase 8 (Usp8), mRNA.
-0.282181544	7.986749155	-3.117686222	0.009462332	0.047763967	Rheb	
-0.314164979	7.985376084	-3.509520355	0.00467346	0.03010874	Snn	Mus musculus stannin (Snn), mRNA.
-0.302299556	7.984548245	-3.989120695	0.002003072	0.017331151	7030412O03Rik	
-0.257368914	7.9790306	-3.11203545	0.009559594	0.048116881	C130057K09	
-1.242728369	7.968429266	-6.760767962	2.67327E-05	0.001073012	Vstm2	Mus musculus V-set and transmembrane domain containing 2 (Vstm2), mRNA.
-0.456050524	7.968006325	-3.604327026	0.003946145	0.026982105	Enpp6	Mus musculus ectonucleotide pyrophosphatase/phosphodiesterase 6 (Enpp6), mRNA.
-0.326347777	7.965879234	-3.204065979	0.008094091	0.043268211	Nsd1	
-0.354954206	7.965143204	-3.316529643	0.006607955	0.03789609	1600020E01Rik	
-0.306899922	7.964564949	-3.947943477	0.00215225	0.018181994	scl0002349.1_957	
-0.368271784	7.959221807	-4.694024046	0.000604695	0.008029953	Mlr2	
-0.276542752	7.958492864	-3.255787753	0.007372537	0.040771925	Mynn	Mus musculus myoneurin (Mynn), mRNA.
-0.3615071	7.956245432	-3.569363843	0.004199805	0.028057093	2810012L14Rik	
-0.40743081	7.955882273	-4.028669378	0.001869871	0.016556916	LOC385976	
-0.279974236	7.95272419	-3.579320644	0.004125908	0.027653412	LOC381257	
-0.499757774	7.951232506	-5.476387816	0.000173121	0.003606439	LOC241877	
-0.503805468	7.951014129	-3.353475035	0.006182851	0.036117842	9630009N10Rik	
-0.506267162	7.948385106	-3.777887504	0.002901089	0.022110725	E430001K23Rik	
-0.993983505	7.947828254	-3.437440863	0.005317333	0.032779003	4930502E18Rik	Mus musculus RIKEN cDNA 4930502E18 gene (4930502E18Rik), mRNA.
-0.369362902	7.947214108	-4.468950004	0.000880273	0.010254301	Dnd1	Mus musculus dead end homolog 1 (zebrafish) (Dnd1), mRNA.
-1.51680132	7.940670997	-3.104692473	0.00968749	0.048575872	D8Ertd531e	
-0.497997745	7.939063851	-5.049981426	0.000338663	0.00552975	Rnf24	

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.411993011	7.938970839	-3.731708103	0.003147694	0.023260291	Scube3	Mus musculus signal peptide, CUB domain, EGF-like 3 (Scube3), mRNA.
-0.627525233	7.936370109	-4.198330442	0.001394768	0.013753449	Vps52	
-0.278520202	7.934109069	-3.20863995	0.008027492	0.043012842	Epas1	Mus musculus endothelial PAS domain protein 1 (Epas1), mRNA.
-0.349059599	7.930640735	-3.596697724	0.004000121	0.027164168	A430099B18Rik	
-0.318597316	7.930527739	-3.475162791	0.004969783	0.031365761	Fcgr2b	Mus musculus Fc receptor, IgG, low affinity IIb (Fcgr2b), transcript variant 1, mRNA.
-0.4473498	7.930312561	-4.926022022	0.000413594	0.006274383	Arhgap10	
-0.653081995	7.928947141	-6.442019004	4.16227E-05	0.001425025	1300013B24Rik	
-0.502744489	7.920693244	-4.706836725	0.000592027	0.007927916	Zfp386	Mus musculus zinc finger protein 386 (Kruppel-like) (Zfp386), transcript variant 1, mRNA.
-0.510369231	7.916207939	-4.001839355	0.001959194	0.01707881	5730593N15Rik	
-0.757275698	7.914349226	-6.293635314	5.13851E-05	0.001609713	A230005M18Rik	
-0.322099761	7.911615788	-3.496819122	0.004780838	0.030495895	Col5a2	
-0.621736952	7.909248188	-4.064562085	0.001756938	0.015896982	Mas1	Mus musculus MAS1 oncogene (Mas1), mRNA.
-0.392104049	7.90600104	-3.148509346	0.008949127	0.046113801	LOC381372	
-0.381637085	7.90385806	-4.47952766	0.000864744	0.010157241	D330034K12Rik	
-0.332395126	7.90028635	-3.241305209	0.00756774	0.041457526	LOC385615	
-0.610902942	7.899320592	-3.939347932	0.002184817	0.018338473	Bai2	Mus musculus brain-specific angiogenesis inhibitor 2 (Bai2), mRNA.
-0.960792996	7.894478002	-5.805599712	0.000104953	0.002616776	LOC243368	
-0.314425435	7.881492101	-3.168493476	0.008631513	0.045016677	LOC269527	
-0.459457294	7.881324919	-4.124606525	0.001583584	0.014830874	4932413F04Rik	
-0.280014472	7.879992088	-3.257787665	0.007345986	0.040643928	D630022P03Rik	
-0.415698048	7.874257702	-3.563092674	0.004247043	0.028238278	6530403A03Rik	
-0.435720155	7.87291412	-3.347777491	0.006246547	0.036391931	C330021F23Rik	Mus musculus RIKEN cDNA C330021F23 gene (C330021F23Rik), mRNA.
-0.651002917	7.871376036	-4.461941676	0.000890723	0.010328881	D5Ertd135e	
-0.34281028	7.870774051	-3.280590771	0.007050023	0.039510265	4631402N15Rik	Mus musculus RIKEN cDNA 4631402N15 gene (4631402N15Rik), mRNA.
-0.397640687	7.867233696	-4.139757848	0.001542716	0.014649361	Proz	
-0.324804771	7.865383524	-3.323238264	0.00652861	0.037522214	A730075L14Rik	
-0.387873164	7.863202671	-4.396619613	0.000994591	0.011018534	9430088F20	
-0.356498252	7.862244485	-3.799724469	0.002791502	0.021486071	A530061E12Rik	
-0.540450768	7.861299952	-4.698848289	0.000599892	0.007992992	LOC383766	
-0.640428532	7.855477064	-5.495068796	0.000168205	0.003522152	Vstm2	Mus musculus V-set and transmembrane domain containing 2 (Vstm2), mRNA.
-0.416746852	7.84603137	-3.397178192	0.00571577	0.034391177	Sgk3	Mus musculus serum/glucocorticoid regulated kinase 3 (Sgk3), transcript variant 1, mRNA.
-0.402835321	7.845042731	-4.52821646	0.000796874	0.009662506	LOC330479	
-0.420244505	7.83976955	-3.475397551	0.004967695	0.031365761	0610038B21Rik	
-0.487577586	7.836531537	-3.531534277	0.004493163	0.029351312	A630099L06Rik	

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.384833958	7.833745877	-3.717475827	0.003227975	0.023672151	Syn3	Mus musculus synapsin III (Syn3), mRNA.
-0.40765774	7.831818694	-3.405369344	0.005632312	0.03403491	6720463E02Rik	Mus musculus dynein light chain LC8-type 2 (Dynll2), mRNA.
-0.5162839	7.826805239	-4.487016188	0.000853924	0.010107728	Klf12	
-0.676739063	7.822515069	-8.197092444	4.24739E-06	0.000318362	2810022L02Rik	Mus musculus RIKEN cDNA 2810022L02 gene (2810022L02Rik), mRNA.
-0.383845778	7.822377484	-3.851002228	0.00255065	0.020302254	4931419H13Rik	
-0.445975552	7.818736686	-4.797116697	0.00051031	0.007180141	Ttyh1	Mus musculus tweety homolog 1 (Drosophila) (Ttyh1), transcript variant 2, mRNA.
-0.396405442	7.815531896	-4.200970561	0.001388458	0.013740378	D630005C06Rik	
-0.440934314	7.815483076	-3.274596475	0.00712663	0.039813466	A730020L24Rik	
-0.471561191	7.815046759	-4.642471948	0.000658609	0.008513756	LOC240168	
-0.307495224	7.807589302	-3.551241855	0.004337804	0.028681908	scl0002623.1_73	
-0.356493351	7.80179641	-3.231813348	0.007698513	0.041837763	8430411H09Rik	
-0.579235226	7.796334664	-4.370563858	0.001039486	0.011338225	4933437K13Rik	
-0.471405885	7.795077837	-4.095909811	0.001664102	0.015320669	Klkb1	Mus musculus kallikrein B, plasma 1 (Klkb1), mRNA.
-0.381163491	7.791968219	-4.382627375	0.001018442	0.011198569	Klkb1	
-0.377430219	7.790611848	-3.579509281	0.004124521	0.027653412	C130078D09Rik	
-1.113179029	7.787855167	-3.333728636	0.006406477	0.037082326	Dctn1	
-0.469434439	7.785166706	-3.141142345	0.009069171	0.04647473	Enpp3	
-0.411247646	7.784724346	-4.909517922	0.000424818	0.006391822	2310015B20Rik	
-0.761874632	7.781601237	-5.641052743	0.000134526	0.003037069	LOC239283	
-0.546161085	7.779676611	-5.266416242	0.000240134	0.004461167	Mapk15	Mus musculus mitogen-activated protein kinase 15 (Mapk15), mRNA.
-0.6172076	7.778037652	-3.407005343	0.005615793	0.033969585	LOC381540	
-0.467190863	7.772803068	-3.232425995	0.007690004	0.041815739	Slc10a2	Mus musculus solute carrier family 10, member 2 (Slc10a2), mRNA.
-0.950828552	7.771319978	-6.466147219	4.0232E-05	0.001399498	Npb	
-0.440181895	7.769457499	-3.838565572	0.00260702	0.020572528	2310061J03Rik	
-0.728186206	7.766012136	-5.347036169	0.000211627	0.004125865	1700026J04Rik	
-0.673183052	7.75814691	-5.471357843	0.000174471	0.003610926	Nap1l3	Mus musculus nucleosome assembly protein 1-like 3 (Nap1l3), mRNA.
-0.493999307	7.754798101	-3.546213061	0.004376916	0.028841691	Snn	Mus musculus stannin (Snn), mRNA.
-0.489997907	7.752616216	-3.45836404	0.005121596	0.031985516	5330438F16Rik	
-0.531872095	7.75127185	-3.61458652	0.003874737	0.026692509	6430590A10Rik	
-0.920194368	7.748303679	-4.535748673	0.000786884	0.009575422	Atp11a	
-0.563489488	7.742348356	-3.528573423	0.004516992	0.029465218	Tnn	Mus musculus tenascin N (Tnn), mRNA.
-0.535747087	7.739948842	-3.335479518	0.00638632	0.037016454	Pcx	
-0.770216844	7.738874668	-5.287127968	0.000232443	0.004384807	Gcnt1	Mus musculus glucosaminyl (N-acetyl) transferase 1, core 2 (Gcnt1), mRNA.
-0.314686411	7.738417159	-3.387184518	0.005819304	0.034733878	4930421E04Rik	
-0.456412327	7.737923885	-4.374698765	0.001032222	0.011288691	1110055L24Rik	Mus musculus CD302 antigen (Cd302), mRNA.
-0.551029734	7.720169598	-3.81923744	0.002697194	0.020985703	E130301F19Rik	

logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
-0.495790913	7.719895727	-3.506256673	0.004700814	0.030195294	D930012N15Rik	
-0.664778274	7.719453451	-3.773672045	0.00292275	0.022178317	Gprasp2	
-0.572894935	7.718933143	-3.635140708	0.003735643	0.02602734	D130052N13Rik	
-0.544350481	7.718532577	-4.072943517	0.001731601	0.015777474	LOC333088	
-0.456317595	7.70919222	-3.718640323	0.003221328	0.023637932	A630042M04Rik	
-0.648495168	7.706227374	-4.726132521	0.000573474	0.007771916	9330167O18Rik	
-0.656710924	7.705012568	-3.494494851	0.00480076	0.030590262	LOC278757	
-0.568372122	7.702059883	-4.908637473	0.000425426	0.006392904	Acsl3	Mus musculus acyl-CoA synthetase long-chain family member 3 (Acsl3), transcript variant 1, mRNA.
-0.312884419	7.684183226	-3.286198189	0.006979118	0.039307753	LOC278266	
-0.51386307	7.683727826	-3.699390227	0.003333045	0.024145859	Abca13	
-0.54832934	7.679542823	-4.122848713	0.001588398	0.014858462	Myo5a	
-0.482778243	7.672387357	-3.918139385	0.002267372	0.018845805	Tom1l2	
-0.27961434	7.670202329	-3.276171124	0.007106425	0.039742351	Satb2	
-0.491632747	7.667040633	-3.550040982	0.004347111	0.028727529	9430047L24Rik	
-0.434363506	7.65961835	-3.543731712	0.004396348	0.028932722	LOC331139	
-0.520388009	7.651597114	-4.509757442	0.000821924	0.009880896	Astn1	Mus musculus astrotactin 1 (Astn1), mRNA.
-0.857684485	7.649394209	-3.139291658	0.009099583	0.046607287	Gys1	
-0.339885764	7.644060379	-3.367602187	0.006027756	0.035570556	Nnt	
-1.158649458	7.637566329	-8.096652529	4.79329E-06	0.000341439	0710005M24Rik	Mus musculus RIKEN cDNA 0710005M24 gene (0710005M24Rik), mRNA.
-0.358156552	7.624690667	-3.407321914	0.005612602	0.033967415	9130214H05Rik	
-1.137830551	7.621362342	-9.865856001	6.60444E-07	0.000119474	Sycn	Mus musculus syncollin (Sycn), mRNA.
-0.574812677	7.598871684	-4.979696831	0.000379203	0.005941514	Adam11	
-0.747987861	7.591786223	-3.633452202	0.003746873	0.026097967	BC015286	Mus musculus cDNA sequence BC015286 (BC015286), mRNA.
-0.46832439	7.572528893	-4.666218302	0.000633174	0.008285915	4933421B21Rik	
-0.791187832	7.563154842	-5.728439121	0.000117854	0.002801142	Kiaa0298-hp	
-0.375695018	7.532029523	-3.210457241	0.008001186	0.042954396	D130060C09Rik	Mus musculus cancer susceptibility candidate 4 (Casc4), transcript variant 1, mRNA.
-0.770801153	7.507301566	-3.520395942	0.004583479	0.0297297	Tmprss9	Mus musculus transmembrane protease, serine 9 (Tmprss9), mRNA.
-0.375933549	7.506543154	-3.843448509	0.002584736	0.02048972	Scpep1	Mus musculus serine carboxypeptidase 1 (Scpep1), mRNA.
-0.752709485	7.488798932	-3.929720275	0.0022219	0.018585758	LOC628416	Mus musculus hypothetical protein LOC628416 (LOC628416), mRNA.
-0.712492592	7.447158245	-3.489320548	0.004845415	0.030776187	Hsd3b2	Mus musculus hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 2 (Hsd3b2), mRNA.
-1.143032795	7.406967513	-9.896445823	6.3982E-07	0.000118357	Psx1	Mus musculus reproductive homeobox 6 (Rhox6), mRNA.
-0.752697433	7.370168705	-3.149056611	0.008940273	0.046078131	Neurog2	Mus musculus neurogenin 2 (Neurog2), mRNA.

Appendix I (a5)

List of upregulated genes: Fh1-/- Hif-1a-/- vs Fh1-/- kidneys.

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_1221503	0.675688588	14.56688926	5.814092482	0.000103627	0.039817343	Ccnd1	
ILMN_2601471	0.748923955	14.1201467	6.51007127	3.7826E-05	0.027798689	Ccnd1	
ILMN_2712066	0.567873788	13.93109063	5.828563791	0.00010141	0.039817343	Pgd	
ILMN_2670751	1.302909481	13.08313532	6.935015145	2.1103E-05	0.025179017	Fxyd4	Mus musculus FXYD domain-containing ion transport regulator 4 (Fxyd4), mRNA.
ILMN_2669416	1.062121379	12.8316555	8.261897022	3.93089E-06	0.008527537	Mgst1	Mus musculus microsomal glutathione S-transferase 1 (Mgst1), mRNA.
ILMN_2661366	1.09310696	12.77418737	5.671531294	0.000128443	0.043169518	BC018222	Mus musculus transmembrane protein 45b (Tmem45b), mRNA.
ILMN_2759914	0.80816482	12.63346831	6.957153831	2.0484E-05	0.025179017	Scnn1g	
ILMN_1229056	0.731957176	12.20980074	6.006858599	7.78687E-05	0.037163607	D6Wsu176e	
ILMN_2755492	0.718184301	12.12721818	6.419599472	4.2961E-05	0.027798689	D6Wsu176e	
ILMN_1215552	1.328523638	12.02203162	6.810580531	2.49754E-05	0.025912477	Fxyd4	Mus musculus FXYD domain-containing ion transport regulator 4 (Fxyd4), mRNA.
ILMN_2961152	0.78816325	11.99498784	6.390223336	4.47844E-05	0.027798689	Krt7	Mus musculus keratin 7 (Krt7), mRNA.
ILMN_2618383	0.820712673	11.73947902	5.816650898	0.000103231	0.039817343	Scnn1b	Mus musculus sodium channel, nonvoltage-gated 1 beta (Scnn1b), mRNA.
ILMN_1223949	1.16667092	11.69896325	5.833547362	0.000100658	0.039817343	Cldn4	Mus musculus claudin 4 (Cldn4), mRNA.
ILMN_2623536	0.885244931	11.36378232	6.340268331	4.80774E-05	0.028552917	Golph2	
ILMN_2971479	0.582856287	11.29204213	5.539600055	0.000157073	0.046852833	Trp53inp1	Mus musculus transformation related protein 53 inducible nuclear protein 1 (Trp53inp1), mRNA.
ILMN_1256563	0.585873515	11.26129025	6.402565708	4.40084E-05	0.027798689	Glt25d1	
ILMN_1217009	1.15739964	10.99920559	6.040821898	7.40845E-05	0.036598412	Rab15	Mus musculus RAB15, member RAS oncogene family (Rab15), mRNA.
ILMN_1248843	0.800732017	10.95811778	5.876491947	9.44176E-05	0.039817343	Gata3	Mus musculus GATA binding protein 3 (Gata3), mRNA.
ILMN_1241161	0.741685478	10.9308125	6.428556229	4.24209E-05	0.027798689	2900075A18Rik	
ILMN_3148550	0.902400398	10.84504892	6.448692286	4.1233E-05	0.027798689	Golph2	Mus musculus golgi membrane protein 1 (Golm1), transcript variant 2, mRNA.
ILMN_2616164	0.638576814	10.82459353	6.380092506	4.54322E-05	0.027798689	Itga3	Mus musculus integrin alpha 3 (Itga3), mRNA.
ILMN_1224866	0.794851887	10.81529843	5.825905384	0.000101813	0.039817343	Ptgs1	
ILMN_2692980	0.510983263	10.81211296	5.675476894	0.000127677	0.043169518	BC035537	Mus musculus cDNA sequence BC035537 (BC035537), mRNA.
ILMN_2711267	1.177016892	10.7181593	7.654908729	8.26686E-06	0.013151466	Krt1-18	Mus musculus keratin 18 (Krt18), mRNA.
ILMN_1225370	0.786833164	10.46738293	6.739251884	2.75322E-05	0.027375055	2410039M03Rik	
ILMN_1252628	0.608624764	10.22911146	6.315778123	4.97852E-05	0.028552917	Mal2	Mus musculus mal, T-cell differentiation protein 2 (Mal2), mRNA.
ILMN_2671165	1.413609367	10.22253986	6.81147172	2.49451E-05	0.025912477	Krt1-23	Mus musculus keratin 23 (Krt23), mRNA.

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_2735429	1.155451574	10.09673129	6.547415346	3.59011E-05	0.027798689	AW146242	Mus musculus expressed sequence AW146242 (AW146242), mRNA.
ILMN_2596998	1.001524138	10.03801826	6.867066617	2.31308E-05	0.025912477	2310010M24Rik	Mus musculus RIKEN cDNA 2310010M24 gene (2310010M24Rik), mRNA.
ILMN_2621448	1.682610683	9.96837779	11.4343203	1.42823E-07	0.001136061	Adh7	Mus musculus alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide (Adh7), mRNA.
ILMN_1253387	1.246493356	9.927408628	7.157782387	1.56845E-05	0.022016435	Klf5	
ILMN_1259252	0.826846606	9.845615845	5.581528401	0.000147303	0.044494889	Anxa1	
ILMN_2422360	0.915433834	9.843267832	6.0310689	7.51507E-05	0.036598412	1110036D12Rik	
ILMN_2766755	0.755496651	9.837692765	5.633551719	0.000136069	0.043195845	1700012H17Rik	
ILMN_1233864	0.71358534	9.673551523	5.803402607	0.000105299	0.039817343	Ptgs1	
ILMN_2604189	1.080989693	9.588755077	9.734987616	7.57134E-07	0.003011248	Avpr2	Mus musculus arginine vasopressin receptor 2 (Avpr2), mRNA.
ILMN_1236727	1.21059246	9.536858898	5.529510121	0.000159525	0.046996794	C730031G17	Mus musculus UDP glucuronosyltransferase 2 family, polypeptide B35 (Ugt2b35), mRNA.
ILMN_2437682	0.54841457	9.43348892	5.732672104	0.000117104	0.04238897	2810029C07Rik	
ILMN_1239239	0.640375542	9.430629157	5.626331455	0.000137572	0.043195845	Ptgs1	
ILMN_1218538	0.768597381	9.425563432	5.88948846	9.26112E-05	0.039817343	E130115E03Rik	
ILMN_1245768	0.550998119	9.392609772	5.487958245	0.000170059	0.049144223	Ica1	Mus musculus islet cell autoantigen 1 (Ica1), mRNA.
ILMN_2779858	1.259138644	9.282996503	6.051695619	7.29147E-05	0.036598412	S100a14	Mus musculus S100 calcium binding protein A14 (S100a14), mRNA.
ILMN_2775307	0.605735587	9.2259769	5.798505785	0.000106074	0.039817343	Lamc2	
ILMN_2777308	2.031110694	9.21239349	8.954096124	1.76625E-06	0.004717087	S100a14	
ILMN_2685733	0.885904856	9.155994761	6.309205714	5.02545E-05	0.028552917	4732474O15Rik	
ILMN_2754155	0.963034504	9.003705432	5.846908653	9.86704E-05	0.039817343	Gpr126	
ILMN_2640239	0.678013187	8.670964418	7.341959696	1.23291E-05	0.018388011	Pqlc3	Mus musculus PQ loop repeat containing (Pqlc3), mRNA.
ILMN_1233243	1.23663557	8.617418087	6.388337087	4.49042E-05	0.027798689	1110019C06Rik	
ILMN_2752454	1.116668481	8.498096103	10.37795288	3.92304E-07	0.001872309	3830408G10Rik	
ILMN_3015003	0.609276865	8.294341629	5.642064384	0.000134319	0.043195845	Nrxn2	Mus musculus neurexin II (Nrxn2), mRNA.
ILMN_2908070	0.827279241	8.225626154	6.568514404	3.486E-05	0.027798689	Gtse1	Mus musculus G two S phase expressed protein 1 (Gtse1), mRNA.
ILMN_1233962	0.609411169	8.082175325	5.484633036	0.000170933	0.049144223	Lamc2	
ILMN_3050451	0.792347298	8.061570459	8.947648674	1.77906E-06	0.004717087	Dbndd2	Mus musculus dysbindin (dystrobrevin binding protein 1) domain containing 2 (Dbndd2), transcript variant 1, mRNA.

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_1241151	0.702203166	8.018962305	6.239983988	5.54933E-05	0.030266185	A930016D02Rik	Mus musculus leucine-rich repeats and transmembrane domains 1 (Lrtm1), mRNA.
ILMN_2621507	0.882684039	7.977211825	6.415992999	4.31805E-05	0.027798689	Ros1	
ILMN_1237572	1.0431227	7.945797817	6.181555483	6.03686E-05	0.032012781	Aard	
ILMN_1241322	1.744920126	7.784839324	16.3643318	3.0496E-09	7.27727E-05	Casp14	Mus musculus caspase 14 (Casp14), mRNA.
ILMN_1245816	1.044002556	7.690570252	7.924917409	5.9092E-06	0.011428528	Raet1b	Mus musculus retinoic acid early transcript beta (Raet1b), mRNA.
ILMN_3158725	1.15092932	7.676638605	9.145038562	1.42836E-06	0.004717087	Raet1b	Mus musculus retinoic acid early transcript beta (Raet1b), mRNA.
ILMN_3079461	0.787441269	7.650679393	6.671494289	3.02215E-05	0.027737514	Raet1b	Mus musculus retinoic acid early transcript beta (Raet1b), mRNA.
ILMN_2629519	0.702790205	7.552929788	5.639962802	0.000134749	0.043195845	Cryba2	Mus musculus crystallin, beta A2 (Cryba2), mRNA.
ILMN_2658198	0.565156784	7.545841042	5.469099289	0.00017508	0.049737433	Gpr123	
ILMN_2898886	1.087614578	7.415308287	5.929855613	8.72312E-05	0.039295409	OTTMUSG00000010673	Mus musculus predicted gene, OTTMUSG00000010673 (OTTMUSG00000010673), mRNA. XM_902030 XM_902032 XM_902035 XM_918501

Appendix I (a6)

List of downregulated genes: Fh1-/- Hif-1a-/- vs Fh1-/- kidneys.

ID	logFC	AveExpr	t	P.Value	adj.P.Val	Symbol	Definition
ILMN_1257965	-0.649613163	14.8841432	-5.929512055	8.72756E-05	0.039295409	Ldh1	Mus musculus lactate dehydrogenase A (Ldha), mRNA.
ILMN_2651886	-0.579610183	14.87623507	-7.831878357	6.62776E-06	0.011428528	Pgk1	
ILMN_2987107	-1.34313245	13.55471331	-10.67050504	2.9409E-07	0.00175447	2310056P07Rik	Mus musculus RIKEN cDNA 2310056P07 gene (2310056P07Rik), mRNA.
ILMN_2701233	-0.963403218	12.61205073	-5.713228341	0.00012059	0.04238897	Fgf1	
ILMN_2591127	-0.587664422	12.55883699	-7.023660315	1.87387E-05	0.0248423	MGC68323	Mus musculus predicted gene, EG277333 (EG277333), mRNA.
ILMN_2917471	-0.60971012	11.57402854	-5.958314442	8.36386E-05	0.039134653	Ednrb	Mus musculus endothelin receptor type B (Ednrb), mRNA.
ILMN_1225764	-1.368453769	11.16646093	-5.583416942	0.000146879	0.044494889	1700018O18Rik	
ILMN_1229318	-1.109955151	10.765041	-6.599872743	3.33719E-05	0.027798689	Pdk1	
ILMN_2644630	-0.924194339	10.09739795	-5.702461084	0.000122568	0.04238897	Hig1	Mus musculus HIG1 domain family, member 1A (Higd1a), mRNA.
ILMN_2430422	-1.148170935	9.727914517	-7.822538852	6.70491E-06	0.011428528	Gpi1	
ILMN_1215862	-0.801329289	9.690213497	-5.649514867	0.000132807	0.043195845	Cxcl9	
ILMN_1250001	-2.888798782	9.267416743	-12.37111423	6.21773E-08	0.000741868	4930583H14Rik	Mus musculus RIKEN cDNA 4930583H14 gene (4930583H14Rik), mRNA.
ILMN_2667463	-1.33069462	9.26597412	-5.600176232	0.000143167	0.044368784	9430098E02Rik	
ILMN_2615672	-1.013867009	9.19401681	-5.712112701	0.000120794	0.04238897	C330008K14Rik	
ILMN_2595857	-1.321882057	9.186172484	-8.418593053	3.26568E-06	0.00779288	2310006J04Rik	
ILMN_1244845	-0.635914056	9.154198062	-5.794019573	0.000106789	0.039817343	4430402O11Rik	Mus musculus nuclear prelamin A recognition factor (Narf), mRNA.
ILMN_2682321	-0.515191515	9.090221738	-5.712975342	0.000120636	0.04238897	Armc6	
ILMN_2776728	-0.816983534	9.037931364	-6.533163988	3.6623E-05	0.027798689	2610305D13Rik	
ILMN_1228470	-1.276945815	8.491893567	-6.236067766	5.58066E-05	0.030266185	Pdxp	
ILMN_2584574	-0.666089458	8.457141392	-6.06406829	7.16076E-05	0.036598412	5430405G05Rik	
ILMN_2511256	-1.167895528	7.429684127	-6.687234948	2.95726E-05	0.027737514	Hif1a	

Appendix I (b1)

Gene Ontology Analysis (GSEA): Upregulated pathways in Fh1-/- vs Fh1+/+ kidneys.

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX	LEADING EDGE
INFLAMMATORY_RESPONSE	70	0.5923087	2.3177626	0	0	0	2485	tags=40%, list=15%, signal=47%
DEFENSE_RESPONSE	125	0.5477386	2.3098352	0	0	0	2485	tags=37%, list=15%, signal=43%
SMALL_GTPASE_MEDIATED_SIGNAL_TRANSDUCTION	67	0.58106005	2.2084022	0	4.16E-04	0.001	3563	tags=51%, list=21%, signal=64%
RESPONSE_TO_EXTERNAL_STIMULUS	176	0.48588455	2.139632	0	0.001210812	0.004	2539	tags=34%, list=15%, signal=39%
IMMUNE_SYSTEM_PROCESS	179	0.47913033	2.1005952	0	0.001729484	0.007	4737	tags=55%, list=28%, signal=76%
LEUKOCYTE_ACTIVATION	28	0.6481653	2.0811994	0	0.003345896	0.016	2768	tags=57%, list=16%, signal=68%
REGULATION_OF_CELL_PROLIFERATION	187	0.4637636	2.0586882	0	0.00377575	0.021	3679	tags=45%, list=22%, signal=57%
RAS_PROTEIN_SIGNAL_TRANSDUCTION	53	0.55537593	2.0515242	0	0.003303781	0.021	3563	tags=49%, list=21%, signal=62%
POSITIVE_REGULATION_OF_CELL_PROLIFERATION	87	0.5062373	2.0340543	0	0.003779506	0.027	4126	tags=52%, list=24%, signal=68%
IMMUNE_RESPONSE	125	0.4830938	2.0284996	0	0.003772667	0.03	4735	tags=55%, list=28%, signal=76%
CELL_ACTIVATION	30	0.6306919	2.0195184	0	0.003902573	0.034	2768	tags=53%, list=16%, signal=64%
CELL_CELL_SIGNALING	172	0.45900816	2.0152147	0	0.004120068	0.039	2615	tags=30%, list=15%, signal=35%
POSITIVE_REGULATION_OF_CELLULAR_PROCESS	423	0.4207541	2.008736	0	0.00399789	0.041	3690	tags=39%, list=22%, signal=48%
RESPONSE_TO_WOUNDING	110	0.4907732	2.0058258	0	0.003895392	0.043	2536	tags=36%, list=15%, signal=42%
ANATOMICAL_STRUCTURE_MORPHOGENESIS	220	0.43852678	1.9883935	0	0.004817415	0.056	3785	tags=43%, list=22%, signal=55%
POSITIVE_REGULATION_OF_BIOLOGICAL_PROCESS	440	0.4128166	1.9841841	0	0.004841004	0.06	3690	tags=38%, list=22%, signal=47%
HEMOPOIETIC_OR_LYMPHOID_ORGAN_DEVELOPMENT	46	0.560034	1.9669598	0	0.00568662	0.075	3730	tags=57%, list=22%, signal=72%
CELL_SURFACE_RECEPTOR_LINKED_SIGNAL_TRANSDUCTION_GO_0007166	315	0.4192103	1.9626195	0	0.005588954	0.078	3828	tags=42%, list=22%, signal=53%
ORGAN_MORPHOGENESIS	79	0.49506167	1.9586538	0	0.005627083	0.083	3776	tags=52%, list=22%, signal=66%
LYMPHOCYTE_ACTIVATION	26	0.62360615	1.9572635	0	0.005345729	0.083	3679	tags=62%, list=22%, signal=78%
HEMOPOIESIS	45	0.5489177	1.9557374	0	0.005392331	0.088	3730	tags=56%, list=22%, signal=71%
RHO_PROTEIN_SIGNAL_TRANSDUCTION	32	0.5955094	1.9528186	0	0.0053207	0.09	3563	tags=53%, list=21%, signal=67%
RESPONSE_TO_OTHER_ORGANISM	33	0.59355855	1.9522147	0.001592357	0.005143469	0.09	3820	tags=58%, list=22%, signal=74%
IMMUNE_SYSTEM_DEVELOPMENT	49	0.53911954	1.94254	0	0.005298823	0.096	3730	tags=55%, list=22%, signal=70%
RESPONSE_TO_BIOTIC_STIMULUS	53	0.52510405	1.9202106	0	0.006760967	0.123	4182	tags=57%, list=24%, signal=75%
NEGATIVE_REGULATION_OF_BIOLOGICAL_PROCESS	427	0.39903182	1.9159076	0	0.006697984	0.126	3015	tags=32%, list=18%, signal=38%
CELL_PROLIFERATION_GO_0008283	310	0.4088948	1.9158887	0	0.006449911	0.126	4126	tags=44%, list=24%, signal=57%
REGULATION_OF_LYMPHOCYTE_ACTIVATION	19	0.6555403	1.9110767	0	0.006673608	0.135	3679	tags=68%, list=22%, signal=87%
RESPONSE_TO_VIRUS	26	0.61710584	1.906858	0	0.006798502	0.143	3015	tags=54%, list=18%, signal=65%
INTRACELLULAR_SIGNALING_CASCADE	410	0.3966137	1.9056878	0	0.006744105	0.147	2861	tags=30%, list=17%, signal=36%
REGULATION_OF_I_KAPPAB_KINASE_NF_KAPPAB_CASCADE	62	0.5081537	1.893655	0	0.007553442	0.167	3313	tags=44%, list=19%, signal=54%
PROTEIN_KINASE_CASCADE	197	0.41791728	1.8558296	0	0.011518371	0.247	2841	tags=31%, list=17%, signal=37%
REGULATION_OF_SIGNAL_TRANSDUCTION	136	0.4393492	1.8495464	0	0.011907023	0.262	3875	tags=43%, list=23%, signal=55%
HUMORAL_IMMUNE_RESPONSE	18	0.657993	1.8474962	0	0.011897272	0.268	4991	tags=78%, list=29%, signal=110%
REGULATION_OF_DNA_METABOLIC_PROCESS	32	0.56498015	1.8466957	0.001633987	0.01155735	0.268	4607	tags=69%, list=27%, signal=94%
NEGATIVE_REGULATION_OF_CELLULAR_PROCESS	413	0.39026454	1.8457582	0	0.011344729	0.27	3015	tags=32%, list=18%, signal=38%
LOCOMOTORY_BEHAVIOR	47	0.5187958	1.8393039	0	0.01224334	0.292	2539	tags=34%, list=15%, signal=40%
PEPTIDYL_TYROSINE_MODIFICATION	16	0.66818094	1.8387507	0.001639344	0.012055489	0.296	1879	tags=44%, list=11%, signal=49%
MULTI_ORGANISM_PROCESS	67	0.47833255	1.8318859	0.001443001	0.012557768	0.313	1728	tags=30%, list=10%, signal=33%
POSITIVE_REGULATION_OF_I_KAPPAB_KINASE_NF_KAPPAB_CASCADE	59	0.49451283	1.8234577	0	0.013073556	0.33	3313	tags=42%, list=19%, signal=52%
POSITIVE_REGULATION_OF_SIGNAL_TRANSDUCTION	77	0.46779484	1.8227774	0	0.012846954	0.332	3353	tags=40%, list=20%, signal=50%
CYTOSKELETON_ORGANIZATION_AND_BIOGENESIS	137	0.4238644	1.8179443	0	0.013364717	0.351	3670	tags=42%, list=21%, signal=53%
T_CELL_ACTIVATION	18	0.6328268	1.8130684	0.008361204	0.013830545	0.368	3679	tags=67%, list=22%, signal=85%
ACTIN_CYTOSKELETON_ORGANIZATION_AND_BIOGENESIS	72	0.46273014	1.8034828	0.001468429	0.015239354	0.404	4442	tags=49%, list=26%, signal=65%
CELL_CYCLE_CHECKPOINT_GO_0000075	32	0.54213566	1.8031003	0	0.014900701	0.404	4267	tags=59%, list=25%, signal=79%
REGULATION_OF_IMMUNE_SYSTEM_PROCESS	31	0.54119664	1.8008379	0.003189793	0.015079485	0.412	4735	tags=65%, list=28%, signal=89%
MITOTIC_CELL_CYCLE	102	0.43783844	1.7987459	0	0.015082712	0.42	3867	tags=43%, list=23%, signal=55%
REGULATION_OF_CELLULAR_METABOLIC_PROCESS	471	0.37134758	1.7964804	0	0.015180641	0.429	4657	tags=42%, list=27%, signal=56%
BEHAVIOR	65	0.46788028	1.7872692	0.002869441	0.016665729	0.468	2539	tags=32%, list=15%, signal=38%
REGULATION_OF_METABOLIC_PROCESS	479	0.37234417	1.787237	0	0.01635722	0.468	4657	tags=42%, list=27%, signal=56%
I_KAPPAB_KINASE_NF_KAPPAB_CASCADE	75	0.4620683	1.7824798	0	0.016814172	0.48	3313	tags=37%, list=19%, signal=46%
REGULATION_OF_T_CELL_ACTIVATION	15	0.6667743	1.7791636	0.001709402	0.017182095	0.493	4275	tags=80%, list=25%, signal=107%
ORGAN_DEVELOPMENT	315	0.38007092	1.7721559	0	0.018585246	0.528	2807	tags=31%, list=16%, signal=36%
TRANSMEMBRANE_RECEPTOR_PROTEIN_SERINE_THREONINE_KINASE_SIGNALING_PATHWAY	30	0.5484774	1.7713641	0.00317965	0.018407047	0.531	4087	tags=53%, list=24%, signal=70%
REGULATION_OF_NUCLEOBASE__NUCLEOSIDE__NUCLEOTIDE_AND_NUCLEIC_ACID_METABOLIC_PROCESS	378	0.3728982	1.7710465	0	0.018190224	0.533	4617	tags=42%, list=27%, signal=56%
SYSTEM_DEVELOPMENT	455	0.36834824	1.7679263	0	0.018551825	0.551	3737	tags=36%, list=22%, signal=44%
PROTEIN_AMINO_ACID_PHOSPHORYLATION	190	0.40038046	1.7652934	0	0.018794253	0.561	2833	tags=31%, list=17%, signal=37%
PEPTIDYL_AMINO_ACID_MODIFICATION	38	0.51488054	1.763385	0.004823151	0.01893201	0.572	3062	tags=39%, list=18%, signal=48%
CELL_CYCLE_GO_0007049	211	0.38937464	1.7623483	0	0.018910863	0.578	4111	tags=41%, list=24%, signal=54%
NEGATIVE_REGULATION_OF_CELL_PROLIFERATION	99	0.42958292	1.7598538	0	0.019147817	0.588	2760	tags=37%, list=16%, signal=44%
RESPONSE_TO_EXTRACELLULAR_STIMULUS	23	0.5749108	1.7567353	0.003262643	0.019500295	0.597	229	tags=22%, list=1%, signal=22%
RESPONSE_TO_HORMONE_STIMULUS	23	0.56818384	1.7498888	0.013201321	0.02046426	0.617	2793	tags=35%, list=16%, signal=42%
CELL_CYCLE_PROCESS	128	0.41298622	1.7489009	0	0.02032189	0.624	3867	tags=41%, list=23%, signal=53%
VASCULATURE_DEVELOPMENT	34	0.5189833	1.7467439	0.002962963	0.020424485	0.632	3690	tags=56%, list=22%, signal=71%
PHOSPHORYLATION	213	0.3879562	1.7426696	0	0.020816807	0.646	2943	tags=31%, list=17%, signal=37%
POSITIVE_REGULATION_OF_LYMPHOCYTE_ACTIVATION	15	0.63993907	1.7421846	0.012006861	0.020579133	0.647	4607	tags=80%, list=27%, signal=109%
NEGATIVE_REGULATION_OF_CATALYTIC_ACTIVITY	45	0.48627993	1.7421296	0.001552795	0.020271983	0.647	1856	tags=27%, list=11%, signal=30%
CELL_DEVELOPMENT	373	0.3645568	1.7316504	0	0.022375938	0.682	2975	tags=29%, list=17%, signal=35%
GLUCOSE_METABOLIC_PROCESS	18	0.5967862	1.729345	0.008561644	0.022570878	0.692	2122	tags=44%, list=12%, signal=51%
REGULATION_OF_GENE_EXPRESSION	395	0.36163262	1.7274423	0	0.022710912	0.7	4617	tags=41%, list=27%, signal=54%

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX	LEADING EDGE
TRANSFORMING_GROWTH_FACTOR_BETA_RECEPTOR_SIGNALING_PATHWAY	23	0.56764954	1.7262532	0.003378379	0.02266135	0.701	4087	tags=57%, list=24%, signal=74%
POSITIVE_REGULATION_OF_DEVELOPMENTAL_PROCESS	149	0.39839327	1.7239095	0	0.022935571	0.705	3767	tags=38%, list=22%, signal=48%
REGULATION_OF_PROTEIN_METABOLIC_PROCESS	96	0.42291108	1.7224219	0.001383126	0.023057222	0.71	4628	tags=46%, list=27%, signal=62%
MITOTIC_CELL_CYCLE_CHECKPOINT	15	0.6322859	1.7173672	0.007168459	0.024073968	0.727	3758	tags=67%, list=22%, signal=85%
G_PROTEIN_COUPLED_RECEPTOR_PROTEIN_SIGNALING_PATHWAY	137	0.40124312	1.7032553	0.001321004	0.027423134	0.781	3794	tags=42%, list=22%, signal=53%
ACTIN_FILAMENT_BASED_PROCESS	79	0.43335512	1.7028974	0.001388889	0.027163303	0.782	4117	tags=44%, list=24%, signal=58%
MUSCLE_DEVELOPMENT	57	0.45610175	1.6942337	0.010174419	0.029421436	0.816	4126	tags=46%, list=24%, signal=60%
CELL_PROJECTION_BIOGENESIS	21	0.55881155	1.6876667	0.019097222	0.03090063	0.848	3534	tags=48%, list=21%, signal=60%
REGULATION_OF_DEVELOPMENTAL_PROCESS	294	0.36456758	1.6870675	0	0.030704752	0.848	2975	tags=30%, list=17%, signal=36%
NEGATIVE_REGULATION_OF_PROTEIN_METABOLIC_PROCESS	29	0.5183184	1.686178	0.018272426	0.030610096	0.85	3770	tags=41%, list=22%, signal=53%
REGULATION_OF_TRANSCRIPTION	342	0.35772043	1.6847217	0	0.030670444	0.854	4766	tags=41%, list=28%, signal=56%
PROTEIN_IMPORT_INTO_NUCLEUS	37	0.49415457	1.6845808	0.004601227	0.030373646	0.855	2063	tags=30%, list=12%, signal=34%
REGULATION_OF_CELL_CYCLE	121	0.40366396	1.6826513	0	0.030502615	0.86	5038	tags=55%, list=29%, signal=77%
NUCLEAR_IMPORT	38	0.492486	1.6824238	0.005997002	0.030201651	0.861	2063	tags=29%, list=12%, signal=33%
NEGATIVE_REGULATION_OF_CELLULAR_PROTEIN_METABOLIC_PROCESS	27	0.5235159	1.6797711	0.010067114	0.030627988	0.872	1561	tags=26%, list=9%, signal=28%
NEGATIVE_REGULATION_OF_CELLULAR_METABOLIC_PROCESS	158	0.37705117	1.6768544	0.001270648	0.031177217	0.877	2542	tags=23%, list=15%, signal=27%
PROTEIN_AMINO_ACID_DEPHOSPHORYLATION	45	0.47129402	1.6663812	0.01037037	0.03398749	0.903	4614	tags=44%, list=27%, signal=61%
JAK_STAT_CASCADE	18	0.5815711	1.6631551	0.017271157	0.034517907	0.908	2088	tags=39%, list=12%, signal=44%
REGULATION_OF_TRANSPORT	40	0.47992545	1.6620054	0.011023622	0.03447907	0.911	2489	tags=30%, list=15%, signal=35%
REGULATION_OF_CELLULAR_PROTEIN_METABOLIC_PROCESS	87	0.41495535	1.6571624	0.001412429	0.035678618	0.917	4246	tags=41%, list=25%, signal=55%
EXOCYTOSIS	16	0.5858675	1.6538081	0.012455516	0.036214154	0.921	1173	tags=25%, list=7%, signal=27%
RESPONSE_TO_STRESS	341	0.34849074	1.6510236	0	0.036716506	0.924	2915	tags=29%, list=17%, signal=34%
NEGATIVE_REGULATION_OF_TRANSFERASE_ACTIVITY	29	0.5147177	1.6428185	0.011111111	0.038987663	0.936	4573	tags=52%, list=27%, signal=70%
TRANSCRIPTION	470	0.34324786	1.6421126	0	0.0388727	0.936	4617	tags=39%, list=27%, signal=51%
POST_TRANSLATIONAL_PROTEIN_MODIFICATION	326	0.3502264	1.6404288	0	0.03919022	0.939	2833	tags=27%, list=17%, signal=31%
MICROTUBULE_BASED_PROCESS	53	0.45443726	1.6392925	0.013392857	0.039138492	0.941	3480	tags=42%, list=20%, signal=52%
REGULATION_OF_APOPTOSIS	231	0.36028942	1.6388513	0.001204819	0.0389086	0.941	3363	tags=32%, list=20%, signal=39%
POSITIVE_REGULATION_OF_IMMUNE_SYSTEM_PROCESS	25	0.5227304	1.6370908	0.015075377	0.039123833	0.943	4735	tags=64%, list=28%, signal=88%
NEGATIVE_REGULATION_OF_METABOLIC_PROCESS	160	0.377301	1.6360995	0.001295337	0.03910215	0.944	3057	tags=27%, list=18%, signal=32%
REGULATION_OF_PROGRAMMED_CELL_DEATH	231	0.36028942	1.6347425	0	0.039146066	0.946	3363	tags=32%, list=20%, signal=39%
CELL_CYCLE_PHASE	112	0.3923847	1.6345352	0.003911343	0.038808543	0.946	3867	tags=42%, list=23%, signal=54%
PROGRAMMED_CELL_DEATH	288	0.35186833	1.6250101	0	0.041524455	0.956	2975	tags=28%, list=17%, signal=34%
TRANSLATION	115	0.3935084	1.6239996	0.00400534	0.041643426	0.958	3820	tags=44%, list=22%, signal=57%
APOPTOSIS_GO	288	0.35186833	1.618274	0	0.04309126	0.965	2975	tags=28%, list=17%, signal=34%
M_PHASE	66	0.42058188	1.613654	0.009859155	0.044492	0.97	3758	tags=45%, list=22%, signal=58%
ALCOHOL_METABOLIC_PROCESS	56	0.4396653	1.6133302	0.01459854	0.04420274	0.97	2318	tags=29%, list=14%, signal=33%
REGULATION_OF_TRANSCRIPTION__DNA_DEPENDENT	272	0.34875306	1.6127894	0	0.04401799	0.97	4766	tags=40%, list=28%, signal=54%
TRANSCRIPTION__DNA_DEPENDENT	392	0.33399534	1.6107358	0	0.044353105	0.971	4617	tags=37%, list=27%, signal=50%
REGULATION_OF_BIOLOGICAL_QUALITY	266	0.34637105	1.6043701	0	0.046287544	0.976	3362	tags=33%, list=20%, signal=41%
MITOSIS	48	0.4475112	1.6024559	0.019908117	0.046647593	0.978	2897	tags=42%, list=17%, signal=50%
CELL_CELL_ADHESION	57	0.43406004	1.600837	0.006973501	0.04686233	0.979	3673	tags=44%, list=21%, signal=56%
CELLULAR_CATION_HOMEOSTASIS	57	0.434433	1.5999428	0.007215007	0.04685584	0.979	2922	tags=39%, list=17%, signal=46%
REGULATION_OF_TRANSCRIPTION_FROM_RNA_POLYMERASE_II_PROMOTER	170	0.36451963	1.5962178	0.002617801	0.047841575	0.985	5222	tags=46%, list=31%, signal=65%
REGULATION_OF_RNA_METABOLIC_PROCESS	278	0.34555754	1.5948826	0	0.047927998	0.985	4766	tags=39%, list=28%, signal=53%
NEGATIVE_REGULATION_OF_DEVELOPMENTAL_PROCESS	131	0.37226564	1.5928382	0.003856041	0.048267376	0.986	2975	tags=34%, list=17%, signal=41%
CATION_HOMEOSTASIS	59	0.43167418	1.5913252	0.007215007	0.04834914	0.988	2922	tags=37%, list=17%, signal=45%
M_PHASE_OF_MITOTIC_CELL_CYCLE	49	0.44620925	1.5887386	0.018018018	0.048995223	0.989	2897	tags=41%, list=17%, signal=49%
ESTABLISHMENT_OF_ORGANELLE_LOCALIZATION	15	0.56853896	1.5885279	0.034722224	0.04862362	0.989	2787	tags=47%, list=16%, signal=56%
PHOSPHOINOSITIDE_MEDIATED_SIGNALING	22	0.52069664	1.5878731	0.021452146	0.04847409	0.989	1349	tags=27%, list=8%, signal=30%
ACTIN_POLYMERIZATION_AND_OR_DEPOLYMERIZATION	16	0.5690089	1.5858338	0.023890786	0.048878714	0.99	3247	tags=44%, list=19%, signal=54%
RNA_BIOSYNTHETIC_PROCESS	394	0.33400562	1.5814298	0	0.050279662	0.994	4766	tags=39%, list=28%, signal=52%
REGULATION_OF_CYTOKINE_BIOSYNTHETIC_PROCESS	18	0.55910075	1.5807222	0.02680067	0.05025306	0.994	3820	tags=50%, list=22%, signal=64%
CYTOKINESIS	16	0.5692102	1.5800029	0.02364865	0.05006073	0.994	1843	tags=31%, list=11%, signal=35%
TRANSCRIPTION_FROM_RNA_POLYMERASE_II_PROMOTER	283	0.34185573	1.5779814	0	0.050405696	0.994	5038	tags=40%, list=29%, signal=56%
CELL_MIGRATION	52	0.43079138	1.5750079	0.019637462	0.051289637	0.995	2710	tags=33%, list=16%, signal=39%
CELLULAR_DEFENSE_RESPONSE	19	0.540027	1.5719848	0.036020584	0.05218749	0.996	2014	tags=47%, list=12%, signal=54%
ANGIOGENESIS	29	0.4917108	1.5704663	0.021416804	0.05231763	0.996	3690	tags=52%, list=22%, signal=66%
MYELOID_CELL_DIFFERENTIATION	24	0.51194054	1.5689478	0.031613976	0.052578162	0.996	3690	tags=50%, list=22%, signal=64%
ANATOMICAL_STRUCTURE_FORMATION	34	0.4725354	1.5627145	0.02446982	0.05481702	0.996	3690	tags=50%, list=22%, signal=64%
POSITIVE_REGULATION_OF_NUCLEOBASE__NUCLEOSIDE__NUCLEOTIDE_AND_NUCLEIC_ACID_METABOLIC_PROCESS	98	0.38578844	1.56024	0.005420054	0.05544378	0.996	5394	tags=54%, list=32%, signal=79%
REGULATION_OF_CELL_ADHESION	27	0.4940369	1.5561513	0.03807947	0.05677701	0.997	3616	tags=44%, list=21%, signal=56%
G_PROTEIN_SIGNALING__COUPLED_TO_IP3_SECOND_MESSENGER__PHOSPHOLIPASE_C_ACTIVATING	20	0.52820414	1.5542567	0.037099496	0.057240404	0.997	1349	tags=30%, list=8%, signal=33%
POSITIVE_REGULATION_OF_CELLULAR_PROTEIN_METABOLIC_PROCESS	37	0.45126006	1.5528438	0.032863848	0.057433926	0.999	3820	tags=43%, list=22%, signal=56%
DEPHOSPHORYLATION	52	0.42692897	1.5470698	0.025373135	0.059568275	0.999	1549	tags=23%, list=9%, signal=25%
HOMEOSTATIC_PROCESS	125	0.36447015	1.5321971	0.001340483	0.06639883	1	3724	tags=38%, list=22%, signal=49%
ANTI_APOPTOSIS	84	0.38220218	1.5320162	0.005509642	0.06599499	1	2975	tags=35%, list=17%, signal=42%
REGULATION_OF_MITOSIS	24	0.49398047	1.531502	0.047468353	0.06572996	1	3758	tags=58%, list=22%, signal=75%
POSITIVE_REGULATION_OF_TRANSCRIPTION	92	0.37840796	1.5284799	0.009943182	0.06687443	1	5394	tags=53%, list=32%, signal=77%
CYTOKINE_METABOLIC_PROCESS	19	0.5228962	1.523023	0.041335452	0.069059834	1	3820	tags=47%, list=22%, signal=61%
POSITIVE_REGULATION_OF_PROTEIN_MODIFICATION_PROCESS	15	0.5624466	1.5224336	0.041025642	0.06885802	1	1154	tags=33%, list=7%, signal=36%

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CYTOKINE_BIOSYNTHETIC_PROCESS	19	0.5228962	1.5181276	0.04957265	0.07059767	1	3820	tags=47%, list=22%, signal=61%
CELL_DIVISION	18	0.53443724	1.5158975	0.050083473	0.07109288	1	3621	tags=39%, list=21%, signal=49%
DI___TRI_VALENT_INORGANIC_CATION_TRANSPORT	20	0.52092135	1.5151938	0.026711185	0.07094628	1	3352	tags=50%, list=20%, signal=62%
REGULATION_OF_MAP_KINASE_ACTIVITY	47	0.42568085	1.50943	0.023738872	0.07336835	1	2841	tags=28%, list=17%, signal=33%
ORGANELLE_LOCALIZATION	18	0.52218086	1.5087318	0.057142857	0.07331836	1	2787	tags=44%, list=16%, signal=53%
NERVOUS_SYSTEM_DEVELOPMENT	193	0.33993062	1.5054992	0.003764116	0.07463695	1	3636	tags=33%, list=21%, signal=41%
REGULATION_OF_CELL_DIFFERENTIATION	34	0.45236516	1.503292	0.034539472	0.075446315	1	4737	tags=56%, list=28%, signal=77%
CARBOHYDRATE_CATABOLIC_PROCESS	16	0.5379491	1.5030761	0.061359867	0.07510863	1	807	tags=31%, list=5%, signal=33%
RESPONSE_TO_NUTRIENT_LEVELS	20	0.505345	1.5023808	0.03902439	0.0750183	1	1334	tags=25%, list=8%, signal=27%
CELLULAR_CARBOHYDRATE_CATABOLIC_PROCESS	16	0.5379491	1.5001949	0.0519263	0.07584984	1	807	tags=31%, list=5%, signal=33%
REGULATION_OF_TRANSLATION	42	0.42986184	1.4999527	0.028148148	0.07549328	1	3820	tags=40%, list=22%, signal=52%
REGULATION_OF_MOLECULAR_FUNCTION	204	0.33446017	1.4984586	0.002522068	0.07598059	1	4047	tags=35%, list=24%, signal=45%
MICROTUBULE_CYTOSKELETON_ORGANIZATION_AND_BIOGENESIS	23	0.4909856	1.4965775	0.04269294	0.07639313	1	2474	tags=35%, list=14%, signal=41%
NEGATIVE_REGULATION_OF_PROGRAMMED_CELL_DEATH	105	0.36017093	1.4942908	0.019021738	0.077279925	1	3353	tags=36%, list=20%, signal=45%
INTERPHASE	54	0.40901124	1.4937536	0.03167421	0.077026494	1	4267	tags=44%, list=25%, signal=59%
POSITIVE_REGULATION_OF_PROTEIN_METABOLIC_PROCESS	39	0.43114525	1.4902031	0.03271028	0.07826992	1	3820	tags=41%, list=22%, signal=53%
REGULATION_OF_CELL_GROWTH	31	0.4536458	1.4890841	0.05237316	0.07830694	1	2711	tags=29%, list=16%, signal=34%
NUCLEOCYTOPLASMIC_TRANSPORT	67	0.38459492	1.4879463	0.020231213	0.07837136	1	4884	tags=45%, list=29%, signal=62%
NUCLEAR_TRANSPORT	68	0.38144484	1.4874369	0.027104137	0.07816083	1	4884	tags=44%, list=29%, signal=62%
REGULATION_OF_G_PROTEIN_COUPLED_RECEPTOR_PROTEIN_SIGNALING_PATHWAY	16	0.534738	1.4811941	0.058626465	0.081345454	1	3539	tags=50%, list=21%, signal=63%
CHEMICAL_HOMEOSTASIS	89	0.36528295	1.4758548	0.021428572	0.083891205	1	3323	tags=36%, list=19%, signal=44%
NEGATIVE_REGULATION_OF_APOPTOSIS	105	0.36017093	1.4733577	0.006934813	0.08484439	1	3353	tags=36%, list=20%, signal=45%
REGULATION_OF_CATALYTIC_ACTIVITY	173	0.33613172	1.4721589	0.010457517	0.08506654	1	2841	tags=25%, list=17%, signal=30%
POSITIVE_REGULATION_OF_RESPONSE_TO_STIMULUS	19	0.50932354	1.4673238	0.069536425	0.087371476	1	4735	tags=58%, list=28%, signal=80%
NEGATIVE_REGULATION_OF_MAP_KINASE_ACTIVITY	15	0.5415475	1.4640524	0.07008547	0.08887432	1	4573	tags=60%, list=27%, signal=82%
REGULATION_OF_PHOSPHORYLATION	24	0.47219047	1.4633745	0.07284768	0.08878592	1	1502	tags=29%, list=9%, signal=32%
DNA_REPLICATION	72	0.37873596	1.4623308	0.03314121	0.08897849	1	4749	tags=49%, list=28%, signal=67%
POSITIVE_REGULATION_OF_CELLULAR_METABOLIC_PROCESS	132	0.34406552	1.4612821	0.010362694	0.08905272	1	4862	tags=45%, list=28%, signal=63%
MEMBRANE_ORGANIZATION_AND_BIOGENESIS	92	0.36555612	1.4598802	0.0179558	0.08935442	1	4131	tags=43%, list=24%, signal=57%
PROTEIN_COMPLEX_ASSEMBLY	132	0.3446182	1.4596717	0.016348774	0.08894163	1	4328	tags=40%, list=25%, signal=53%
CALCIUM_ION_TRANSPORT	15	0.52485454	1.4512147	0.06571936	0.09375737	1	3352	tags=53%, list=20%, signal=66%
RESPONSE_TO_CHEMICAL_STIMULUS	188	0.32367992	1.4503057	0.002534854	0.093740955	1	2793	tags=26%, list=16%, signal=30%
VESICLE_MEDIATED_TRANSPORT	132	0.34765548	1.4484432	0.012362638	0.09439013	1	4114	tags=37%, list=24%, signal=48%
POSITIVE_REGULATION_OF_METABOLIC_PROCESS	136	0.33916074	1.4426533	0.017567568	0.09747345	1	4617	tags=43%, list=27%, signal=58%
REGULATION_OF_TRANSFERASE_ACTIVITY	108	0.34828603	1.4378484	0.024390243	0.10015155	1	2841	tags=26%, list=17%, signal=31%
POSITIVE_REGULATION_OF_RNA_METABOLIC_PROCESS	72	0.3694851	1.4306234	0.035190616	0.104678124	1	5348	tags=53%, list=31%, signal=76%
POSITIVE_REGULATION_OF_TRANSCRIPTION__DNA_DEPENDENT	72	0.3694851	1.4300643	0.033236995	0.10446347	1	5348	tags=53%, list=31%, signal=76%
DNA_DEPENDENT_DNA_REPLICATION	36	0.42080277	1.4284964	0.060702875	0.104990676	1	4749	tags=47%, list=28%, signal=65%
COENZYME_METABOLIC_PROCESS	29	0.4401942	1.4228414	0.083333336	0.108469486	1	575	tags=17%, list=3%, signal=18%
ENDOSOME_TRANSPORT	16	0.500188	1.4210372	0.078947365	0.109202765	1	3300	tags=38%, list=19%, signal=46%
REGULATION_OF_PROTEIN_KINASE_ACTIVITY	104	0.34527996	1.4208741	0.03504043	0.10872101	1	2841	tags=26%, list=17%, signal=31%
REGULATION_OF_INTRACELLULAR_TRANSPORT	19	0.49153337	1.4204564	0.07482993	0.108503126	1	6182	tags=68%, list=36%, signal=107%
CELL_SUBSTRATE_ADHESION	27	0.45116705	1.4179868	0.07575758	0.10948783	1	4120	tags=48%, list=24%, signal=63%
PROTEIN_IMPORT	48	0.3981003	1.4170263	0.05074627	0.109571524	1	2063	tags=25%, list=12%, signal=28%
ORGANELLE_ORGANIZATION_AND_BIOGENESIS	324	0.29968956	1.4152268	0.002306805	0.11020784	1	4628	tags=40%, list=27%, signal=54%
IMMUNE_EFFECTOR_PROCESS	16	0.5055082	1.4148275	0.08040201	0.10998707	1	4735	tags=63%, list=28%, signal=86%
PROTEIN_MODIFICATION_PROCESS	432	0.2955178	1.4144274	0	0.109708965	1	2943	tags=24%, list=17%, signal=29%
MAPKKK_CASCADE_GO_0000165	70	0.3666742	1.4143002	0.039647575	0.10923915	1	2841	tags=30%, list=17%, signal=36%
ION_HOMEOSTASIS	70	0.36505717	1.4134171	0.051136363	0.109302394	1	2922	tags=34%, list=17%, signal=41%
REGULATION_OF_KINASE_ACTIVITY	106	0.33904743	1.4023421	0.033647377	0.11674853	1	2841	tags=25%, list=17%, signal=30%
BIOPOLYMER_MODIFICATION	445	0.29198095	1.4009378	0.003318584	0.117070444	1	2943	tags=24%, list=17%, signal=28%
TISSUE_DEVELOPMENT	71	0.36439297	1.4008905	0.056417488	0.11646765	1	2536	tags=28%, list=15%, signal=33%
EMBRYONIC_DEVELOPMENT	36	0.4173203	1.4004925	0.0601626	0.11616729	1	4016	tags=47%, list=23%, signal=62%
REGULATION_OF_NUCLEOCYTOPLASMIC_TRANSPORT	17	0.4951939	1.3967931	0.10033445	0.11850452	1	6182	tags=71%, list=36%, signal=110%
RECEPTOR_MEDIATED_ENDOCYTOSIS	22	0.45055798	1.3916115	0.08374384	0.12184526	1	1026	tags=27%, list=6%, signal=29%
NEGATIVE_REGULATION_OF_NUCLEOBASE__NUCLEOSIDE__NUCLEOTIDE_AND_NUCLEIC_ACID_METABOLIC_PROCESS	127	0.32663977	1.389652	0.020806242	0.12278457	1	2542	tags=22%, list=15%, signal=26%
CELLULAR_HOMEOSTASIS	84	0.3507694	1.3877045	0.058073655	0.123540014	1	2559	tags=30%, list=15%, signal=35%
MACROMOLECULAR_COMPLEX_ASSEMBLY	199	0.3110364	1.3870013	0.009864365	0.12351052	1	4328	tags=37%, list=25%, signal=49%
RHYTHMIC_PROCESS	17	0.49025664	1.3854209	0.10114192	0.12419163	1	1139	tags=24%, list=7%, signal=25%
NEGATIVE_REGULATION_OF_TRANSCRIPTION	112	0.33207634	1.3827468	0.042465754	0.12570961	1	2542	tags=22%, list=15%, signal=26%
CELLULAR_COMPONENT_ASSEMBLY	209	0.30559996	1.380367	0.013513514	0.1268512	1	4328	tags=37%, list=25%, signal=49%
CELL_MATRIX_ADHESION	26	0.44197115	1.3755645	0.10048623	0.13036938	1	5929	tags=65%, list=35%, signal=100%
SYSTEM_PROCESS	258	0.30025047	1.3749952	0.018957347	0.13013242	1	2291	tags=21%, list=13%, signal=24%
POSITIVE_REGULATION_OF_CELLULAR_COMPONENT_ORGANIZATION_AND_BIOGENESIS	24	0.44773397	1.368774	0.10526316	0.13495083	1	2784	tags=38%, list=16%, signal=45%
COAGULATION	27	0.4266867	1.3683661	0.11269841	0.1346937	1	997	tags=26%, list=6%, signal=27%
RESPONSE_TO_HYPOXIA	23	0.43859318	1.365311	0.111658454	0.1365343	1	3621	tags=48%, list=21%, signal=61%
CYTOKINE_PRODUCTION	33	0.4096181	1.3607477	0.1042654	0.13973692	1	3820	tags=39%, list=22%, signal=51%
BLOOD_COAGULATION	27	0.4266867	1.3583837	0.090460524	0.14102563	1	997	tags=26%, list=6%, signal=27%
LEUKOCYTE_DIFFERENTIATION	20	0.46427765	1.3582777	0.12038523	0.14045471	1	3690	tags=50%, list=22%, signal=64%
DNA_METABOLIC_PROCESS	190	0.30585384	1.3472834	0.025188917	0.1496506	1	2984	tags=27%, list=17%, signal=33%

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RESPONSE_TO_ENDOGENOUS_STIMULUS	145	0.3144847	1.3446046	0.034974094	0.15137932	1	2891	tags=26%, list=17%, signal=30%
REGULATION_OF_ANATOMICAL_STRUCTURE_MORPHOGENESIS	23	0.43739513	1.3436662	0.11241611	0.1515669	1	2784	tags=43%, list=16%, signal=52%
REPRODUCTION	117	0.31645873	1.3403342	0.055925433	0.15418819	1	2176	tags=21%, list=13%, signal=24%
NEGATIVE_REGULATION_OF_CELLULAR_COMPONENT_ORGANIZATION_AND_BIOGENESIS	25	0.42906854	1.336552	0.1127451	0.15691744	1	3480	tags=44%, list=20%, signal=55%
SECOND_MESSENGER_MEDIATED_SIGNALING	63	0.35437313	1.333427	0.09251101	0.15944147	1	3352	tags=33%, list=20%, signal=41%
ENZYME_LINKED_RECEPTOR_PROTEIN_SIGNALING_PATHWAY	89	0.3325264	1.3329093	0.072150074	0.15918183	1	4442	tags=42%, list=26%, signal=56%
REGULATION_OF_CELLULAR_COMPONENT_ORGANIZATION_AND_BIOGENESIS	83	0.33636764	1.3308034	0.07890961	0.16043517	1	4432	tags=41%, list=26%, signal=55%
REGULATION_OF_RESPONSE_TO_STIMULUS	28	0.41489998	1.3304515	0.10114192	0.16000396	1	4735	tags=50%, list=28%, signal=69%
RESPONSE_TO_DRUG	16	0.4792465	1.3270239	0.13065326	0.16252668	1	995	tags=31%, list=6%, signal=33%
INTERPHASE_OF_MITOTIC_CELL_CYCLE	49	0.37199685	1.3266073	0.11261261	0.16221736	1	3867	tags=37%, list=23%, signal=47%
HEMOSTASIS	30	0.4079699	1.326456	0.10634921	0.16163369	1	1730	tags=30%, list=10%, signal=33%
G_PROTEIN_SIGNALING__COUPLED_TO_CAMP_NUCLEOTIDE_SECOND_MESSENGER	24	0.42970726	1.325243	0.12833333	0.16198705	1	1480	tags=25%, list=9%, signal=27%
CELLULAR_BIOSYNTHETIC_PROCESS	211	0.29244918	1.3175542	0.04417178	0.16900368	1	3820	tags=35%, list=22%, signal=45%
ESTABLISHMENT_AND_OR_MAINTENANCE_OF_CHROMATIN_ARCHITECTURE	55	0.35514268	1.3137759	0.1109375	0.17198673	1	5517	tags=51%, list=32%, signal=75%
PATTERN_SPECIFICATION_PROCESS	18	0.45389196	1.3087366	0.15497553	0.17624561	1	4016	tags=50%, list=23%, signal=65%
EPIDERMIS_DEVELOPMENT	37	0.38061023	1.3070877	0.116719246	0.17732996	1	1703	tags=24%, list=10%, signal=27%
FEMALE_PREGNANCY	17	0.46705392	1.3068851	0.14821124	0.17676698	1	911	tags=24%, list=5%, signal=25%
REGULATION_OF_CYTOSKELETON_ORGANIZATION_AND_BIOGENESIS	20	0.4480589	1.3034439	0.15619694	0.17958538	1	3480	tags=40%, list=20%, signal=50%
CAMP_MEDIATED_SIGNALING	25	0.41406372	1.298856	0.14098361	0.1836677	1	1480	tags=24%, list=9%, signal=26%
CARBOHYDRATE_TRANSPORT	16	0.47313893	1.2945075	0.15151516	0.1876424	1	701	tags=19%, list=4%, signal=20%
TRANSMISSION_OF_NERVE_IMPULSE	72	0.33360893	1.2881823	0.1173913	0.19365233	1	2494	tags=25%, list=15%, signal=29%
NEGATIVE_REGULATION_OF_CELL_CYCLE	54	0.349837	1.2798007	0.125	0.20270184	1	4111	tags=39%, list=24%, signal=51%
POSITIVE_REGULATION_OF_TRANSLATION	15	0.4757854	1.2790565	0.19039735	0.20268013	1	6157	tags=73%, list=36%, signal=114%
REGULATION_OF_CELL_MIGRATION	18	0.4462986	1.2783835	0.16836734	0.20260023	1	2541	tags=28%, list=15%, signal=33%
STRIATED_MUSCLE_DEVELOPMENT	24	0.41201708	1.2782512	0.15213676	0.20194069	1	3951	tags=42%, list=23%, signal=54%
REGULATION_OF_BINDING	38	0.36920917	1.2751037	0.1409396	0.20489913	1	4016	tags=42%, list=23%, signal=55%
GROWTH	49	0.35876697	1.2722791	0.147929	0.20706224	1	719	tags=14%, list=4%, signal=15%
POSITIVE_REGULATION_OF_CELL_DIFFERENTIATION	19	0.43789548	1.2693298	0.19453925	0.20969097	1	1162	tags=26%, list=7%, signal=28%
POSITIVE_REGULATION_OF_TRANSCRIPTION_FROM_RNA_POLYMERASE_II_PROMOTER	38	0.37649736	1.2671038	0.15506329	0.21144545	1	5527	tags=53%, list=32%, signal=78%
ECTODERM_DEVELOPMENT	40	0.36663476	1.2666768	0.16171618	0.21107586	1	647	tags=18%, list=4%, signal=18%
DNA_RECOMBINATION	34	0.37855285	1.263975	0.15434083	0.21341419	1	4607	tags=50%, list=27%, signal=68%
MACROMOLECULE_BIOSYNTHETIC_PROCESS	203	0.28166285	1.2635714	0.068292685	0.2129686	1	3643	tags=33%, list=21%, signal=41%
CALCIUM_INDEPENDENT_CELL_CELL_ADHESION	17	0.441587	1.2569001	0.18524872	0.2200742	1	3052	tags=47%, list=18%, signal=57%
NEGATIVE_REGULATION_OF_GROWTH	29	0.38876334	1.2528636	0.1553719	0.22397709	1	2711	tags=28%, list=16%, signal=33%
REGULATION_OF_MULTICELLULAR_ORGANISMAL_PROCESS	74	0.32154003	1.2515212	0.12831241	0.22462898	1	2816	tags=24%, list=16%, signal=29%
SYNAPTIC_TRANSMISSION	62	0.32492107	1.2475051	0.13892908	0.22916101	1	2494	tags=26%, list=15%, signal=30%
POSITIVE_REGULATION_OF_CATALYTIC_ACTIVITY	98	0.30720502	1.2412105	0.125	0.23630562	1	2841	tags=24%, list=17%, signal=29%
POSITIVE_REGULATION_OF_MULTICELLULAR_ORGANISMAL_PROCESS	32	0.38297203	1.2404393	0.16718267	0.23631321	1	4735	tags=53%, list=28%, signal=73%
REPRODUCTIVE_PROCESS	71	0.3239454	1.2397857	0.15306123	0.23615997	1	2088	tags=20%, list=12%, signal=22%
CHROMOSOME_ORGANIZATION_AND_BIOGENESIS	82	0.3143222	1.2368695	0.12962963	0.23899451	1	5005	tags=46%, list=29%, signal=65%
LIPID_TRANSPORT	23	0.41031614	1.236363	0.19837399	0.23874457	1	4903	tags=48%, list=29%, signal=67%
POSITIVE_REGULATION_OF_TRANSFERASE_ACTIVITY	51	0.34079543	1.2308751	0.15830721	0.24511613	1	1446	tags=20%, list=8%, signal=21%
PROTEIN_AMINO_ACID_AUTOPHOSPHORYLATION	20	0.41359997	1.2290757	0.2	0.2465579	1	2943	tags=35%, list=17%, signal=42%
RESPONSE_TO_DNA_DAMAGE_STIMULUS	119	0.2917576	1.2284547	0.12149533	0.24651498	1	4068	tags=33%, list=24%, signal=43%
POSITIVE_REGULATION_OF_HYDROLASE_ACTIVITY	33	0.37323081	1.2278084	0.20224719	0.24648511	1	4047	tags=39%, list=24%, signal=52%
REGULATION_OF_BODY_FLUID_LEVELS	35	0.36617312	1.222151	0.20980091	0.25323072	1	1730	tags=26%, list=10%, signal=29%
SULFUR_METABOLIC_PROCESS	26	0.384855	1.2152019	0.20592824	0.26132366	1	3568	tags=42%, list=21%, signal=53%
VIRAL_REPRODUCTIVE_PROCESS	25	0.39529583	1.2137641	0.22537562	0.2621657	1	2088	tags=28%, list=12%, signal=32%
MEMBRANE_FUSION	19	0.41507408	1.2127292	0.23639455	0.26265872	1	5250	tags=68%, list=31%, signal=99%
SECRETION	111	0.29606462	1.2124687	0.15789473	0.26201192	1	2324	tags=22%, list=14%, signal=25%
PROTEIN_AUTOPROCESSING	21	0.4034694	1.2120782	0.21166667	0.2614874	1	2943	tags=33%, list=17%, signal=40%
CATION_TRANSPORT	85	0.30722445	1.2097825	0.1553398	0.26363677	1	825	tags=12%, list=5%, signal=12%
STRESS_ACTIVATED_PROTEIN_KINASE_SIGNALING_PATHWAY	32	0.37261444	1.2053655	0.20063192	0.26873514	1	3723	tags=38%, list=22%, signal=48%
MACROMOLECULE_LOCALIZATION	164	0.2759627	1.2023304	0.124840766	0.27205527	1	4524	tags=34%, list=26%, signal=46%
TRANSLATIONAL_INITIATION	16	0.4277149	1.2009456	0.23783784	0.2729578	1	4143	tags=44%, list=24%, signal=58%
REGULATION_OF_ORGANELLE_ORGANIZATION_AND_BIOGENESIS	29	0.36736155	1.1976407	0.2091195	0.27678534	1	5005	tags=48%, list=29%, signal=68%
SKELETAL_DEVELOPMENT	60	0.3167306	1.1891463	0.18879056	0.28786922	1	1122	tags=18%, list=7%, signal=20%
PROTEIN_LOCALIZATION	149	0.27655596	1.1884414	0.1636598	0.28784016	1	3300	tags=26%, list=19%, signal=31%
CELLULAR_LOCALIZATION	262	0.2591192	1.1872545	0.11951219	0.2885898	1	3318	tags=24%, list=19%, signal=29%
VIRAL_REPRODUCTION	27	0.37703428	1.1844426	0.24675325	0.29169953	1	2088	tags=26%, list=12%, signal=29%
ELECTRON_TRANSPORT_GO_0006118	35	0.34969214	1.181051	0.22378717	0.29574156	1	28	tags=6%, list=0%, signal=6%
COFACTOR_METABOLIC_PROCESS	44	0.333238	1.1795422	0.21954887	0.2970478	1	588	tags=14%, list=3%, signal=14%
DNA_REPAIR	98	0.29314455	1.1766677	0.20183486	0.30055198	1	4068	tags=34%, list=24%, signal=44%
ESTABLISHMENT_OF_CELLULAR_LOCALIZATION	252	0.25543824	1.17278	0.14060606	0.3054628	1	3512	tags=25%, list=21%, signal=31%
JNK_CASCADE	30	0.364464	1.1717188	0.25370675	0.3058947	1	3723	tags=37%, list=22%, signal=47%
REGULATION_OF_DNA_BINDING	30	0.3608799	1.1708568	0.24876441	0.3060999	1	3313	tags=37%, list=19%, signal=45%
NUCLEOBASE__NUCLEOSIDE__NUCLEOTIDE_AND_NUCLEIC_ACID_TRANSPORT	21	0.38868758	1.1687691	0.25207296	0.3081599	1	4464	tags=38%, list=26%, signal=51%
WOUND_HEALING	34	0.3505378	1.1675415	0.24605678	0.30897126	1	997	tags=21%, list=6%, signal=22%
REGULATION_OF_GROWTH	41	0.33504495	1.1640947	0.25117004	0.31300363	1	2711	tags=24%, list=16%, signal=29%
VIRAL_INFECTIOUS_CYCLE	21	0.39426088	1.1594052	0.27432218	0.3190889	1	2088	tags=29%, list=12%, signal=33%

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METAL_ION_TRANSPORT	63	0.30341083	1.1545628	0.24076809	0.32574466	1	825	tags=13%, list=5%, signal=13%
SECRETION_BY_CELL	69	0.298379	1.1508173	0.21264368	0.33045426	1	3512	tags=29%, list=21%, signal=36%
REGULATION_OF_CYCLIN_DEPENDENT_PROTEIN_KINASE_ACTIVITY	31	0.34557337	1.1425749	0.2718601	0.3425855	1	5219	tags=52%, list=31%, signal=74%
CELLULAR_CARBOHYDRATE_METABOLIC_PROCESS	83	0.28538737	1.1406668	0.25829726	0.34428805	1	1253	tags=14%, list=7%, signal=16%
REGULATION_OF_PROTEIN_MODIFICATION_PROCESS	24	0.37729827	1.1400231	0.2672956	0.34421808	1	1154	tags=21%, list=7%, signal=22%
REGULATION_OF_TRANSCRIPTION_FACTOR_ACTIVITY	23	0.3734338	1.1388959	0.28915662	0.3448375	1	3875	tags=43%, list=23%, signal=56%
HOMEOSTASIS_OF_NUMBER_OF_CELLS	15	0.41169518	1.1375657	0.30388692	0.34578678	1	3531	tags=47%, list=21%, signal=59%
REGULATION_OF_GENE_EXPRESSION__EPIGENETIC	20	0.3781874	1.1366136	0.29692832	0.34612784	1	1954	tags=25%, list=11%, signal=28%
GAMETE_GENERATION	51	0.3179127	1.1355507	0.2413793	0.34660727	1	2176	tags=24%, list=13%, signal=27%
SEXUAL_REPRODUCTION	56	0.3101202	1.1313099	0.26207906	0.35285476	1	2176	tags=23%, list=13%, signal=27%
POSITIVE_REGULATION_OF_CASPASE_ACTIVITY	19	0.38906658	1.1212504	0.29666665	0.3684429	1	2502	tags=26%, list=15%, signal=31%
CASPASE_ACTIVATION	19	0.38906658	1.1184723	0.32445142	0.37189648	1	2502	tags=26%, list=15%, signal=31%
NEUROLOGICAL_SYSTEM_PROCESS	147	0.25822547	1.1144875	0.25835475	0.3776048	1	2494	tags=20%, list=15%, signal=23%
PROTEIN_TARGETING	85	0.28191343	1.1127956	0.28314918	0.37937188	1	2063	tags=19%, list=12%, signal=21%
NEGATIVE_REGULATION_OF_TRANSCRIPTION__DNA_DEPENDENT	75	0.2836055	1.1051672	0.27890173	0.39172763	1	5232	tags=40%, list=31%, signal=57%
CYCLIC_NUCLEOTIDE_MEDIATED_SIGNALING	39	0.31807673	1.0964689	0.3168	0.40624923	1	2088	tags=23%, list=12%, signal=26%
RNA_CATABOLIC_PROCESS	18	0.3873166	1.0956872	0.33613446	0.4062983	1	3348	tags=33%, list=20%, signal=41%
G_PROTEIN_SIGNALING__COUPLED_TO_CYCLIC_NUCLEOTIDE_SECOND_MESSENGER	37	0.32915577	1.0948155	0.35106382	0.40637428	1	2088	tags=24%, list=12%, signal=28%
CELL_CYCLE_ARREST_GO_0007050	41	0.31416738	1.085978	0.33282673	0.42149064	1	4989	tags=49%, list=29%, signal=69%
NUCLEOTIDE_METABOLIC_PROCESS	27	0.34158185	1.0853431	0.33865815	0.42120695	1	3300	tags=30%, list=19%, signal=37%
CHROMATIN_REMODELING	15	0.3978004	1.0849727	0.3548922	0.42045373	1	4561	tags=40%, list=27%, signal=54%
INDUCTION_OF_APOPTOSIS_BY_INTRACELLULAR_SIGNALS	18	0.37634018	1.0815259	0.3766892	0.4254587	1	3363	tags=28%, list=20%, signal=35%
CHROMATIN_ASSEMBLY_OR_DISASSEMBLY	22	0.35960123	1.0750152	0.34760273	0.43597722	1	4522	tags=50%, list=26%, signal=68%
INSULIN_RECEPTOR_SIGNALING_PATHWAY	16	0.3940542	1.0738342	0.37913042	0.4367335	1	5319	tags=50%, list=31%, signal=72%
REGULATION_OF_HYDROLASE_ACTIVITY	53	0.29808387	1.0712316	0.34142858	0.43998224	1	3779	tags=32%, list=22%, signal=41%
MESODERM_DEVELOPMENT	15	0.3948155	1.0705702	0.38958707	0.43982178	1	4867	tags=60%, list=28%, signal=84%
SKELETAL_MUSCLE_DEVELOPMENT	19	0.37212247	1.0698073	0.37942666	0.4398868	1	3951	tags=42%, list=23%, signal=55%
NEGATIVE_REGULATION_OF_RNA_METABOLIC_PROCESS	76	0.2760979	1.0688778	0.34065935	0.44000566	1	5232	tags=39%, list=31%, signal=57%
ESTABLISHMENT_OF_PROTEIN_LOCALIZATION	135	0.24849656	1.0617644	0.3550532	0.45232388	1	3300	tags=24%, list=19%, signal=29%
NEGATIVE_REGULATION_OF_TRANSCRIPTION_FROM_RNA_POLYMERASE_II_PROMOTER	46	0.30193684	1.0616282	0.35518292	0.4511137	1	1978	tags=17%, list=12%, signal=20%
RNA_PROCESSING	126	0.25375035	1.0543306	0.372442	0.4634095	1	5931	tags=46%, list=35%, signal=70%
BIOSYNTHETIC_PROCESS	301	0.2244278	1.0494258	0.3535109	0.47119468	1	3820	tags=29%, list=22%, signal=37%
NEGATIVE_REGULATION_OF_MULTICELLULAR_ORGANISMAL_PROCESS	17	0.3690608	1.0476185	0.40418118	0.47316465	1	4275	tags=41%, list=25%, signal=55%
INTRACELLULAR_TRANSPORT	211	0.22992742	1.0412996	0.3797314	0.48387992	1	2543	tags=19%, list=15%, signal=22%
NEGATIVE_REGULATION_OF_SIGNAL_TRANSDUCTION	22	0.34815133	1.0395887	0.4086207	0.4854816	1	3821	tags=36%, list=22%, signal=47%
CARBOXYLIC_ACID_TRANSPORT	31	0.3175227	1.0392851	0.38132912	0.48456877	1	430	tags=10%, list=3%, signal=10%
INTRACELLULAR_PROTEIN_TRANSPORT	112	0.24866441	1.0374298	0.3864266	0.4866953	1	2543	tags=19%, list=15%, signal=22%
EXCRETION	30	0.3216828	1.0305029	0.40412045	0.49886668	1	1802	tags=27%, list=11%, signal=30%
CELLULAR_COMPONENT_DISASSEMBLY	28	0.32208657	1.0272553	0.4376013	0.5037349	1	2816	tags=32%, list=16%, signal=38%
RIBONUCLEOPROTEIN_COMPLEX_BIOGENESIS_AND_ASSEMBLY	51	0.28524634	1.0256612	0.40384614	0.50536716	1	4143	tags=33%, list=24%, signal=44%
ION_TRANSPORT	109	0.2508168	1.0255337	0.41689372	0.5040654	1	825	tags=10%, list=5%, signal=11%
MACROMOLECULE_CATABOLIC_PROCESS	106	0.24746202	1.0245768	0.4167813	0.5044031	1	3106	tags=24%, list=18%, signal=29%
INDUCTION_OF_APOPTOSIS_BY_EXTRACELLULAR_SIGNALS	18	0.35040027	1.0222759	0.43071786	0.5071914	1	2176	tags=22%, list=13%, signal=25%
APOPTOTIC_PROGRAM	44	0.28700206	1.0212903	0.4248062	0.50754344	1	3363	tags=32%, list=20%, signal=40%
CELLULAR_MACROMOLECULE_CATABOLIC_PROCESS	81	0.25917417	1.0197405	0.43899018	0.50885034	1	3638	tags=27%, list=21%, signal=34%
PROTEOLYSIS	131	0.23921362	1.0114192	0.4442953	0.5237398	1	2982	tags=23%, list=17%, signal=28%
SECRETORY_PATHWAY	57	0.27593687	1.0071175	0.44161677	0.53075963	1	2324	tags=19%, list=14%, signal=22%
AMINE_TRANSPORT	26	0.31423798	0.9965532	0.46854305	0.5501417	1	1590	tags=15%, list=9%, signal=17%
CARBOHYDRATE_METABOLIC_PROCESS	112	0.2396608	0.993708	0.47466666	0.5539478	1	1253	tags=13%, list=7%, signal=13%
ORGANIC_ACID_TRANSPORT	32	0.30385226	0.9914656	0.4555382	0.5568285	1	430	tags=9%, list=3%, signal=10%
G1_S_TRANSITION_OF_MITOTIC_CELL_CYCLE	23	0.3268509	0.98546314	0.4852941	0.56751436	1	2062	tags=17%, list=12%, signal=20%
POSITIVE_REGULATION_OF_BINDING	17	0.34212616	0.9782469	0.5086207	0.5804983	1	3875	tags=41%, list=23%, signal=53%
RESPONSE_TO_ABIOTIC_STIMULUS	59	0.26057577	0.97610974	0.49637157	0.5830935	1	2975	tags=25%, list=17%, signal=31%
POSITIVE_REGULATION_OF_DNA_BINDING	16	0.35457852	0.9753415	0.47945204	0.5828372	1	3875	tags=44%, list=23%, signal=57%
PROTEIN_RNA_COMPLEX_ASSEMBLY	38	0.2864295	0.9720447	0.50986344	0.58771276	1	4143	tags=34%, list=24%, signal=45%
PROTEIN_DNA_COMPLEX_ASSEMBLY	32	0.2971802	0.9708816	0.5117057	0.5882665	1	5009	tags=44%, list=29%, signal=62%
PROTEIN_TRANSPORT	121	0.23070021	0.9684859	0.53691274	0.59119755	1	2543	tags=18%, list=15%, signal=21%
AMINO_ACID_TRANSPORT	21	0.3299389	0.9628029	0.53311795	0.60064566	1	1590	tags=14%, list=9%, signal=16%
CHROMATIN_MODIFICATION	40	0.2786277	0.9599643	0.52279633	0.6046703	1	4561	tags=33%, list=27%, signal=44%
RNA_SPLICING	72	0.24409947	0.9407709	0.556338	0.6419734	1	5617	tags=44%, list=33%, signal=66%
NITROGEN_COMPOUND_BIOSYNTHETIC_PROCESS	16	0.33369032	0.9373626	0.5422297	0.6469069	1	1072	tags=19%, list=6%, signal=20%
CENTRAL_NERVOUS_SYSTEM_DEVELOPMENT	61	0.25184977	0.9359085	0.5701754	0.64789355	1	4333	tags=31%, list=25%, signal=42%
SPHINGOLIPID_METABOLIC_PROCESS	18	0.32537106	0.9345521	0.56228954	0.64873016	1	1253	tags=22%, list=7%, signal=24%
NUCLEOBASE__NUCLEOSIDE_AND_NUCLEOTIDE_METABOLIC_PROCESS	37	0.2706293	0.9273489	0.57012194	0.6613856	1	4621	tags=38%, list=27%, signal=52%
ONE_CARBON_COMPOUND_METABOLIC_PROCESS	19	0.31961107	0.9228177	0.5595855	0.66833097	1	4825	tags=47%, list=28%, signal=66%
MEIOTIC_CELL_CYCLE	20	0.3115757	0.92215085	0.5709625	0.6676806	1	3630	tags=35%, list=21%, signal=44%
NEGATIVE_REGULATION_OF_CELL_DIFFERENTIATION	15	0.3410986	0.91891503	0.57271093	0.6720883	1	4275	tags=40%, list=25%, signal=53%
HEART_DEVELOPMENT	19	0.31285977	0.89066374	0.61551726	0.7260595	1	1827	tags=16%, list=11%, signal=18%
RNA_EXPORT_FROM_NUCLEUS	16	0.3137824	0.8904315	0.60831887	0.7243706	1	4464	tags=38%, list=26%, signal=51%
DNA_PACKAGING	23	0.2929595	0.88933086	0.6105442	0.7245665	1	4997	tags=52%, list=29%, signal=74%

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POSITIVE_REGULATION_OF_MAP_KINASE_ACTIVITY	29	0.27139384	0.8666257	0.6589404	0.7662613	1	2841	tags=21%, list=17%, signal=25%
GLYCEROPHOSPHOLIPID_METABOLIC_PROCESS	33	0.26264116	0.85707533	0.69808304	0.78188103	1	3616	tags=27%, list=21%, signal=35%
PROTEIN_OLIGOMERIZATION	28	0.26704246	0.8561238	0.6792144	0.781548	1	3313	tags=32%, list=19%, signal=40%
PROTEIN_PROCESSING	31	0.26194224	0.8534866	0.6905537	0.7843147	1	3456	tags=29%, list=20%, signal=36%
CHROMOSOME_SEGREGATION	20	0.28667042	0.8421358	0.67642	0.80341005	1	3528	tags=30%, list=21%, signal=38%
BIOPOLYMER_CATABOLIC_PROCESS	93	0.20831081	0.83837116	0.76022565	0.80801684	1	3106	tags=23%, list=18%, signal=27%
PROTEIN_HOMOOLIGOMERIZATION	16	0.2961298	0.8339508	0.68158346	0.8136384	1	3313	tags=38%, list=19%, signal=46%
UBIQUITIN_CYCLE	32	0.25684	0.8301664	0.69082123	0.8180911	1	3875	tags=28%, list=23%, signal=36%
NEUROGENESIS	56	0.22508074	0.83001816	0.7496361	0.8160783	1	2793	tags=23%, list=16%, signal=28%
TRANSMEMBRANE_RECEPTOR_PROTEIN_TYROSINE_KINASE_SIGNALING_PATHWAY	53	0.22349219	0.82587856	0.7511521	0.8210017	1	4442	tags=38%, list=26%, signal=51%
SENSORY_PERCEPTION	76	0.21075799	0.8204864	0.78052324	0.8276696	1	2262	tags=16%, list=13%, signal=18%
DNA_DAMAGE_RESPONSE__SIGNAL_TRANSDUCTION	19	0.28456718	0.81863713	0.7090301	0.8283306	1	4860	tags=47%, list=28%, signal=66%
REGULATION_OF_SMALL_GTPASE_MEDIATED_SIGNAL_TRANSDUCTION	17	0.28769767	0.81135994	0.72680414	0.8379353	1	3558	tags=29%, list=21%, signal=37%
STEROID_METABOLIC_PROCESS	40	0.23229083	0.80736697	0.77623457	0.842158	1	2618	tags=23%, list=15%, signal=27%
ACTIVATION_OF_MAPK_ACTIVITY	24	0.26015458	0.79964465	0.7504216	0.8518288	1	2841	tags=21%, list=17%, signal=25%
REGULATION_OF_RAS_PROTEIN_SIGNAL_TRANSDUCTION	15	0.28711116	0.7969946	0.7292359	0.85347116	1	2144	tags=20%, list=13%, signal=23%
RNA_SPLICING__VIA_TRANSESTERIFICATION_REACTIONS	28	0.24977708	0.7966323	0.73606557	0.85168254	1	5577	tags=43%, list=33%, signal=63%
GENERATION_OF_NEURONS	48	0.2209305	0.79632074	0.77473366	0.84986955	1	2710	tags=23%, list=16%, signal=27%
RESPONSE_TO_UV	18	0.27465814	0.7880045	0.77264655	0.8602767	1	5593	tags=61%, list=33%, signal=91%
GOLGI_VESICLE_TRANSPORT	37	0.23216131	0.7878096	0.78503186	0.8582648	1	2822	tags=24%, list=16%, signal=29%
PROTEIN_AMINO_ACID_N_LINKED_GLYCOSYLATION	18	0.27066636	0.7809529	0.77487767	0.8657373	1	3524	tags=28%, list=21%, signal=35%
NEURON_APOPTOSIS	15	0.2718346	0.75365067	0.78929186	0.8994383	1	3621	tags=33%, list=21%, signal=42%
TRNA_METABOLIC_PROCESS	17	0.26358712	0.7505143	0.805042	0.90098894	1	4534	tags=47%, list=27%, signal=64%
TRANSCRIPTION_INITIATION	20	0.25700533	0.74765253	0.8041074	0.9020628	1	5009	tags=35%, list=29%, signal=49%
MITOCHONDRIAL_TRANSPORT	18	0.2626839	0.74685836	0.7963875	0.9006825	1	1895	tags=22%, list=11%, signal=25%
NUCLEAR_EXPORT	25	0.23800981	0.7415536	0.85361844	0.9045819	1	4852	tags=40%, list=28%, signal=56%
DOUBLE_STRAND_BREAK_REPAIR	17	0.2626264	0.7401753	0.8060498	0.9036637	1	1499	tags=18%, list=9%, signal=19%
BRAIN_DEVELOPMENT	24	0.2412567	0.7378964	0.85830617	0.90379375	1	1827	tags=17%, list=11%, signal=19%
HORMONE_METABOLIC_PROCESS	19	0.24648283	0.7292081	0.8523726	0.9107227	1	3216	tags=26%, list=19%, signal=32%
RESPONSE_TO_RADIATION	37	0.2111563	0.7231859	0.89032257	0.91447854	1	2975	tags=24%, list=17%, signal=29%
MRNA_PROCESSING_GO_0006397	56	0.19519852	0.7202982	0.92424244	0.91503227	1	5577	tags=38%, list=33%, signal=55%
PROTEIN_UBIQUITINATION	27	0.22115292	0.6962256	0.87979966	0.9345226	1	3875	tags=26%, list=23%, signal=33%
CYTOSKELETON_DEPENDENT_INTRACELLULAR_TRANSPORT	16	0.2528507	0.6845679	0.8949153	0.9409645	1	2509	tags=25%, list=15%, signal=29%
MRNA_METABOLIC_PROCESS	66	0.17406683	0.6737227	0.95933735	0.9461772	1	5804	tags=38%, list=34%, signal=57%
HISTONE_MODIFICATION	20	0.22196458	0.65160835	0.9066667	0.95760417	1	4957	tags=35%, list=29%, signal=49%
COVALENT_CHROMATIN_MODIFICATION	20	0.22196458	0.6496658	0.90746754	0.95615876	1	4957	tags=35%, list=29%, signal=49%
PROTEIN_MODIFICATION_BY_SMALL_PROTEIN_CONJUGATION	29	0.19353884	0.62815905	0.9437299	0.96415013	1	1116	tags=10%, list=7%, signal=11%

Appendix I (b2)

Gene Ontology Analysis (GSEA): Downregulated pathways in Fh1-/- vs Fh1+/+ kidneys.

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX	LEADING EDGE
CELLULAR_RESPIRATION	16	-0.66267824	-1.9658065	0	0.03736024	0.082	5155	tags=88%, list=30%, signal=125%
ENERGY_DERIVATION_BY_OXIDATION_OF_ORGANIC_COMPOUNDS	29	-0.5439943	-1.9381781	0.002610966	0.024057541	0.105	5255	tags=79%, list=31%, signal=114%
ANION_TRANSPORT	22	-0.56751007	-1.8489307	0.005235602	0.04126932	0.246	2158	tags=41%, list=13%, signal=47%
AMINO_ACID_AND_DERIVATIVE_METABOLIC_PROCESS	76	-0.39064875	-1.7612531	0.003533569	0.0705127	0.473	3475	tags=47%, list=20%, signal=59%
NITROGEN_COMPOUND_CATABOLIC_PROCESS	23	-0.5127193	-1.706916	0.005277045	0.08972235	0.638	4409	tags=57%, list=26%, signal=76%
AMINE_CATABOLIC_PROCESS	21	-0.51276577	-1.6733923	0.007936508	0.09827147	0.737	3786	tags=52%, list=22%, signal=67%
AROMATIC_COMPOUND_METABOLIC_PROCESS	19	-0.5238019	-1.6657716	0.014669927	0.08842206	0.759	3434	tags=68%, list=20%, signal=86%
AMINO_ACID_CATABOLIC_PROCESS	20	-0.5250795	-1.6235297	0.016627079	0.105987415	0.858	3786	tags=55%, list=22%, signal=71%
RESPONSE_TO_OXIDATIVE_STRESS	37	-0.4191695	-1.5998054	0.014245015	0.11157557	0.908	2758	tags=41%, list=16%, signal=48%
AMINO_ACID_METABOLIC_PROCESS	61	-0.36582288	-1.561968	0.005617978	0.13147485	0.949	3475	tags=46%, list=20%, signal=57%
ORGANIC_ACID_METABOLIC_PROCESS	127	-0.31866956	-1.560707	0	0.12071218	0.949	3475	tags=39%, list=20%, signal=49%
CARBOXYLIC_ACID_METABOLIC_PROCESS	125	-0.3221306	-1.5500326	0.003802281	0.11834126	0.963	3475	tags=40%, list=20%, signal=50%
PHOSPHOINOSITIDE_BIOSYNTHETIC_PROCESS	17	-0.4970967	-1.5162876	0.050691243	0.13771152	0.981	4738	tags=59%, list=28%, signal=81%
PHOSPHOLIPID_BIOSYNTHETIC_PROCESS	26	-0.42518422	-1.4663265	0.042821158	0.17760907	0.997	4738	tags=50%, list=28%, signal=69%
GENERATION_OF_PRECURSOR_METABOLITES_AND_ENERGY	89	-0.32316133	-1.4525824	0.02739726	0.18151203	0.999	3245	tags=37%, list=19%, signal=46%
AMINE_METABOLIC_PROCESS	101	-0.31172967	-1.4422075	0.023166023	0.18183723	1	3475	tags=38%, list=20%, signal=47%
SECONDARY_METABOLIC_PROCESS	20	-0.44216177	-1.4221258	0.08684864	0.19330603	1	3840	tags=50%, list=22%, signal=64%
NITROGEN_COMPOUND_METABOLIC_PROCESS	110	-0.29110038	-1.3946832	0.0078125	0.21453126	1	3475	tags=37%, list=20%, signal=46%
AMINO_ACID_DERIVATIVE_METABOLIC_PROCESS	15	-0.4628944	-1.3903086	0.083333336	0.20858274	1	3429	tags=47%, list=20%, signal=58%
LIPID_BIOSYNTHETIC_PROCESS	62	-0.31993493	-1.3425682	0.06748466	0.26388657	1	4317	tags=42%, list=25%, signal=56%
LIPOPROTEIN_METABOLIC_PROCESS	22	-0.40172073	-1.3108647	0.110552765	0.30057168	1	4738	tags=50%, list=28%, signal=69%
RESPONSE_TO_ORGANIC_SUBSTANCE	22	-0.39993405	-1.3004712	0.12886597	0.3037514	1	158	tags=14%, list=1%, signal=14%
LIPOPROTEIN_BIOSYNTHETIC_PROCESS	18	-0.41395393	-1.2951838	0.123786405	0.29950315	1	4738	tags=56%, list=28%, signal=77%
CELLULAR_LIPID_CATABOLIC_PROCESS	19	-0.39547145	-1.2826902	0.16995074	0.30684242	1	2564	tags=37%, list=15%, signal=43%
COFACTOR_BIOSYNTHETIC_PROCESS	19	-0.39457703	-1.2419997	0.16589862	0.3662056	1	3840	tags=53%, list=22%, signal=68%
MEMBRANE_LIPID_BIOSYNTHETIC_PROCESS	29	-0.34705585	-1.2204111	0.18421052	0.3932947	1	4738	tags=45%, list=28%, signal=62%
CELLULAR_LIPID_METABOLIC_PROCESS	157	-0.23938192	-1.2089406	0.08264463	0.4027252	1	3032	tags=29%, list=18%, signal=35%
PROTEIN_AMINO_ACID_LIPIDATION	16	-0.4049621	-1.1975784	0.24465558	0.41199514	1	3032	tags=44%, list=18%, signal=53%
FATTY_ACID_METABOLIC_PROCESS	39	-0.31736928	-1.1900963	0.20054945	0.41304207	1	2918	tags=36%, list=17%, signal=43%
LIPID_CATABOLIC_PROCESS	22	-0.3595961	-1.179437	0.20707071	0.4211205	1	2564	tags=32%, list=15%, signal=37%
CELLULAR_CATABOLIC_PROCESS	161	-0.22906613	-1.1619145	0.1277533	0.44329518	1	4203	tags=37%, list=25%, signal=49%
MITOCHONDRION_ORGANIZATION_AND_BIOGENESIS	41	-0.2954008	-1.1592224	0.1994135	0.43512022	1	1313	tags=22%, list=8%, signal=24%
HETEROCYCLE_METABOLIC_PROCESS	22	-0.34551477	-1.1573603	0.2382134	0.42579654	1	3840	tags=50%, list=22%, signal=64%
GLYCEROPHOSPHOLIPID_BIOSYNTHETIC_PROCESS	22	-0.35345337	-1.1411512	0.26732674	0.44821474	1	4738	tags=45%, list=28%, signal=63%
CATABOLIC_PROCESS	169	-0.22328052	-1.134718	0.15920398	0.44899186	1	3151	tags=29%, list=18%, signal=35%
DIGESTION	15	-0.3659178	-1.0973033	0.31707317	0.5206603	1	4742	tags=33%, list=28%, signal=46%
PHOSPHOLIPID_METABOLIC_PROCESS	47	-0.26977947	-1.081095	0.31137726	0.5467027	1	4929	tags=43%, list=29%, signal=60%
AXONOGENESIS	26	-0.31257886	-1.0745972	0.33924052	0.54834837	1	2587	tags=27%, list=15%, signal=32%
LIPID_METABOLIC_PROCESS	202	-0.2064334	-1.068649	0.26262626	0.5495311	1	2931	tags=25%, list=17%, signal=30%
CELLULAR_MORPHOGENESIS_DURING_DIFFERENTIATION	29	-0.29328662	-1.0553293	0.37531486	0.56928414	1	2587	tags=28%, list=15%, signal=32%
APOPTOTIC_NUCLEAR_CHANGES	16	-0.33728042	-1.016629	0.40240964	0.6572953	1	609	tags=25%, list=4%, signal=26%
MEMBRANE_LIPID_METABOLIC_PROCESS	64	-0.23364627	-1.0041152	0.44625407	0.67609227	1	2353	tags=23%, list=14%, signal=27%
NUCLEAR_ORGANIZATION_AND_BIOGENESIS	21	-0.30936766	-1.0036184	0.4467005	0.6617573	1	609	tags=19%, list=4%, signal=20%
MONOCARBOXYLIC_ACID_METABOLIC_PROCESS	55	-0.23895343	-0.98890543	0.4759036	0.68645	1	2931	tags=31%, list=17%, signal=37%
NEURON_DEVELOPMENT	36	-0.26277128	-0.98783076	0.46961325	0.6741642	1	3301	tags=28%, list=19%, signal=34%
STEROID_BIOSYNTHETIC_PROCESS	17	-0.31709513	-0.9675767	0.46701846	0.714196	1	4203	tags=47%, list=25%, signal=62%
PROTEIN_FOLDING	46	-0.23849398	-0.9394501	0.5840708	0.77359277	1	2399	tags=22%, list=14%, signal=25%
GLYCOPROTEIN_BIOSYNTHETIC_PROCESS	45	-0.23281287	-0.9357632	0.57670456	0.7670886	1	2351	tags=22%, list=14%, signal=26%
MONOVALENT_INORGANIC_CATION_TRANSPORT	50	-0.23156363	-0.92869896	0.61011904	0.7697051	1	4922	tags=38%, list=29%, signal=53%
PHOSPHOINOSITIDE_METABOLIC_PROCESS	22	-0.28182158	-0.9256965	0.5703884	0.7617457	1	4738	tags=45%, list=28%, signal=63%
CARBOHYDRATE_BIOSYNTHETIC_PROCESS	32	-0.2532889	-0.9204065	0.60555553	0.7598631	1	5327	tags=47%, list=31%, signal=68%
CELLULAR_PROTEIN_CATABOLIC_PROCESS	47	-0.22112095	-0.8958188	0.69722223	0.80355144	1	4812	tags=40%, list=28%, signal=56%

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX	LEADING EDGE
EXTRACELLULAR_STRUCTURE_ORGANIZATION_AND_BIOGENESIS	16	-0.29656273	-0.8874744	0.61978024	0.807429	1	1035	tags=19%, list=6%, signal=20%
GLYCOPROTEIN_METABOLIC_PROCESS	59	-0.20811339	-0.87909216	0.69075143	0.8110757	1	2351	tags=20%, list=14%, signal=23%
NEURITE_DEVELOPMENT	31	-0.23753944	-0.858072	0.7083333	0.8417436	1	2587	tags=23%, list=15%, signal=27%
NUCLEOTIDE_EXCISION_REPAIR	16	-0.27672765	-0.81221485	0.7121588	0.9116251	1	2929	tags=31%, list=17%, signal=38%
DNA_CATABOLIC_PROCESS	20	-0.24739625	-0.7950503	0.7906404	0.9238683	1	2929	tags=35%, list=17%, signal=42%
POTASSIUM_ION_TRANSPORT	28	-0.2207422	-0.78224754	0.80890054	0.9268348	1	4287	tags=36%, list=25%, signal=48%
RESPONSE_TO_LIGHT_STIMULUS	27	-0.22350602	-0.78134316	0.792	0.9124129	1	2946	tags=30%, list=17%, signal=36%
NEURON_DIFFERENTIATION	43	-0.19689748	-0.7746113	0.86609685	0.9070434	1	2857	tags=21%, list=17%, signal=25%
PROTEIN_CATABOLIC_PROCESS	53	-0.18224385	-0.74433756	0.9037267	0.92857176	1	4812	tags=38%, list=28%, signal=52%
TRANSCRIPTION_FROM_RNA_POLYMERASE_III_PROMOTER	15	-0.22133449	-0.6515457	0.913349	0.98672265	1	3670	tags=33%, list=21%, signal=42%
CELLULAR_PROTEIN_COMPLEX_ASSEMBLY	26	-0.18526857	-0.6355089	0.9498747	0.97882557	1	938	tags=12%, list=5%, signal=12%
SPLICEOSOME_ASSEMBLY	18	-0.16354702	-0.5018731	0.99527186	0.9957544	1	2283	tags=17%, list=13%, signal=19%

Gene Ontology Analysis (GSEA): Upregulated pathways in Fh1-/- Hif-1a-/- vs Fh1+/+ kidneys.

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX	LEADING EDGE
POSITIVE_REGULATION_OF_CELL_PROLIFERATION	87	0.5808248	2.2870924	0	0	0	2490	tags=40%, list=15%, signal=47%
DEFENSE_RESPONSE	125	0.531627	2.1743684	0	0	0	3221	tags=44%, list=19%, signal=54%
REGULATION_OF_CELL_PROLIFERATION	187	0.50489974	2.1726017	0	0	0	2490	tags=35%, list=15%, signal=40%
IMMUNE_SYSTEM_PROCESS	179	0.4987081	2.1274896	0	3.20E-04	0.001	3759	tags=46%, list=22%, signal=58%
CELL_CYCLE_PROCESS	128	0.51747483	2.1231172	0	5.09E-04	0.002	3989	tags=50%, list=23%, signal=65%
MITOTIC_CELL_CYCLE	102	0.5416003	2.1062078	0	6.23E-04	0.003	3935	tags=52%, list=23%, signal=67%
POSITIVE_REGULATION_OF_CELLULAR_PROCESS	423	0.45335773	2.0761354	0	0.001412631	0.008	3747	tags=40%, list=22%, signal=50%
CELL_PROLIFERATION_GO_0008283	310	0.45096076	2.033745	0	0.001982078	0.013	2490	tags=31%, list=15%, signal=36%
HUMORAL_IMMUNE_RESPONSE	18	0.71541977	2.0305197	0	0.001899247	0.014	1166	tags=44%, list=7%, signal=48%
POSITIVE_REGULATION_OF_BIOLOGICAL_PROCESS	440	0.44448113	2.0300994	0	0.001709322	0.014	3747	tags=39%, list=22%, signal=49%
CELL_CYCLE_GO_0007049	211	0.46919495	2.0276258	0	0.001662577	0.015	4658	tags=49%, list=27%, signal=66%
CELL_ACTIVATION	30	0.6382508	2.026038	0	0.001626432	0.016	3731	tags=63%, list=22%, signal=81%
REGULATION_OF_TRANSPORT	40	0.5989111	2.0063934	0	0.002251969	0.024	1901	tags=38%, list=11%, signal=42%
CELL_CYCLE_PHASE	112	0.49746454	1.9932959	0	0.002627011	0.03	4658	tags=55%, list=27%, signal=76%
IMMUNE_RESPONSE	125	0.4829716	1.9753586	0	0.003421359	0.04	3532	tags=42%, list=21%, signal=53%
SMALL_GTPASE_MEDIATED_SIGNAL_TRANSDUCTION	67	0.5344862	1.9598597	0	0.004951053	0.063	3906	tags=52%, list=23%, signal=67%
MITOSIS	48	0.5560826	1.9537693	0	0.004948649	0.067	3935	tags=58%, list=23%, signal=76%
M_PHASE	66	0.5284594	1.9523115	0	0.004743976	0.067	3979	tags=56%, list=23%, signal=73%
REGULATION_OF_DNA_METABOLIC_PROCESS	32	0.60201776	1.947831	0	0.004811654	0.072	2459	tags=47%, list=14%, signal=55%
M_PHASE_OF_MITOTIC_CELL_CYCLE	49	0.5615742	1.9463273	0	0.004692868	0.074	3935	tags=59%, list=23%, signal=77%
INTERPHASE	54	0.5407818	1.9462873	0	0.004469398	0.074	2028	tags=33%, list=12%, signal=38%
LEUKOCYTE_ACTIVATION	28	0.63595384	1.9440861	0.001519757	0.004430779	0.077	3731	tags=64%, list=22%, signal=82%
RAS_PROTEIN_SIGNAL_TRANSDUCTION	53	0.5418386	1.9376322	0.001443001	0.00471683	0.085	3873	tags=51%, list=23%, signal=66%
CELL_CYCLE_CHECKPOINT_GO_0000075	32	0.6087872	1.9330628	0	0.004724006	0.089	3981	tags=63%, list=23%, signal=81%
REGULATION_OF_I_KAPPAB_KINASE_NF_KAPPAB_CASCADE	62	0.53108233	1.9326205	0	0.004582561	0.09	4433	tags=61%, list=26%, signal=82%
REGULATION_OF_IMMUNE_SYSTEM_PROCESS	31	0.6090314	1.9298346	0	0.004591225	0.093	3467	tags=58%, list=20%, signal=73%
CYTOSKELETON_ORGANIZATION_AND_BIOGENESIS	137	0.47009954	1.9272101	0	0.004784985	0.101	4063	tags=50%, list=24%, signal=66%
RHO_PROTEIN_SIGNAL_TRANSDUCTION	32	0.60552317	1.9207687	0	0.00478739	0.105	3873	tags=59%, list=23%, signal=77%
HEMOPOIETIC_OR_LYMPHOID_ORGAN_DEVELOPMENT	46	0.55935806	1.9122458	0	0.005259861	0.115	4714	tags=61%, list=28%, signal=84%
LYMPHOCYTE_ACTIVATION	26	0.61658156	1.9046386	0.001612903	0.00577691	0.131	3731	tags=62%, list=22%, signal=79%
POSITIVE_REGULATION_OF_I_KAPPAB_KINASE_NF_KAPPAB_CASCADE	59	0.52757716	1.9034048	0.001373626	0.005788966	0.135	4433	tags=61%, list=26%, signal=82%
IMMUNE_SYSTEM_DEVELOPMENT	49	0.5481506	1.8925837	0	0.006379037	0.151	4714	tags=61%, list=28%, signal=84%
I_KAPPAB_KINASE_NF_KAPPAB_CASCADE	75	0.49954554	1.8911263	0	0.006185733	0.151	4438	tags=59%, list=26%, signal=79%
RESPONSE_TO_EXTERNAL_STIMULUS	176	0.4473475	1.88755	0	0.006077909	0.153	2744	tags=34%, list=16%, signal=40%
ACTIN_CYTOSKELETON_ORGANIZATION_AND_BIOGENESIS	72	0.5098763	1.8798392	0	0.006599148	0.169	4058	tags=51%, list=24%, signal=67%
REGULATION_OF_SIGNAL_TRANSDUCTION	136	0.4596842	1.8758423	0	0.006859993	0.181	4433	tags=51%, list=26%, signal=69%
HEMOPOIESIS	45	0.55224675	1.8750707	0.001447178	0.006706402	0.181	4714	tags=60%, list=28%, signal=83%
RESPONSE_TO_OTHER_ORGANISM	33	0.57171124	1.8737098	0.001492537	0.006657934	0.185	3163	tags=52%, list=18%, signal=63%
RHYTHMIC_PROCESS	17	0.6721595	1.8720412	0.0032	0.006675458	0.191	130	tags=18%, list=1%, signal=18%
REGULATION_OF_LYMPHOCYTE_ACTIVATION	19	0.6616926	1.8567346	0.003215434	0.007817799	0.224	3467	tags=68%, list=20%, signal=86%
NEGATIVE_REGULATION_OF_BIOLOGICAL_PROCESS	427	0.40502998	1.8545405	0	0.007861727	0.23	3584	tags=34%, list=21%, signal=42%
INFLAMMATORY_RESPONSE	70	0.5007399	1.8524472	0	0.007910076	0.236	3221	tags=43%, list=19%, signal=53%
ACTIN_FILAMENT_BASED_PROCESS	79	0.48702726	1.8518047	0	0.007809345	0.239	4058	tags=51%, list=24%, signal=66%
NEGATIVE_REGULATION_OF_CELLULAR_COMPONENT_ORGANIZATION_AND_BIOGENESIS	25	0.6193012	1.837213	0.001639344	0.009313827	0.279	3527	tags=64%, list=21%, signal=81%
POSITIVE_REGULATION_OF_SIGNAL_TRANSDUCTION	77	0.48412132	1.8329237	0	0.009404932	0.289	4433	tags=56%, list=26%, signal=75%
TRANSLATION	115	0.45605952	1.826692	0	0.009760545	0.305	3051	tags=42%, list=18%, signal=50%
MICROTUBULE_BASED_PROCESS	53	0.5118327	1.8225317	0	0.009973059	0.316	3677	tags=53%, list=21%, signal=67%
MULTI_ORGANISM_PROCESS	67	0.48190087	1.819557	0.001367989	0.010049297	0.325	3163	tags=39%, list=18%, signal=47%
RESPONSE_TO_VIRUS	26	0.60997283	1.8194689	0	0.009844209	0.325	3163	tags=54%, list=18%, signal=66%
CELL_CELL_SIGNALING	172	0.43331105	1.8159858	0	0.0099926	0.332	3467	tags=35%, list=20%, signal=44%
NEGATIVE_REGULATION_OF_CELLULAR_PROCESS	413	0.39682895	1.8080026	0	0.010968247	0.363	3584	tags=34%, list=21%, signal=42%
PROTEIN_KINASE_CASCADE	197	0.42014197	1.8078734	0	0.010757319	0.363	4448	tags=48%, list=26%, signal=64%
CELL_DEVELOPMENT	373	0.39771008	1.7998813	0	0.011820744	0.398	3482	tags=33%, list=20%, signal=41%
TRANSMEMBRANE_RECEPTOR_PROTEIN_SERINE_THREONINE_KINASE_SIGNALING_PATHWAY	30	0.57692164	1.7971034	0.007342144	0.011964607	0.409	4517	tags=60%, list=26%, signal=81%
CELL_DIVISION	18	0.6384066	1.7940768	0.001647446	0.01230796	0.426	5118	tags=67%, list=30%, signal=95%
REGULATION_OF_METABOLIC_PROCESS	479	0.38736263	1.7926263	0	0.012240586	0.431	3759	tags=34%, list=22%, signal=42%
REGULATION_OF_PROTEIN_METABOLIC_PROCESS	96	0.4502834	1.7805251	0	0.014131929	0.487	3947	tags=44%, list=23%, signal=57%
NEGATIVE_REGULATION_OF_CELLULAR_METABOLIC_PROCESS	158	0.42075974	1.778426	0	0.014053873	0.492	3195	tags=31%, list=19%, signal=38%
DNA_METABOLIC_PROCESS	190	0.41767427	1.7778544	0	0.013896038	0.496	3979	tags=41%, list=23%, signal=53%
NEGATIVE_REGULATION_OF_METABOLIC_PROCESS	160	0.42814517	1.7734315	0	0.014317659	0.518	3195	tags=32%, list=19%, signal=39%
REGULATION_OF_CELLULAR_METABOLIC_PROCESS	471	0.38588968	1.7732706	0	0.014102536	0.519	3878	tags=34%, list=23%, signal=43%
INTERPHASE_OF_MITOTIC_CELL_CYCLE	49	0.5101221	1.7731748	0.004166667	0.013875076	0.519	2028	tags=31%, list=12%, signal=35%
TRANSFORMING_GROWTH_FACTOR_BETA_RECEPTOR_SIGNALING_PATHWAY	23	0.6008245	1.7724452	0.004754358	0.01367459	0.519	4517	tags=61%, list=26%, signal=83%
REGULATION_OF_CELL_CYCLE	121	0.4379197	1.7685388	0.002487562	0.014133993	0.531	3209	tags=35%, list=19%, signal=42%
POSITIVE_REGULATION_OF_DEVELOPMENTAL_PROCESS	149	0.42506284	1.7675221	0	0.014088198	0.534	3677	tags=37%, list=21%, signal=47%
CELL_SURFACE_RECEPTOR_LINKED_SIGNAL_TRANSDUCTION_GO_0007166	315	0.39315772	1.7670918	0	0.013893713	0.534	3752	tags=37%, list=22%, signal=47%
PEPTIDYL_TYROSINE_MODIFICATION	16	0.655963	1.7657452	0.004680187	0.013813599	0.535	3941	tags=63%, list=23%, signal=81%
MICROTUBULE_CYTOSKELETON_ORGANIZATION_AND_BIOGENESIS	23	0.58703136	1.7615302	0.007656968	0.014305391	0.552	3082	tags=57%, list=18%, signal=69%
NEGATIVE_REGULATION_OF_PROTEIN_METABOLIC_PROCESS	29	0.55716735	1.7602415	0.003164557	0.014312102	0.559	3527	tags=48%, list=21%, signal=61%
DNA_REPLICATION	72	0.47484234	1.7588457	0	0.014370005	0.562	4077	tags=46%, list=24%, signal=60%

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CYTOKINESIS	16	0.6524002	1.7465986	0.003115265	0.016152015	0.607	5118	tags=69%, list=30%, signal=98%
REGULATION_OF_T_CELL_ACTIVATION	15	0.6545496	1.7465984	0.005059022	0.015927682	0.607	3467	tags=67%, list=20%, signal=84%
INTRACELLULAR_SIGNALING_CASCADE	410	0.38260192	1.744348	0	0.016214931	0.622	4532	tags=43%, list=26%, signal=58%
TISSUE_DEVELOPMENT	71	0.463966	1.7434067	0.001385042	0.016112328	0.623	2485	tags=31%, list=15%, signal=36%
ANATOMICAL_STRUCTURE_MORPHOGENESIS	220	0.39855948	1.7396001	0	0.016648592	0.64	3844	tags=38%, list=22%, signal=48%
CYTOKINE_PRODUCTION	33	0.53050005	1.7359265	0.00443787	0.017047111	0.656	4433	tags=61%, list=26%, signal=82%
REGULATION_OF_CELLULAR_PROTEIN_METABOLIC_PROCESS	87	0.4453689	1.7304237	0	0.017815785	0.68	3947	tags=44%, list=23%, signal=56%
REGULATION_OF_NUCLEOBASE__NUCLEOSIDE__NUCLEOTIDE_AND_NUCLEIC_ACID_METABOLIC_PROCESS	378	0.38356516	1.7293717	0	0.017792372	0.684	3759	tags=33%, list=22%, signal=41%
REGULATION_OF_DEVELOPMENTAL_PROCESS	294	0.38492852	1.7247888	0	0.018171344	0.694	3474	tags=34%, list=20%, signal=42%
NEGATIVE_REGULATION_OF_CELL_PROLIFERATION	99	0.43866286	1.723717	0.00130719	0.018126804	0.696	3183	tags=35%, list=19%, signal=43%
EPIDERMIS_DEVELOPMENT	37	0.5124189	1.7199996	0.001412429	0.018551761	0.71	2485	tags=38%, list=15%, signal=44%
APOPTOSIS_GO	288	0.38170895	1.7164218	0	0.019090163	0.722	3482	tags=32%, list=20%, signal=40%
ESTABLISHMENT_OF_ORGANELLE_LOCALIZATION	15	0.6546239	1.7163464	0.013605442	0.01887492	0.722	3684	tags=67%, list=22%, signal=85%
RESPONSE_TO_WOUNDING	110	0.43575612	1.7161293	0	0.018650219	0.722	3221	tags=39%, list=19%, signal=48%
MYELOID_CELL_DIFFERENTIATION	24	0.57332414	1.715742	0.004608295	0.018474275	0.723	3188	tags=50%, list=19%, signal=61%
REGULATION_OF_CYTOKINE_BIOSYNTHETIC_PROCESS	18	0.60540134	1.7144743	0.014802632	0.018472929	0.727	4433	tags=72%, list=26%, signal=97%
REGULATION_OF_GENE_EXPRESSION	395	0.37755582	1.7143503	0	0.018274417	0.728	3759	tags=32%, list=22%, signal=40%
NEGATIVE_REGULATION_OF_CELLULAR_PROTEIN_METABOLIC_PROCESS	27	0.5557876	1.7140915	0.007267442	0.018094597	0.729	3527	tags=48%, list=21%, signal=61%
REGULATION_OF_APOPTOSIS	231	0.39090088	1.7135135	0	0.017972024	0.732	3474	tags=33%, list=20%, signal=41%
NEGATIVE_REGULATION_OF_CATALYTIC_ACTIVITY	45	0.49462375	1.7060922	0.004354137	0.019461026	0.759	2095	tags=27%, list=12%, signal=30%
REGULATION_OF_PROGRAMMED_CELL_DEATH	231	0.39090088	1.6958264	0	0.021393873	0.809	3474	tags=33%, list=20%, signal=41%
PROGRAMMED_CELL_DEATH	288	0.38170895	1.6906378	0	0.022425663	0.826	3482	tags=32%, list=20%, signal=40%
ECTODERM_DEVELOPMENT	40	0.50047314	1.689793	0.00309119	0.02230269	0.831	2485	tags=35%, list=15%, signal=41%
T_CELL_ACTIVATION	18	0.5982195	1.6896621	0.014802632	0.02207919	0.831	3731	tags=61%, list=22%, signal=78%
NEGATIVE_REGULATION_OF_TRANSFERASE_ACTIVITY	29	0.5305927	1.6895908	0.014128729	0.021859752	0.831	4358	tags=45%, list=25%, signal=60%
POSITIVE_REGULATION_OF_NUCLEOBASE__NUCLEOSIDE__NUCLEOTIDE_AND_NUCLEIC_ACID_METABOLIC_PROCESS	98	0.42789102	1.6858046	0.002597403	0.022627365	0.843	4561	tags=46%, list=27%, signal=62%
REGULATION_OF_CELL_DIFFERENTIATION	34	0.51301974	1.6852342	0.008849558	0.022481512	0.843	4714	tags=56%, list=28%, signal=77%
POSITIVE_REGULATION_OF_TRANSCRIPTION	92	0.4263613	1.6818643	0.001251565	0.023096247	0.85	4128	tags=41%, list=24%, signal=54%
CELL_MIGRATION	52	0.47212315	1.677248	0.005657709	0.023851704	0.863	2975	tags=37%, list=17%, signal=44%
MITOTIC_CELL_CYCLE_CHECKPOINT	15	0.62520546	1.674335	0.006462036	0.024372347	0.874	3879	tags=67%, list=23%, signal=86%
RESPONSE_TO_DNA_DAMAGE_STIMULUS	119	0.4083105	1.6676698	0	0.025895594	0.89	4051	tags=42%, list=24%, signal=55%
POSITIVE_REGULATION_OF_IMMUNE_SYSTEM_PROCESS	25	0.5473625	1.6656421	0.010736196	0.026278485	0.897	3467	tags=52%, list=20%, signal=65%
CELL_PROJECTION_BIOGENESIS	21	0.57422286	1.6647651	0.017133957	0.026225824	0.901	5257	tags=71%, list=31%, signal=103%
RESPONSE_TO_EXTRACELLULAR_STIMULUS	23	0.5517137	1.6636978	0.012738854	0.026230823	0.901	2676	tags=39%, list=16%, signal=46%
REGULATION_OF_TRANSCRIPTION	342	0.36900607	1.6589974	0	0.027052417	0.912	3759	tags=32%, list=22%, signal=40%
SYSTEM_DEVELOPMENT	455	0.3623091	1.6559424	0	0.027690038	0.919	2607	tags=25%, list=15%, signal=28%
DNA_REPAIR	98	0.41917878	1.6548203	0.001270648	0.027754815	0.92	3979	tags=42%, list=23%, signal=54%
REGULATION_OF_NUCLEOCYTOPLASMIC_TRANSPORT	17	0.5946661	1.6507357	0.017628206	0.02880441	0.924	1901	tags=41%, list=11%, signal=46%
REGULATION_OF_MULTICELLULAR_ORGANISMAL_PROCESS	74	0.44086096	1.650664	0.005434783	0.028573766	0.924	3467	tags=36%, list=20%, signal=46%
ACTIN_POLYMERIZATION_AND_OR_DEPOLYMERIZATION	16	0.5969927	1.644082	0.015228426	0.030007966	0.939	5222	tags=75%, list=31%, signal=108%
CYTOKINE_BIOSYNTHETIC_PROCESS	19	0.57157284	1.6332428	0.018927446	0.032882158	0.952	4433	tags=68%, list=26%, signal=92%
TRANSCRIPTION	470	0.35699737	1.6328697	0	0.03264235	0.952	4712	tags=39%, list=28%, signal=52%
CYTOKINE_METABOLIC_PROCESS	19	0.57157284	1.6326994	0.021909233	0.03239632	0.952	4433	tags=68%, list=26%, signal=92%
REGULATION_OF_MOLECULAR_FUNCTION	204	0.3784837	1.6289397	0	0.033456665	0.957	2187	tags=24%, list=13%, signal=27%
POSITIVE_REGULATION_OF_CELLULAR_METABOLIC_PROCESS	132	0.39648923	1.6281193	0.001231527	0.033496443	0.957	4599	tags=47%, list=27%, signal=64%
RESPONSE_TO_ENDOGENOUS_STIMULUS	145	0.3914267	1.6242391	0.006150062	0.034188222	0.961	4051	tags=39%, list=24%, signal=50%
POSITIVE_REGULATION_OF_RESPONSE_TO_STIMULUS	19	0.56438535	1.6214799	0.011345219	0.034785107	0.962	2485	tags=42%, list=15%, signal=49%
DNA_DEPENDENT_DNA_REPLICATION	36	0.48888087	1.6213753	0.01037037	0.034521837	0.962	4272	tags=42%, list=25%, signal=55%
ORGANELLE_ORGANIZATION_AND_BIOGENESIS	324	0.3600219	1.6209844	0	0.03434455	0.962	4077	tags=39%, list=24%, signal=50%
PROTEIN_AMINO_ACID_PHOSPHORYLATION	190	0.3779914	1.6152132	0	0.03599461	0.969	4231	tags=39%, list=25%, signal=52%
REGULATION_OF_TRANSLATION	42	0.47810662	1.6141275	0.018413598	0.036111854	0.97	3188	tags=40%, list=19%, signal=50%
RESPONSE_TO_STRESS	341	0.3568348	1.6105181	0	0.037019975	0.972	3981	tags=39%, list=23%, signal=49%
REGULATION_OF_CATALYTIC_ACTIVITY	173	0.37903467	1.6098181	0.00120919	0.03699749	0.973	2100	tags=23%, list=12%, signal=26%
REGULATION_OF_TRANSCRIPTION_FROM_RNA_POLYMERASE_II_PROMOTER	170	0.3756011	1.6013112	0.001190476	0.039730202	0.979	3530	tags=31%, list=21%, signal=39%
POSITIVE_REGULATION_OF_METABOLIC_PROCESS	136	0.3888355	1.5992658	0.001191895	0.040124416	0.98	4599	tags=46%, list=27%, signal=63%
POSITIVE_REGULATION_OF_LYMPHOCYTE_ACTIVATION	15	0.59147936	1.5987663	0.03776683	0.039971475	0.98	4714	tags=73%, list=28%, signal=101%
ORGAN_DEVELOPMENT	315	0.35828164	1.5964931	0	0.04050552	0.982	2530	tags=24%, list=15%, signal=28%
REGULATION_OF_INTRACELLULAR_TRANSPORT	19	0.56029016	1.5891262	0.017628206	0.042917296	0.986	1901	tags=37%, list=11%, signal=41%
TRANSCRIPTION_FROM_RNA_POLYMERASE_II_PROMOTER	283	0.35800073	1.5881995	0	0.042897753	0.987	3825	tags=31%, list=22%, signal=39%
PEPTIDYL_AMINO_ACID_MODIFICATION	38	0.4775573	1.5816905	0.016641453	0.044901147	0.992	4082	tags=47%, list=24%, signal=62%
POSITIVE_REGULATION_OF_RNA_METABOLIC_PROCESS	72	0.41862378	1.5783525	0.00672043	0.045843348	0.993	3188	tags=35%, list=19%, signal=42%
LEUKOCYTE_DIFFERENTIATION	20	0.5467661	1.5762932	0.0203125	0.046315968	0.993	3731	tags=55%, list=22%, signal=70%
REGULATION_OF_MITOSIS	24	0.52800256	1.5725182	0.02560241	0.04746989	0.996	3879	tags=58%, list=23%, signal=75%
POSITIVE_REGULATION_OF_TRANSCRIPTION__DNA_DEPENDENT	72	0.41862378	1.5707107	0.017449664	0.04782904	0.997	3188	tags=35%, list=19%, signal=42%
REGULATION_OF_TRANSCRIPTION__DNA_DEPENDENT	272	0.35292196	1.5655477	0	0.049564395	0.997	3759	tags=31%, list=22%, signal=38%
DNA_RECOMBINATION	34	0.48270127	1.5615541	0.024745269	0.050849173	0.997	4560	tags=62%, list=27%, signal=84%
ORGANELLE_LOCALIZATION	18	0.557685	1.5614225	0.02652106	0.050487097	0.997	4525	tags=67%, list=26%, signal=91%
TRANSCRIPTION__DNA_DEPENDENT	392	0.34193134	1.5604174	0	0.050446857	0.997	4568	tags=36%, list=27%, signal=48%
PHOSPHORYLATION	213	0.35864937	1.5594802	0.002306805	0.050428294	0.997	4231	tags=38%, list=25%, signal=51%
REGULATION_OF_RNA_METABOLIC_PROCESS	278	0.35159636	1.5571563	0.001106195	0.051034674	0.997	3759	tags=30%, list=22%, signal=38%

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NEGATIVE_REGULATION_OF_DEVELOPMENTAL_PROCESS	131	0.3778342	1.5554061	0.003717472	0.05151816	0.998		3467 tags=36%, list=20%, signal=45%
REGULATION_OF_TRANSFERASE_ACTIVITY	108	0.3909509	1.5549622	0.007682459	0.051327746	0.998		2095 tags=22%, list=12%, signal=25%
MEMBRANE_ORGANIZATION_AND_BIOGENESIS	92	0.39235812	1.5509272	0.00656168	0.05246725	0.999		3763 tags=39%, list=22%, signal=50%
RNA_BIOSYNTHETIC_PROCESS	394	0.34258044	1.5493942	0	0.052738808	0.999		4568 tags=36%, list=27%, signal=48%
G_PROTEIN_COUPLED_RECEPTOR_PROTEIN_SIGNALING_PATHWAY	137	0.37833595	1.5491228	0.004975124	0.052509278	0.999		2633 tags=28%, list=15%, signal=33%
REGULATION_OF_RESPONSE_TO_STIMULUS	28	0.4922886	1.5436777	0.031626508	0.054596514	0.999		2485 tags=36%, list=15%, signal=42%
NERVOUS_SYSTEM_DEVELOPMENT	193	0.3576585	1.5346309	0.004545454	0.05825815	0.999		3481 tags=30%, list=20%, signal=37%
REGULATION_OF_BIOLOGICAL_QUALITY	266	0.34358802	1.5341283	0	0.058170028	0.999		3719 tags=35%, list=22%, signal=44%
RESPONSE_TO_BIOTIC_STIMULUS	53	0.43147525	1.5279894	0.024896266	0.060667105	1		3163 tags=40%, list=18%, signal=48%
REGULATION_OF_KINASE_ACTIVITY	106	0.37887985	1.5237628	0.00875	0.06253186	1		2095 tags=22%, list=12%, signal=25%
POSITIVE_REGULATION_OF_PROTEIN_METABOLIC_PROCESS	39	0.45922315	1.5234705	0.024817519	0.06229825	1		4599 tags=56%, list=27%, signal=77%
JAK_STAT_CASCADE	18	0.54413146	1.5231614	0.05956113	0.06202399	1		2671 tags=44%, list=16%, signal=53%
REGULATION_OF_PROTEIN_KINASE_ACTIVITY	104	0.38558325	1.5164338	0.007802341	0.06466037	1		2095 tags=22%, list=12%, signal=25%
CELLULAR_BIOSYNTHETIC_PROCESS	211	0.3500486	1.5161836	0.004597701	0.06433704	1		3188 tags=33%, list=19%, signal=40%
POSITIVE_REGULATION_OF_CELL_DIFFERENTIATION	19	0.5293124	1.513623	0.05645161	0.06526616	1		3467 tags=47%, list=20%, signal=59%
NEGATIVE_REGULATION_OF_NUCLEOBASE__NUCLEOSIDE__NUCLEOTIDE_AND_NUCLEIC_ACID_METABOLIC_PROCESS	127	0.3774438	1.5125198	0.006165228	0.06536917	1		4971 tags=44%, list=29%, signal=62%
HOMEOSTATIC_PROCESS	125	0.3718606	1.5119729	0.003671971	0.06525549	1		3490 tags=39%, list=20%, signal=49%
GENERATION_OF_NEURONS	48	0.43059787	1.5055069	0.02489019	0.0680156	1		2607 tags=35%, list=15%, signal=42%
NEGATIVE_REGULATION_OF_PROGRAMMED_CELL_DEATH	105	0.3770356	1.5040601	0.010443864	0.06824865	1		3467 tags=35%, list=20%, signal=44%
POSITIVE_REGULATION_OF_CELLULAR_PROTEIN_METABOLIC_PROCESS	37	0.46116266	1.49778	0.03508772	0.071205825	1		4599 tags=57%, list=27%, signal=77%
REGULATION_OF_CYTOSKELETON_ORGANIZATION_AND_BIOGENESIS	20	0.5192832	1.4956338	0.03500761	0.071753345	1		3677 tags=55%, list=21%, signal=70%
NEGATIVE_REGULATION_OF_APOPTOSIS	105	0.3770356	1.4955529	0.010062893	0.07138519	1		3467 tags=35%, list=20%, signal=44%
ENZYME_LINKED_RECEPTOR_PROTEIN_SIGNALING_PATHWAY	89	0.3818914	1.492059	0.023715414	0.072914355	1		3878 tags=36%, list=23%, signal=46%
EXOCYTOSIS	16	0.5444762	1.4848384	0.06168831	0.07662171	1		128 tags=13%, list=1%, signal=13%
POSITIVE_REGULATION_OF_MULTICELLULAR_ORGANISMAL_PROCESS	32	0.45533022	1.4844472	0.03880597	0.07631235	1		2490 tags=38%, list=15%, signal=44%
DI___TRI_VALENT_INORGANIC_CATION_TRANSPORT	20	0.5170054	1.4824291	0.04327666	0.07686249	1		2118 tags=35%, list=12%, signal=40%
POST_TRANSLATIONAL_PROTEIN_MODIFICATION	326	0.3284587	1.4806509	0.001092896	0.07730765	1		2870 tags=25%, list=17%, signal=29%
REGULATION_OF_CYCLIN_DEPENDENT_PROTEIN_KINASE_ACTIVITY	31	0.47246543	1.4787015	0.046616543	0.07791741	1		1384 tags=23%, list=8%, signal=25%
NEUROGENESIS	56	0.4052425	1.474993	0.03457815	0.07959653	1		2607 tags=32%, list=15%, signal=38%
REGULATION_OF_CELL_MIGRATION	18	0.52390045	1.4748354	0.05940594	0.0792577	1		2523 tags=33%, list=15%, signal=39%
REGULATION_OF_CELLULAR_COMPONENT_ORGANIZATION_AND_BIOGENESIS	83	0.3845291	1.4690338	0.025575448	0.08223097	1		3677 tags=40%, list=21%, signal=50%
LOCOMOTORY_BEHAVIOR	47	0.41787866	1.4679346	0.038406827	0.08245698	1		2650 tags=30%, list=15%, signal=35%
ANTI_APOPTOSIS	84	0.38283432	1.4613568	0.01997337	0.08596048	1		4387 tags=43%, list=26%, signal=57%
CHROMOSOME_ORGANIZATION_AND_BIOGENESIS	82	0.38203612	1.4576036	0.011811024	0.08799043	1		4977 tags=48%, list=29%, signal=67%
CATION_HOMEOSTASIS	59	0.39832604	1.4551958	0.042936288	0.08875851	1		3490 tags=42%, list=20%, signal=53%
PROTEIN_COMPLEX_ASSEMBLY	132	0.3570001	1.4525943	0.011363637	0.08980571	1		2680 tags=27%, list=16%, signal=32%
NUCLEOTIDE_METABOLIC_PROCESS	27	0.46821168	1.4525845	0.056923077	0.089305274	1		1781 tags=30%, list=10%, signal=33%
POSITIVE_REGULATION_OF_TRANSLATION	15	0.54664195	1.4521155	0.07559055	0.08906321	1		5379 tags=80%, list=31%, signal=117%
CELL_CELL_ADHESION	57	0.40404394	1.448455	0.043115437	0.09083965	1		3901 tags=39%, list=23%, signal=50%
STRESS_ACTIVATED_PROTEIN_KINASE_SIGNALING_PATHWAY	32	0.45839247	1.4477508	0.06119403	0.09065397	1		3320 tags=44%, list=19%, signal=54%
ORGAN_MORPHOGENESIS	79	0.376286	1.4406515	0.020915033	0.094507106	1		3844 tags=37%, list=22%, signal=47%
VESICLE_MEDIATED_TRANSPORT	132	0.35087568	1.4394029	0.013888889	0.0948534	1		3639 tags=33%, list=21%, signal=41%
MUSCLE_DEVELOPMENT	57	0.4004364	1.4378179	0.04378531	0.09541487	1		3299 tags=32%, list=19%, signal=39%
NEGATIVE_REGULATION_OF_TRANSCRIPTION	112	0.36204812	1.4376762	0.015523933	0.09496961	1		4971 tags=44%, list=29%, signal=61%
REGULATION_OF_ORGANELLE_ORGANIZATION_AND_BIOGENESIS	29	0.45700067	1.4290545	0.07132018	0.10040326	1		4813 tags=59%, list=28%, signal=81%
REGULATION_OF_ANATOMICAL_STRUCTURE_MORPHOGENESIS	23	0.47841945	1.4276794	0.087804876	0.10085018	1		3677 tags=57%, list=21%, signal=72%
G1_S_TRANSITION_OF_MITOTIC_CELL_CYCLE	23	0.47337574	1.4238461	0.06771654	0.102866955	1		4486 tags=48%, list=26%, signal=65%
RESPONSE_TO_UV	18	0.51868236	1.4231267	0.08766234	0.102787904	1		3843 tags=56%, list=22%, signal=72%
CELLULAR_CATION_HOMEOSTASIS	57	0.39453435	1.4229705	0.04378531	0.10239825	1		3490 tags=42%, list=20%, signal=53%
MACROMOLECULE_BIOSYNTHETIC_PROCESS	203	0.32874992	1.4214319	0.013667426	0.10284035	1		3051 tags=31%, list=18%, signal=37%
RESPONSE_TO_HORMONE_STIMULUS	23	0.47656822	1.4152155	0.08292683	0.10687355	1		4363 tags=35%, list=26%, signal=47%
PROTEIN_IMPORT_INTO_NUCLEUS	37	0.42242303	1.413702	0.07522124	0.107481785	1		3584 tags=38%, list=21%, signal=48%
MAPKKK_CASCADE_GO_0000165	70	0.38008618	1.4136301	0.033333335	0.10701415	1		4448 tags=46%, list=26%, signal=62%
RESPONSE_TO_RADIATION	37	0.42123422	1.4129927	0.057636887	0.1069491	1		3879 tags=46%, list=23%, signal=59%
BEHAVIOR	65	0.3858997	1.4126269	0.05107527	0.106669195	1		3104 tags=29%, list=18%, signal=36%
HOMEOSTASIS_OF_NUMBER_OF_CELLS	15	0.53434163	1.4126017	0.09105691	0.10613143	1		3482 tags=60%, list=20%, signal=75%
REGULATION_OF_MAP_KINASE_ACTIVITY	47	0.400846	1.4065802	0.072135784	0.110250846	1		4448 tags=45%, list=26%, signal=60%
CELLULAR_DEFENSE_RESPONSE	19	0.4923417	1.4039842	0.0768	0.1115451	1		2631 tags=47%, list=15%, signal=56%
INSULIN_RECEPTOR_SIGNALING_PATHWAY	16	0.52346134	1.403354	0.08783784	0.111459315	1		5280 tags=44%, list=31%, signal=63%
RESPONSE_TO_LIGHT_STIMULUS	27	0.45782048	1.4011003	0.08074534	0.11255169	1		3843 tags=48%, list=22%, signal=62%
SYSTEM_PROCESS	258	0.31250718	1.3998201	0.010011124	0.11297972	1		2585 tags=22%, list=15%, signal=26%
NEGATIVE_REGULATION_OF_CELL_CYCLE	54	0.39452744	1.3969936	0.06371191	0.1144324	1		3188 tags=30%, list=19%, signal=36%
IMMUNE_EFFECTOR_PROCESS	16	0.5120684	1.3956352	0.09605489	0.11494837	1		3352 tags=44%, list=20%, signal=54%
REGULATION_OF_GENE_EXPRESSION__EPIGENETIC	20	0.47764534	1.395584	0.09836066	0.114408374	1		2871 tags=35%, list=17%, signal=42%
NEGATIVE_REGULATION_OF_MULTICELLULAR_ORGANISMAL_PROCESS	17	0.50842077	1.3917207	0.09516129	0.116764806	1		3188 tags=41%, list=19%, signal=51%
ANATOMICAL_STRUCTURE_FORMATION	34	0.42378813	1.3903209	0.0736377	0.11725894	1		2973 tags=38%, list=17%, signal=46%
CHROMOSOME_SEGREGATION	20	0.47004828	1.3896523	0.104	0.117200166	1		2307 tags=35%, list=13%, signal=40%
FEMALE_PREGNANCY	17	0.49046203	1.3885163	0.10031348	0.11757321	1		1781 tags=24%, list=10%, signal=26%
RESPONSE_TO_NUTRIENT_LEVELS	20	0.49045497	1.3843443	0.104501605	0.120302334	1		2553 tags=35%, list=15%, signal=41%
POSITIVE_REGULATION_OF_HYDROLASE_ACTIVITY	33	0.427461	1.3841076	0.06998445	0.119908996	1		2100 tags=30%, list=12%, signal=34%

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NUCLEAR_IMPORT	38	0.41521063	1.379121	0.084070794	0.12328033	1	3584	tags=37%, list=21%, signal=47%
REGULATION_OF_CELL_GROWTH	31	0.42942786	1.377016	0.101404056	0.124478795	1	4595	tags=45%, list=27%, signal=62%
REGULATION_OF_BINDING	38	0.41424108	1.3767483	0.094081946	0.12410582	1	3160	tags=34%, list=18%, signal=42%
VASCULATURE_DEVELOPMENT	34	0.41748595	1.3732219	0.09806835	0.12647566	1	2973	tags=38%, list=17%, signal=46%
POSITIVE_REGULATION_OF_CELLULAR_COMPONENT_ORGANIZATION_AND_BIOGENESIS	24	0.46091467	1.370992	0.09047619	0.1276981	1	3677	tags=50%, list=21%, signal=64%
REGULATION_OF_PHOSPHORYLATION	24	0.44763416	1.3646207	0.11363637	0.13241248	1	2187	tags=29%, list=13%, signal=33%
G_PROTEIN_SIGNALING__COUPLED_TO_CAMP_NUCLEOTIDE_SECOND_MESSENGER	24	0.4482735	1.3611429	0.10906298	0.13462393	1	2633	tags=29%, list=15%, signal=34%
CHROMATIN_ASSEMBLY_OR_DISASSEMBLY	22	0.4601161	1.352402	0.13559322	0.14163995	1	4077	tags=50%, list=24%, signal=66%
NEGATIVE_REGULATION_OF_MAP_KINASE_ACTIVITY	15	0.50534314	1.352073	0.14383562	0.14125572	1	4358	tags=53%, list=25%, signal=72%
JNK_CASCADE	30	0.42833403	1.3512696	0.095454544	0.14139491	1	3320	tags=40%, list=19%, signal=50%
NEURON_DIFFERENTIATION	43	0.39419767	1.3501676	0.09090909	0.1418067	1	2607	tags=35%, list=15%, signal=41%
RESPONSE_TO_CHEMICAL_STIMULUS	188	0.31128567	1.3309426	0.029797377	0.15923385	1	2683	tags=26%, list=16%, signal=31%
CALCIUM_ION_TRANSPORT	15	0.49182722	1.3265479	0.13636364	0.1630731	1	2118	tags=33%, list=12%, signal=38%
CHEMICAL_HOMEOSTASIS	89	0.341796	1.3242317	0.071801566	0.16452187	1	3909	tags=42%, list=23%, signal=54%
REGULATION_OF_HYDROLASE_ACTIVITY	53	0.37035632	1.3224666	0.09598854	0.16551733	1	2100	tags=26%, list=12%, signal=30%
POSITIVE_REGULATION_OF_CATALYTIC_ACTIVITY	98	0.33647528	1.3198565	0.06666667	0.16753693	1	3426	tags=30%, list=20%, signal=37%
RESPONSE_TO_ABIOTIC_STIMULUS	59	0.36804676	1.3178084	0.10644258	0.16907707	1	3879	tags=42%, list=23%, signal=55%
INDUCTION_OF_APOPTOSIS_BY_INTRACELLULAR_SIGNALS	18	0.46287337	1.3167382	0.15408805	0.16943981	1	1350	tags=22%, list=8%, signal=24%
ION_HOMEOSTASIS	70	0.35320592	1.3165009	0.07692308	0.16891423	1	3490	tags=41%, list=20%, signal=52%
PROTEIN_AMINO_ACID_DEPHOSPHORYLATION	45	0.37484983	1.3117762	0.115983024	0.17329615	1	1749	tags=20%, list=10%, signal=22%
GROWTH	49	0.3750777	1.307732	0.112834975	0.176533	1	995	tags=14%, list=6%, signal=15%
MACROMOLECULAR_COMPLEX_ASSEMBLY	199	0.30377382	1.3052052	0.049482163	0.17856029	1	5042	tags=41%, list=29%, signal=57%
BIOPOLYMER_MODIFICATION	445	0.2846943	1.3032235	0.013800425	0.18006112	1	4561	tags=35%, list=27%, signal=46%
PATTERN_SPECIFICATION_PROCESS	18	0.46643424	1.3025156	0.14649682	0.17997578	1	2523	tags=28%, list=15%, signal=33%
CELLULAR_COMPONENT_ASSEMBLY	209	0.3005379	1.3007724	0.051825676	0.18104987	1	5042	tags=41%, list=29%, signal=57%
CELLULAR_HOMEOSTASIS	84	0.34127134	1.2995973	0.080368906	0.18163681	1	3490	tags=38%, list=20%, signal=48%
CAMP_MEDIATED_SIGNALING	25	0.42866117	1.2990617	0.1336478	0.18153012	1	2633	tags=28%, list=15%, signal=33%
PROTEIN_MODIFICATION_PROCESS	432	0.2801911	1.2864423	0.027282266	0.194547	1	4241	tags=31%, list=25%, signal=41%
POSITIVE_REGULATION_OF_PROTEIN_MODIFICATION_PROCESS	15	0.47692838	1.283382	0.1828859	0.19712435	1	2187	tags=33%, list=13%, signal=38%
CELLULAR_COMPONENT_DISASSEMBLY	28	0.41613328	1.2822772	0.15288612	0.19756521	1	3582	tags=43%, list=21%, signal=54%
TRANSMISSION_OF_NERVE_IMPULSE	72	0.3416453	1.280449	0.11037234	0.19883871	1	3455	tags=31%, list=20%, signal=38%
SECOND_MESSENGER_MEDIATED_SIGNALING	63	0.3461717	1.2784399	0.109116025	0.20040499	1	2920	tags=27%, list=17%, signal=32%
SECRETION	111	0.3179865	1.2777919	0.09188544	0.20020886	1	1759	tags=17%, list=10%, signal=19%
ESTABLISHMENT_AND_OR_MAINTENANCE_OF_CHROMATIN_ARCHITECTURE	55	0.35726076	1.2775235	0.12678063	0.19969581	1	4977	tags=45%, list=29%, signal=64%
ALCOHOL_METABOLIC_PROCESS	56	0.35818437	1.2772752	0.13360882	0.19920358	1	3141	tags=27%, list=18%, signal=33%
POSITIVE_REGULATION_OF_TRANSCRIPTION_FROM_RNA_POLYMERASE_II_PROMOTER	38	0.38358134	1.2765056	0.14710252	0.19914214	1	3188	tags=32%, list=19%, signal=39%
CELL_CYCLE_ARREST_GO_0007050	41	0.37641543	1.2758433	0.15963855	0.19902918	1	4310	tags=39%, list=25%, signal=52%
NUCLEOCYTOPLASMIC_TRANSPORT	67	0.3378287	1.2700546	0.10171731	0.20497961	1	5178	tags=46%, list=30%, signal=66%
EXCRETION	30	0.40296382	1.2687365	0.15615615	0.20565936	1	355	tags=17%, list=2%, signal=17%
NUCLEAR_TRANSPORT	68	0.34097815	1.2641977	0.12	0.21028037	1	5178	tags=47%, list=30%, signal=67%
ANGIOGENESIS	29	0.40413734	1.2620188	0.1863354	0.21209319	1	2973	tags=38%, list=17%, signal=46%
DNA_PACKAGING	23	0.4205104	1.259587	0.17924528	0.21415955	1	4077	tags=43%, list=24%, signal=57%
REGULATION_OF_DNA_BINDING	30	0.390575	1.2590364	0.17862596	0.2138673	1	2459	tags=30%, list=14%, signal=35%
REPRODUCTIVE_PROCESS	71	0.33480796	1.2561333	0.14013605	0.21675348	1	1941	tags=18%, list=11%, signal=21%
ENDOSOME_TRANSPORT	16	0.4573239	1.2374582	0.1996805	0.23986495	1	4567	tags=50%, list=27%, signal=68%
POSITIVE_REGULATION_OF_CASPASE_ACTIVITY	19	0.43334574	1.236859	0.19554849	0.23980977	1	2100	tags=32%, list=12%, signal=36%
PROTEIN_IMPORT	48	0.35355592	1.2325685	0.18428572	0.24464977	1	4713	tags=44%, list=28%, signal=60%
CELLULAR_CARBOHYDRATE_CATABOLIC_PROCESS	16	0.45956677	1.2321519	0.20031299	0.24427766	1	1652	tags=31%, list=10%, signal=35%
CARBOHYDRATE_CATABOLIC_PROCESS	16	0.45956677	1.2292839	0.2154088	0.24720906	1	1652	tags=31%, list=10%, signal=35%
NEGATIVE_REGULATION_OF_TRANSCRIPTION__DNA_DEPENDENT	75	0.32574946	1.2272017	0.1591512	0.24902494	1	5323	tags=47%, list=31%, signal=67%
CELL_SUBSTRATE_ADHESION	27	0.3952333	1.2264055	0.17619784	0.24907348	1	5372	tags=44%, list=31%, signal=65%
COENZYME_METABOLIC_PROCESS	29	0.3947785	1.2261106	0.20769231	0.24848634	1	862	tags=17%, list=5%, signal=18%
RECEPTOR_MEDIATED_ENDOCYTOSIS	22	0.41997704	1.2194177	0.23384616	0.25637132	1	2248	tags=32%, list=13%, signal=37%
CASPASE_ACTIVATION	19	0.43334574	1.2186708	0.2179054	0.2564656	1	2100	tags=32%, list=12%, signal=36%
MEIOTIC_CELL_CYCLE	20	0.42162508	1.2121661	0.21498372	0.26448238	1	4473	tags=55%, list=26%, signal=74%
SYNAPTIC_TRANSMISSION	62	0.33320516	1.2082367	0.18484043	0.26919782	1	3455	tags=32%, list=20%, signal=40%
NEGATIVE_REGULATION_OF_RNA_METABOLIC_PROCESS	76	0.317127	1.2035141	0.17842324	0.27525404	1	5323	tags=46%, list=31%, signal=67%
BIOSYNTHETIC_PROCESS	301	0.26834902	1.2034216	0.11025358	0.2743243	1	3188	tags=27%, list=19%, signal=32%
SKELETAL_DEVELOPMENT	60	0.32800967	1.2015561	0.20338982	0.27615744	1	1532	tags=22%, list=9%, signal=24%
ELECTRON_TRANSPORT_GO_0006118	35	0.3632193	1.1991035	0.19662058	0.27851292	1	16	tags=6%, list=0%, signal=6%
NEGATIVE_REGULATION_OF_GROWTH	29	0.37827867	1.1853294	0.23123123	0.2981342	1	4595	tags=41%, list=27%, signal=56%
TRNA_METABOLIC_PROCESS	17	0.42554438	1.1825327	0.25293133	0.3011767	1	4792	tags=53%, list=28%, signal=73%
APOPTOTIC_PROGRAM	44	0.34691292	1.1802729	0.23809524	0.30352387	1	3103	tags=34%, list=18%, signal=42%
LIPID_TRANSPORT	23	0.39351413	1.1745901	0.2439394	0.3110362	1	4144	tags=43%, list=24%, signal=57%
REGULATION_OF_CELL_ADHESION	27	0.3761608	1.1736658	0.25337332	0.311263	1	586	tags=15%, list=3%, signal=15%
REPRODUCTION	117	0.28988108	1.1734802	0.18062827	0.31039694	1	1941	tags=16%, list=11%, signal=18%
TRANSLATIONAL_INITIATION	16	0.42081782	1.1734663	0.26791278	0.30928966	1	2689	tags=31%, list=16%, signal=37%
NEGATIVE_REGULATION_OF_TRANSCRIPTION_FROM_RNA_POLYMERASE_II_PROMOTER	46	0.33439648	1.1673372	0.21965317	0.3179866	1	4971	tags=46%, list=29%, signal=64%
NEUROLOGICAL_SYSTEM_PROCESS	147	0.2816033	1.1670278	0.18545455	0.31731585	1	3495	tags=27%, list=20%, signal=33%
CELLULAR_LOCALIZATION	262	0.26407456	1.1662253	0.13513513	0.31748077	1	4914	tags=37%, list=29%, signal=52%

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NEURON_DEVELOPMENT	36	0.35551903	1.1649002	0.24344024	0.3184413	1	2607	tags=33%, list=15%, signal=39%
DEPHOSPHORYLATION	52	0.32913712	1.1646627	0.24104683	0.31769034	1	1749	tags=17%, list=10%, signal=19%
REGULATION_OF_GROWTH	41	0.3426759	1.1612799	0.2521866	0.32200038	1	4595	tags=37%, list=27%, signal=50%
NUCLEOTIDE_EXCISION_REPAIR	16	0.42621216	1.1596389	0.28877887	0.32351828	1	3552	tags=44%, list=21%, signal=55%
CELL_MATRIX_ADHESION	26	0.3730586	1.1579566	0.2734255	0.32502088	1	5372	tags=42%, list=31%, signal=62%
PROTEIN_LOCALIZATION	149	0.2781822	1.157896	0.20363636	0.323966	1	4590	tags=36%, list=27%, signal=48%
NUCLEOBASE__NUCLEOSIDE_AND_NUCLEOTIDE_METABOLIC_PROCESS	37	0.3528567	1.157819	0.26555386	0.32296145	1	2609	tags=27%, list=15%, signal=32%
ESTABLISHMENT_OF_CELLULAR_LOCALIZATION	252	0.2605128	1.1563709	0.17081448	0.32424796	1	4914	tags=37%, list=29%, signal=52%
STEROID_METABOLIC_PROCESS	40	0.3489658	1.1551812	0.24821684	0.3251074	1	4015	tags=43%, list=23%, signal=55%
DOUBLE_STRAND_BREAK_REPAIR	17	0.4130731	1.1525358	0.2753623	0.32824305	1	2395	tags=35%, list=14%, signal=41%
NEGATIVE_REGULATION_OF_CELL_DIFFERENTIATION	15	0.43064967	1.151677	0.27344993	0.3284209	1	4613	tags=47%, list=27%, signal=64%
GLUCOSE_METABOLIC_PROCESS	18	0.41146287	1.1513294	0.27631578	0.3278636	1	2285	tags=33%, list=13%, signal=38%
MACROMOLECULE_LOCALIZATION	164	0.27037773	1.1396579	0.20435308	0.34613365	1	5178	tags=40%, list=30%, signal=57%
HEMOSTASIS	30	0.3614402	1.1284109	0.29777777	0.36378098	1	1649	tags=23%, list=10%, signal=26%
REGULATION_OF_TRANSCRIPTION_FACTOR_ACTIVITY	23	0.37809095	1.1256026	0.31384614	0.36731496	1	3160	tags=35%, list=18%, signal=43%
RESPONSE_TO_DRUG	16	0.41360462	1.1231575	0.3312203	0.37025407	1	2460	tags=38%, list=14%, signal=44%
NEURITE_DEVELOPMENT	31	0.35144642	1.1173792	0.30171072	0.3791672	1	2607	tags=32%, list=15%, signal=38%
PROTEIN_RNA_COMPLEX_ASSEMBLY	38	0.3345113	1.1166575	0.32017544	0.37916958	1	3212	tags=29%, list=19%, signal=36%
MACROMOLECULE_CATABOLIC_PROCESS	106	0.27634588	1.1163851	0.2599232	0.37838113	1	2128	tags=19%, list=12%, signal=21%
CATION_TRANSPORT	85	0.28541946	1.1099513	0.2858991	0.3884244	1	735	tags=11%, list=4%, signal=11%
SECRETION_BY_CELL	69	0.2949734	1.1036642	0.31578946	0.39874524	1	1759	tags=16%, list=10%, signal=18%
TRANSMEMBRANE_RECEPTOR_PROTEIN_TYROSINE_KINASE_SIGNALING_PATHWAY	53	0.31304514	1.1023824	0.3134978	0.39967692	1	2490	tags=25%, list=15%, signal=29%
MEMBRANE_FUSION	19	0.3951536	1.1016185	0.3544093	0.39956865	1	4255	tags=53%, list=25%, signal=70%
CARBOHYDRATE_TRANSPORT	16	0.40335768	1.0877348	0.3467742	0.4230464	1	1463	tags=19%, list=9%, signal=20%
G_PROTEIN_SIGNALING__COUPLED_TO_CYCLIC_NUCLEOTIDE_SECOND_MESSENGER	37	0.3250808	1.0861309	0.34660766	0.4244923	1	2633	tags=22%, list=15%, signal=26%
INDUCTION_OF_APOPTOSIS_BY_EXTRACELLULAR_SIGNALS	18	0.38263854	1.0808724	0.3735726	0.43279868	1	2352	tags=22%, list=14%, signal=26%
PROTEIN_HOMOOLIGOMERIZATION	16	0.4000409	1.0777348	0.37833333	0.4372138	1	2187	tags=38%, list=13%, signal=43%
NEGATIVE_REGULATION_OF_SIGNAL_TRANSDUCTION	22	0.36854476	1.0737109	0.37660256	0.4432877	1	2095	tags=27%, list=12%, signal=31%
RIBONUCLEOPROTEIN_COMPLEX_BIOGENESIS_AND_ASSEMBLY	51	0.30236185	1.0718086	0.3538682	0.44544423	1	3473	tags=27%, list=20%, signal=34%
STRIATED_MUSCLE_DEVELOPMENT	24	0.35567334	1.0707301	0.3904762	0.44583192	1	3172	tags=29%, list=19%, signal=36%
NITROGEN_COMPOUND_BIOSYNTHETIC_PROCESS	16	0.39459127	1.0691433	0.39232054	0.44736916	1	633	tags=19%, list=4%, signal=19%
DNA_CATABOLIC_PROCESS	20	0.36809543	1.0627018	0.3812601	0.4576843	1	2048	tags=30%, list=12%, signal=34%
RNA_PROCESSING	126	0.25800064	1.0501279	0.3689441	0.4806264	1	5254	tags=36%, list=31%, signal=51%
REGULATION_OF_G_PROTEIN_COUPLED_RECEPTOR_PROTEIN_SIGNALING_PATHWAY	16	0.3831599	1.0452249	0.40582192	0.4888163	1	2074	tags=25%, list=12%, signal=28%
HORMONE_METABOLIC_PROCESS	19	0.36608976	1.0449175	0.41082802	0.48786214	1	4015	tags=42%, list=23%, signal=55%
CYCLIC_NUCLEOTIDE_MEDIATED_SIGNALING	39	0.3138286	1.0428575	0.38601825	0.49025136	1	2633	tags=21%, list=15%, signal=24%
CELLULAR_PROTEIN_COMPLEX_ASSEMBLY	26	0.33103848	1.0410349	0.40090773	0.49235234	1	2490	tags=23%, list=15%, signal=27%
METAL_ION_TRANSPORT	63	0.28653803	1.0379394	0.4035326	0.49676028	1	2118	tags=17%, list=12%, signal=20%
POSITIVE_REGULATION_OF_DNA_BINDING	16	0.37893173	1.0368564	0.40771812	0.49736136	1	3160	tags=38%, list=18%, signal=46%
CALCIUM_INDEPENDENT_CELL_CELL_ADHESION	17	0.3702724	1.0366937	0.41666666	0.49609113	1	1263	tags=18%, list=7%, signal=19%
NUCLEAR_ORGANIZATION_AND_BIOGENESIS	21	0.35828978	1.0338272	0.4117647	0.4998573	1	2927	tags=33%, list=17%, signal=40%
PROTEIN_AMINO_ACID_AUTOPHOSPHORYLATION	20	0.34786856	1.0278364	0.43064517	0.5099357	1	3941	tags=40%, list=23%, signal=52%
REGULATION_OF_PROTEIN_MODIFICATION_PROCESS	24	0.344947	1.0273322	0.4113924	0.50936234	1	2187	tags=25%, list=13%, signal=29%
REGULATION_OF_BODY_FLUID_LEVELS	35	0.31240952	1.0174941	0.43323442	0.52743727	1	1649	tags=20%, list=10%, signal=22%
POSITIVE_REGULATION_OF_BINDING	17	0.36396876	1.0164349	0.4667774	0.52810067	1	3160	tags=35%, list=18%, signal=43%
CELLULAR_MORPHOGENESIS_DURING_DIFFERENTIATION	29	0.32503238	1.0116879	0.43536404	0.5358688	1	2607	tags=31%, list=15%, signal=37%
SEXUAL_REPRODUCTION	56	0.2750916	1.0061214	0.45726496	0.54457045	1	3765	tags=29%, list=22%, signal=37%
ESTABLISHMENT_OF_PROTEIN_LOCALIZATION	135	0.24176864	0.9842247	0.49514562	0.58695376	1	5383	tags=41%, list=31%, signal=59%
VIRAL_REPRODUCTIVE_PROCESS	25	0.31868994	0.98044574	0.50078493	0.5928497	1	1900	tags=20%, list=11%, signal=22%
PROTEOLYSIS	131	0.24017839	0.9802876	0.49751243	0.5913493	1	3967	tags=30%, list=23%, signal=38%
POSITIVE_REGULATION_OF_TRANSFERASE_ACTIVITY	51	0.2768674	0.9796301	0.4842857	0.59086615	1	3426	tags=25%, list=20%, signal=32%
ION_TRANSPORT	109	0.24809001	0.97884923	0.50436956	0.59072876	1	735	tags=10%, list=4%, signal=10%
PROTEIN_AUTOPROCESSING	21	0.3378006	0.9777469	0.51076925	0.59128034	1	3941	tags=38%, list=23%, signal=49%
G_PROTEIN_SIGNALING__COUPLED_TO_IP3_SECOND_MESSENGER__PHOSPHOLIPASE_C_ACTIVATING	20	0.3348965	0.9750275	0.5276074	0.59502125	1	2920	tags=30%, list=17%, signal=36%
LIPID_METABOLIC_PROCESS	202	0.22387576	0.971082	0.52793616	0.60113955	1	3463	tags=24%, list=20%, signal=30%
SULFUR_METABOLIC_PROCESS	26	0.3204696	0.9699546	0.50672644	0.60161954	1	1183	tags=19%, list=7%, signal=21%
INTRACELLULAR_TRANSPORT	211	0.22548762	0.96927893	0.5510204	0.6012083	1	5178	tags=39%, list=30%, signal=55%
AXONOGENESIS	26	0.31307417	0.95860165	0.5188679	0.62094	1	2607	tags=31%, list=15%, signal=36%
EMBRYONIC_DEVELOPMENT	36	0.2909852	0.9561905	0.53698224	0.6240833	1	3748	tags=31%, list=22%, signal=39%
GAMETE_GENERATION	51	0.274869	0.9555955	0.5260116	0.62337834	1	3765	tags=27%, list=22%, signal=35%
CELLULAR_MACROMOLECULE_CATABOLIC_PROCESS	81	0.2507981	0.9538966	0.5442177	0.6249247	1	2128	tags=16%, list=12%, signal=18%
SENSORY_PERCEPTION	76	0.25073385	0.95312625	0.5606469	0.62455064	1	2362	tags=18%, list=14%, signal=21%
MESODERM_DEVELOPMENT	15	0.35434568	0.9527719	0.52782196	0.6234817	1	2352	tags=27%, list=14%, signal=31%
RNA_CATABOLIC_PROCESS	18	0.34263575	0.9419211	0.53571427	0.6430051	1	4792	tags=39%, list=28%, signal=54%
BIOPOLYMER_CATABOLIC_PROCESS	93	0.24115458	0.9411816	0.5584416	0.64264506	1	2128	tags=17%, list=12%, signal=20%
COAGULATION	27	0.30273223	0.93863785	0.57686675	0.64578897	1	1649	tags=22%, list=10%, signal=25%
PROTEIN_TRANSPORT	121	0.22848153	0.93789	0.5699874	0.6452833	1	5178	tags=38%, list=30%, signal=54%
PROTEIN_AMINO_ACID_N_LINKED_GLYCOSYLATION	18	0.33236066	0.936432	0.5071315	0.6464287	1	5653	tags=56%, list=33%, signal=83%
VIRAL_REPRODUCTION	27	0.30204713	0.93053365	0.5766871	0.6563734	1	1900	tags=19%, list=11%, signal=21%
PHOSPHOINOSITIDE_MEDIATED_SIGNALING	22	0.31873932	0.9286874	0.5607477	0.6580899	1	2920	tags=27%, list=17%, signal=33%

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX	LEADING EDGE
BLOOD_COAGULATION	27	0.30273223	0.9249015	0.5458787	0.66352034	1	1649	tags=22%, list=10%, signal=25%
CENTRAL_NERVOUS_SYSTEM_DEVELOPMENT	61	0.2530875	0.9191649	0.6	0.67270595	1	3425	tags=23%, list=20%, signal=29%
SPHINGOLIPID_METABOLIC_PROCESS	18	0.329486	0.91764146	0.59354836	0.6735568	1	2001	tags=22%, list=12%, signal=25%
EXTRACELLULAR_STRUCTURE_ORGANIZATION_AND_BIOGENESIS	16	0.3345847	0.91253954	0.58774835	0.6812756	1	1335	tags=19%, list=8%, signal=20%
INTRACELLULAR_PROTEIN_TRANSPORT	112	0.22654043	0.91228116	0.6540404	0.6798374	1	5178	tags=37%, list=30%, signal=52%
POSITIVE_REGULATION_OF_MAP_KINASE_ACTIVITY	29	0.28467652	0.9069075	0.60993975	0.68806183	1	4448	tags=38%, list=26%, signal=51%
PROTEIN_TARGETING	85	0.23536177	0.90000963	0.6463576	0.6991036	1	3078	tags=22%, list=18%, signal=27%
WOUND_HEALING	34	0.27928817	0.8994421	0.6096491	0.6982014	1	3710	tags=35%, list=22%, signal=45%
APOPTOTIC_NUCLEAR_CHANGES	16	0.3258797	0.8907826	0.5993322	0.71249664	1	1723	tags=25%, list=10%, signal=28%
RNA_SPLICING__VIA_TRANSESTERIFICATION_REACTIONS	28	0.28771952	0.8853221	0.62027234	0.7205684	1	6859	tags=61%, list=40%, signal=101%
SKELETAL_MUSCLE_DEVELOPMENT	19	0.30664808	0.88421386	0.6123778	0.720707	1	3172	tags=26%, list=19%, signal=32%
NUCLEOBASE__NUCLEOSIDE__NUCLEOTIDE_AND_NUCLEIC_ACID_TRANSPORT	21	0.30251253	0.8765306	0.6157407	0.73292005	1	1903	tags=19%, list=11%, signal=21%
CHROMATIN_REMODELING	15	0.3255041	0.8743531	0.5983051	0.73491544	1	2370	tags=20%, list=14%, signal=23%
PROTEIN_OLIGOMERIZATION	28	0.28354707	0.8728743	0.64697194	0.7355657	1	4873	tags=43%, list=28%, signal=60%
SECRETORY_PATHWAY	57	0.24360566	0.8722285	0.6694915	0.7347929	1	4306	tags=28%, list=25%, signal=37%
RNA_SPLICING	72	0.22836609	0.8622711	0.7036536	0.7504956	1	4113	tags=28%, list=24%, signal=36%
CHROMATIN_MODIFICATION	40	0.25440007	0.8542857	0.68613136	0.7624701	1	4872	tags=35%, list=28%, signal=49%
CYTOSKELETON_DEPENDENT_INTRACELLULAR_TRANSPORT	16	0.3065139	0.8433915	0.67156863	0.77983165	1	2973	tags=38%, list=17%, signal=45%
UBIQUITIN_CYCLE	32	0.26550636	0.84282047	0.70901036	0.77872235	1	2459	tags=19%, list=14%, signal=22%
CELLULAR_CARBOHYDRATE_METABOLIC_PROCESS	83	0.21627288	0.8313168	0.7722513	0.79613805	1	2285	tags=17%, list=13%, signal=19%
PROTEIN_UBIQUITINATION	27	0.267643	0.8244098	0.71875	0.80535114	1	2459	tags=19%, list=14%, signal=22%
MONOVALENT_INORGANIC_CATION_TRANSPORT	50	0.23254885	0.8138378	0.7633136	0.81972784	1	735	tags=8%, list=4%, signal=8%
PROTEIN_DNA_COMPLEX_ASSEMBLY	32	0.25558046	0.81323606	0.7381657	0.818484	1	5185	tags=41%, list=30%, signal=58%
GLYCOPROTEIN_BIOSYNTHETIC_PROCESS	45	0.2359306	0.8084102	0.7598315	0.82409513	1	2454	tags=20%, list=14%, signal=23%
ACTIVATION_OF_MAPK_ACTIVITY	24	0.26625723	0.7887552	0.7705167	0.8514175	1	4448	tags=38%, list=26%, signal=51%
GLYCEROPHOSPHOLIPID_METABOLIC_PROCESS	33	0.24920718	0.7879394	0.76666665	0.85038763	1	781	tags=9%, list=5%, signal=10%
GLYCOPROTEIN_METABOLIC_PROCESS	59	0.21540998	0.77927685	0.80551726	0.860483	1	4215	tags=32%, list=25%, signal=43%
NEURON_APOPTOSIS	15	0.2884921	0.775959	0.7678275	0.86275166	1	2485	tags=20%, list=15%, signal=23%
VIRAL_INFECTIOUS_CYCLE	21	0.26591328	0.76939636	0.78056425	0.86942285	1	1723	tags=14%, list=10%, signal=16%
PROTEIN_MODIFICATION_BY_SMALL_PROTEIN_CONJUGATION	29	0.24188735	0.76124793	0.8356807	0.8778909	1	2459	tags=17%, list=14%, signal=20%
HEART_DEVELOPMENT	19	0.24853005	0.723252	0.84090906	0.9194307	1	3299	tags=21%, list=19%, signal=26%
ONE_CARBON_COMPOUND_METABOLIC_PROCESS	19	0.2525279	0.72279847	0.8146911	0.9174636	1	4791	tags=42%, list=28%, signal=58%
DNA_DAMAGE_RESPONSE__SIGNAL_TRANSDUCTION	19	0.25473696	0.7219389	0.83416253	0.91592944	1	2307	tags=21%, list=13%, signal=24%
STEROID_BIOSYNTHETIC_PROCESS	17	0.24393447	0.68752235	0.86614174	0.94479096	1	3181	tags=29%, list=19%, signal=36%
MRNA_PROCESSING_GO_0006397	56	0.19102037	0.6818314	0.9325997	0.94688165	1	6337	tags=46%, list=37%, signal=74%
GOLGI_VESICLE_TRANSPORT	37	0.19735532	0.6553996	0.9431988	0.9624815	1	4306	tags=32%, list=25%, signal=43%
REGULATION_OF_SMALL_GTPASE_MEDIATED_SIGNAL_TRANSDUCTION	17	0.23271504	0.6536852	0.903177	0.9609563	1	3718	tags=29%, list=22%, signal=38%
BRAIN_DEVELOPMENT	24	0.19481261	0.58445257	0.9613601	0.9890816	1	666	tags=8%, list=4%, signal=9%
MRNA_METABOLIC_PROCESS	66	0.15604939	0.5784677	0.9904762	0.98826766	1	6337	tags=44%, list=37%, signal=70%
SPLICEOSOME_ASSEMBLY	18	0.2032997	0.5737467	0.94896334	0.98687994	1	3212	tags=22%, list=19%, signal=27%
MITOCHONDRIAL_TRANSPORT	18	0.19453715	0.55931175	0.9626016	0.9877618	1	4865	tags=39%, list=28%, signal=54%
RNA_EXPORT_FROM_NUCLEUS	16	0.17077352	0.45863637	0.9914383	0.9978371	1	4914	tags=31%, list=29%, signal=44%

Appendix I (b4)

Gene Ontology Analysis (GSEA): Downregulated pathways in Fh1-/- Hif-1a-/- vs Fh1+/+ kidneys.

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX	LEADING EDGE
NITROGEN_COMPOUND_CATABOLIC_PROCESS	23	-0.64591	-2.20392	0	0.002194814	0.005	3384	tags=61%, list=20%, signal=76%
CELLULAR_RESPIRATION	16	-0.72125	-2.13249	0	0.002414982	0.011	2882	tags=81%, list=17%, signal=98%
AMINO_ACID_AND_DERIVATIVE_METABOLIC_PROCESS	76	-0.45603	-2.04523	0	0.005132078	0.034	2024	tags=45%, list=12%, signal=51%
AMINO_ACID_CATABOLIC_PROCESS	20	-0.63224	-2.03399	0	0.004534111	0.039	3384	tags=60%, list=20%, signal=75%
AMINE_CATABOLIC_PROCESS	21	-0.62873	-2.01398	0.002702703	0.004518099	0.049	3384	tags=57%, list=20%, signal=71%
AROMATIC_COMPOUND_METABOLIC_PROCESS	19	-0.62915	-1.9596	0	0.007409014	0.096	1793	tags=63%, list=10%, signal=70%
PHOSPHOINOSITIDE_BIOSYNTHETIC_PROCESS	17	-0.63788	-1.91002	0	0.010368727	0.149	3409	tags=59%, list=20%, signal=73%
ENERGY_DERIVATION_BY_OXIDATION_OF_ORGANIC_COMPOUNDS	29	-0.52772	-1.88217	0	0.011433694	0.185	3809	tags=69%, list=22%, signal=89%
AMINO_ACID_METABOLIC_PROCESS	61	-0.44221	-1.87271	0	0.011288231	0.203	2428	tags=49%, list=14%, signal=57%
ORGANIC_ACID_METABOLIC_PROCESS	127	-0.38274	-1.8697	0	0.01043219	0.208	2094	tags=38%, list=12%, signal=43%
CARBOXYLIC_ACID_METABOLIC_PROCESS	125	-0.38103	-1.84853	0	0.011374195	0.243	2094	tags=38%, list=12%, signal=43%
AMINE_METABOLIC_PROCESS	101	-0.37387	-1.76576	0	0.020696746	0.426	2024	tags=36%, list=12%, signal=40%
GENERATION_OF_PRECURSOR_METABOLITES_AND_ENERGY	89	-0.35562	-1.64388	0	0.05403701	0.792	2941	tags=45%, list=17%, signal=54%
NITROGEN_COMPOUND_METABOLIC_PROCESS	110	-0.34838	-1.63678	0.005050505	0.052656494	0.805	2024	tags=35%, list=12%, signal=39%
PHOSPHOLIPID_BIOSYNTHETIC_PROCESS	26	-0.47523	-1.62942	0.010526316	0.051851183	0.82	3409	tags=46%, list=20%, signal=58%
AMINO_ACID_DERIVATIVE_METABOLIC_PROCESS	15	-0.55917	-1.62705	0.021917809	0.049524426	0.828	3189	tags=53%, list=19%, signal=65%
ANION_TRANSPORT	22	-0.47927	-1.60091	0.032967035	0.057366747	0.894	1620	tags=36%, list=9%, signal=40%
LIPOPROTEIN_METABOLIC_PROCESS	22	-0.45742	-1.52993	0.06371191	0.08831491	0.976	3227	tags=45%, list=19%, signal=56%
LIPOPROTEIN_BIOSYNTHETIC_PROCESS	18	-0.47395	-1.50564	0.049140047	0.09821058	0.987	3227	tags=50%, list=19%, signal=62%
SECONDARY_METABOLIC_PROCESS	20	-0.46276	-1.48844	0.04050633	0.10363339	0.991	3131	tags=45%, list=18%, signal=55%
GLYCEROPHOSPHOLIPID_BIOSYNTHETIC_PROCESS	22	-0.4346	-1.47002	0.05248619	0.11100418	0.996	3409	tags=45%, list=20%, signal=57%
ORGANIC_ACID_TRANSPORT	32	-0.39439	-1.45592	0.04775281	0.115396045	0.996	2864	tags=47%, list=17%, signal=56%
CARBOXYLIC_ACID_TRANSPORT	31	-0.38052	-1.4276	0.06	0.1305153	0.999	2864	tags=45%, list=17%, signal=54%
LIPID_BIOSYNTHETIC_PROCESS	62	-0.32285	-1.41968	0.025559105	0.13123165	1	3467	tags=37%, list=20%, signal=46%
CATABOLIC_PROCESS	169	-0.27758	-1.41904	0.006993007	0.12635636	1	2916	tags=31%, list=17%, signal=37%
PHOSPHOINOSITIDE_METABOLIC_PROCESS	22	-0.41913	-1.40479	0.074666664	0.13283569	1	3409	tags=50%, list=20%, signal=62%
CELLULAR_CATABOLIC_PROCESS	161	-0.28092	-1.40372	0.011363637	0.12858047	1	2916	tags=32%, list=17%, signal=38%
COFACTOR_BIOSYNTHETIC_PROCESS	19	-0.43564	-1.39078	0.083798885	0.1334978	1	2336	tags=42%, list=14%, signal=49%
RESPONSE_TO_ORGANIC_SUBSTANCE	22	-0.41159	-1.38781	0.092391305	0.13098122	1	1076	tags=18%, list=6%, signal=19%
MEMBRANE_LIPID_BIOSYNTHETIC_PROCESS	29	-0.39288	-1.37954	0.08405797	0.13261703	1	3409	tags=41%, list=20%, signal=52%
HETEROCYCLE_METABOLIC_PROCESS	22	-0.41379	-1.37657	0.0880829	0.13046579	1	3131	tags=50%, list=18%, signal=61%
PROTEIN_AMINO_ACID_LIPIDATION	16	-0.46294	-1.3755	0.10148515	0.1272661	1	3227	tags=50%, list=19%, signal=62%
COFACTOR_METABOLIC_PROCESS	44	-0.34529	-1.37471	0.051359516	0.12399936	1	2882	tags=52%, list=17%, signal=63%
RESPONSE_TO_OXIDATIVE_STRESS	37	-0.36471	-1.37398	0.055393588	0.12080399	1	2223	tags=35%, list=13%, signal=40%
CELLULAR_LIPID_CATABOLIC_PROCESS	19	-0.4169	-1.31047	0.12664908	0.16884814	1	1757	tags=32%, list=10%, signal=35%
FATTY_ACID_METABOLIC_PROCESS	39	-0.33706	-1.2892	0.084690556	0.18401138	1	4257	tags=51%, list=25%, signal=68%
LIPID_CATABOLIC_PROCESS	22	-0.36589	-1.20153	0.22222222	0.2833399	1	1757	tags=27%, list=10%, signal=30%
CELLULAR_LIPID_METABOLIC_PROCESS	157	-0.23199	-1.1791	0.10909091	0.30852735	1	3595	tags=32%, list=21%, signal=41%
TRANSCRIPTION_FROM_RNA_POLYMERASE_III_PROMOTER	15	-0.38965	-1.1771	0.24641149	0.3036572	1	4564	tags=47%, list=27%, signal=64%
AMINO_ACID_TRANSPORT	21	-0.34726	-1.14945	0.27894738	0.33910224	1	1396	tags=33%, list=8%, signal=36%
CARBOHYDRATE_METABOLIC_PROCESS	112	-0.23644	-1.13581	0.18779343	0.353206	1	3411	tags=34%, list=20%, signal=42%
PHOSPHOLIPID_METABOLIC_PROCESS	47	-0.28786	-1.12531	0.22895622	0.36264023	1	3409	tags=34%, list=20%, signal=42%
AMINE_TRANSPORT	26	-0.3083	-1.09186	0.32285714	0.41366455	1	1396	tags=31%, list=8%, signal=33%
PROTEIN_FOLDING	46	-0.26623	-1.07086	0.3028169	0.44456547	1	4802	tags=41%, list=28%, signal=57%
MONOCARBOXYLIC_ACID_METABOLIC_PROCESS	55	-0.25775	-1.06948	0.32129964	0.43761382	1	4257	tags=44%, list=25%, signal=58%
CARBOHYDRATE_BIOSYNTHETIC_PROCESS	32	-0.28207	-1.04627	0.35755813	0.47495794	1	2587	tags=31%, list=15%, signal=37%
DIGESTION	15	-0.34334	-1.02812	0.41831684	0.50235635	1	3423	tags=33%, list=20%, signal=42%
MEMBRANE_LIPID_METABOLIC_PROCESS	64	-0.23694	-1.02361	0.38225257	0.5015906	1	3409	tags=33%, list=20%, signal=41%
CELLULAR_PROTEIN_CATABOLIC_PROCESS	47	-0.25104	-0.99763	0.4465409	0.54820156	1	3581	tags=30%, list=21%, signal=38%
PROTEIN_CATABOLIC_PROCESS	53	-0.23148	-0.96296	0.5223368	0.61463	1	2538	tags=23%, list=15%, signal=27%
RESPONSE_TO_HYPOXIA	23	-0.27413	-0.9394	0.5595568	0.65573025	1	2009	tags=17%, list=12%, signal=20%
PROTEIN_PROCESSING	31	-0.23088	-0.83087	0.7507003	0.86993545	1	3124	tags=29%, list=18%, signal=35%

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX	LEADING EDGE
MITOCHONDRION_ORGANIZATION_AND_BIOGENESIS	41	-0.21381	-0.82095	0.7647059	0.87075967	1	2442	tags=24%, list=14%, signal=28%
POTASSIUM_ION_TRANSPORT	28	-0.20516	-0.72207	0.90144926	0.9877143	1	2104	tags=18%, list=12%, signal=20%
HISTONE_MODIFICATION	20	-0.21004	-0.68405	0.9157895	1	1	3275	tags=25%, list=19%, signal=31%
NUCLEAR_EXPORT	25	-0.20318	-0.68324	0.91436464	0.9851165	1	5461	tags=44%, list=32%, signal=65%
COVALENT_CHROMATIN_MODIFICATION	20	-0.21004	-0.67892	0.9204244	0.9709158	1	3275	tags=25%, list=19%, signal=31%
REGULATION_OF_RAS_PROTEIN_SIGNAL_TRANSDUCTION	15	-0.22333	-0.63986	0.9193154	0.97651917	1	3500	tags=33%, list=20%, signal=42%
TRANSCRIPTION_INITIATION	20	-0.1822	-0.59432	0.95822453	0.9779869	1	4564	tags=35%, list=27%, signal=48%

Gene Ontology Analysis (GSEA): Upregulated pathways in Fh1-/- Hif-1a-/- vs Fh1-/- kidneys.

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX	LEADING EDGE
EPIDERMIS_DEVELOPMENT	37	0.6320483	2.1827078	0	6.15E-04	0.002	2652	tags=43%, list=16%, signal=51%
ECTODERM_DEVELOPMENT	40	0.60658276	2.1880584	0	8.20E-04	0.002	2652	tags=43%, list=16%, signal=50%
CELL_CYCLE_PHASE	112	0.4956068	2.1512158	0	9.64E-04	0.004	2441	tags=35%, list=14%, signal=40%
MITOTIC_CELL_CYCLE	102	0.506429	2.1907399	0	0.001230458	0.002	2441	tags=37%, list=14%, signal=43%
CELL_CYCLE_PROCESS	128	0.496263	2.1935458	0	0.001275862	0.001	2441	tags=35%, list=14%, signal=41%
M_PHASE_OF_MITOTIC_CELL_CYCLE	49	0.56107354	2.0790849	0	0.003599509	0.017	2441	tags=43%, list=14%, signal=50%
INTERPHASE	54	0.5427762	2.0675955	0	0.00394731	0.022	2009	tags=35%, list=12%, signal=40%
M_PHASE	66	0.5127839	2.043875	0	0.004352442	0.027	2441	tags=38%, list=14%, signal=44%
MITOSIS	48	0.54533726	2.0160983	0	0.005995051	0.043	2441	tags=42%, list=14%, signal=48%
HUMORAL_IMMUNE_RESPONSE	18	0.68709445	1.9982327	0	0.006341105	0.05	555	tags=33%, list=3%, signal=34%
CELL_CYCLE_GO_0007049	211	0.41828477	1.9800215	0	0.007631014	0.065	2473	tags=31%, list=14%, signal=36%
NEGATIVE_REGULATION_OF_CELLULAR_COMPONENT_ORGANIZATION_AND_BIOGENESIS	25	0.6059854	1.9202701	0	0.015538265	0.143	5412	tags=80%, list=32%, signal=117%
ESTABLISHMENT_OF_ORGANELLE_LOCALIZATION	15	0.6874964	1.909344	0	0.016134534	0.16	1950	tags=53%, list=11%, signal=60%
TISSUE_DEVELOPMENT	71	0.46989578	1.8937767	0	0.017038224	0.187	2823	tags=32%, list=17%, signal=39%
INTERPHASE_OF_MITOTIC_CELL_CYCLE	49	0.5142244	1.8951149	0	0.01808794	0.185	2379	tags=37%, list=14%, signal=43%
CELL_CYCLE_CHECKPOINT_GO_0000075	32	0.5528927	1.8606192	0	0.023447933	0.272	2473	tags=44%, list=14%, signal=51%
RESPONSE_TO_UV	18	0.6133405	1.8437847	0.001841621	0.025525386	0.323	2410	tags=44%, list=14%, signal=52%
POSITIVE_REGULATION_OF_CELL_PROLIFERATION	87	0.44148207	1.8464049	0	0.026258424	0.314	3677	tags=43%, list=21%, signal=54%
ACTIN_CYTOSKELETON_ORGANIZATION_AND_BIOGENESIS	72	0.45464167	1.8256598	0	0.028410126	0.364	3311	tags=39%, list=19%, signal=48%
ACTIN_FILAMENT_BASED_PROCESS	79	0.4451414	1.8099698	0	0.032560535	0.422	3311	tags=38%, list=19%, signal=47%
REGULATION_OF_CELL_PROLIFERATION	187	0.38980085	1.8043776	0	0.032618623	0.439	3737	tags=38%, list=22%, signal=48%
ORGANELLE_LOCALIZATION	18	0.589917	1.7752931	0.003696858	0.037509944	0.53	1950	tags=44%, list=11%, signal=50%
CYTOSKELETON_ORGANIZATION_AND_BIOGENESIS	137	0.3966145	1.7766699	0	0.03845984	0.526	3155	tags=34%, list=18%, signal=42%
DNA_METABOLIC_PROCESS	190	0.37674952	1.7693347	0	0.038461972	0.546	2932	tags=31%, list=17%, signal=37%
CYTOKINESIS	16	0.632747	1.7810799	0	0.03862831	0.514	2170	tags=44%, list=13%, signal=50%
RHYTHMIC_PROCESS	17	0.61248547	1.7574867	0.00877193	0.040417276	0.597	207	tags=24%, list=1%, signal=24%
MICROTUBULE_CYTOSKELETON_ORGANIZATION_AND_BIOGENESIS	23	0.5617403	1.7580069	0.005263158	0.041647166	0.594	1988	tags=43%, list=12%, signal=49%
CYTOKINE_METABOLIC_PROCESS	19	0.56981015	1.7021849	0.003577818	0.052575834	0.764	4240	tags=63%, list=25%, signal=84%
REGULATION_OF_IMMUNE_SYSTEM_PROCESS	31	0.50876164	1.7247642	0.007017544	0.053465676	0.706	4311	tags=48%, list=25%, signal=65%
RESPONSE_TO_DNA_DAMAGE_STIMULUS	119	0.38595536	1.7030925	0	0.05373852	0.763	2932	tags=33%, list=17%, signal=39%
CYTOKINE_BIOSYNTHETIC_PROCESS	19	0.56981015	1.7164458	0.009090909	0.053885747	0.731	4240	tags=63%, list=25%, signal=84%
REGULATION_OF_CYTOKINE_BIOSYNTHETIC_PROCESS	18	0.58638483	1.7198294	0.012891345	0.05419951	0.72	4240	tags=67%, list=25%, signal=89%
LEUKOCYTE_DIFFERENTIATION	20	0.55640805	1.7114496	0.010327023	0.054399792	0.74	3883	tags=50%, list=23%, signal=65%
POSITIVE_REGULATION_OF_CELLULAR_PROCESS	423	0.33539864	1.7070152	0	0.055141874	0.752	3883	tags=35%, list=23%, signal=44%
NEGATIVE_REGULATION_OF_MULTICELLULAR_ORGANISMAL_PROCESS	17	0.5886295	1.7033409	0.014440433	0.05522279	0.762	4141	tags=53%, list=24%, signal=70%
CELL_PROLIFERATION_GO_0008283	310	0.3388137	1.6816354	0	0.061659947	0.82	2852	tags=28%, list=17%, signal=33%
POSITIVE_REGULATION_OF_HYDROLASE_ACTIVITY	33	0.48692194	1.6775794	0.008787346	0.062173326	0.833	1513	tags=30%, list=9%, signal=33%
DNA_REPLICATION	72	0.42056984	1.6724479	0.003215434	0.06315672	0.847	3833	tags=42%, list=22%, signal=53%
CELL_ACTIVATION	30	0.49121517	1.669784	0.011945393	0.06323865	0.852	4141	tags=40%, list=24%, signal=53%
IMMUNE_SYSTEM_PROCESS	179	0.35907707	1.6605626	0	0.06568148	0.877	4141	tags=40%, list=24%, signal=53%
POSITIVE_REGULATION_OF_BIOLOGICAL_PROCESS	440	0.32404044	1.6629936	0	0.065731786	0.871	3883	tags=34%, list=23%, signal=43%
DNA_REPAIR	98	0.3889119	1.6511018	0.003012048	0.06961581	0.902	4075	tags=40%, list=24%, signal=52%
CELL_DIVISION	18	0.5670166	1.6440927	0.010507881	0.07060823	0.916	2170	tags=39%, list=13%, signal=44%
CYTOKINE_PRODUCTION	33	0.48205584	1.6467317	0.001751314	0.07074007	0.91	4513	tags=67%, list=26%, signal=90%
MICROTUBULE_BASED_PROCESS	53	0.4325944	1.6291416	0.011864407	0.076846205	0.942	2299	tags=32%, list=13%, signal=37%
RESPONSE_TO_RADIATION	37	0.46698773	1.6298927	0.013793103	0.07793997	0.941	2410	tags=32%, list=14%, signal=38%
FEMALE_PREGNANCY	17	0.55678886	1.622619	0.021201413	0.07961958	0.953	335	tags=24%, list=2%, signal=24%
RESPONSE_TO_ENDOGENOUS_STIMULUS	145	0.36263758	1.6155776	0.001536098	0.080693096	0.957	2932	tags=29%, list=17%, signal=35%
ORGANELLE_ORGANIZATION_AND_BIOGENESIS	324	0.3250388	1.6168817	0	0.081406035	0.957	4251	tags=37%, list=25%, signal=48%
POSITIVE_REGULATION_OF_CELL_DIFFERENTIATION	19	0.53585434	1.598994	0.026501767	0.091165215	0.974	2176	tags=47%, list=13%, signal=54%
RESPONSE_TO_LIGHT_STIMULUS	27	0.49616522	1.5915414	0.018675722	0.09306522	0.981	1564	tags=30%, list=9%, signal=33%
TRNA_METABOLIC_PROCESS	17	0.5499883	1.5808342	0.036764707	0.094114214	0.984	1875	tags=35%, list=11%, signal=40%
REGULATION_OF_CELL_CYCLE	121	0.36278874	1.5917827	0.004470939	0.09469998	0.981	2473	tags=28%, list=14%, signal=33%
POSITIVE_REGULATION_OF_CATALYTIC_ACTIVITY	98	0.37403598	1.584136	0.0094936 7	0.095049135	0.984	1513	tags=20%, list=9%, signal=22%
CHROMOSOME_SEGREGATION	20	0.5200855	1.5810239	0.03508772	0.095694676	0.984	2441	tags=40%, list=14%, signal=47%
REGULATION_OF_MITOSIS	24	0.5050117	1.5855627	0.03380783	0.09573861	0.984	2324	tags=42%, list=14%, signal=48%
LEUKOCYTE_ACTIVATION	28	0.4802514	1.5664587	0.018998273	0.102722056	0.992	4141	tags=39%, list=24%, signal=52%
EXCRETION	30	0.46808842	1.5618193	0.023172906	0.10441766	0.992	733	tags=23%, list=4%, signal=24%
HEMOPOIETIC_OR_LYMPHOID_ORGAN_DEVELOPMENT	46	0.42392617	1.5579643	0.022764228	0.105682805	0.994	3883	tags=46%, list=23%, signal=59%
DNA_PACKAGING	23	0.49315268	1.5495107	0.028070176	0.108897164	0.996	2840	tags=39%, list=17%, signal=47%
REGULATION_OF_CYTOSKELETON_ORGANIZATION_AND_BIOGENESIS	20	0.5154373	1.5495839	0.041366905	0.1106103	0.996	1464	tags=30%, list=9%, signal=33%
POSITIVE_REGULATION_OF_I_KAPPAB_KINASE_NF_KAPPAB_CASCADE	59	0.3909009	1.5387584	0.009966778	0.11245867	0.996	3836	tags=42%, list=22%, signal=54%
REGULATION_OF_CATALYTIC_ACTIVITY	173	0.3347988	1.5397372	0.002881844	0.11342053	0.996	1513	tags=18%, list=9%, signal=20%
TRANSMEMBRANE_RECEPTOR_PROTEIN_SERINE_THREONINE_KINASE_SIGNALING_PATHWAY	30	0.4526058	1.5349323	0.029310346	0.113988325	0.996	3097	tags=43%, list=18%, signal=53%
HEMOPOIESIS	45	0.42601863	1.5400012	0.014563107	0.11509367	0.996	3883	tags=47%, list=23%, signal=60%
REGULATION_OF_TRANSPORT	40	0.42116565	1.5297223	0.016920473	0.116637304	0.997	1769	tags=25%, list=10%, signal=28%
IMMUNE_SYSTEM_DEVELOPMENT	49	0.40954348	1.5207956	0.021702837	0.11727744	0.997	3883	tags=45%, list=23%, signal=58%
G_PROTEIN_COUPLED_RECEPTOR_PROTEIN_SIGNALING_PATHWAY	137	0.33769146	1.522613	0.002932551	0.11728593	0.997	1926	tags=23%, list=11%, signal=25%
POSITIVE_REGULATION_OF_TRANSLATION	15	0.5467245	1.5261164	0.03773585	0.11773947	0.997	4240	tags=67%, list=25%, signal=89%
REGULATION_OF_MULTICELLULAR_ORGANISMAL_PROCESS	74	0.3740192	1.5182256	0.015455951	0.1178393	0.998	4311	tags=36%, list=25%, signal=49%

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX	LEADING EDGE
RHO_PROTEIN_SIGNAL_TRANSDUCTION	32	0.44943684	1.5227811	0.043243244	0.118796736	0.997	3291	tags=44%, list=19%, signal=54%
ENZYME_LINKED_RECEPTOR_PROTEIN_SIGNALING_PATHWAY	89	0.36019796	1.5070043	0.017405063	0.124066986	1	3155	tags=36%, list=18%, signal=44%
REGULATION_OF_CYCLIN_DEPENDENT_PROTEIN_KINASE_ACTIVITY	31	0.45188922	1.507253	0.02364865	0.12560524	1	920	tags=23%, list=5%, signal=24%
DOUBLE_STRAND_BREAK_REPAIR	17	0.53155273	1.4998217	0.04347826	0.12597843	1	1483	tags=35%, list=9%, signal=39%
NUCLEOTIDE_EXCISION_REPAIR	16	0.5311431	1.5020996	0.06363636	0.12690628	1	3343	tags=50%, list=20%, signal=62%
POSITIVE_REGULATION_OF_SIGNAL_TRANSDUCTION	77	0.36703506	1.5003706	0.026234567	0.12711027	1	3836	tags=39%, list=22%, signal=50%
G1_S_TRANSITION_OF_MITOTIC_CELL_CYCLE	23	0.46996915	1.4948857	0.050179213	0.12864298	1	1950	tags=30%, list=11%, signal=34%
REGULATION_OF_MOLECULAR_FUNCTION	204	0.31527042	1.4924425	0.00143472	0.12920178	1	1564	tags=18%, list=9%, signal=19%
MEMBRANE_ORGANIZATION_AND_BIOGENESIS	92	0.355671	1.4904523	0.016768293	0.1296079	1	2763	tags=30%, list=16%, signal=36%
POSITIVE_REGULATION_OF_DEVELOPMENTAL_PROCESS	149	0.32604653	1.4865063	0.001488095	0.13173608	1	3698	tags=32%, list=22%, signal=41%
ACTIN_POLYMERIZATION_AND_OR_DEPOLYMERIZATION	16	0.5287501	1.4801594	0.061837457	0.13628851	1	1231	tags=25%, list=7%, signal=27%
CELL_PROJECTION_BIOGENESIS	21	0.48225167	1.4749714	0.055456173	0.13940339	1	2843	tags=43%, list=17%, signal=51%
MYELOID_CELL_DIFFERENTIATION	24	0.47312212	1.4701363	0.0625	0.14275488	1	3883	tags=58%, list=23%, signal=75%
LYMPHOCYTE_ACTIVATION	26	0.45293707	1.4564034	0.049657535	0.15382098	1	4141	tags=38%, list=24%, signal=51%
G_PROTEIN_SIGNALING__COUPLED_TO_CAMP_NUCLEOTIDE_SECOND_MESSENGER	24	0.46520475	1.445806	0.04475043	0.15463836	1	220	tags=13%, list=1%, signal=13%
CELL_CELL_SIGNALING	172	0.31582123	1.4564456	0.011730205	0.15560882	1	1621	tags=19%, list=9%, signal=21%
REGULATION_OF_TRANSLATION	42	0.40306607	1.4461441	0.040747028	0.15595157	1	4683	tags=45%, list=27%, signal=62%
RESPONSE_TO_ABIOTIC_STIMULUS	59	0.37347144	1.447209	0.03618421	0.15640216	1	2584	tags=27%, list=15%, signal=32%
NUCLEOTIDE_METABOLIC_PROCESS	27	0.44664535	1.4522511	0.060240965	0.15640835	1	2648	tags=37%, list=15%, signal=44%
CAMP_MEDIATED_SIGNALING	25	0.45258185	1.4420229	0.059753954	0.15677328	1	220	tags=12%, list=1%, signal=12%
REGULATION_OF_ORGANELLE_ORGANIZATION_AND_BIOGENESIS	29	0.43203685	1.4403394	0.06514084	0.15688397	1	1464	tags=28%, list=9%, signal=30%
REGULATION_OF_I_KAPPAB_KINASE_NF_KAPPAB_CASCADE	62	0.3685654	1.4479476	0.02647975	0.1573322	1	3836	tags=40%, list=22%, signal=52%
REGULATION_OF_LYMPHOCYTE_ACTIVATION	19	0.4810923	1.448209	0.06996587	0.15874107	1	4141	tags=42%, list=24%, signal=55%
REGULATION_OF_PROTEIN_METABOLIC_PROCESS	96	0.33820793	1.430044	0.024193548	0.16151458	1	4801	tags=42%, list=28%, signal=58%
REGULATION_OF_CELLULAR_PROTEIN_METABOLIC_PROCESS	87	0.34282434	1.4283468	0.03015873	0.16183624	1	1507	tags=18%, list=9%, signal=20%
REGULATION_OF_TRANSFERASE_ACTIVITY	108	0.33191675	1.4322704	0.029096479	0.16244067	1	1317	tags=18%, list=8%, signal=19%
NEGATIVE_REGULATION_OF_CELL_PROLIFERATION	99	0.33585128	1.4301977	0.0152207	0.16303064	1	3737	tags=33%, list=22%, signal=42%
REGULATION_OF_SIGNAL_TRANSDUCTION	136	0.3173098	1.4333403	0.013157895	0.16310304	1	3208	tags=31%, list=19%, signal=38%
POSITIVE_REGULATION_OF_CASPASE_ACTIVITY	19	0.46392167	1.4241722	0.080935255	0.16465482	1	1513	tags=26%, list=9%, signal=29%
NERVOUS_SYSTEM_DEVELOPMENT	193	0.30471766	1.4214163	0.00990099	0.165904	1	2018	tags=20%, list=12%, signal=22%
REGULATION_OF_HYDROLASE_ACTIVITY	53	0.37598106	1.4192492	0.035714287	0.16649753	1	1513	tags=23%, list=9%, signal=25%
IMMUNE_RESPONSE	125	0.32236665	1.4162805	0.02431611	0.16829206	1	4211	tags=38%, list=25%, signal=50%
HORMONE_METABOLIC_PROCESS	19	0.46991703	1.4144282	0.079696395	0.1685298	1	4021	tags=53%, list=24%, signal=69%
MULTI_ORGANISM_PROCESS	67	0.35679626	1.4126381	0.03927987	0.1691651	1	1317	tags=19%, list=8%, signal=21%
I_KAPPAB_KINASE_NF_KAPPAB_CASCADE	75	0.3454796	1.398022	0.04258675	0.17395926	1	3836	tags=39%, list=22%, signal=50%
NEGATIVE_REGULATION_OF_METABOLIC_PROCESS	160	0.3075626	1.4005576	0.016566265	0.17430694	1	3337	tags=31%, list=20%, signal=38%
CELL_MIGRATION	52	0.37573227	1.4047437	0.052117262	0.17461714	1	2170	tags=29%, list=13%, signal=33%
SYSTEM_DEVELOPMENT	455	0.27559063	1.4060823	0.002567394	0.17465353	1	2946	tags=23%, list=17%, signal=27%
NEGATIVE_REGULATION_OF_BIOLOGICAL_PROCESS	427	0.2749046	1.4013066	0.00388601	0.17502694	1	3833	tags=31%, list=22%, signal=39%
REGULATION_OF_PROTEIN_KINASE_ACTIVITY	104	0.32413992	1.3980962	0.027149322	0.17544112	1	1317	tags=17%, list=8%, signal=19%
CASPASE_ACTIVATION	19	0.46392167	1.4019847	0.084048025	0.17587654	1	1513	tags=26%, list=9%, signal=29%
CELL_SURFACE_RECEPTOR_LINKED_SIGNAL_TRANSDUCTION_GO_0007166	315	0.27757922	1.38748	0.005277045	0.18404461	1	3097	tags=27%, list=18%, signal=32%
TRANSMISSION_OF_NERVE_IMPULSE	72	0.34869352	1.3831605	0.045234248	0.18765	1	1621	tags=21%, list=9%, signal=23%
REGULATION_OF_CELL_DIFFERENTIATION	34	0.40187988	1.3714621	0.07445008	0.19344883	1	3883	tags=47%, list=23%, signal=61%
NEGATIVE_REGULATION_OF_CELLULAR_METABOLIC_PROCESS	158	0.2989732	1.3726119	0.02556391	0.19374332	1	3337	tags=30%, list=20%, signal=37%
REGULATION_OF_KINASE_ACTIVITY	106	0.32060596	1.3769197	0.036144577	0.1937452	1	1317	tags=17%, list=8%, signal=18%
NEGATIVE_REGULATION_OF_CELLULAR_PROCESS	413	0.26780203	1.3686007	0.004021448	0.19387928	1	3833	tags=31%, list=22%, signal=39%
MITOTIC_CELL_CYCLE_CHECKPOINT	15	0.48950627	1.3752849	0.11627907	0.19393843	1	2324	tags=40%, list=14%, signal=46%
CELL_DEVELOPMENT	373	0.27161846	1.3689973	0.007832898	0.19505611	1	2653	tags=22%, list=16%, signal=25%
REGULATION_OF_CELL_MIGRATION	18	0.4562815	1.3728131	0.11310592	0.19518507	1	4141	tags=44%, list=24%, signal=59%
SECRETION	111	0.30928487	1.3641149	0.042962965	0.19791974	1	2502	tags=23%, list=15%, signal=26%
POSITIVE_REGULATION_OF_MULTICELLULAR_ORGANISMAL_PROCESS	32	0.40163606	1.3628305	0.0761062	0.19801204	1	4311	tags=41%, list=25%, signal=54%
CELL_CYCLE_ARREST_GO_0007050	41	0.37455058	1.3520201	0.0921273	0.20641723	1	1816	tags=27%, list=11%, signal=30%
REGULATION_OF_DNA_METABOLIC_PROCESS	32	0.3978832	1.3532367	0.09715243	0.20667864	1	3833	tags=41%, list=22%, signal=52%
REGULATION_OF_DEVELOPMENTAL_PROCESS	294	0.27680635	1.3533087	0.01462766	0.20824331	1	3698	tags=30%, list=22%, signal=37%
TRANSFORMING_GROWTH_FACTOR_BETA_RECEPTOR_SIGNALING_PATHWAY	23	0.42676982	1.34725	0.10424028	0.21062404	1	3097	tags=39%, list=18%, signal=48%
TRANSLATION	115	0.3055145	1.3421928	0.055727553	0.21531093	1	5233	tags=42%, list=31%, signal=60%
SYNAPTIC_TRANSMISSION	62	0.33976588	1.3367622	0.074074075	0.21567266	1	1621	tags=21%, list=9%, signal=23%
RAS_PROTEIN_SIGNAL_TRANSDUCTION	53	0.34911552	1.3370845	0.09163987	0.21688807	1	3291	tags=38%, list=19%, signal=47%
POSITIVE_REGULATION_OF_CELLULAR_COMPONENT_ORGANIZATION_AND_BIOGENESIS	24	0.42380545	1.3393235	0.105442174	0.21726313	1	934	tags=21%, list=5%, signal=22%
POSITIVE_REGULATION_OF_PROTEIN_METABOLIC_PROCESS	39	0.37688032	1.3375567	0.10406504	0.21794379	1	4721	tags=51%, list=28%, signal=71%
ANATOMICAL_STRUCTURE_MORPHOGENESIS	220	0.27927625	1.3311613	0.025069637	0.22130246	1	2855	tags=25%, list=17%, signal=30%
TRANSMEMBRANE_RECEPTOR_PROTEIN_TYROSINE_KINASE_SIGNALING_PATHWAY	53	0.3500942	1.3291042	0.06666667	0.22210966	1	3834	tags=40%, list=22%, signal=51%
CYCLIC_NUCLEOTIDE_MEDIATED_SIGNALING	39	0.37221843	1.3163705	0.104166664	0.22242965	1	220	tags=10%, list=1%, signal=10%
PROTEIN_COMPLEX_ASSEMBLY	132	0.29802093	1.3164173	0.049079753	0.22393823	1	3054	tags=27%, list=18%, signal=32%
G_PROTEIN_SIGNALING__COUPLED_TO_CYCLIC_NUCLEOTIDE_SECOND_MESSENGER	37	0.3805172	1.3237778	0.094339624	0.22396675	1	220	tags=11%, list=1%, signal=11%
CHROMOSOME_ORGANIZATION_AND_BIOGENESIS	82	0.32548174	1.32126	0.072837636	0.22418691	1	4235	tags=40%, list=25%, signal=53%
DNA_CATABOLIC_PROCESS	20	0.44406846	1.3222748	0.14990513	0.22441363	1	2788	tags=50%, list=16%, signal=60%
REGULATION_OF_APOPTOSIS	231	0.27443102	1.3136036	0.022008253	0.22456618	1	3698	tags=29%, list=22%, signal=37%
DEFENSE_RESPONSE	125	0.30101287	1.3244786	0.052950077	0.22484323	1	4828	tags=41%, list=28%, signal=56%

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX	LEADING EDGE
NEGATIVE_REGULATION_OF_PROTEIN_METABOLIC_PROCESS	29	0.39972916	1.3181132	0.14234875	0.2249745	1	2597	tags=31%, list=15%, signal=37%
NEGATIVE_REGULATION_OF_CELLULAR_PROTEIN_METABOLIC_PROCESS	27	0.4049409	1.3166221	0.10726073	0.22525997	1	2327	tags=30%, list=14%, signal=34%
VESICLE_MEDIATED_TRANSPORT	132	0.29753378	1.3252516	0.04918033	0.22547896	1	2515	tags=25%, list=15%, signal=29%
REGULATION_OF_PROGRAMMED_CELL_DEATH	231	0.27443102	1.3115959	0.030898876	0.22551934	1	3698	tags=29%, list=22%, signal=37%
SYSTEM_PROCESS	258	0.27173904	1.3189579	0.029247912	0.22562383	1	1330	tags=14%, list=8%, signal=15%
POSITIVE_REGULATION_OF_CELLULAR_PROTEIN_METABOLIC_PROCESS	37	0.3750582	1.2981478	0.12374582	0.23928186	1	4721	tags=51%, list=28%, signal=71%
GENERATION_OF_NEURONS	48	0.3508432	1.2993959	0.11269841	0.23928843	1	3550	tags=33%, list=21%, signal=42%
NEGATIVE_REGULATION_OF_NUCLEOBASE__NUCLEOSIDE__NUCLEOTIDE_AND_NUCLEIC_ACID_METABOLIC_PROCESS	127	0.29029638	1.2968146	0.07007299	0.239536	1	3939	tags=35%, list=23%, signal=45%
SEXUAL_REPRODUCTION	56	0.33922753	1.3000222	0.10576923	0.23988287	1	4190	tags=45%, list=24%, signal=59%
INDUCTION_OF_APOPTOSIS_BY_INTRACELLULAR_SIGNALS	18	0.4437688	1.2928687	0.15563506	0.24346219	1	2324	tags=39%, list=14%, signal=45%
REGULATION_OF_BIOLOGICAL_QUALITY	266	0.26658964	1.2913121	0.0359116	0.24395138	1	1837	tags=17%, list=11%, signal=19%
ORGAN_DEVELOPMENT	315	0.2581459	1.287914	0.026845638	0.24738728	1	2871	tags=22%, list=17%, signal=26%
GAMETE_GENERATION	51	0.33963206	1.2783762	0.12987013	0.2595925	1	4190	tags=43%, list=24%, signal=57%
NUCLEOBASE__NUCLEOSIDE_AND_NUCLEOTIDE_METABOLIC_PROCESS	37	0.35823786	1.2735653	0.13513513	0.26136395	1	2648	tags=30%, list=15%, signal=35%
CELLULAR_PROTEIN_COMPLEX_ASSEMBLY	26	0.39346543	1.2755952	0.14795919	0.26182857	1	3811	tags=31%, list=22%, signal=40%
CELL_CELL_ADHESION	57	0.33020929	1.2736729	0.11980831	0.26293355	1	1668	tags=19%, list=10%, signal=21%
REPRODUCTION	117	0.2950917	1.2687302	0.094512194	0.26498273	1	4075	tags=33%, list=24%, signal=43%
REGULATION_OF_RESPONSE_TO_STIMULUS	28	0.38653392	1.2691779	0.1657754	0.2660001	1	4311	tags=43%, list=25%, signal=57%
NEGATIVE_REGULATION_OF_GROWTH	29	0.3766663	1.2647445	0.16578484	0.26962206	1	3035	tags=31%, list=18%, signal=38%
GROWTH	49	0.34015524	1.2632641	0.13973063	0.27052993	1	3649	tags=33%, list=21%, signal=41%
STEROID_METABOLIC_PROCESS	40	0.34910476	1.2511668	0.15423729	0.28259963	1	4021	tags=40%, list=24%, signal=52%
NEUROGENESIS	56	0.32547197	1.2485712	0.14455782	0.283166	1	4141	tags=34%, list=24%, signal=45%
EXTRACELLULAR_STRUCTURE_ORGANIZATION_AND_BIOGENESIS	16	0.4407479	1.251522	0.1637324	0.28371328	1	2581	tags=25%, list=15%, signal=29%
REGULATION_OF_METABOLIC_PROCESS	479	0.2418267	1.249256	0.037037037	0.28376392	1	3122	tags=24%, list=18%, signal=29%
REPRODUCTIVE_PROCESS	71	0.31149966	1.2466515	0.1276252	0.2845334	1	1868	tags=18%, list=11%, signal=20%
PROGRAMMED_CELL_DEATH	288	0.25395656	1.2454125	0.07133421	0.28467628	1	3698	tags=28%, list=22%, signal=35%
MEIOTIC_CELL_CYCLE	20	0.41999075	1.2518564	0.1970534	0.2849475	1	1474	tags=25%, list=9%, signal=27%
HOMEOSTASIS_OF_NUMBER_OF_CELLS	15	0.45380223	1.25251	0.18360071	0.28558868	1	3834	tags=53%, list=22%, signal=69%
MACROMOLECULAR_COMPLEX_ASSEMBLY	199	0.26394895	1.2395297	0.089871615	0.28702733	1	3091	tags=24%, list=18%, signal=29%
APOPTOTIC_PROGRAM	44	0.3429158	1.2400982	0.16808149	0.28780442	1	1706	tags=25%, list=10%, signal=28%
NEUROLOGICAL_SYSTEM_PROCESS	147	0.27311078	1.2374959	0.115384616	0.288858	1	1330	tags=15%, list=8%, signal=16%
APOPTOSIS_GO	288	0.25395656	1.2404203	0.053547524	0.28895473	1	3698	tags=28%, list=22%, signal=35%
REGULATION_OF_CELLULAR_METABOLIC_PROCESS	471	0.24113227	1.2405581	0.031605564	0.29050234	1	3122	tags=24%, list=18%, signal=29%
NEGATIVE_REGULATION_OF_CELL_CYCLE	54	0.31889915	1.2311699	0.14845024	0.29550716	1	1816	tags=20%, list=11%, signal=23%
REGULATION_OF_T_CELL_ACTIVATION	15	0.43644834	1.2313849	0.19823009	0.29690373	1	4141	tags=40%, list=24%, signal=53%
REGULATION_OF_PHOSPHORYLATION	24	0.38789898	1.2257476	0.19251336	0.29855672	1	1507	tags=25%, list=9%, signal=27%
INTRACELLULAR_SIGNALING_CASCADE	410	0.24056518	1.2263536	0.052069426	0.2994107	1	3836	tags=30%, list=22%, signal=37%
REGULATION_OF_GROWTH	41	0.34383535	1.2271211	0.16920474	0.29981467	1	4545	tags=39%, list=27%, signal=53%
INDUCTION_OF_APOPTOSIS_BY_EXTRACELLULAR_SIGNALS	18	0.40961334	1.2166446	0.19824561	0.31200284	1	3698	tags=44%, list=22%, signal=57%
POSITIVE_REGULATION_OF_IMMUNE_SYSTEM_PROCESS	25	0.37925848	1.2108452	0.21034482	0.3197297	1	4311	tags=40%, list=25%, signal=53%
REGULATION_OF_ANATOMICAL_STRUCTURE_MORPHOGENESIS	23	0.37871474	1.1985166	0.20987654	0.33893752	1	4141	tags=43%, list=24%, signal=57%
EXOCYTOSIS	16	0.4230519	1.1963888	0.23285198	0.34111622	1	2155	tags=31%, list=13%, signal=36%
REGULATION_OF_GENE_EXPRESSION	395	0.23493488	1.1937643	0.078125	0.34386492	1	3158	tags=25%, list=18%, signal=29%
CELLULAR_COMPONENT_DISASSEMBLY	28	0.3590137	1.1902817	0.21265379	0.34800166	1	4280	tags=57%, list=25%, signal=76%
POSITIVE_REGULATION_OF_CELLULAR_METABOLIC_PROCESS	132	0.26335162	1.1825771	0.16571428	0.36078185	1	4240	tags=36%, list=25%, signal=48%
PROTEIN_KINASE_CASCADE	197	0.25085202	1.1700414	0.14847161	0.38316375	1	3911	tags=30%, list=23%, signal=39%
NEGATIVE_REGULATION_OF_CELL_DIFFERENTIATION	15	0.41251677	1.1660942	0.26422018	0.3883376	1	1507	tags=27%, list=9%, signal=29%
CELLULAR_COMPONENT_ASSEMBLY	209	0.24710466	1.1648371	0.15208034	0.38859263	1	3091	tags=23%, list=18%, signal=28%
PROTEIN_HOMOOLIGOMERIZATION	16	0.40612894	1.1588279	0.28725314	0.3981903	1	1513	tags=31%, list=9%, signal=34%
TRANSCRIPTION	470	0.2233928	1.1562395	0.10163112	0.40144816	1	3610	tags=27%, list=21%, signal=33%
NEURON_DIFFERENTIATION	43	0.318482	1.1508938	0.25553662	0.41019422	1	4141	tags=37%, list=24%, signal=49%
SECRETION_BY_CELL	69	0.2891434	1.1483163	0.22294022	0.41345182	1	2502	tags=23%, list=15%, signal=27%
T_CELL_ACTIVATION	18	0.38837385	1.145106	0.28702012	0.41782632	1	4141	tags=33%, list=24%, signal=44%
SECOND_MESSENGER_MEDIATED_SIGNALING	63	0.29371107	1.1438739	0.24525316	0.41802174	1	1737	tags=16%, list=10%, signal=18%
NUCLEAR_ORGANIZATION_AND_BIOGENESIS	21	0.37590536	1.1398431	0.28695652	0.41993624	1	3217	tags=43%, list=19%, signal=53%
REGULATION_OF_INTRACELLULAR_TRANSPORT	19	0.37066066	1.1404003	0.26199263	0.42104766	1	5348	tags=47%, list=31%, signal=69%
REGULATION_OF_NUCLEOBASE__NUCLEOSIDE__NUCLEOTIDE_AND_NUCLEIC_ACID_METABOLIC_PROCESS	378	0.22580199	1.1412205	0.13589744	0.42138657	1	4075	tags=30%, list=24%, signal=39%
NEGATIVE_REGULATION_OF_TRANSFERASE_ACTIVITY	29	0.33949912	1.1363239	0.2725724	0.42477056	1	4141	tags=38%, list=24%, signal=50%
DNA_RECOMBINATION	34	0.32897663	1.133965	0.3028286	0.42740476	1	2524	tags=24%, list=15%, signal=28%
NEGATIVE_REGULATION_OF_DEVELOPMENTAL_PROCESS	131	0.25548926	1.132853	0.23372781	0.42774022	1	3649	tags=31%, list=21%, signal=39%
REGULATION_OF_CELLULAR_COMPONENT_ORGANIZATION_AND_BIOGENESIS	83	0.27283376	1.1261986	0.24458204	0.43950328	1	4302	tags=35%, list=25%, signal=46%
POSITIVE_REGULATION_OF_METABOLIC_PROCESS	136	0.25009972	1.119419	0.23882681	0.4517219	1	4776	tags=40%, list=28%, signal=56%
DNA_DEPENDENT_DNA_REPLICATION	36	0.3170223	1.1169677	0.30212015	0.45227128	1	5031	tags=42%, list=29%, signal=59%
REGULATION_OF_BINDING	38	0.3184753	1.1175039	0.2939189	0.4533995	1	2921	tags=26%, list=17%, signal=32%
ION_HOMEOSTASIS	70	0.27759707	1.1148206	0.28718704	0.45458025	1	1934	tags=20%, list=11%, signal=22%
RESPONSE_TO_STRESS	341	0.2243617	1.1121448	0.19451697	0.45544407	1	2584	tags=21%, list=15%, signal=24%
SMALL_GTPASE_MEDIATED_SIGNAL_TRANSDUCTION	67	0.28000376	1.1106175	0.281493	0.45666915	1	3291	tags=34%, list=19%, signal=42%
AMINE_TRANSPORT	26	0.34054235	1.1122195	0.30647987	0.45748672	1	1226	tags=19%, list=7%, signal=21%
RESPONSE_TO_EXTERNAL_STIMULUS	176	0.24047889	1.1060761	0.24472573	0.46218285	1	3459	tags=27%, list=20%, signal=33%
ELECTRON_TRANSPORT_GO_0006118	35	0.3177457	1.10286	0.29915968	0.46253875	1	791	tags=11%, list=5%, signal=12%

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NEGATIVE_REGULATION_OF_TRANSCRIPTION	112	0.2572879	1.103804	0.26876876	0.46273324	1	3786	tags=31%, list=22%, signal=40%
CELLULAR_BIOSYNTHETIC_PROCESS	211	0.23271984	1.1043407	0.2496474	0.46369442	1	4805	tags=33%, list=28%, signal=46%
REGULATION_OF_NUCLEOCYTOPLASMIC_TRANSPORT	17	0.3818604	1.1063901	0.335206	0.46370593	1	4393	tags=41%, list=26%, signal=55%
PROTEOLYSIS	131	0.24505913	1.1008648	0.26810476	0.46450832	1	3278	tags=27%, list=19%, signal=34%
COENZYME_METABOLIC_PROCESS	29	0.32817465	1.09579	0.34707904	0.47322267	1	1618	tags=21%, list=9%, signal=23%
MACROMOLECULE_CATABOLIC_PROCESS	106	0.25357625	1.0920306	0.28683385	0.47690296	1	1558	tags=17%, list=9%, signal=19%
MACROMOLECULE_BIOSYNTHETIC_PROCESS	203	0.23295769	1.0929934	0.27453768	0.47707033	1	4985	tags=35%, list=29%, signal=49%
RESPONSE_TO_HORMONE_STIMULUS	23	0.34436467	1.0865681	0.33686066	0.48668364	1	536	tags=9%, list=3%, signal=9%
ION_TRANSPORT	109	0.24908283	1.0809293	0.27051672	0.4964829	1	1022	tags=13%, list=6%, signal=14%
POSITIVE_REGULATION_OF_TRANSFERASE_ACTIVITY	51	0.28726247	1.0796573	0.32850242	0.49683702	1	1317	tags=16%, list=8%, signal=17%
NEURON_DEVELOPMENT	36	0.30890602	1.0741527	0.3484087	0.50673354	1	4141	tags=36%, list=24%, signal=48%
TRANSCRIPTION_FROM_RNA_POLYMERASE_II_PROMOTER	283	0.21941936	1.0708308	0.30027175	0.5122524	1	3939	tags=28%, list=23%, signal=36%
CELLULAR_HOMEOSTASIS	84	0.25508994	1.0638537	0.3448276	0.5259419	1	1934	tags=18%, list=11%, signal=20%
CHROMATIN_ASSEMBLY_OR_DISASSEMBLY	22	0.34461015	1.0624473	0.40106007	0.5267612	1	4742	tags=45%, list=28%, signal=63%
BIOPOLYMER_CATABOLIC_PROCESS	93	0.25237313	1.0570623	0.34706813	0.5369704	1	1558	tags=17%, list=9%, signal=19%
HOMEOSTATIC_PROCESS	125	0.238327	1.0516346	0.3761194	0.53982186	1	1934	tags=18%, list=11%, signal=20%
INSULIN_RECEPTOR_SIGNALING_PATHWAY	16	0.3673383	1.0533209	0.38501742	0.54070175	1	5682	tags=50%, list=33%, signal=75%
JAK_STAT_CASCADE	18	0.3594279	1.0521133	0.38817006	0.5411714	1	2269	tags=28%, list=13%, signal=32%
REGULATION_OF_TRANSCRIPTION	342	0.20939437	1.0499955	0.33106267	0.54139835	1	4075	tags=30%, list=24%, signal=38%
PHOSPHORYLATION	213	0.22252935	1.0538967	0.33053222	0.54175115	1	3212	tags=23%, list=19%, signal=27%
PROTEIN_AMINO_ACID_PHOSPHORYLATION	190	0.2213292	1.043933	0.33764368	0.5531859	1	3212	tags=22%, list=19%, signal=27%
CELLULAR_MORPHOGENESIS_DURING_DIFFERENTIATION	29	0.3090519	1.040207	0.386172	0.5572147	1	4518	tags=41%, list=26%, signal=56%
RNA_BIOSYNTHETIC_PROCESS	394	0.2058486	1.0410618	0.3626943	0.5576313	1	4075	tags=29%, list=24%, signal=37%
TRANSCRIPTION__DNA_DEPENDENT	392	0.20442489	1.0340128	0.3620915	0.5691535	1	4075	tags=29%, list=24%, signal=37%
PATTERN_SPECIFICATION_PROCESS	18	0.3485061	1.032039	0.4219858	0.5713043	1	1988	tags=28%, list=12%, signal=31%
STRESS_ACTIVATED_PROTEIN_KINASE_SIGNALING_PATHWAY	32	0.29892418	1.0251884	0.41798943	0.5826944	1	2254	tags=22%, list=13%, signal=25%
REGULATION_OF_MAP_KINASE_ACTIVITY	47	0.28037044	1.0257479	0.4117647	0.58367914	1	3911	tags=34%, list=23%, signal=44%
ANTI_APOPTOSIS	84	0.24593669	1.0198554	0.427907	0.5878818	1	1695	tags=17%, list=10%, signal=18%
NEGATIVE_REGULATION_OF_CATALYTIC_ACTIVITY	45	0.28318727	1.0218858	0.40946168	0.58817244	1	4141	tags=33%, list=24%, signal=44%
RESPONSE_TO_VIRUS	26	0.3161144	1.0187386	0.43130434	0.5882353	1	782	tags=19%, list=5%, signal=20%
NEGATIVE_REGULATION_OF_APOPTOSIS	105	0.2353334	1.0199683	0.41568047	0.59009933	1	2946	tags=25%, list=17%, signal=30%
RESPONSE_TO_EXTRACELLULAR_STIMULUS	23	0.32178265	1.0150486	0.42881647	0.59437746	1	3881	tags=39%, list=23%, signal=51%
POST_TRANSLATIONAL_PROTEIN_MODIFICATION	326	0.20303856	1.0058593	0.45833334	0.60797894	1	3212	tags=21%, list=19%, signal=25%
HEMOSTASIS	30	0.30308884	1.0069392	0.4395973	0.60823804	1	2395	tags=23%, list=14%, signal=27%
NEGATIVE_REGULATION_OF_PROGRAMMED_CELL_DEATH	105	0.2353334	1.0034268	0.4476923	0.60890085	1	2946	tags=25%, list=17%, signal=30%
SENSORY_PERCEPTION	76	0.24683309	1.0074441	0.43917853	0.60958076	1	4094	tags=33%, list=24%, signal=43%
POSITIVE_REGULATION_OF_MAP_KINASE_ACTIVITY	29	0.30010796	1.0016505	0.4626594	0.6106511	1	4929	tags=45%, list=29%, signal=63%
RESPONSE_TO_WOUNDING	110	0.23197128	1.0034915	0.4350365	0.6111923	1	2581	tags=20%, list=15%, signal=23%
POSITIVE_REGULATION_OF_NUCLEOBASE__NUCLEOSIDE__NUCLEOTIDE_AND_NUCLEIC_ACID_METABOLIC_PROCESS	98	0.2350853	0.98991334	0.4893617	0.62527996	1	3974	tags=33%, list=23%, signal=42%
POSITIVE_REGULATION_OF_TRANSCRIPTION	92	0.23599032	0.9916561	0.4975923	0.6260468	1	3974	tags=33%, list=23%, signal=42%
ANION_TRANSPORT	22	0.31810006	0.99230915	0.48630136	0.62718004	1	858	tags=18%, list=5%, signal=19%
ALCOHOL_METABOLIC_PROCESS	56	0.26020423	0.98999304	0.46566164	0.6275721	1	1190	tags=13%, list=7%, signal=13%
REGULATION_OF_DNA_BINDING	30	0.29045254	0.99291086	0.46206897	0.62832576	1	2921	tags=27%, list=17%, signal=32%
MITOCHONDRION_ORGANIZATION_AND_BIOGENESIS	41	0.27539015	0.98500013	0.46885246	0.63162136	1	1513	tags=17%, list=9%, signal=19%
CATION_HOMEOSTASIS	59	0.25282302	0.985442	0.47936508	0.63307756	1	1934	tags=17%, list=11%, signal=19%
RNA_CATABOLIC_PROCESS	18	0.33042443	0.9817153	0.47186932	0.63715214	1	1558	tags=17%, list=9%, signal=18%
SPHINGOLIPID_METABOLIC_PROCESS	18	0.3294131	0.9725079	0.50084317	0.6559327	1	3969	tags=28%, list=23%, signal=36%
CELLULAR_LOCALIZATION	262	0.20109414	0.9699952	0.53739613	0.6593563	1	2327	tags=17%, list=14%, signal=19%
ESTABLISHMENT_OF_CELLULAR_LOCALIZATION	252	0.19918771	0.9636028	0.5542857	0.66144836	1	2502	tags=17%, list=15%, signal=20%
BIOPOLYMER_MODIFICATION	445	0.18771793	0.96228313	0.586514	0.66189855	1	3249	tags=21%, list=19%, signal=25%
NEURITE_DEVELOPMENT	31	0.28718105	0.96536356	0.50166667	0.66264504	1	4518	tags=39%, list=26%, signal=53%
RNA_PROCESSING	126	0.21720316	0.9673258	0.52444446	0.66312903	1	2888	tags=21%, list=17%, signal=25%
REGULATION_OF_CELL_GROWTH	31	0.28059062	0.9636599	0.4973913	0.6638339	1	4545	tags=35%, list=27%, signal=48%
LIPID_METABOLIC_PROCESS	202	0.20386039	0.9659186	0.5386703	0.6638497	1	2468	tags=17%, list=14%, signal=20%
SECRETORY_PATHWAY	57	0.25123677	0.95977926	0.53170735	0.66508186	1	2502	tags=21%, list=15%, signal=25%
IMMUNE_EFFECTOR_PROCESS	16	0.33323458	0.9567539	0.5323741	0.6696901	1	4311	tags=50%, list=25%, signal=67%
CALCIUM_INDEPENDENT_CELL_CELL_ADHESION	17	0.32707298	0.95489687	0.51878357	0.67159915	1	1337	tags=18%, list=8%, signal=19%
RESPONSE_TO_OXIDATIVE_STRESS	37	0.27556425	0.95115507	0.537931	0.6727571	1	1421	tags=16%, list=8%, signal=18%
CARBOHYDRATE_CATABOLIC_PROCESS	16	0.33228776	0.9524653	0.5144404	0.6747479	1	750	tags=19%, list=4%, signal=20%
PROTEIN_MODIFICATION_PROCESS	432	0.18607657	0.9512505	0.6106195	0.6750619	1	3249	tags=20%, list=19%, signal=25%
RESPONSE_TO_DRUG	16	0.3331892	0.9489324	0.49910873	0.67530465	1	2507	tags=31%, list=15%, signal=37%
CELLULAR_CARBOHYDRATE_CATABOLIC_PROCESS	16	0.33228776	0.9475919	0.54234236	0.6758151	1	750	tags=19%, list=4%, signal=20%
BIOSYNTHETIC_PROCESS	301	0.1898201	0.9422465	0.61229944	0.6825078	1	1999	tags=13%, list=12%, signal=15%
POSITIVE_REGULATION_OF_TRANSCRIPTION__DNA_DEPENDENT	72	0.23418713	0.9423243	0.5648734	0.6848448	1	3093	tags=28%, list=18%, signal=34%
PROTEIN_DNA_COMPLEX_ASSEMBLY	32	0.27322456	0.93991816	0.5451264	0.68555063	1	2150	tags=22%, list=13%, signal=25%
POSITIVE_REGULATION_OF_RNA_METABOLIC_PROCESS	72	0.23418713	0.9377343	0.58084774	0.68806154	1	3093	tags=28%, list=18%, signal=34%
GLYCOPROTEIN_BIOSYNTHETIC_PROCESS	45	0.25321504	0.93435353	0.5631229	0.6932935	1	1048	tags=13%, list=6%, signal=14%
MAPKKK_CASCADE_GO_0000165	70	0.23525344	0.93087476	0.5910596	0.69592726	1	3094	tags=24%, list=18%, signal=30%
REGULATION_OF_TRANSCRIPTION__DNA_DEPENDENT	272	0.19081932	0.9308792	0.65176153	0.6984135	1	4075	tags=29%, list=24%, signal=38%
REGULATION_OF_RNA_METABOLIC_PROCESS	278	0.19117355	0.928294	0.6570248	0.6989967	1	4075	tags=29%, list=24%, signal=37%

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX	LEADING EDGE
CENTRAL_NERVOUS_SYSTEM_DEVELOPMENT	61	0.23464675	0.9250179	0.565	0.70129824	1	1938	tags=13%, list=11%, signal=15%
PROTEIN_OLIGOMERIZATION	28	0.28067914	0.9257027	0.5423729	0.7022511	1	2855	tags=25%, list=17%, signal=30%
PROTEIN_AMINO_ACID_N_LINKED_GLYCOSYLATION	18	0.31155208	0.92191255	0.5516014	0.70591825	1	6009	tags=56%, list=35%, signal=86%
CELLULAR_CATION_HOMEOSTASIS	57	0.2379891	0.91839	0.6043046	0.7065172	1	1934	tags=16%, list=11%, signal=18%
AXONOGENESIS	26	0.29211786	0.9192875	0.5942761	0.7069932	1	4518	tags=38%, list=26%, signal=52%
RESPONSE_TO_OTHER_ORGANISM	33	0.27118066	0.9198262	0.59075344	0.7082175	1	4240	tags=39%, list=25%, signal=52%
GLYCOPROTEIN_METABOLIC_PROCESS	59	0.2371319	0.913738	0.5974643	0.7141244	1	1048	tags=12%, list=6%, signal=13%
NEGATIVE_REGULATION_OF_TRANSCRIPTION__DNA_DEPENDENT	75	0.22286692	0.9118606	0.63029313	0.7157375	1	4513	tags=37%, list=26%, signal=50%
NEGATIVE_REGULATION_OF_TRANSCRIPTION_FROM_RNA_POLYMERASE_II_PROMOTER	46	0.24220476	0.9087934	0.6182432	0.7200162	1	3939	tags=33%, list=23%, signal=42%
MEMBRANE_FUSION	19	0.30412823	0.9042874	0.6018018	0.72695935	1	5076	tags=47%, list=30%, signal=67%
NEGATIVE_REGULATION_OF_SIGNAL_TRANSDUCTION	22	0.28823155	0.89636403	0.61936563	0.73617977	1	4141	tags=32%, list=24%, signal=42%
MONOVALENT_INORGANIC_CATION_TRANSPORT	50	0.24161816	0.89857286	0.6311337	0.73638994	1	1401	tags=12%, list=8%, signal=13%
MITOCHONDRIAL_TRANSPORT	18	0.30412236	0.89646715	0.60314685	0.7384371	1	2112	tags=28%, list=12%, signal=32%
POSITIVE_REGULATION_OF_RESPONSE_TO_STIMULUS	19	0.2995871	0.89188015	0.6115108	0.7408096	1	4877	tags=42%, list=29%, signal=59%
POSITIVE_REGULATION_OF_LYMPHOCYTE_ACTIVATION	15	0.31573966	0.8926447	0.60784316	0.7417042	1	4141	tags=33%, list=24%, signal=44%
JNK_CASCADE	30	0.26784477	0.8886766	0.64444447	0.74493563	1	2254	tags=20%, list=13%, signal=23%
REGULATION_OF_TRANSCRIPTION_FROM_RNA_POLYMERASE_II_PROMOTER	170	0.19280544	0.8850857	0.70714283	0.74988806	1	3939	tags=28%, list=23%, signal=36%
ESTABLISHMENT_AND_OR_MAINTENANCE_OF_CHROMATIN_ARCHITECTURE	55	0.22950993	0.8833041	0.6710744	0.75116706	1	4235	tags=35%, list=25%, signal=46%
NITROGEN_COMPOUND_BIOSYNTHETIC_PROCESS	16	0.30940866	0.87793356	0.61413044	0.75742435	1	3834	tags=38%, list=22%, signal=48%
NEGATIVE_REGULATION_OF_RNA_METABOLIC_PROCESS	76	0.21353151	0.8781525	0.6983871	0.7594714	1	4513	tags=37%, list=26%, signal=50%
CARBOHYDRATE_BIOSYNTHETIC_PROCESS	32	0.25748813	0.8724714	0.64597315	0.7658736	1	1979	tags=22%, list=12%, signal=25%
PROTEIN_LOCALIZATION	149	0.1906255	0.85792077	0.7714286	0.78936267	1	4460	tags=28%, list=26%, signal=38%
INFLAMMATORY_RESPONSE	70	0.21307367	0.8580342	0.71428573	0.79176193	1	2515	tags=17%, list=15%, signal=20%
REGULATION_OF_TRANSCRIPTION_FACTOR_ACTIVITY	23	0.27286676	0.85266846	0.6806723	0.7967828	1	2921	tags=30%, list=17%, signal=37%
RNA_SPLICING__VIA_TRANSESTERIFICATION_REACTIONS	28	0.25799954	0.8485027	0.68926555	0.80225956	1	3091	tags=25%, list=18%, signal=30%
CELL_SUBSTRATE_ADHESION	27	0.2548816	0.83397657	0.6896552	0.8267047	1	1143	tags=11%, list=7%, signal=12%
RESPONSE_TO_NUTRIENT_LEVELS	20	0.27498952	0.8290072	0.7121771	0.8329005	1	3078	tags=30%, list=18%, signal=37%
SPLICEOSOME_ASSEMBLY	18	0.28320342	0.8213451	0.6978417	0.8435777	1	3091	tags=28%, list=18%, signal=34%
BRAIN_DEVELOPMENT	24	0.24678569	0.7827325	0.78546715	0.8891864	1	1938	tags=17%, list=11%, signal=19%
POSITIVE_REGULATION_OF_PROTEIN_MODIFICATION_PROCESS	15	0.28098294	0.7831145	0.7594502	0.8915533	1	18	tags=7%, list=0%, signal=7%
MACROMOLECULE_LOCALIZATION	164	0.17098817	0.78430563	0.9239766	0.8927965	1	4460	tags=27%, list=26%, signal=37%
RIBONUCLEOPROTEIN_COMPLEX_BIOGENESIS_AND_ASSEMBLY	51	0.21281344	0.78620714	0.8181818	0.89299953	1	6801	tags=47%, list=40%, signal=78%
CATION_TRANSPORT	85	0.19277366	0.7872924	0.84227127	0.8944464	1	1022	tags=9%, list=6%, signal=10%
HEART_DEVELOPMENT	19	0.25724968	0.7691037	0.7723293	0.9045226	1	4023	tags=37%, list=24%, signal=48%
PROTEIN_UBIQUITINATION	27	0.23223567	0.75797546	0.8321678	0.9102664	1	5490	tags=44%, list=32%, signal=65%
CELLULAR_LIPID_METABOLIC_PROCESS	157	0.16834179	0.7618242	0.94336814	0.9110649	1	3097	tags=20%, list=18%, signal=24%
GOLGI_VESICLE_TRANSPORT	37	0.21603718	0.7541366	0.8301226	0.9119289	1	2502	tags=19%, list=15%, signal=22%
PEPTIDYL_TYROSINE_MODIFICATION	16	0.26444274	0.7589225	0.8010753	0.91196704	1	1211	tags=13%, list=7%, signal=13%
ESTABLISHMENT_OF_PROTEIN_LOCALIZATION	135	0.16495033	0.7369299	0.9626308	0.9225808	1	4443	tags=27%, list=26%, signal=36%
PROTEIN_RNA_COMPLEX_ASSEMBLY	38	0.2108605	0.74087137	0.84253246	0.92410123	1	3091	tags=18%, list=18%, signal=22%
RNA_SPLICING	72	0.18403916	0.7371044	0.9131833	0.9252744	1	3091	tags=22%, list=18%, signal=27%
ACTIVATION_OF_MAPK_ACTIVITY	24	0.23029926	0.7180696	0.8596187	0.9294174	1	5336	tags=42%, list=31%, signal=60%
PROTEIN_MODIFICATION_BY_SMALL_PROTEIN_CONJUGATION	29	0.21493037	0.72562355	0.8619469	0.93095994	1	5490	tags=41%, list=32%, signal=61%
CELLULAR_DEFENSE_RESPONSE	19	0.24397387	0.719211	0.8309859	0.9312612	1	4828	tags=47%, list=28%, signal=66%
PEPTIDYL_AMINO_ACID_MODIFICATION	38	0.20341368	0.7209478	0.8807947	0.9325163	1	1466	tags=11%, list=9%, signal=11%
SULFUR_METABOLIC_PROCESS	26	0.20724677	0.65106505	0.9303136	0.9744297	1	1624	tags=15%, list=9%, signal=17%
LIPID_TRANSPORT	23	0.1984663	0.6302895	0.95149255	0.9818421	1	4687	tags=30%, list=27%, signal=42%
POSITIVE_REGULATION_OF_DNA_BINDING	16	0.21597365	0.6214344	0.93072826	0.9825464	1	3650	tags=31%, list=21%, signal=40%
TRANSLATIONAL_INITIATION	16	0.21021487	0.6001985	0.95335823	0.9845189	1	529	tags=6%, list=3%, signal=6%
VIRAL_REPRODUCTIVE_PROCESS	25	0.18056376	0.5822692	0.9685864	0.9868704	1	1783	tags=12%, list=10%, signal=13%
POSITIVE_REGULATION_OF_BINDING	17	0.20682581	0.60041344	0.9465241	0.98740804	1	3650	tags=29%, list=21%, signal=37%
VIRAL_REPRODUCTION	27	0.17175186	0.55719554	0.98163605	0.9896786	1	1783	tags=11%, list=10%, signal=12%
PROTEIN_IMPORT	48	0.14009623	0.52332693	0.9950658	0.99259126	1	1004	tags=6%, list=6%, signal=7%

Appendix I (b6)

Gene Ontology Analysis (GSEA): Downregulated pathways in Fh1-/- Hif-1a-/- vs Fh1-/- kidneys.

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX	LEADING EDGE
RESPONSE_TO_HYPOXIA	23	-0.64771354	-2.146221	0	0.004718156	0.007	732	tags=35%, list=4%, signal=36%
AMINO_ACID_METABOLIC_PROCESS	61	-0.38153237	-1.5871252	0.016393442	0.290356	0.949	2893	tags=41%, list=17%, signal=49%
NITROGEN_COMPOUND_CATABOLIC_PROCESS	23	-0.5005585	-1.6270356	0.004914005	0.30301598	0.89	4902	tags=57%, list=29%, signal=79%
NUCLEAR_EXPORT	25	-0.47543845	-1.5986718	0.01923077	0.31059954	0.937	2555	tags=40%, list=15%, signal=47%
AMINE_CATABOLIC_PROCESS	21	-0.48730657	-1.5528784	0.026442308	0.3201244	0.977	3928	tags=48%, list=23%, signal=62%
AMINO_ACID_CATABOLIC_PROCESS	20	-0.5143557	-1.6274852	0.009090909	0.3769107	0.889	3928	tags=50%, list=23%, signal=65%
AMINO_ACID_AND_DERIVATIVE_METABOLIC_PROCESS	76	-0.38677922	-1.691667	0	0.43889672	0.719	3468	tags=43%, list=20%, signal=54%
CELLULAR_RESPIRATION	16	-0.5471296	-1.6367947	0.004662005	0.46454248	0.871	5103	tags=69%, list=30%, signal=98%
COAGULATION	27	-0.37479198	-1.2711371	0.14416476	0.514168	1	1443	tags=26%, list=8%, signal=28%
RNA_EXPORT_FROM_NUCLEUS	16	-0.42501768	-1.2776237	0.14553991	0.51537687	1	2555	tags=38%, list=15%, signal=44%
GLUCOSE_METABOLIC_PROCESS	18	-0.40394434	-1.2542143	0.1750547	0.5264166	1	3217	tags=44%, list=19%, signal=55%
PHOSPHOLIPID_BIOSYNTHETIC_PROCESS	26	-0.35558602	-1.2421206	0.18309858	0.526751	1	3246	tags=38%, list=19%, signal=47%
SKELETAL_MUSCLE_DEVELOPMENT	19	-0.4110181	-1.2802527	0.1615925	0.52884585	1	825	tags=21%, list=5%, signal=22%
NITROGEN_COMPOUND_METABOLIC_PROCESS	110	-0.2862322	-1.3263627	0.055555556	0.5333603	1	2893	tags=31%, list=17%, signal=37%
PHOSPHOINOSITIDE_METABOLIC_PROCESS	22	-0.38837057	-1.2573774	0.17511521	0.535666	1	3029	tags=41%, list=18%, signal=50%
TRANSCRIPTION_FROM_RNA_POLYMERASE_III_PROMOTER	15	-0.44726104	-1.2922412	0.18779343	0.5363083	1	1238	tags=27%, list=7%, signal=29%
ONE_CARBON_COMPOUND_METABOLIC_PROCESS	19	-0.4140967	-1.3001319	0.13488372	0.53680384	1	3050	tags=42%, list=18%, signal=51%
CHROMATIN_REMODELING	15	-0.4349501	-1.2842453	0.17464115	0.5383765	1	3527	tags=40%, list=21%, signal=50%
LIPOPROTEIN_METABOLIC_PROCESS	22	-0.38981164	-1.2432826	0.19902913	0.54029876	1	4544	tags=50%, list=27%, signal=68%
BLOOD_COAGULATION	27	-0.37479198	-1.3015	0.12619048	0.55728316	1	1443	tags=26%, list=8%, signal=28%
CARBOXYLIC_ACID_TRANSPORT	31	-0.37206364	-1.3274868	0.07692308	0.5580493	1	1582	tags=26%, list=9%, signal=28%
LIPOPROTEIN_BIOSYNTHETIC_PROCESS	18	-0.3800016	-1.182123	0.24213076	0.55926603	1	4544	tags=56%, list=27%, signal=76%
VASCULATURE_DEVELOPMENT	34	-0.33386594	-1.2194616	0.17574258	0.5603398	1	2750	tags=29%, list=16%, signal=35%
AMINO_ACID_TRANSPORT	21	-0.3804928	-1.2122656	0.2	0.56320685	1	1582	tags=29%, list=9%, signal=31%
PHOSPHOINOSITIDE_BIOSYNTHETIC_PROCESS	17	-0.4311001	-1.3342819	0.15261959	0.5663043	1	3029	tags=41%, list=18%, signal=50%
AMINO_ACID_DERIVATIVE_METABOLIC_PROCESS	15	-0.444322	-1.3067864	0.16129032	0.5671853	1	3468	tags=40%, list=20%, signal=50%
ORGANIC_ACID_TRANSPORT	32	-0.36835352	-1.3434421	0.089330025	0.56986403	1	1582	tags=25%, list=9%, signal=27%
CELLULAR_CARBOHYDRATE_METABOLIC_PROCESS	83	-0.2769397	-1.2218468	0.1530343	0.5700985	1	2416	tags=25%, list=14%, signal=29%
RECEPTOR_MEDIATED_ENDOCYTOSIS	22	-0.3634061	-1.1825566	0.225	0.5719559	1	431	tags=18%, list=3%, signal=19%
WOUND_HEALING	34	-0.32855085	-1.2029928	0.17840375	0.57405496	1	1443	tags=21%, list=8%, signal=22%
REGULATION_OF_BODY_FLUID_LEVELS	35	-0.31489828	-1.167431	0.23908046	0.5749339	1	1475	tags=26%, list=9%, signal=28%
PHOSPHOINOSITIDE_MEDIATED_SIGNALING	22	-0.4082872	-1.3516212	0.1076555	0.57766426	1	322	tags=18%, list=2%, signal=19%
MEMBRANE_LIPID_BIOSYNTHETIC_PROCESS	29	-0.31731033	-1.1310588	0.2731377	0.57844067	1	3246	tags=34%, list=19%, signal=42%
NUCLEOBASE__NUCLEOSIDE__NUCLEOTIDE_AND_NUCLEIC_ACID_TRANSPORT	21	-0.35743016	-1.1610057	0.24663678	0.58044416	1	2555	tags=33%, list=15%, signal=39%
ANATOMICAL_STRUCTURE_FORMATION	34	-0.30679253	-1.1337852	0.25	0.58215	1	2750	tags=29%, list=16%, signal=35%
COFACTOR_BIOSYNTHETIC_PROCESS	19	-0.37846583	-1.169398	0.25111112	0.583293	1	4214	tags=42%, list=25%, signal=56%
GLYCEROPHOSPHOLIPID_METABOLIC_PROCESS	33	-0.3223528	-1.1836159	0.19002375	0.58360255	1	3246	tags=36%, list=19%, signal=45%
RESPONSE_TO_BIOTIC_STIMULUS	53	-0.27629673	-1.1342593	0.2236842	0.5925238	1	1541	tags=21%, list=9%, signal=23%
CELLULAR_CATABOLIC_PROCESS	161	-0.22116832	-1.1059831	0.21752267	0.59491557	1	2446	tags=20%, list=14%, signal=24%
GENERATION_OF_PRECURSOR_METABOLITES_AND_ENERGY	89	-0.24494363	-1.120885	0.20789474	0.59606886	1	4771	tags=43%, list=28%, signal=59%
TRANSCRIPTION_INITIATION	20	-0.36247045	-1.184598	0.225058	0.59613186	1	3217	tags=35%, list=19%, signal=43%
CATABOLIC_PROCESS	169	-0.22237769	-1.1087853	0.21766561	0.59731925	1	2446	tags=20%, list=14%, signal=23%
NUCLEAR_TRANSPORT	68	-0.25513065	-1.0864451	0.30113637	0.59856766	1	2555	tags=22%, list=15%, signal=26%
GLYCEROPHOSPHOLIPID_BIOSYNTHETIC_PROCESS	22	-0.34259322	-1.1363869	0.2662037	0.59910375	1	3246	tags=36%, list=19%, signal=45%
ANGIOGENESIS	29	-0.31589705	-1.1151133	0.29767442	0.60091347	1	2750	tags=28%, list=16%, signal=33%
CARBOHYDRATE_METABOLIC_PROCESS	112	-0.23574606	-1.1110054	0.23676012	0.60207295	1	4891	tags=43%, list=29%, signal=60%
PROTEIN_CATABOLIC_PROCESS	53	-0.27506158	-1.0993891	0.2936709	0.6027747	1	1317	tags=17%, list=8%, signal=18%
PROTEIN_FOLDING	46	-0.2743745	-1.0879538	0.3114754	0.6041223	1	1261	tags=15%, list=7%, signal=16%
RESPONSE_TO_ORGANIC_SUBSTANCE	22	-0.3357447	-1.0905184	0.3248848	0.6070657	1	1035	tags=14%, list=6%, signal=14%
PROTEIN_AMINO_ACID_LIPIDATION	16	-0.3760552	-1.1378745	0.28671327	0.6075805	1	4544	tags=56%, list=27%, signal=77%
REGULATION_OF_CELL_ADHESION	27	-0.34652218	-1.1859128	0.22758621	0.6080149	1	2636	tags=30%, list=15%, signal=35%
NUCLEOCYTOPLASMIC_TRANSPORT	67	-0.26546726	-1.1410316	0.23013699	0.6107796	1	2555	tags=22%, list=15%, signal=26%
RESPONSE_TO_CHEMICAL_STIMULUS	188	-0.21354772	-1.0921358	0.2283737	0.61323357	1	2338	tags=21%, list=14%, signal=24%
STRIATED_MUSCLE_DEVELOPMENT	24	-0.40911555	-1.3524557	0.088942304	0.6134701	1	825	tags=21%, list=5%, signal=22%
ENERGY_DERIVATION_BY_OXIDATION_OF_ORGANIC_COMPOUNDS	29	-0.33042222	-1.1435738	0.2524272	0.61679965	1	5252	tags=45%, list=31%, signal=65%
DEPHOSPHORYLATION	52	-0.26223794	-1.0718547	0.32493702	0.62894654	1	2429	tags=23%, list=14%, signal=27%
CHROMATIN_MODIFICATION	40	-0.27094653	-1.0508747	0.3776722	0.6392733	1	3527	tags=35%, list=21%, signal=44%
CELLULAR_PROTEIN_CATABOLIC_PROCESS	47	-0.26588985	-1.0537095	0.35427135	0.6407009	1	1317	tags=17%, list=8%, signal=18%
CELLULAR_MACROMOLECULE_CATABOLIC_PROCESS	81	-0.23810524	-1.0620309	0.32880434	0.64716893	1	2359	tags=22%, list=14%, signal=26%
LIPID_BIOSYNTHETIC_PROCESS	62	-0.25050148	-1.0545236	0.36612022	0.6481989	1	3517	tags=29%, list=21%, signal=36%
CHEMICAL_HOMEOSTASIS	89	-0.23389581	-1.0578743	0.34920636	0.64856374	1	1810	tags=16%, list=11%, signal=18%
HETEROCYCLE_METABOLIC_PROCESS	22	-0.40242818	-1.3538334	0.116740085	0.65141404	1	3846	tags=36%, list=22%, signal=47%
AMINE_METABOLIC_PROCESS	101	-0.30772677	-1.4261572	0.020942409	0.6584926	1	2893	tags=33%, list=17%, signal=39%
AROMATIC_COMPOUND_METABOLIC_PROCESS	19	-0.432528	-1.3698167	0.11401425	0.69266385	1	5769	tags=68%, list=34%, signal=103%
CARBOXYLIC_ACID_METABOLIC_PROCESS	125	-0.28098452	-1.3551704	0.032520324	0.69609135	1	4947	tags=46%, list=29%, signal=65%
ORGAN_MORPHOGENESIS	79	-0.23510456	-1.0231482	0.40482575	0.7004616	1	2750	tags=23%, list=16%, signal=27%

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX	LEADING EDGE
PROTEIN_PROCESSING	31	-0.28219277	-1.0243183	0.42004773	0.70723903	1	4380	tags=45%, list=26%, signal=61%
REGULATION_OF_G_PROTEIN_COUPLED_RECEPTOR_PROTEIN_SIGNALING_PATHWAY	16	-0.34334174	-1.0165398	0.44392523	0.71009326	1	170	tags=13%, list=1%, signal=13%
G_PROTEIN_SIGNALING__COUPLED_TO_IP3_SECOND_MESSENGER__PHOSPHOLIPASE_C_ACTIVATING	20	-0.42092922	-1.3797466	0.1002445	0.71352404	1	322	tags=20%, list=2%, signal=20%
REGULATION_OF_PROTEIN_MODIFICATION_PROCESS	24	-0.29469872	-1.0052546	0.41379312	0.73334897	1	522	tags=17%, list=3%, signal=17%
PHOSPHOLIPID_METABOLIC_PROCESS	47	-0.25345528	-0.9855408	0.46766168	0.7608592	1	3246	tags=30%, list=19%, signal=37%
INTRACELLULAR_TRANSPORT	211	-0.19231969	-0.98904943	0.4604811	0.7612172	1	4335	tags=32%, list=25%, signal=43%
CELLULAR_LIPID_CATABOLIC_PROCESS	19	-0.31583068	-0.99169534	0.45394737	0.7638477	1	4733	tags=42%, list=28%, signal=58%
PROTEIN_AMINO_ACID_DEPHOSPHORYLATION	45	-0.24847348	-0.9798655	0.48711944	0.7686881	1	2810	tags=22%, list=16%, signal=27%
ORGANIC_ACID_METABOLIC_PROCESS	127	-0.29150826	-1.3807366	0.024096385	0.78043514	1	4947	tags=47%, list=29%, signal=66%
MUSCLE_DEVELOPMENT	57	-0.22978322	-0.9576517	0.5249344	0.81576794	1	981	tags=12%, list=6%, signal=13%
MEMBRANE_LIPID_METABOLIC_PROCESS	64	-0.21002826	-0.90407944	0.6733524	0.81854105	1	3246	tags=25%, list=19%, signal=31%
SECONDARY_METABOLIC_PROCESS	20	-0.3051523	-0.959677	0.49875313	0.8206566	1	686	tags=15%, list=4%, signal=16%
DI___TRI_VALENT_INORGANIC_CATION_TRANSPORT	20	-0.30576736	-0.9485627	0.5	0.8219108	1	1987	tags=20%, list=12%, signal=23%
BEHAVIOR	65	-0.21489227	-0.90584743	0.6349614	0.82327926	1	2917	tags=23%, list=17%, signal=28%
APOPTOTIC_NUCLEAR_CHANGES	16	-0.3121344	-0.92946327	0.569869	0.8266728	1	243	tags=13%, list=1%, signal=13%
EMBRYONIC_DEVELOPMENT	36	-0.2559528	-0.94981754	0.5663507	0.8284776	1	2874	tags=28%, list=17%, signal=33%
FATTY_ACID_METABOLIC_PROCESS	39	-0.24685383	-0.9215009	0.57505774	0.82887614	1	4947	tags=46%, list=29%, signal=65%
INTRACELLULAR_PROTEIN_TRANSPORT	112	-0.18828705	-0.8916779	0.7183908	0.8308313	1	4401	tags=31%, list=26%, signal=42%
MESODERM_DEVELOPMENT	15	-0.3046433	-0.90640235	0.6004566	0.8310934	1	2188	tags=27%, list=13%, signal=31%
COFACTOR_METABOLIC_PROCESS	44	-0.24710594	-0.9415883	0.5566502	0.8322974	1	4584	tags=43%, list=27%, signal=59%
CALCIUM_ION_TRANSPORT	15	-0.30186784	-0.89471817	0.5848214	0.8325751	1	1987	tags=20%, list=12%, signal=23%
PROTEIN_AUTOPROCESSING	21	-0.27429935	-0.88669485	0.60491073	0.83395606	1	4380	tags=43%, list=26%, signal=58%
POSITIVE_REGULATION_OF_TRANSCRIPTION_FROM_RNA_POLYMERASE_II_PROMOTER	38	-0.25000167	-0.93006796	0.57843137	0.83450675	1	3558	tags=34%, list=21%, signal=43%
MONOCARBOXYLIC_ACID_METABOLIC_PROCESS	55	-0.22175184	-0.90791	0.6164021	0.8365521	1	4947	tags=44%, list=29%, signal=61%
SKELETAL_DEVELOPMENT	60	-0.22401366	-0.9365427	0.57	0.836713	1	1933	tags=18%, list=11%, signal=21%
DNA_DAMAGE_RESPONSE__SIGNAL_TRANSDUCTION	19	-0.29792365	-0.9217881	0.58013546	0.83763224	1	3444	tags=37%, list=20%, signal=46%
CELL_MATRIX_ADHESION	26	-0.2621736	-0.9108652	0.5902778	0.8381369	1	2555	tags=27%, list=15%, signal=32%
DIGESTION	15	-0.3031167	-0.87612003	0.61659193	0.8411184	1	3789	tags=40%, list=22%, signal=51%
HISTONE_MODIFICATION	20	-0.27225384	-0.8791747	0.6440678	0.8427528	1	3217	tags=40%, list=19%, signal=49%
METAL_ION_TRANSPORT	63	-0.22076778	-0.9306898	0.60382515	0.84281665	1	3010	tags=22%, list=18%, signal=27%
REGULATION_OF_RAS_PROTEIN_SIGNAL_TRANSDUCTION	15	-0.29124856	-0.8507068	0.67945826	0.84464115	1	3589	tags=33%, list=21%, signal=42%
CYTOSKELETON_DEPENDENT_INTRACELLULAR_TRANSPORT	16	-0.28706416	-0.84602517	0.6805252	0.8457945	1	4066	tags=44%, list=24%, signal=57%
PROTEIN_TARGETING	85	-0.19155744	-0.8583135	0.7542373	0.84592295	1	2748	tags=20%, list=16%, signal=24%
LOCOMOTORY_BEHAVIOR	47	-0.22690956	-0.91093683	0.617866	0.8475829	1	2900	tags=26%, list=17%, signal=31%
MRNA_METABOLIC_PROCESS	66	-0.19965723	-0.83650607	0.78142077	0.8477183	1	3390	tags=24%, list=20%, signal=30%
UBIQUITIN_CYCLE	32	-0.23890854	-0.86143124	0.685	0.8479198	1	2555	tags=22%, list=15%, signal=26%
PROTEIN_TRANSPORT	121	-0.17905433	-0.8528106	0.8197674	0.8490389	1	4401	tags=30%, list=26%, signal=40%
STEROID_BIOSYNTHETIC_PROCESS	17	-0.27519798	-0.8391045	0.7146119	0.8507013	1	1769	tags=24%, list=10%, signal=26%
NEGATIVE_REGULATION_OF_MAP_KINASE_ACTIVITY	15	-0.28874096	-0.86149937	0.63066953	0.85632807	1	3180	tags=33%, list=19%, signal=41%
COVALENT_CHROMATIN_MODIFICATION	20	-0.27225384	-0.86162156	0.707483	0.86486477	1	3217	tags=40%, list=19%, signal=49%
NEURON_APOPTOSIS	15	-0.28053954	-0.81156266	0.72888887	0.8828513	1	2273	tags=20%, list=13%, signal=23%
LIPID_CATABOLIC_PROCESS	22	-0.2379401	-0.79327875	0.75581396	0.90266037	1	4733	tags=36%, list=28%, signal=50%
PROTEIN_AMINO_ACID_AUTOPHOSPHORYLATION	20	-0.24891585	-0.78736734	0.76072234	0.9029936	1	1674	tags=20%, list=10%, signal=22%
REGULATION_OF_GENE_EXPRESSION__EPIGENETIC	20	-0.23443884	-0.7646596	0.8175355	0.9250222	1	874	tags=15%, list=5%, signal=16%
VIRAL_INFECTIOUS_CYCLE	21	-0.22796911	-0.7535648	0.8018648	0.9302089	1	3672	tags=33%, list=21%, signal=42%
POTASSIUM_ION_TRANSPORT	28	-0.21218233	-0.74476916	0.84729064	0.9322608	1	4550	tags=29%, list=27%, signal=39%
CARBOHYDRATE_TRANSPORT	16	-0.24018532	-0.72498155	0.859447	0.94405663	1	5666	tags=50%, list=33%, signal=75%
REGULATION_OF_SMALL_GTPASE_MEDIATED_SIGNAL_TRANSDUCTION	17	-0.23874585	-0.7137978	0.8452381	0.9457125	1	3589	tags=29%, list=21%, signal=37%
ENDOSOME_TRANSPORT	16	-0.2288196	-0.6959806	0.86255926	0.95155364	1	4749	tags=44%, list=28%, signal=61%
PROTEIN_IMPORT_INTO_NUCLEUS	37	-0.18164736	-0.680144	0.9270073	0.9546001	1	2379	tags=14%, list=14%, signal=16%
NUCLEAR_IMPORT	38	-0.17231384	-0.6557599	0.95	0.9605667	1	2379	tags=13%, list=14%, signal=15%
MRNA_PROCESSING_GO_0006397	56	-0.14689249	-0.6003453	1	0.9764139	1	3390	tags=21%, list=20%, signal=27%

Appendix I (c1)

Gene Ontology Analysis (KEGG): Fh1-/- vs Fh1+/+ kidneys.

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX	LEADING EDGE
HSA00710_CARBON_FIXATION	16	0.7026114	1.7240654	0.001012146	0.00602192	0.024	2261	tags=50%, list=13%, signal=58%
HSA00010_GLYCOLYSIS_AND_GLUCONEOGENESIS	39	0.64392984	1.768457	0	0.006523936	0.013	1648	tags=41%, list=10%, signal=45%
HSA04610_COMPLEMENT_AND_COAGULATION_CASCADES	37	0.62853044	1.7261144	0	0.007693247	0.023	3763	tags=57%, list=22%, signal=73%
HSA00980_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME_P450	30	0.6705983	1.7776684	0	0.010039936	0.01	1428	tags=40%, list=8%, signal=44%
HSA04742_TASTE_TRANSDUCTION	15	0.6797193	1.6600538	0.006116208	0.016044596	0.079	2877	tags=47%, list=17%, signal=56%
HSA00030_PENTOSE_PHOSPHATE_PATHWAY	18	0.6599922	1.6420181	0.002022245	0.016714474	0.097	3472	tags=61%, list=20%, signal=77%
HSA00480_GLUTATHIONE_METABOLISM	33	0.58711725	1.6023161	0.002002002	0.026215727	0.164	4897	tags=64%, list=29%, signal=89%
HSA00590_ARACHIDONIC_ACID_METABOLISM	27	0.5817395	1.5302353	0.006030151	0.064174145	0.396	4539	tags=59%, list=27%, signal=81%
HSA04512_ECM_RECEPTOR_INTERACTION	66	0.5246922	1.4944361	0	0.092256464	0.559	2837	tags=39%, list=17%, signal=47%
HSA00860_PORPHYRIN_AND_CHLOROPHYLL_METABOLISM	24	0.54882634	1.4316504	0.020100502	0.117018044	0.82	1397	tags=33%, list=8%, signal=36%
HSA01430_CELL_COMMUNICATION	62	0.5116489	1.4365212	0.003	0.1183548	0.805	5008	tags=56%, list=29%, signal=80%
HSA00280_VALINE_LEUCINE_AND_ISOLEUCINE_DEGRADATION	38	0.5188291	1.417841	0.01	0.12248296	0.871	6229	tags=66%, list=36%, signal=103%
HSA04320_DORSO_VENTRAL_AXIS_FORMATION	20	0.546452	1.3730407	0.057401814	0.1229298	0.969	5248	tags=60%, list=31%, signal=86%
HSA00624_1_AND_2_METHYLNAPHTHALENE_DEGRADATION	15	0.5606202	1.375927	0.073619634	0.124067724	0.964	5361	tags=53%, list=31%, signal=78%
HSA00970_AMINOACYL_TRNA_BIOSYNTHESIS	24	0.54208827	1.4210895	0.025075225	0.12506123	0.857	4700	tags=54%, list=27%, signal=75%
HSA04670_LEUKOCYTE_TRANSENDOTHELIAL_MIGRATION	82	0.49832904	1.4369103	0.001	0.12668608	0.803	5200	tags=54%, list=30%, signal=77%
HSA04662_B_CELL_RECEPTOR_SIGNALING_PATHWAY	50	0.50060266	1.4095069	0.008	0.12755118	0.9	4559	tags=50%, list=27%, signal=68%
HSA04620_TOLL_LIKE_RECEPTOR_SIGNALING_PATHWAY	73	0.4794889	1.3763896	0.004	0.12814388	0.963	5687	tags=55%, list=33%, signal=82%
HSA05219_BLADDER_CANCER	36	0.50694907	1.3652667	0.027	0.12889478	0.978	3567	tags=36%, list=21%, signal=46%
HSA04010_MAPK_SIGNALING_PATHWAY	169	0.46936217	1.4036804	0	0.12944008	0.918	3997	tags=39%, list=23%, signal=50%
HSA04920_ADIPOCYTOKINE_SIGNALING_PATHWAY	59	0.48709902	1.3785797	0.012	0.12994331	0.96	6006	tags=56%, list=35%, signal=86%
HSA00190_OXIDATIVE_PHOSPHORYLATION	93	0.48274356	1.3928555	0	0.13143799	0.937	5800	tags=59%, list=34%, signal=89%
HSA00051_FRUCTOSE_AND_MANNOSE_METABOLISM	31	0.5190432	1.3797959	0.039039038	0.13326833	0.957	2272	tags=32%, list=13%, signal=37%
HSA00100_BIOSYNTHESIS_OF_STEROIDS	18	0.5581802	1.3956754	0.04032258	0.13379756	0.932	4173	tags=44%, list=24%, signal=59%
HSA03010_RIBOSOME	60	0.48557356	1.3578273	0.014	0.13446537	0.985	6036	tags=65%, list=35%, signal=100%
HSA00330_ARGININE_AND_PROLINE_METABOLISM	21	0.5602986	1.437404	0.032193158	0.13673994	0.801	3455	tags=52%, list=20%, signal=66%
HSA03320_PPAR_SIGNALING_PATHWAY	50	0.49221468	1.3809643	0.012	0.1376675	0.956	4262	tags=48%, list=25%, signal=64%
HSA04664_FC_EPSILON_RI_SIGNALING_PATHWAY	50	0.49786007	1.3845656	0.007	0.13777427	0.948	5477	tags=52%, list=32%, signal=76%
HSA04660_T_CELL_RECEPTOR_SIGNALING_PATHWAY	67	0.4759689	1.3499283	0.006	0.14177066	0.989	7033	tags=67%, list=41%, signal=114%
HSA04514_CELL_ADHESION_MOLECULES	72	0.504608	1.4405667	0.001	0.14442763	0.787	1951	tags=29%, list=11%, signal=33%
HSA04060_CYTOKINE_CYTOKINE_RECEPTOR_INTERACTION	118	0.4560885	1.3413895	0.003	0.14563961	0.993	4188	tags=37%, list=24%, signal=49%
HSA04540_GAP_JUNCTION	56	0.47784448	1.3414056	0.018018018	0.1501596	0.992	6939	tags=66%, list=41%, signal=111%
HSA05222_SMALL_CELL_LUNG_CANCER	72	0.46390104	1.3317976	0.007	0.15619317	0.994	5102	tags=49%, list=30%, signal=69%
HSA00565_ETHER_LIPID_METABOLISM	21	0.5586083	1.4410534	0.029204432	0.15776643	0.786	4501	tags=57%, list=26%, signal=77%
HSA04510_FOCAL_ADHESION	157	0.4404628	1.3121802	0	0.15782847	0.997	5566	tags=50%, list=33%, signal=74%
HSA04210_APOPTOSIS	63	0.46779734	1.3131795	0.018	0.16011874	0.996	5687	tags=54%, list=33%, signal=81%
HSA00600_SPHINGOLIPID_METABOLISM	28	0.49841514	1.3077147	0.066	0.16023223	0.999	4598	tags=50%, list=27%, signal=68%
HSA00220_UREA_CYCLE_AND_METABOLISM_OF_AMINO_GROUPS	24	0.50757325	1.31468	0.07321966	0.16180855	0.996	3590	tags=46%, list=21%, signal=58%
HSA05215_PROSTATE_CANCER	69	0.46019158	1.31536	0.017	0.1648528	0.996	2995	tags=32%, list=18%, signal=38%
HSA05211_RENAL_CELL_CARCINOMA	56	0.46319687	1.3168461	0.031	0.16713904	0.996	5477	tags=50%, list=32%, signal=73%
HSA04912_GNRH_SIGNALING_PATHWAY	63	0.4654689	1.3187904	0.018	0.16888423	0.996	7069	tags=63%, list=41%, signal=108%
HSA04012_ERBB_SIGNALING_PATHWAY	61	0.45440206	1.2892597	0.034	0.16977328	1	6063	tags=52%, list=35%, signal=81%
HSA05120_EPITHELIAL_CELL_SIGNALING_IN_HELICOBACTER_PYLORI_INFECTION	53	0.4716412	1.319664	0.028	0.17227666	0.996	4212	tags=43%, list=25%, signal=57%

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX	LEADING EDGE
HSA04080_NEUROACTIVE_LIGAND_RECEPTOR_INTERACTION	78	0.45113212	1.2946697	0.021	0.17230196	1	3349	tags=29%, list=20%, signal=36%
HSA04115_P53_SIGNALING_PATHWAY	50	0.46199882	1.2897207	0.046	0.17283203	1	4617	tags=44%, list=27%, signal=60%
HSA05010_ALZHEIMERS_DISEASE	20	0.5104653	1.2961794	0.11356784	0.17411833	1	5552	tags=60%, list=32%, signal=89%
HSA04730_LONG_TERM_DEPRESSION	42	0.46617866	1.2904646	0.056	0.1755131	1	7535	tags=71%, list=44%, signal=127%
HSA00561_GLYCEROLIPID_METABOLISM	36	0.4692234	1.2756705	0.073	0.18457893	1	1679	tags=19%, list=10%, signal=22%
HSA04370_VEGF_SIGNALING_PATHWAY	52	0.4579946	1.2765507	0.045	0.1869215	1	5477	tags=50%, list=32%, signal=73%
HSA04640_HEMATOPOIETIC_CELL_LINEAGE	36	0.4679239	1.2670139	0.074074075	0.19555263	1	4225	tags=39%, list=25%, signal=52%
HSA04330_NOTCH_SIGNALING_PATHWAY	29	0.47698423	1.2578512	0.08726179	0.20859252	1	6715	tags=55%, list=39%, signal=91%
HSA02010_ABC_TRANSPORTERS_GENERAL	30	0.4667925	1.2443624	0.11770624	0.2119721	1	3814	tags=37%, list=22%, signal=47%
HSA00530_AMINOSUGARS_METABOLISM	23	0.48319674	1.244977	0.12361809	0.21470045	1	5585	tags=57%, list=33%, signal=84%
HSA01032_GLYCAN_STRUCTURES_DEGRADATION	23	0.4862591	1.2462063	0.13508065	0.21590498	1	4729	tags=52%, list=28%, signal=72%
HSA00640_PROPANOATE_METABOLISM	23	0.4844857	1.2479047	0.13052209	0.21678364	1	4509	tags=48%, list=26%, signal=65%
HSA04810_REGULATION_OF_ACTIN_CYTOSKELETON	148	0.4172816	1.2388014	0.017	0.21881598	1	4702	tags=39%, list=27%, signal=53%
HSA00564_GLYCEROPHOSPHOLIPID_METABOLISM	48	0.44529116	1.2500272	0.085	0.2203775	1	1966	tags=21%, list=11%, signal=23%
HSA04360_AXON_GUIDANCE	96	0.42686343	1.2480608	0.025	0.22051404	1	4839	tags=40%, list=28%, signal=55%
HSA05130_PATHOGENIC_ESCHERICHIA_COLI_INFECTION_EHEC	35	0.45327345	1.2317976	0.12912913	0.22799203	1	5200	tags=46%, list=30%, signal=66%
HSA05221_ACUTE_MYELOID_LEUKEMIA	40	0.44823202	1.2253875	0.121	0.23699482	1	1202	tags=20%, list=7%, signal=21%
HSA00252_ALANINE_AND_ASPARTATE_METABOLISM	25	0.46514976	1.2211136	0.14631686	0.23837607	1	4084	tags=40%, list=24%, signal=52%
HSA05131_PATHOGENIC_ESCHERICHIA_COLI_INFECTION_EPEC	35	0.45327345	1.2214754	0.12912913	0.24155998	1	5200	tags=46%, list=30%, signal=66%
HSA05220_CHRONIC_MYELOID_LEUKEMIA	61	0.43030453	1.2162311	0.08	0.24502014	1	3489	tags=31%, list=20%, signal=39%
HSA01510_NEURODEGENERATIVE_DISEASES	32	0.44877714	1.2023567	0.15415415	0.2718259	1	6736	tags=56%, list=39%, signal=93%
HSA00071_FATTY_ACID_METABOLISM	36	0.43726197	1.1871073	0.155	0.2967022	1	6047	tags=50%, list=35%, signal=77%
HSA04650_NATURAL_KILLER_CELL_MEDIATED_CYTOTOXICITY	63	0.4166543	1.1886809	0.11	0.29780823	1	5477	tags=46%, list=32%, signal=67%
HSA00500_STARCH_AND_SUCROSE_METABOLISM	42	0.42872962	1.1766639	0.174	0.29925597	1	7578	tags=62%, list=44%, signal=111%
HSA00052_GALACTOSE_METABOLISM	22	0.45627168	1.1804106	0.21830986	0.29939923	1	3249	tags=36%, list=19%, signal=45%
HSA04916_MELANOGENESIS	61	0.4219541	1.183739	0.116	0.29990953	1	7073	tags=54%, list=41%, signal=92%
HSA05212_PANCREATIC_CANCER	64	0.41514754	1.1816714	0.123	0.30064607	1	4637	tags=39%, list=27%, signal=53%
HSA00760_NICOTINATE_AND_NICOTINAMIDE_METABOLISM	15	0.4885395	1.1768184	0.22819473	0.3032021	1	5382	tags=53%, list=31%, signal=78%
HSA04340_HEDGEHOG_SIGNALING_PATHWAY	34	0.43267304	1.1724293	0.189	0.30440724	1	1745	tags=24%, list=10%, signal=26%
HSA00120_BILE_ACID_BIOSYNTHESIS	27	0.44144613	1.1581469	0.22434607	0.33446336	1	6235	tags=52%, list=36%, signal=81%
HSA04530_TIGHT_JUNCTION	93	0.39757946	1.1536462	0.121	0.34093413	1	5347	tags=43%, list=31%, signal=62%
HSA05214_GLIOMA	50	0.41163832	1.1513569	0.183	0.34214085	1	6063	tags=48%, list=35%, signal=74%
HSA04350_TGF_BETA_SIGNALING_PATHWAY	61	0.4063891	1.1493516	0.173	0.3427179	1	3185	tags=28%, list=19%, signal=34%
HSA00410_BETA_ALANINE_METABOLISM	22	0.44510013	1.1463188	0.251004	0.3460273	1	3590	tags=36%, list=21%, signal=46%
HSA00350_TYROSINE_METABOLISM	36	0.41975886	1.1437925	0.223	0.34778935	1	7348	tags=53%, list=43%, signal=92%
HSA04120_UBIQUITIN_MEDIATED_PROTEOLYSIS	31	0.42821229	1.1394085	0.25225225	0.3542518	1	6304	tags=52%, list=37%, signal=82%
HSA04150_MTOR_SIGNALING_PATHWAY	39	0.41679043	1.137416	0.22422422	0.35491157	1	6893	tags=59%, list=40%, signal=99%
HSA04520_ADHERENS_JUNCTION	62	0.4015419	1.1330321	0.178	0.36192152	1	4852	tags=35%, list=28%, signal=49%
HSA04910_INSULIN_SIGNALING_PATHWAY	105	0.38629603	1.1292821	0.158	0.36686206	1	7724	tags=57%, list=45%, signal=104%
HSA04630_JAK_STAT_SIGNALING_PATHWAY	76	0.3881663	1.1208273	0.201	0.37992704	1	5630	tags=43%, list=33%, signal=64%
HSA04930_TYPE_II_DIABETES_MELLITUS	30	0.422022	1.1224327	0.26980942	0.3805526	1	2727	tags=23%, list=16%, signal=28%
HSA05040_HUNTINGTONS_DISEASE	22	0.42771024	1.0997831	0.32092556	0.4256599	1	4784	tags=45%, list=28%, signal=63%
HSA04110_CELL_CYCLE	92	0.37957945	1.1009692	0.221	0.42767113	1	5111	tags=36%, list=30%, signal=51%
HSA04612_ANTIGEN_PROCESSING_AND_PRESENTATION	21	0.42324144	1.0748175	0.36060607	0.48475018	1	8687	tags=71%, list=51%, signal=145%
HSA00650_BUTANOATE_METABOLISM	32	0.40201777	1.0766646	0.34534535	0.484961	1	7393	tags=63%, list=43%, signal=110%
HSA05210_COLORECTAL_CANCER	68	0.37596467	1.0708337	0.313	0.49079752	1	4559	tags=37%, list=27%, signal=50%
HSA00260_GLYCINE_SERINE_AND_THREONINE_METABOLISM	36	0.38951585	1.0598402	0.378	0.49475297	1	6407	tags=47%, list=37%, signal=75%

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX	LEADING EDGE
HSA04720_LONG_TERM_POTENTIATION	47	0.3847936	1.0650496	0.36	0.4957831	1	7535	tags=55%, list=44%, signal=99%
HSA00632_BENZOATE_DEGRADATION_VIA_COA_LIGATION	19	0.4192665	1.0661561	0.39838222	0.4984158	1	6434	tags=47%, list=38%, signal=76%
HSA00790_FOLATE_BIOSYNTHESIS	26	0.40388536	1.0618026	0.3496994	0.4994328	1	5294	tags=42%, list=31%, signal=61%
HSA05030_AMYOTROPHIC_LATERAL_SCLEROSIS	16	0.43477172	1.0598817	0.39795917	0.49997586	1	5763	tags=56%, list=34%, signal=85%
HSA04020_CALCIUM_SIGNALING_PATHWAY	95	0.36203492	1.0543885	0.342	0.5043676	1	7094	tags=47%, list=41%, signal=80%
HSA05218_MELANOMA	50	0.37818655	1.0496104	0.394	0.5067383	1	1327	tags=16%, list=8%, signal=17%
HSA00620_PYRUVATE_METABOLISM	26	0.4038383	1.051335	0.39819458	0.5072534	1	6047	tags=46%, list=35%, signal=71%
HSA05110_CHOLERA_INFECTION	33	0.39266238	1.0417328	0.417	0.52368367	1	3836	tags=30%, list=22%, signal=39%
HSA00230_PURINE_METABOLISM	110	0.35200915	1.031708	0.394	0.5464959	1	6389	tags=43%, list=37%, signal=68%
HSA04070_PHOSPHATIDYLINOSITOL_SIGNALING_SYSTEM	53	0.3664366	1.0280358	0.439	0.5508015	1	7148	tags=49%, list=42%, signal=84%
HSA00150_ANDROGEN_AND_ESTROGEN_METABOLISM	25	0.3896002	1.0075009	0.4699399	0.6023393	1	7428	tags=56%, list=43%, signal=99%
HSA04740_OLFACTORY_TRANSDUCTION	19	0.39969233	1.00257	0.48841894	0.60372335	1	6063	tags=47%, list=35%, signal=73%
HSA00240_PYRIMIDINE_METABOLISM	70	0.3500165	1.0035574	0.48	0.6068777	1	7594	tags=56%, list=44%, signal=100%
HSA05213_ENDOMETRIAL_CANCER	40	0.36528113	0.9983275	0.5045045	0.6098073	1	8035	tags=63%, list=47%, signal=118%
HSA03030_DNA_POLYMERASE	22	0.38388744	0.98405236	0.5286432	0.64214164	1	5856	tags=45%, list=34%, signal=69%
HSA05217_BASAL_CELL_CARCINOMA	32	0.3654909	0.9807183	0.5295295	0.64494914	1	4528	tags=31%, list=26%, signal=42%
HSA00510_N_GLYCAN_BIOSYNTHESIS	32	0.3699726	0.97216654	0.555	0.66079193	1	4166	tags=34%, list=24%, signal=45%
HSA05223_NON_SMALL_CELL_LUNG_CANCER	44	0.35077706	0.96853435	0.585	0.6646499	1	7668	tags=57%, list=45%, signal=103%
HSA00380_TRYPTOPHAN_METABOLISM	39	0.34825554	0.9492835	0.5995996	0.7070254	1	7559	tags=54%, list=44%, signal=96%
HSA05216_THYROID_CANCER	19	0.37535048	0.9449747	0.582495	0.7109279	1	8035	tags=68%, list=47%, signal=129%
HSA01030_GLYCAN_STRUCTURES_BIOSYNTHESIS_1	71	0.32436183	0.9291185	0.681	0.735592	1	7350	tags=48%, list=43%, signal=84%
HSA00020_CITRATE_CYCLE	23	0.35932106	0.93013847	0.63179076	0.7399144	1	6436	tags=52%, list=38%, signal=84%
HSA03022_BASAL_TRANSCRIPTION_FACTORS	24	0.3592437	0.9214451	0.6332665	0.7470101	1	8230	tags=54%, list=48%, signal=104%
HSA00562_INOSITOL_PHOSPHATE_METABOLISM	31	0.34576654	0.9132983	0.6576577	0.75782484	1	8998	tags=68%, list=53%, signal=143%
HSA00251_GLUTAMATE_METABOLISM	24	0.34094596	0.8858186	0.70251256	0.80247486	1	6160	tags=42%, list=36%, signal=65%
HSA04310_WNT_SIGNALING_PATHWAY	106	0.3051282	0.88893837	0.804	0.8032775	1	7381	tags=47%, list=43%, signal=82%
HSA00903_LIMONENE_AND_PINENE_DEGRADATION	21	0.34484747	0.8763233	0.70623744	0.8143802	1	7255	tags=48%, list=42%, signal=83%
HSA00450_SELENOAMINO_ACID_METABOLISM	20	0.3398013	0.8604467	0.7366834	0.83588296	1	8388	tags=55%, list=49%, signal=108%
HSA04130_SNARE_INTERACTIONS_IN_VESICULAR_TRANSPORT	27	0.30075568	0.79782706	0.8198198	0.9065281	1	11135	tags=81%, list=65%, signal=233%
HSA00563_GLYCOSYLPHOSPHATIDYLINOSITOL_ANCHOR_BIOSYNTHESIS	15	0.3254582	0.80089074	0.78979594	0.91022974	1	9681	tags=73%, list=57%, signal=169%
HSA00512_O_GLYCAN_BIOSYNTHESIS	15	0.320409	0.7839645	0.814475	0.9152942	1	4450	tags=33%, list=26%, signal=45%
HSA01031_GLYCAN_STRUCTURES_BIOSYNTHESIS_2	30	0.3000007	0.80226773	0.8238238	0.91604906	1	9488	tags=67%, list=55%, signal=149%
HSA00960_ALKALOID_BIOSYNTHESIS_II	15	0.30723733	0.7501114	0.8495394	0.9248064	1	7265	tags=40%, list=42%, signal=69%
HSA00310_LYSINE_DEGRADATION	36	0.27801806	0.75133616	0.8968969	0.9313263	1	11427	tags=81%, list=67%, signal=242%
HSA00340_HISTIDINE_METABOLISM	31	0.279383	0.7542565	0.8788789	0.93632174	1	7348	tags=45%, list=43%, signal=79%
HSA03050_PROTEASOME	19	0.2142035	0.54864186	0.98592967	0.9922997	1	12795	tags=84%, list=75%, signal=334%
HSA00360_PHENYLALANINE_METABOLISM	20	0.21748276	0.5514628	0.97876644	0.9998245	1	7348	tags=35%, list=43%, signal=61%

Appendix I (c2)

Gene Ontology Analysis (KEGG): Fh1-/- Hif-1a-/- vs Fh1+/+ kidneys.

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX	LEADING EDGE
HSA04742_TASTE_TRANSDUCTION	15	0.8104139	1.9450272	0	0	0	633	tags=40%, list=4%, signal=42%
HSA00980_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME_P450	30	0.68750244	1.7892368	0	0.003507936	0.007	2307	tags=50%, list=13%, signal=58%
HSA00030_PENTOSE_PHOSPHATE_PATHWAY	18	0.6955819	1.7129942	0.001009082	0.010031872	0.03	2603	tags=50%, list=15%, signal=59%
HSA04610_COMPLEMENT_AND_COAGULATION_CASCADES	37	0.6029127	1.624743	0	0.028839512	0.109	3130	tags=49%, list=18%, signal=59%
HSA01430_CELL_COMMUNICATION	62	0.57046115	1.5974023	0	0.036908258	0.168	3941	tags=52%, list=23%, signal=67%
HSA04512_ECM_RECEPTOR_INTERACTION	66	0.55786204	1.5686277	0	0.047633924	0.246	4880	tags=53%, list=29%, signal=74%
HSA00480_GLUTATHIONE_METABOLISM	33	0.58201957	1.546404	0.003003003	0.04928029	0.327	4791	tags=64%, list=28%, signal=88%
HSA04115_P53_SIGNALING_PATHWAY	50	0.56622857	1.5487267	0	0.05474664	0.32	2788	tags=40%, list=16%, signal=48%
HSA05222_SMALL_CELL_LUNG_CANCER	72	0.52380794	1.4718294	0	0.0613628	0.649	2508	tags=36%, list=15%, signal=42%
HSA00100_BIOSYNTHESIS_OF_STEROIDS	18	0.59449637	1.4769288	0.02020202	0.06162849	0.635	2167	tags=39%, list=13%, signal=44%
HSA00710_CARBON_FIXATION	16	0.6329523	1.5119357	0.018386109	0.06179016	0.467	1872	tags=38%, list=11%, signal=42%
HSA04640_HEMATOPOIETIC_CELL_LINEAGE	36	0.5613202	1.5033163	0.003	0.06410435	0.507	1578	tags=25%, list=9%, signal=27%
HSA00280_VALINE_LEUCINE_AND_ISOLEUCINE_DEGRADATION	38	0.55129325	1.477184	0.003003003	0.06546986	0.634	4564	tags=61%, list=27%, signal=82%
HSA05219_BLADDER_CANCER	36	0.5584004	1.487152	0.00501002	0.06728562	0.588	2750	tags=36%, list=16%, signal=43%
HSA00624_1_AND_2_METHYLNAPHTHALENE_DEGRADATION	15	0.62163264	1.5119703	0.01934827	0.06865573	0.467	4715	tags=60%, list=28%, signal=83%
HSA04012_ERBB_SIGNALING_PATHWAY	61	0.5365138	1.4786897	0.001	0.06900003	0.628	3027	tags=36%, list=18%, signal=44%
HSA00590_ARACHIDONIC_ACID_METABOLISM	27	0.57234114	1.487958	0.009027082	0.071889445	0.582	4791	tags=52%, list=28%, signal=72%
HSA05130_PATHOGENIC_ESCHERICHIA_COLI_INFECTION_EHEC	35	0.5361809	1.4273126	0.021	0.08459482	0.82	2894	tags=37%, list=17%, signal=45%
HSA00350_TYROSINE_METABOLISM	36	0.5323148	1.430727	0.012012012	0.08541298	0.807	5539	tags=50%, list=32%, signal=74%
HSA04662_B_CELL_RECEPTOR_SIGNALING_PATHWAY	50	0.5118761	1.4198219	0.006	0.08758881	0.851	4548	tags=52%, list=27%, signal=71%
HSA05131_PATHOGENIC_ESCHERICHIA_COLI_INFECTION_EPEC	35	0.5361809	1.4319276	0.005005005	0.08842968	0.801	2894	tags=37%, list=17%, signal=45%
HSA00010_GLYCOLYSIS_AND_GLUCONEOGENESIS	39	0.5416082	1.4365684	0.007	0.089778915	0.788	2304	tags=33%, list=13%, signal=38%
HSA04110_CELL_CYCLE	92	0.48571333	1.3866657	0.003	0.09341783	0.944	2399	tags=32%, list=14%, signal=36%
HSA03320_PPAR_SIGNALING_PATHWAY	50	0.5090537	1.3892838	0.009	0.09384031	0.938	4136	tags=50%, list=24%, signal=66%
HSA05213_ENDOMETRIAL_CANCER	40	0.51558614	1.3904872	0.016	0.09568691	0.936	2504	tags=33%, list=15%, signal=38%
HSA05220_CHRONIC_MYELOID_LEUKEMIA	61	0.4972147	1.3916768	0.003	0.09770704	0.932	3113	tags=36%, list=18%, signal=44%
HSA00970_AMINOACYL_TRNA_BIOSYNTHESIS	24	0.5416912	1.3973508	0.036072146	0.09874766	0.916	3895	tags=50%, list=23%, signal=65%
HSA04930_TYPE_II_DIABETES_MELLITUS	30	0.5304297	1.3934705	0.016	0.099575795	0.928	2893	tags=30%, list=17%, signal=36%
HSA00190_OXIDATIVE_PHOSPHORYLATION	93	0.4892969	1.3996524	0.002	0.100354165	0.91	4857	tags=58%, list=28%, signal=81%
HSA04920_ADIPOCYTOKINE_SIGNALING_PATHWAY	59	0.50281674	1.4012272	0.007	0.1028861	0.909	2896	tags=36%, list=17%, signal=43%
HSA04340_HEDGEHOG_SIGNALING_PATHWAY	34	0.51794964	1.3634049	0.018	0.11503509	0.977	2032	tags=32%, list=12%, signal=37%
HSA00760_NICOTINATE_AND_NICOTINAMIDE_METABOLISM	15	0.5674552	1.3653525	0.0638517	0.11654441	0.975	5546	tags=67%, list=32%, signal=99%
HSA05010_ALZHEIMERS_DISEASE	20	0.53775924	1.358477	0.06639839	0.11799396	0.983	5216	tags=65%, list=30%, signal=93%
HSA05215_PROSTATE_CANCER	69	0.48130414	1.3505843	0.006	0.124582216	0.99	3055	tags=32%, list=18%, signal=39%
HSA00071_FATTY_ACID_METABOLISM	36	0.495217	1.3304397	0.034	0.1259017	0.997	4121	tags=44%, list=24%, signal=58%
HSA00450_SELENOAMINO_ACID_METABOLISM	20	0.52662206	1.3325901	0.084337346	0.12625599	0.996	6493	tags=70%, list=38%, signal=113%
HSA04080_NEUROACTIVE_LIGAND_RECEPTOR_INTERACTION	78	0.4750124	1.3462555	0.005	0.12666614	0.992	2247	tags=24%, list=13%, signal=28%
HSA04360_AXON_GUIDANCE	96	0.4659527	1.3337109	0.008	0.1276062	0.995	5214	tags=46%, list=30%, signal=66%
HSA03010_RIBOSOME	60	0.47776946	1.3342345	0.02	0.13002855	0.995	5495	tags=57%, list=32%, signal=83%
HSA05221_ACUTE_MYELOID_LEUKEMIA	40	0.4937659	1.3374655	0.036036037	0.13207226	0.995	2893	tags=35%, list=17%, signal=42%
HSA00565_ETHER_LIPID_METABOLISM	21	0.5311954	1.3398281	0.06626506	0.13220018	0.994	5746	tags=62%, list=34%, signal=93%
HSA04810_REGULATION_OF_ACTIN_CYTOSKELETON	148	0.4563894	1.3350415	0.003	0.13228802	0.995	2903	tags=30%, list=17%, signal=35%
HSA00600_SPHINGOLIPID_METABOLISM	28	0.50283444	1.3221774	0.06118355	0.13312387	0.998	3835	tags=43%, list=22%, signal=55%
HSA04660_T_CELL_RECEPTOR_SIGNALING_PATHWAY	67	0.47044808	1.3150209	0.019	0.13388431	0.998	4548	tags=46%, list=27%, signal=63%
HSA04210_APOPTOSIS	63	0.46971825	1.3165035	0.024	0.13469832	0.998	2793	tags=35%, list=16%, signal=42%
HSA05218_MELANOMA	50	0.47798824	1.3187656	0.041	0.13470475	0.998	2903	tags=32%, list=17%, signal=38%
HSA00220_UREA_CYCLE_AND_METABOLISM_OF_AMINO_GROUPS	24	0.5098142	1.3098719	0.07021063	0.13869704	0.998	5750	tags=58%, list=34%, signal=88%

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX	LEADING EDGE
HSA00640_PROPANOATE_METABOLISM	23	0.51171917	1.3065195	0.08016032	0.1404458	0.998	4066	tags=52%, list=24%, signal=68%
HSA04670_LEUKOCYTE_TRANSENDOTHELIAL_MIGRATION	82	0.45881534	1.2971805	0.01	0.14522919	0.999	3580	tags=34%, list=21%, signal=43%
HSA04514_CELL_ADHESION_MOLECULES	72	0.4586448	1.2973977	0.023	0.14779282	0.999	2953	tags=26%, list=17%, signal=32%
HSA00330_ARGININE_AND_PROLINE_METABOLISM	21	0.51527476	1.2977841	0.10070494	0.15031792	0.999	3199	tags=43%, list=19%, signal=53%
HSA00120_BILE_ACID_BIOSYNTHESIS	27	0.49742737	1.2917918	0.093	0.15042137	0.999	5997	tags=56%, list=35%, signal=85%
HSA05214_GLIOMA	50	0.46501037	1.2844627	0.057	0.15755597	0.999	3027	tags=32%, list=18%, signal=39%
HSA00632_BENZOATE_DEGRADATION_VIA_COA_LIGATION	19	0.50740564	1.273482	0.122345805	0.17172816	1	5161	tags=58%, list=30%, signal=83%
HSA04510_FOCAL_ADHESION	157	0.43074083	1.2632114	0.004	0.17949595	1	3292	tags=29%, list=19%, signal=36%
HSA04530_TIGHT_JUNCTION	93	0.4402485	1.2638352	0.023	0.1814308	1	3080	tags=29%, list=18%, signal=35%
HSA04664_FC_EPSILON_RI_SIGNALING_PATHWAY	50	0.46143422	1.2649858	0.063	0.18255937	1	5326	tags=48%, list=31%, signal=69%
HSA04010_MAPK_SIGNALING_PATHWAY	169	0.4261786	1.2543455	0.011	0.19122556	1	3096	tags=30%, list=18%, signal=36%
HSA05216_THYROID_CANCER	19	0.50119865	1.2504897	0.12701613	0.19485389	1	5084	tags=58%, list=30%, signal=82%
HSA00020_CITRATE_CYCLE	23	0.4920612	1.2474309	0.12474849	0.19695595	1	6933	tags=78%, list=41%, signal=131%
HSA04060_CYTOKINE_CYTOKINE_RECEPTOR_INTERACTION	118	0.42406866	1.2313119	0.03	0.21889533	1	1526	tags=22%, list=9%, signal=24%
HSA00051_FRUCTOSE_AND_MANNOSE_METABOLISM	31	0.46830404	1.2315038	0.10910911	0.2221061	1	2304	tags=29%, list=13%, signal=33%
HSA04910_INSULIN_SIGNALING_PATHWAY	105	0.42394164	1.2225878	0.037	0.2327408	1	5759	tags=44%, list=34%, signal=66%
HSA00860_PORPHYRIN_AND_CHLOROPHYLL_METABOLISM	24	0.46542898	1.2160084	0.17706238	0.24270949	1	585	tags=21%, list=3%, signal=22%
HSA05210_COLORECTAL_CANCER	68	0.43130988	1.2135121	0.084	0.2439442	1	2275	tags=28%, list=13%, signal=32%
HSA04370_VEGF_SIGNALING_PATHWAY	52	0.43538204	1.2041129	0.11011011	0.25989953	1	4680	tags=44%, list=27%, signal=61%
HSA00561_GLYCEROLIPID_METABOLISM	36	0.45068723	1.2007179	0.142	0.26320708	1	1762	tags=19%, list=10%, signal=22%
HSA00260_GLYCINE_SERINE_AND_THREONINE_METABOLISM	36	0.4501393	1.1985625	0.14328657	0.263717	1	7257	tags=67%, list=42%, signal=116%
HSA05217_BASAL_CELL_CARCINOMA	32	0.44656223	1.1947376	0.16232465	0.26423684	1	5559	tags=47%, list=32%, signal=69%
HSA01510_NEURODEGENERATIVE_DISEASES	32	0.45057663	1.1949071	0.159	0.2676444	1	5955	tags=56%, list=35%, signal=86%
HSA04612_ANTIGEN_PROCESSING_AND_PRESENTATION	21	0.46894127	1.187781	0.21031345	0.27543512	1	8359	tags=76%, list=49%, signal=149%
HSA04620_TOLL_LIKE_RECEPTOR_SIGNALING_PATHWAY	73	0.4201352	1.1800103	0.103	0.28859422	1	6195	tags=52%, list=36%, signal=81%
HSA04150_MTOR_SIGNALING_PATHWAY	39	0.4389593	1.1768571	0.167	0.29160672	1	2893	tags=33%, list=17%, signal=40%
HSA04350_TGF_BETA_SIGNALING_PATHWAY	61	0.42230132	1.1692636	0.134	0.30469143	1	3991	tags=33%, list=23%, signal=43%
HSA04650_NATURAL_KILLER_CELL_MEDIATED_CYTOTOXICITY	63	0.41476336	1.1619809	0.147	0.30932263	1	5326	tags=48%, list=31%, signal=69%
HSA00252_ALANINE_AND_ASPARTATE_METABOLISM	25	0.450784	1.1640545	0.22088353	0.3126109	1	7993	tags=72%, list=47%, signal=135%
HSA00230_PURINE_METABOLISM	110	0.40148386	1.1622564	0.098	0.31277302	1	6785	tags=51%, list=40%, signal=84%
HSA05030_AMYOTROPHIC_LATERAL_SCLEROSIS	16	0.4804206	1.1528059	0.24873096	0.32721588	1	6147	tags=63%, list=36%, signal=97%
HSA00410_BETA_ALANINE_METABOLISM	22	0.45426476	1.1499584	0.26130652	0.33001855	1	8213	tags=82%, list=48%, signal=157%
HSA00512_O_GLYCAN_BIOSYNTHESIS	15	0.47368032	1.128767	0.2889115	0.34410262	1	2518	tags=33%, list=15%, signal=39%
HSA00150_ANDROGEN_AND_ESTROGEN_METABOLISM	25	0.435321	1.129663	0.2695391	0.34579858	1	5784	tags=44%, list=34%, signal=66%
HSA00380_TRYPTOPHAN_METABOLISM	39	0.415356	1.1303574	0.254	0.34824482	1	5707	tags=49%, list=33%, signal=73%
HSA05212_PANCREATIC_CANCER	64	0.40462905	1.1387467	0.18	0.3488632	1	3558	tags=31%, list=21%, signal=39%
HSA05211_RENAL_CELL_CARCINOMA	56	0.4090082	1.1401942	0.195	0.34980157	1	6014	tags=45%, list=35%, signal=69%
HSA04630_JAK_STAT_SIGNALING_PATHWAY	76	0.40245548	1.1364555	0.188	0.3505788	1	2490	tags=25%, list=15%, signal=29%
HSA00500_STARCH_AND_SUCROSE_METABOLISM	42	0.4165276	1.1308542	0.227	0.35117373	1	7202	tags=57%, list=42%, signal=98%
HSA00240_PYRIMIDINE_METABOLISM	70	0.4038654	1.1332644	0.17	0.35347188	1	7116	tags=56%, list=42%, signal=95%
HSA04520_ADHERENS_JUNCTION	62	0.40321818	1.1309958	0.189	0.35507914	1	2265	tags=21%, list=13%, signal=24%
HSA00564_GLYCEROPHOSPHOLIPID_METABOLISM	48	0.4071056	1.120298	0.237	0.35583496	1	3747	tags=31%, list=22%, signal=40%
HSA05040_HUNTINGTONS_DISEASE	22	0.44194666	1.1182811	0.30351758	0.357317	1	3848	tags=36%, list=22%, signal=47%
HSA04070_PHOSPHATIDYLINOSITOL_SIGNALING_SYSTEM	53	0.40870613	1.1204637	0.232	0.35946077	1	6014	tags=47%, list=35%, signal=73%
HSA04916_MELANOGENESIS	61	0.3967043	1.1129329	0.243	0.36628708	1	2927	tags=26%, list=17%, signal=32%
HSA00790_FOLATE_BIOSYNTHESIS	26	0.42401773	1.1104968	0.2881526	0.3683334	1	3409	tags=35%, list=20%, signal=43%
HSA04120_UBIQUITIN_MEDIATED_PROTEOLYSIS	31	0.4174517	1.106226	0.291	0.37068006	1	5336	tags=45%, list=31%, signal=66%

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX	LEADING EDGE
HSA00562_INOSITOL_PHOSPHATE_METABOLISM	31	0.41961882	1.1077656	0.29	0.37103897	1	6002	tags=48%, list=35%, signal=74%
HSA00650_BUTANOATE_METABOLISM	32	0.41470003	1.0941731	0.33333334	0.39656872	1	5978	tags=53%, list=35%, signal=82%
HSA04912_GNRH_SIGNALING_PATHWAY	63	0.39188376	1.0912043	0.278	0.39941996	1	5789	tags=43%, list=34%, signal=65%
HSA04540_GAP_JUNCTION	56	0.38917726	1.0842868	0.307	0.4043065	1	4941	tags=36%, list=29%, signal=50%
HSA04320_DORSO_VENTRAL_AXIS_FORMATION	20	0.43303508	1.0851532	0.35105315	0.40611187	1	5763	tags=50%, list=34%, signal=75%
HSA00052_GALACTOSE_METABOLISM	22	0.4302305	1.0859029	0.32323232	0.4084044	1	6334	tags=50%, list=37%, signal=79%
HSA00530_AMINOSUGARS_METABOLISM	23	0.42342937	1.0776764	0.34038267	0.41686824	1	2734	tags=30%, list=16%, signal=36%
HSA05223_NON_SMALL_CELL_LUNG_CANCER	44	0.3967005	1.0718873	0.333	0.426882	1	6064	tags=45%, list=35%, signal=70%
HSA01031_GLYCAN_STRUCTURES_BIOSYNTHESIS_2	30	0.4059249	1.0666366	0.36236235	0.43569934	1	4820	tags=47%, list=28%, signal=65%
HSA03022_BASAL_TRANSCRIPTION_FACTORS	24	0.40817556	1.0590662	0.39859438	0.45090616	1	7992	tags=63%, list=47%, signal=117%
HSA02010_ABC_TRANSPORTERS_GENERAL	30	0.3971143	1.0447	0.408	0.48198104	1	5263	tags=43%, list=31%, signal=62%
HSA05120_EPITHELIAL_CELL_SIGNALING_IN_HELICOBACTER_PYLORI_INFECTION	53	0.3657894	1.0227847	0.442	0.5347742	1	7881	tags=60%, list=46%, signal=112%
HSA04730_LONG_TERM_DEPRESSION	42	0.37773487	1.0182602	0.44744745	0.5415575	1	5800	tags=40%, list=34%, signal=61%
HSA04310_WNT_SIGNALING_PATHWAY	106	0.34442937	0.99616796	0.508	0.59584475	1	7700	tags=53%, list=45%, signal=95%
HSA00620_PYRUVATE_METABOLISM	26	0.38139012	0.97890157	0.5472837	0.63560253	1	8452	tags=69%, list=49%, signal=137%
HSA05110_CHOLERA_INFECTION	33	0.35606256	0.94236964	0.6272545	0.7132832	1	7641	tags=55%, list=45%, signal=98%
HSA01030_GLYCAN_STRUCTURES_BIOSYNTHESIS_1	71	0.3348403	0.9447412	0.644	0.7139856	1	8804	tags=59%, list=51%, signal=121%
HSA00251_GLUTAMATE_METABOLISM	24	0.36451948	0.9264022	0.6364552	0.74425423	1	5328	tags=38%, list=31%, signal=54%
HSA03030_DNA_POLYMERASE	22	0.3574253	0.91387707	0.6476476	0.75255936	1	6749	tags=50%, list=39%, signal=82%
HSA04020_CALCIUM_SIGNALING_PATHWAY	95	0.3196967	0.916117	0.736	0.75428814	1	6002	tags=36%, list=35%, signal=55%
HSA00960_ALKALOID_BIOSYNTHESIS_II	15	0.3763599	0.9182361	0.61257607	0.7565416	1	5978	tags=40%, list=35%, signal=61%
HSA04720_LONG_TERM_POTENTIATION	47	0.33062553	0.9027689	0.71	0.76311105	1	5759	tags=38%, list=34%, signal=58%
HSA00340_HISTIDINE_METABOLISM	31	0.34589875	0.9042765	0.68605816	0.7663866	1	6817	tags=45%, list=40%, signal=75%
HSA00310_LYSINE_DEGRADATION	36	0.32685015	0.8765501	0.734	0.8070427	1	7535	tags=50%, list=44%, signal=89%
HSA00903_LIMONENE_AND_PINENE_DEGRADATION	21	0.33869293	0.85522014	0.7439516	0.8239728	1	8213	tags=62%, list=48%, signal=119%
HSA04740_OLFACTORY_TRANSDUCTION	19	0.34646824	0.8552319	0.72121215	0.8308226	1	8577	tags=58%, list=50%, signal=116%
HSA00510_N_GLYCAN_BIOSYNTHESIS	32	0.3233182	0.8574126	0.7477477	0.83429766	1	7177	tags=47%, list=42%, signal=81%
HSA00563_GLYCOSYLPHOSPHATIDYLINOSITOL_ANCHOR_BIOSYNTHESIS	15	0.3398503	0.8272314	0.750763	0.8518028	1	7820	tags=60%, list=46%, signal=110%
HSA01032_GLYCAN_STRUCTURES_DEGRADATION	23	0.32311317	0.82758296	0.77967805	0.858382	1	8963	tags=65%, list=52%, signal=137%
HSA00360_PHENYLALANINE_METABOLISM	20	0.3100279	0.77717954	0.81653225	0.8988733	1	5539	tags=30%, list=32%, signal=44%
HSA04330_NOTCH_SIGNALING_PATHWAY	29	0.30000028	0.77734405	0.8908909	0.9059525	1	10904	tags=79%, list=64%, signal=218%
HSA04130_SNARE_INTERACTIONS_IN_VESICULAR_TRANSPORT	27	0.22811264	0.5876854	0.9749499	0.99328655	1	10396	tags=63%, list=61%, signal=160%
HSA03050_PROTEASOME	19	0.21163523	0.52012575	0.9929006	0.99473405	1	13488	tags=100%, list=79%, signal=472%

Appendix I (c3)

Gene Ontology Analysis (KEGG): Fh1-/- Hif-1a-/- vs Fh1-/- kidneys.

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX	LEADING EDGE
HSA00010_GLYCOLYSIS_AND_GLUCONEOGENESIS	39	0.62006164	1.7186563	0	0.02887426	0.029	1619	tags=33%, list=9%, signal=37%
HSA04742_TASTE_TRANSDUCTION	15	0.68890035	1.7086849	0.00204918	0.016433194	0.033	3063	tags=53%, list=18%, signal=65%
HSA00980_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME_P450	30	0.6249521	1.6953319	0	0.013603755	0.041	1264	tags=33%, list=7%, signal=36%
HSA00030_PENTOSE_PHOSPHATE_PATHWAY	18	0.6568137	1.6766115	0.002024292	0.014181192	0.056	1619	tags=44%, list=9%, signal=49%
HSA00710_CARBON_FIXATION	16	0.65996724	1.64667	0.002028398	0.019915137	0.094	855	tags=31%, list=5%, signal=33%
HSA00330_ARGININE_AND_PROLINE_METABOLISM	21	0.62776273	1.6117451	0.001009082	0.02704216	0.151	1786	tags=38%, list=10%, signal=42%
HSA00624_1_AND_2_METHYLNAPHTHALENE_DEGRADATION	15	0.63534164	1.5918118	0.013333334	0.03058177	0.193	2408	tags=47%, list=14%, signal=54%
HSA00640_PROPANOATE_METABOLISM	23	0.5975969	1.5705597	0.004016064	0.03820505	0.263	4931	tags=65%, list=29%, signal=92%
HSA04640_HEMATOPOIETIC_CELL_LINEAGE	36	0.564726	1.5515635	0.002	0.045240093	0.335	3691	tags=39%, list=22%, signal=49%
HSA00410_BETA_ALANINE_METABOLISM	22	0.58581734	1.5343057	0.009109312	0.049475156	0.386	4749	tags=64%, list=28%, signal=88%
HSA05216_THYROID_CANCER	19	0.5924018	1.5170408	0.008080808	0.0590112	0.472	3593	tags=47%, list=21%, signal=60%
HSA04340_HEDGEHOG_SIGNALING_PATHWAY	34	0.5490487	1.5077286	0.007	0.06255357	0.52	3063	tags=41%, list=18%, signal=50%
HSA00120_BILE_ACID_BIOSYNTHESIS	27	0.55237377	1.4717765	0.015015015	0.09166116	0.679	2009	tags=30%, list=12%, signal=34%
HSA04610_COMPLEMENT_AND_COAGULATION_CASCADES	37	0.5265664	1.4613868	0.01	0.09599669	0.734	3679	tags=43%, list=22%, signal=55%
HSA00970_AMINOACYL_TRNA_BIOSYNTHESIS	24	0.54719853	1.4562074	0.018072288	0.096099354	0.766	4183	tags=50%, list=24%, signal=66%
HSA05219_BLADDER_CANCER	36	0.5288693	1.450888	0.012	0.09613506	0.784	2050	tags=36%, list=12%, signal=41%
HSA00100_BIOSYNTHESIS_OF_STEROIDS	18	0.563674	1.4221194	0.037487336	0.12327253	0.869	4292	tags=56%, list=25%, signal=74%
HSA01430_CELL_COMMUNICATION	62	0.49131864	1.4186876	0.007007007	0.12151379	0.882	1955	tags=26%, list=11%, signal=29%
HSA04115_P53_SIGNALING_PATHWAY	50	0.4963834	1.412684	0.008	0.123347275	0.897	6461	tags=66%, list=38%, signal=106%
HSA05218_MELANOMA	50	0.4952601	1.3991909	0.012	0.13604707	0.938	5287	tags=54%, list=31%, signal=78%
HSA05030_AMYOTROPHIC_LATERAL_SCLEROSIS	16	0.54538435	1.3855761	0.061412487	0.15185665	0.966	6444	tags=75%, list=38%, signal=120%
HSA04080_NEUROACTIVE_LIGAND_RECEPTOR_INTERACTION	78	0.47316524	1.3843068	0.003	0.1472615	0.968	2165	tags=26%, list=13%, signal=29%
HSA04512_ECM_RECEPTOR_INTERACTION	66	0.48041272	1.3830374	0.009009009	0.14250487	0.969	3691	tags=35%, list=22%, signal=44%
HSA00480_GLUTATHIONE_METABOLISM	33	0.50078607	1.3813237	0.04509018	0.13943169	0.974	3120	tags=39%, list=18%, signal=48%
HSA04530_TIGHT_JUNCTION	93	0.46347022	1.3779566	0.002	0.13851433	0.976	4946	tags=47%, list=29%, signal=66%
HSA00590_ARACHIDONIC_ACID_METABOLISM	27	0.51001614	1.3763496	0.033033032	0.13533285	0.976	5417	tags=48%, list=32%, signal=70%
HSA04320_DORSO_VENTRAL_AXIS_FORMATION	20	0.52894145	1.3669093	0.06174089	0.14422509	0.983	2856	tags=45%, list=17%, signal=54%
HSA05222_SMALL_CELL_LUNG_CANCER	72	0.46729717	1.3662615	0.008	0.13989255	0.984	5539	tags=47%, list=32%, signal=70%
HSA05210_COLORECTAL_CANCER	68	0.47001076	1.3644803	0.005	0.13750646	0.984	5430	tags=53%, list=32%, signal=77%
HSA05220_CHRONIC_MYELOID_LEUKEMIA	61	0.47315994	1.360127	0.014	0.1389978	0.986	5618	tags=52%, list=33%, signal=78%
HSA00071_FATTY_ACID_METABOLISM	36	0.48911732	1.3446816	0.038038038	0.15719347	0.994	2440	tags=28%, list=14%, signal=32%
HSA00220_UREA_CYCLE_AND_METABOLISM_OF_AMINO_GROUPS	24	0.50622475	1.3352531	0.06626506	0.16712098	0.996	1626	tags=29%, list=10%, signal=32%
HSA04060_CYTOKINE_CYTOKINE_RECEPTOR_INTERACTION	118	0.4441686	1.3320644	0.003	0.16740192	0.996	3631	tags=35%, list=21%, signal=44%
HSA00903_LIMONENE_AND_PINENE_DEGRADATION	21	0.5118406	1.3320215	0.082912035	0.16247833	0.996	2408	tags=38%, list=14%, signal=44%
HSA05215_PROSTATE_CANCER	69	0.45714846	1.3289286	0.019	0.16281186	0.997	5449	tags=54%, list=32%, signal=78%
HSA05213_ENDOMETRIAL_CANCER	40	0.47818148	1.3288723	0.043043043	0.15831731	0.997	6078	tags=63%, list=36%, signal=97%
HSA05212_PANCREATIC_CANCER	64	0.4600237	1.3250169	0.023	0.16017176	0.997	5443	tags=52%, list=32%, signal=75%
HSA05130_PATHOGENIC_ESCHERICHIA_COLI_INFECTION_EHEC	35	0.47768316	1.3185742	0.06306306	0.16494748	0.998	3698	tags=40%, list=22%, signal=51%
HSA00561_GLYCEROLIPID_METABOLISM	36	0.47996604	1.3177245	0.05005005	0.16209707	0.998	1758	tags=22%, list=10%, signal=25%
HSA00051_FRUCTOSE_AND_MANNOSE_METABOLISM	31	0.48988187	1.3145382	0.06018054	0.16359495	0.999	4779	tags=45%, list=28%, signal=63%
HSA05131_PATHOGENIC_ESCHERICHIA_COLI_INFECTION_EPEC	35	0.47768316	1.3077884	0.05205205	0.17063615	0.999	3698	tags=40%, list=22%, signal=51%
HSA04012_ERBB_SIGNALING_PATHWAY	61	0.45611802	1.3062928	0.023	0.16908655	0.999	6006	tags=61%, list=35%, signal=93%
HSA05221_ACUTE_MYELOID_LEUKEMIA	40	0.46529475	1.3041558	0.054	0.1680715	0.999	5287	tags=55%, list=31%, signal=79%
HSA00632_BENZOATE_DEGRADATION_VIA_COA_LIGATION	19	0.50876486	1.3031114	0.09919028	0.16574524	0.999	3565	tags=47%, list=21%, signal=60%
HSA04150_MTOR_SIGNALING_PATHWAY	39	0.4725676	1.3010226	0.069	0.16536038	0.999	6183	tags=62%, list=36%, signal=96%
HSA00860_PORPHYRIN_AND_CHLOROPHYLL_METABOLISM	24	0.49025762	1.2930514	0.07746479	0.17494746	0.999	1904	tags=21%, list=11%, signal=23%
HSA00280_VALINE_LEUCINE_AND_ISOLEUCINE_DEGRADATION	38	0.46908876	1.2890798	0.065	0.17772785	1	5564	tags=53%, list=33%, signal=78%
HSA00350_TYROSINE_METABOLISM	36	0.46312347	1.2831348	0.067067064	0.18375851	1	2624	tags=31%, list=15%, signal=36%
HSA04810_REGULATION_OF_ACTIN_CYTOSKELETON	148	0.42477664	1.2830092	0.005	0.18027237	1	5689	tags=48%, list=33%, signal=71%
HSA04514_CELL_ADHESION_MOLECULES	72	0.43869984	1.270529	0.034	0.19604848	1	3664	tags=35%, list=21%, signal=44%
HSA04010_MAPK_SIGNALING_PATHWAY	169	0.41648984	1.2676849	0.003	0.19737998	1	5596	tags=45%, list=33%, signal=66%
HSA00960_ALKALOID_BIOSYNTHESIS_II	15	0.51544183	1.2625709	0.15376782	0.20212635	1	6842	tags=80%, list=40%, signal=133%
HSA01031_GLYCAN_STRUCTURES_BIOSYNTHESIS_2	30	0.46400297	1.2554152	0.105	0.21099679	1	5481	tags=47%, list=32%, signal=69%
HSA00650_BUTANOATE_METABOLISM	32	0.46422303	1.2534151	0.10130391	0.21072364	1	5772	tags=53%, list=34%, signal=80%
HSA04520_ADHERENS_JUNCTION	62	0.4352751	1.2511709	0.058	0.21113002	1	2567	tags=31%, list=15%, signal=36%

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HSA04540_GAP_JUNCTION	56	0.43382058	1.248533	0.06506506	0.21239305	1	4908	tags=45%, list=29%, signal=62%
HSA05214_GLIOMA	50	0.43623	1.238925	0.07	0.22689866	1	5442	tags=50%, list=32%, signal=73%
HSA04210_APOPTOSIS	63	0.42694062	1.2358129	0.078	0.22915113	1	3853	tags=37%, list=23%, signal=47%
HSA04916_MELANOGENESIS	61	0.42372915	1.2264241	0.087	0.24397129	1	7180	tags=57%, list=42%, signal=99%
HSA04510_FOCAL_ADHESION	157	0.39943254	1.2172662	0.022	0.2594405	1	7906	tags=61%, list=46%, signal=111%
HSA04110_CELL_CYCLE	92	0.41119912	1.2163829	0.062	0.2571481	1	4703	tags=41%, list=27%, signal=57%
HSA04310_WNT_SIGNALING_PATHWAY	106	0.40606427	1.2153229	0.05	0.25516766	1	7579	tags=54%, list=44%, signal=96%
HSA00360_PHENYLALANINE_METABOLISM	20	0.46992284	1.2079389	0.17842741	0.26646128	1	2408	tags=35%, list=14%, signal=41%
HSA02010_ABC_TRANSPORTERS_GENERAL	30	0.44682157	1.2009892	0.16116115	0.27748054	1	4582	tags=43%, list=27%, signal=59%
HSA05211_RENAL_CELL_CARCINOMA	56	0.41875616	1.1999116	0.113	0.27540323	1	7798	tags=66%, list=46%, signal=121%
HSA04020_CALCIUM_SIGNALING_PATHWAY	95	0.40130785	1.1940056	0.068	0.28468755	1	7501	tags=55%, list=44%, signal=97%
HSA03022_BASAL_TRANSCRIPTION_FACTORS	24	0.4504191	1.1888942	0.19455644	0.29173267	1	3997	tags=29%, list=23%, signal=38%
HSA00260_GLYCINE_SERINE_AND_THREONINE_METABOLISM	36	0.42848104	1.1849757	0.171	0.29633105	1	4337	tags=44%, list=25%, signal=59%
HSA05223_NON_SMALL_CELL_LUNG_CANCER	44	0.4213666	1.1813698	0.162	0.30004218	1	7863	tags=68%, list=46%, signal=126%
HSA05217_BASAL_CELL_CARCINOMA	32	0.43350667	1.1809999	0.172	0.29641098	1	4207	tags=34%, list=25%, signal=46%
HSA04630_JAK_STAT_SIGNALING_PATHWAY	76	0.40177482	1.1773095	0.119	0.30064833	1	5895	tags=45%, list=34%, signal=68%
HSA04670_LEUKOCYTE_TRANSENDOTHELIAL_MIGRATION	82	0.39009872	1.1558381	0.145	0.34726828	1	5013	tags=38%, list=29%, signal=53%
HSA00562_INOSITOL_PHOSPHATE_METABOLISM	31	0.4234444	1.1551216	0.2116349	0.34421656	1	5717	tags=48%, list=33%, signal=73%
HSA04720_LONG_TERM_POTENTIATION	47	0.40875477	1.1538215	0.181	0.342916	1	7180	tags=60%, list=42%, signal=102%
HSA04660_T_CELL_RECEPTOR_SIGNALING_PATHWAY	67	0.3975287	1.1500378	0.168	0.34767556	1	6064	tags=45%, list=35%, signal=69%
HSA00620_PYRUVATE_METABOLISM	26	0.42999098	1.1492429	0.22845691	0.34513092	1	4931	tags=42%, list=29%, signal=59%
HSA04360_AXON_GUIDANCE	96	0.38367125	1.1460325	0.143	0.34883115	1	6361	tags=47%, list=37%, signal=74%
HSA04912_GNRH_SIGNALING_PATHWAY	63	0.3941671	1.1392297	0.196	0.36081576	1	6006	tags=49%, list=35%, signal=76%
HSA04910_INSULIN_SIGNALING_PATHWAY	105	0.37742138	1.1259912	0.164	0.39098555	1	7375	tags=56%, list=43%, signal=98%
HSA04612_ANTIGEN_PROCESSING_AND_PRESENTATION	21	0.4365378	1.1232835	0.30171543	0.3936529	1	5380	tags=48%, list=31%, signal=69%
HSA04620_TOLL_LIKE_RECEPTOR_SIGNALING_PATHWAY	73	0.38615066	1.1208752	0.189	0.39538077	1	8381	tags=67%, list=49%, signal=131%
HSA00563_GLYCOSYLPHOSPHATIDYLINOSITOL_ANCHOR_BIOSYNTHESIS	15	0.45647588	1.1202956	0.29603255	0.39199176	1	6167	tags=53%, list=36%, signal=83%
HSA00340_HISTIDINE_METABOLISM	31	0.4089901	1.1187264	0.2745491	0.39174253	1	5024	tags=42%, list=29%, signal=59%
HSA00600_SPHINGOLIPID_METABOLISM	28	0.42066193	1.1143414	0.2917505	0.3979599	1	2810	tags=21%, list=16%, signal=26%
HSA00052_GALACTOSE_METABOLISM	22	0.41990224	1.1135848	0.305835	0.3952577	1	4267	tags=36%, list=25%, signal=48%
HSA04650_NATURAL_KILLER_CELL_MEDIATED_CYTOTOXICITY	63	0.38619617	1.1017917	0.258	0.42051226	1	7798	tags=59%, list=46%, signal=108%
HSA05040_HUNTINGTONS_DISEASE	22	0.41963556	1.091766	0.3309788	0.44155008	1	4830	tags=41%, list=28%, signal=57%
HSA04350_TGF_BETA_SIGNALING_PATHWAY	61	0.3790946	1.0916845	0.282	0.4367925	1	7906	tags=57%, list=46%, signal=106%
HSA05110_CHOLERA_INFECTION	33	0.39848304	1.0886512	0.3243243	0.44017628	1	8227	tags=70%, list=48%, signal=134%
HSA01510_NEURODEGENERATIVE_DISEASES	32	0.39669073	1.086802	0.33967936	0.44028643	1	6787	tags=53%, list=40%, signal=88%
HSA00564_GLYCEROPHOSPHOLIPID_METABOLISM	48	0.38361055	1.0844017	0.323	0.44182533	1	6993	tags=50%, list=41%, signal=84%
HSA00020_CITRATE_CYCLE	23	0.41166615	1.0751824	0.36773548	0.46234635	1	6605	tags=57%, list=39%, signal=92%
HSA00450_SELENOAMINO_ACID_METABOLISM	20	0.41449857	1.0612414	0.4030303	0.49482822	1	5024	tags=45%, list=29%, signal=64%
HSA05010_ALZHEIMERS_DISEASE	20	0.41142225	1.0594746	0.3937563	0.4937478	1	4297	tags=40%, list=25%, signal=53%
HSA04662_B_CELL_RECEPTOR_SIGNALING_PATHWAY	50	0.3711054	1.0488688	0.3883884	0.51899606	1	6259	tags=44%, list=37%, signal=69%
HSA05120_EPITHELIAL_CELL_SIGNALING_IN_HELICOBACTER_PYLORI_INFECTION	53	0.36567143	1.0464021	0.394	0.5203323	1	7994	tags=58%, list=47%, signal=109%
HSA04070_PHOSPHATIDYLINOSITOL_SIGNALING_SYSTEM	53	0.36306524	1.0450668	0.406	0.5188176	1	7180	tags=51%, list=42%, signal=88%
HSA01030_GLYCAN_STRUCTURES_BIOSYNTHESIS_1	71	0.3567689	1.0422597	0.396	0.52081627	1	3975	tags=27%, list=23%, signal=35%
HSA00240_PYRIMIDINE_METABOLISM	70	0.36007497	1.0412847	0.399	0.5182514	1	6289	tags=43%, list=37%, signal=67%
HSA04370_VEGF_SIGNALING_PATHWAY	52	0.361751	1.0260801	0.435	0.5534067	1	6039	tags=46%, list=35%, signal=71%
HSA00310_LYSINE_DEGRADATION	36	0.36837488	1.0250597	0.44544545	0.5506084	1	9564	tags=75%, list=56%, signal=170%
HSA00512_O_GLYCAN_BIOSYNTHESIS	15	0.41601956	1.0195123	0.4718526	0.5599921	1	1727	tags=20%, list=10%, signal=22%
HSA04740_OLFACTORY_TRANSDUCTION	19	0.39649022	1.0157757	0.46334013	0.56456953	1	3204	tags=32%, list=19%, signal=39%
HSA00790_FOLATE_BIOSYNTHESIS	26	0.37984678	1.0155827	0.45235708	0.5597245	1	2665	tags=23%, list=16%, signal=27%
HSA00150_ANDROGEN_AND_ESTROGEN_METABOLISM	25	0.3811854	1.0142686	0.46346346	0.5580173	1	6538	tags=48%, list=38%, signal=78%
HSA00251_GLUTAMATE_METABOLISM	24	0.38369846	1.0110688	0.48797596	0.5612354	1	8394	tags=58%, list=49%, signal=114%
HSA00190_OXIDATIVE_PHOSPHORYLATION	93	0.3364654	0.9997752	0.505	0.58541954	1	8184	tags=54%, list=48%, signal=103%
HSA00380_TRYPTOPHAN_METABOLISM	39	0.35944122	0.99679154	0.5035035	0.5879829	1	9576	tags=74%, list=56%, signal=169%
HSA04664_FC_EPSILON_RI_SIGNALING_PATHWAY	50	0.3489252	0.9854174	0.526	0.6116664	1	5566	tags=38%, list=33%, signal=56%
HSA04120_UBIQUITIN_MEDIATED_PROTEOLYSIS	31	0.3615152	0.98222494	0.5375375	0.614196	1	8438	tags=65%, list=49%, signal=127%

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HSA00760_NICOTINATE_AND_NICOTINAMIDE_METABOLISM	15	0.38868994	0.9707608	0.5301328	0.63615847	1	7953	tags=67%, list=46%, signal=124%
HSA00252_ALANINE_AND_ASPARTATE_METABOLISM	25	0.35627496	0.9502565	0.5885312	0.67885315	1	4434	tags=32%, list=26%, signal=43%
HSA00565_ETHER_LIPID_METABOLISM	21	0.3655664	0.9490691	0.5751766	0.6757015	1	5425	tags=43%, list=32%, signal=63%
HSA03030_DNA_POLYMERASE	22	0.35984904	0.93507636	0.6124498	0.7019749	1	6262	tags=41%, list=37%, signal=64%
HSA04930_TYPE_II_DIABETES_MELLITUS	30	0.34571695	0.92517215	0.63791376	0.7178057	1	6061	tags=37%, list=35%, signal=57%
HSA04920_ADIPOCYTOKINE_SIGNALING_PATHWAY	59	0.3226231	0.92401624	0.682	0.71409696	1	6064	tags=42%, list=35%, signal=65%
HSA03320_PPAR_SIGNALING_PATHWAY	50	0.32424808	0.91490173	0.67	0.72744626	1	4251	tags=30%, list=25%, signal=40%
HSA00230_PURINE_METABOLISM	110	0.29675743	0.8878375	0.814	0.77489835	1	7520	tags=47%, list=44%, signal=84%
HSA04730_LONG_TERM_DEPRESSION	42	0.29910254	0.83319265	0.8138138	0.8611629	1	7180	tags=45%, list=42%, signal=78%
HSA04330_NOTCH_SIGNALING_PATHWAY	29	0.30814403	0.8310314	0.7775551	0.85742116	1	9963	tags=69%, list=58%, signal=165%
HSA00510_N_GLYCAN_BIOSYNTHESIS	32	0.30207595	0.82278144	0.8002008	0.8624969	1	11036	tags=84%, list=65%, signal=237%
HSA00500_STARCH_AND_SUCROSE_METABOLISM	42	0.28897166	0.81535405	0.851	0.8651783	1	2481	tags=17%, list=15%, signal=19%
HSA00530_AMINOSUGARS_METABOLISM	23	0.3110353	0.81325334	0.7985901	0.86104095	1	1619	tags=13%, list=9%, signal=14%
HSA03050_PROTEASOME	19	0.25052726	0.64584565	0.94630194	0.9841483	1	6401	tags=32%, list=37%, signal=50%
HSA04130_SNARE_INTERACTIONS_IN_VESICULAR_TRANSPORT	27	0.22693495	0.6116416	0.95983934	0.9872813	1	9906	tags=59%, list=58%, signal=141%
HSA03010_RIBOSOME	60	0.20377153	0.58369076	0.996	0.9860431	1	10634	tags=60%, list=62%, signal=158%