

Single-cell transcriptomes reveal characteristic features of Mouse Hepatocytes with Cholestasis Injury

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Supplemental Table 3: High expressed genes of BDL-6 (Related to Figure 4)

Top 200 hige expressed genes of BDL-6

Gene Group	EnsemblID	GeneName	Cluster 1 Average	Cluster 1 Log2 Fold Change	Cluster 1 P-Value	Cluster 2 Average	Cluster 2 Log2 Fold Change	Cluster 2 P-Value	Cluster 3 Average	Cluster 3 Log2 Fold Change	Cluster 3 P-Value	Cluster 4 Average	Cluster 4 Log2 Fold Change	Cluster 4 P-Value	Cluster 5 Average	Cluster 5 Log2 Fold Change	Cluster 5 P-Value	Cluster 6 Average	Cluster 6 Log2 Fold Change	Cluster 6 P-Value
Group 1	ENSMUSG00000039167	Adgrl4	0.057549	-4.7628	1.45E-12	0.079169	-4.10188	1.30E-03	0.026784	-5.72084	1.10E-10	0.05536	-4.69239	1.33E-07	0.056994	-4.69961	2.13E-09	7.730521	7.16226	4.63E-64
	ENSMUSG00000051855	Mest	0.010156	-4.68855	8.71E-08	0.013195	-3.97297	1.96E-02	0.007653	-4.88755	4.84E-06	0.01384	-4.1447	2.27E-04	0.012213	-4.35995	2.32E-05	1.626105	7.086081	3.88E-40
	ENSMUSG00000058396	Gpr182	0.023697	-5.15241	1.58E-12	0.046182	-4.01805	2.44E-03	0.03061	-4.76134	2.14E-08	0.032293	-4.60856	6.48E-07	0.044781	-4.2334	1.28E-07	4.469615	6.992164	1.03E-57
	ENSMUSG00000032125	Robo4	0.010156	-4.74008	2.05E-10	0.013195	-4.02437	3.26E-03	0.007653	-4.93895	7.78E-08	0.009227	-4.61488	2.17E-06	0.028497	-3.39695	1.37E-05	1.673932	6.847683	3.74E-52
	ENSMUSG00000056492	Adgrf5	0.027082	-5.11107	1.29E-13	0.052779	-3.97671	1.33E-03	0.03061	-4.89128	2.66E-09	0.032293	-4.73838	8.64E-08	0.073278	-3.69198	4.44E-07	4.865271	6.828116	2.31E-61
	ENSMUSG00000062960	Kdr	0.06432	-5.34015	3.31E-15	0.059377	-5.21056	7.57E-05	0.080352	-4.98191	6.15E-10	0.087653	-4.7963	2.55E-08	0.146555	-4.11589	2.11E-08	12.77405	7.149553	7.82E-68
	ENSMUSG00000041378	Cldn5	0.037238	-5.02564	2.97E-13	0.032987	-4.8972	2.35E-04	0.045915	-4.68939	6.85E-09	0.050747	-4.48179	3.24E-07	0.069207	-4.10613	6.49E-08	6.143546	6.975366	6.24E-62
	ENSMUSG00000054690	Emcn	0.010156	-4.92321	1.56E-10	0.006597	-4.7952	1.34E-03	0.011479	-4.70342	2.02E-07	0.009227	-4.79758	2.07E-06	0.020355	-4.00326	1.87E-06	1.917413	7.223701	3.50E-53
	ENSMUSG00000044562	Rasip1	0.023697	-4.48786	5.38E-11	0.013195	-4.77926	6.03E-04	0.026784	-4.26807	1.34E-07	0.018453	-4.62852	4.97E-07	0.036639	-3.83301	6.05E-07	2.813075	6.775649	2.09E-56
	ENSMUSG00000003411	Rab3b	0.013541	-4.34015	1.91E-07	0.006597	-4.53913	9.17E-03	0.015305	-4.12037	2.35E-05	0.01384	-4.12204	1.83E-04	0.032568	-3.14821	8.12E-04	1.569583	6.450218	3.41E-37
	ENSMUSG00000022579	Gpihbp1	0.060934	-4.81625	6.83E-13	0.052779	-4.7671	2.81E-04	0.084178	-4.31794	3.16E-08	0.046133	-5.06666	2.08E-08	0.077349	-4.41293	8.21E-09	8.42618	6.978384	9.47E-63
	ENSMUSG00000037010	Apln	0.010156	-4.45299	2.08E-04	0.006597	-4.32742	1.51E-01	0.011479	-4.2332	3.70E-03	0.009227	-4.32858	1.18E-02	0.012213	-4.12438	7.10E-03	1.378276	6.955132	3.43E-23
	ENSMUSG00000074491	Clec4g	0.074475	-4.75183	5.69E-12	0.072572	-4.56291	7.90E-04	0.107136	-4.19388	1.56E-07	0.101493	-4.20798	2.03E-06	0.101775	-4.24448	7.94E-08	9.678368	6.695391	3.83E-56
	ENSMUSG00000001946	Esam	0.020311	-5.04737	5.08E-13	0.039585	-3.91301	1.75E-03	0.038263	-4.16882	8.02E-08	0.023067	-4.72758	1.48E-07	0.056994	-3.60581	9.75E-07	3.60004	6.6456	7.20E-58
	ENSMUSG00000052921	Arhgef15	0.013541	-4.34015	6.29E-10	0.013195	-3.95037	2.84E-03	0.022958	-3.62729	3.23E-06	0.009227	-4.54088	1.78E-06	0.020355	-3.7447	2.25E-06	1.573931	6.524587	4.30E-51
	ENSMUSG000000034684	Sema3f	0.020311	-4.35318	3.78E-10	0.02639	-3.70964	4.65E-03	0.038263	-3.47047	6.34E-06	0.023067	-4.03442	6.75E-06	0.036639	-3.50188	5.58E-06	2.195677	6.1964	2.01E-48
	ENSMUSG00000001240	Ramp2	0.023697	-5.35487	2.49E-14	0.052779	-4.0494	1.14E-03	0.065047	-3.95331	1.55E-07	0.0692	-3.80154	3.85E-06	0.04071	-4.56329	3.07E-09	5.091361	6.679465	7.76E-60
	ENSMUSG00000009654	Oit3	0.016926	-4.30278	2.24E-09	0.019792	-3.7599	6.57E-03	0.026784	-3.66142	6.57E-06	0.02768	-3.53327	8.29E-05	0.020355	-3.97418	1.81E-06	1.826107	6.305478	2.38E-46
	ENSMUSG00000027358	Bmp2	0.027082	-4.25634	8.73E-09	0.046182	-3.29416	2.12E-02	0.034437	-3.88231	6.57E-06	0.046133	-3.41849	2.64E-04	0.028497	-4.09991	3.09E-06	2.643508	6.20067	2.10E-42
	ENSMUSG00000044258	Ctla2a	0.088016	-4.81154	4.11E-13	0.131949	-4.0428	1.30E-03	0.160704	-3.9122	2.04E-07	0.239893	-3.28134	5.15E-05	0.227975	-3.38956	3.28E-06	11.561	6.097848	3.59E-52
	ENSMUSG00000025964	Adam23	0.033852	-4.3598	4.88E-10	0.039585	-3.88434	4.20E-03	0.053568	-3.68569	3.63E-06	0.087653	-2.93797	5.85E-04	0.056994	-3.57687	6.50E-06	3.430473	5.968398	1.25E-44
	ENSMUSG00000025608	Podxl	0.027082	-4.25634	3.25E-09	0.02639	-3.97894	4.94E-03	0.022958	-4.40362	5.33E-07	0.004613	-5.89806	1.30E-07	0.028497	-4.09991	1.36E-06	2.708726	6.873204	1.07E-50
	ENSMUSG00000041445	Mmrn2	0.033852	-5.42095	3.83E-13	0.052779	-4.57773	1.11E-03	0.049742	-4.85078	1.92E-08	0.018453	-6.01951	6.26E-09	0.048852	-4.8497	8.54E-09	7.482692	7.507596	3.98E-62
	ENSMUSG00000046916	Myct1	0.027082	-4.34354	4.50E-10	0.039585	-3.57598	6.90E-03	0.042089	-3.70236	2.80E-06	0.009227	-5.39729	1.27E-07	0.028497	-4.18698	2.94E-07	2.847858	6.570958	1.37E-51
	ENSMUSG00000033191	Tie1	0.020311	-4.10947	8.36E-10	0.02639	-3.46692	5.46E-03	0.03061	-3.5207	3.19E-06	0.009227	-4.80075	4.45E-07	0.032568	-3.41188	5.32E-06	1.86089	6.229542	1.44E-50
	ENSMUSG00000000093	Tbx2	0.016926	-4.02663	2.66E-08	0.019792	-3.48512	1.14E-02	0.011479	-4.39969	1.05E-06	0.004613	-5.08347	1.91E-06	0.024426	-3.47168	2.75E-05	1.526104	6.554193	2.77E-46
	ENSMUSG000000004655	Aqp1	0.233582	-4.29164	3.49E-12	0.250702	-4.00987	9.11E-04	0.19514	-4.50577	2.66E-09	0.1384	-4.93383	5.78E-09	0.341962	-3.67869	2.00E-07	21.36111	6.512614	1.08E-61
	ENSMUSG00000038007	Acer2	0.033852	-3.97803	2.06E-08	0.032987	-3.72925	8.59E-03	0.015305	-4.90907	1.20E-07	0.018453	-4.585	4.16E-06	0.032568	-3.94339	3.46E-06	2.717421	6.632708	5.83E-48
	ENSMUSG00000026921	Egfl7	0.216656	-3.69677	2.56E-10	0.178131	-3.7943	1.11E-03	0.126267	-4.42604	2.66E-09	0.092267	-4.80301	6.48E-09	0.175052	-3.94071	1.65E-08	13.13928	6.349866	3.32E-61
	ENSMUSG00000028763	Hspg2	0.108328	-3.02267	7.55E-08	0.059377	-3.64355	1.68E-03	0.107136	-2.99506	7.74E-06	0.046133	-4.09515	4.13E-07	0.101775	-3.04808	6.50E-06	4.034827	5.487978	4.70E-48
	ENSMUSG00000046470	Sox18	0.00677	-5.00272	1.17E-09	0.019792	-3.4493	1.66E-02	0.011479	-4.36387	2.17E-06	0.004613	-5.04784	4.34E-06	0.016284	-3.92909	9.23E-06	1.508712	6.978278	7.14E-47
	ENSMUSG00000042807	Hecw2	0.00677	-5.29295	5.99E-12	0.039585	-2.923	1.92E-02	0.015305	-4.32962	2.30E-07	0.009227	-4.7491	8.82E-07	0.024426	-3.72875	2.05E-06	1.826107	6.668048	7.60E-53
	ENSMUSG00000034911	Ushbp1	0.003385	-5.0187	3.33E-09	0.013195	-3.29341	2.00E-02	0.003826	-4.79892	1.31E-06	0.004613	-4.47485	2.38E-05	0.012213	-3.67813	2.77E-05	1.017403	7.049281	7.36E-46
	ENSMUSG00000027955	Fam198b	0.00677	-4.53724	1.92E-08	0.02639	-2.65478	6.74E-02	0.011479	-3.89687	1.57E-05	0.01384	-3.5728	2.53E-04	0.024426	-2.96388	4.71E-04	1.056533	6.025499	2.19E-38
	ENSMUSG00000020154	Ptprb	0.07109	-3.64041	3.09E-09	0.131949	-2.57457	3.20E-02	0.068873	-3.63635	8.04E-07	0.0692	-3.56442	1.17E-05	0.093633	-3.18345	8.22E-06	4.117437	5.616723	2.76E-46
	ENSMUSG00000036185	Sapcd1	0.013541	-3.97758	1.35E-03	0.02639	-2.84322	5.38E-01	0.003826	-5.09438	1.72E-03	0.009227	-4.18048	2.35E-02	0.016284	-3.64898	2.71E-02	1.226101	6.487347	1.72E-19

ENSMUSG00000032135	Mcam	0.016926	-3.51488	5.31E-06	0.02639	-2.64918	9.49E-02	0.007653	-4.3119	1.54E-05	0.004613	-4.57836	6.42E-05	0.016284	-3.45493	2.39E-04	1.060881	6.191864	7.94E-36
ENSMUSG00000000317	Bcl6b	0.020311	-3.88494	4.28E-08	0.039585	-2.75058	3.94E-02	0.011479	-4.48368	6.64E-07	0.01384	-4.15962	1.81E-05	0.048852	-2.64065	7.87E-04	1.569583	5.888339	4.58E-41
ENSMUSG00000029648	Flt1	0.010156	-4.69975	3.57E-07	0.02639	-3.23974	8.07E-02	0.011479	-4.47997	3.78E-05	0.032293	-3.14095	5.68E-03	0.036639	-3.02674	3.21E-03	1.582626	6.099554	1.44E-30
ENSMUSG00000049807	Arhgap23	0.06432	-2.88644	5.00E-07	0.092364	-2.18012	6.61E-02	0.061221	-2.90894	2.12E-05	0.08304	-2.4192	1.30E-03	0.142484	-1.6674	1.77E-02	2.034805	4.529633	2.05E-33
ENSMUSG00000040283	Btnl9	0.013541	-3.78354	1.51E-06	0.013195	-3.39733	3.29E-02	0.007653	-4.3119	1.54E-05	0.023067	-2.97103	2.78E-03	0.008142	-4.20308	2.53E-05	1.065229	6.285204	2.07E-36
ENSMUSG00000029762	Akr1b8	0.040623	-3.55422	4.52E-08	0.032987	-3.55295	6.90E-03	0.034437	-3.72052	2.33E-06	0.050747	-3.12837	2.11E-04	0.020355	-4.3587	1.51E-07	2.343504	5.99324	6.48E-46
ENSMUSG00000053062	Jam2	0.013541	-4.59169	3.64E-07	0.006597	-4.78885	1.20E-02	0.022958	-3.88006	1.40E-04	0.009227	-4.79121	1.20E-04	0.008142	-5.00645	9.94E-06	1.904369	7.120766	8.00E-38
ENSMUSG00000036256	Igfbp7	0.771836	-2.71879	3.16E-07	0.659743	-2.79787	9.94E-03	1.02927	-2.25084	3.16E-04	0.85808	-2.47797	4.60E-04	0.643215	-2.93434	5.04E-06	21.36111	4.725788	9.86E-15
ENSMUSG00000022469	Rapgef3	0.020311	-3.81605	4.66E-08	0	-5.51237	6.39E-04	0.015305	-4.08951	1.83E-06	0.009227	-4.51019	5.71E-06	0.020355	-3.71375	7.63E-06	1.547843	6.652544	3.37E-48
ENSMUSG00000041134	Cyrr1	0.023697	-3.95471	5.13E-09	0.006597	-4.83892	8.94E-04	0.03061	-3.56188	5.41E-06	0.032293	-3.41086	7.43E-05	0.024426	-3.82186	1.82E-06	1.913065	6.220433	7.40E-48
ENSMUSG00000073599	Ecscr	0.023697	-3.79333	8.64E-08	0.006597	-4.67973	2.17E-03	0.015305	-4.26203	1.61E-06	0.02768	-3.4456	1.92E-04	0.028497	-3.46472	3.10E-05	1.71741	6.271606	8.97E-44
ENSMUSG00000026399	Cd55	0.06432	-3.22293	1.55E-07	0.019792	-4.44324	9.36E-04	0.026784	-4.3497	8.02E-08	0.050747	-3.43251	3.95E-05	0.073278	-2.97039	4.76E-05	2.856553	5.82199	2.38E-46
ENSMUSG00000028776	Tinagl1	0.230197	-2.69695	2.45E-06	0.065974	-4.26094	6.24E-04	0.080352	-4.1663	3.20E-08	0.05536	-4.60877	7.64E-08	0.073278	-4.2715	8.06E-09	6.991382	5.97227	3.12E-52
ENSMUSG00000040605	Bace2	0.040623	-2.63302	2.80E-05	0.013195	-3.66129	7.58E-03	0.011479	-4.15618	1.54E-06	0.009227	-4.2518	1.26E-05	0.024426	-3.22598	5.64E-05	1.24784	5.812175	2.88E-41
ENSMUSG00000020357	Flt4	0.07109	-2.97356	1.09E-06	0.032987	-3.74902	3.62E-03	0.034437	-3.91788	6.64E-07	0.046133	-3.45411	4.51E-05	0.036639	-3.80906	9.60E-07	2.656551	5.818717	1.57E-45
ENSMUSG00000032766	Gng11	0.331754	-3.19883	1.06E-08	0.171533	-3.96923	6.12E-04	0.206619	-3.84563	3.77E-08	0.22144	-3.69073	1.36E-06	0.284969	-3.36169	5.56E-07	13.88711	5.76997	9.98E-54
ENSMUSG00000020176	Grb10	0.067705	-2.1873	2.04E-04	0.02639	-3.18658	1.26E-02	0.034437	-3.08169	3.87E-05	0.032293	-3.08737	2.44E-04	0.024426	-3.49916	7.77E-06	1.434799	5.158788	5.51E-37
ENSMUSG00000027210	Meis2	0.084631	-2.0859	3.11E-04	0.013195	-4.14539	1.96E-03	0.019131	-4.04998	5.38E-07	0.032293	-3.30418	8.20E-05	0.044781	-2.92098	7.14E-05	1.678279	5.266454	2.68E-39
ENSMUSG00000007039	Ddah2	0.128639	-2.36133	1.55E-05	0.072572	-2.97857	9.46E-03	0.049742	-3.66703	3.34E-07	0.078427	-2.9729	8.96E-05	0.134342	-2.24028	8.30E-04	2.926119	4.919115	1.74E-39
ENSMUSG00000049804	Armxc4	0	-7.28471	4.15E-14	0.072572	-2.53786	6.12E-02	0.022958	-4.24263	6.85E-07	0.01384	-4.73341	1.78E-06	0.044781	-3.34362	2.73E-05	2.391331	6.448598	7.43E-48
ENSMUSG00000040732	Erg	0.003385	-5.22912	8.82E-11	0.019792	-3.08442	1.70E-02	0.015305	-3.67187	6.25E-06	0.009227	-4.09515	1.39E-05	0.056994	-1.92504	9.93E-03	1.113056	5.704458	8.87E-42
ENSMUSG00000050493	Fam167b	0.016926	-5.82435	1.18E-15	0.118754	-3.01217	1.11E-02	0.10331	-3.35695	2.39E-06	0.02768	-5.05697	1.74E-08	0.048852	-4.37229	6.45E-09	5.239189	6.470179	4.17E-58
ENSMUSG00000011263	Exoc3l2	0.003385	-5.55105	2.95E-11	0.02639	-3.08234	1.94E-02	0.038263	-2.83425	1.84E-04	0.01384	-3.99893	2.38E-05	0.024426	-3.39434	2.64E-05	1.417407	6.05198	1.38E-43
ENSMUSG00000024065	Ehd3	0.033852	-4.84008	1.11E-11	0.184728	-2.28492	9.36E-02	0.118615	-3.05373	4.49E-05	0.08304	-3.49789	5.23E-05	0.118058	-3.04052	6.65E-05	4.647878	5.53572	9.07E-41
ENSMUSG000000045377	Tmem88	0.00677	-4.9285	2.80E-10	0.032987	-2.7814	3.20E-02	0.015305	-3.96327	2.39E-06	0.004613	-4.97384	1.72E-06	0.032568	-2.98933	1.28E-04	1.400016	6.285762	6.48E-46
ENSMUSG00000024168	Tmem204	0.010156	-4.58768	1.88E-10	0.052779	-2.26316	7.07E-02	0.034437	-3.02165	3.49E-05	0.009227	-4.46288	2.03E-06	0.056994	-2.30729	1.34E-03	1.413059	5.481964	1.33E-41
ENSMUSG00000013076	Amotl1	0.016926	-4.43374	7.08E-11	0.032987	-3.29938	6.81E-03	0.042089	-3.19596	9.70E-06	0.01384	-4.4808	7.36E-07	0.048852	-2.96864	3.33E-05	1.965239	5.956603	4.45E-49
ENSMUSG00000045930	Clec14a	0.010156	-4.16593	8.96E-08	0.019792	-3.03157	3.70E-02	0.026784	-2.92445	3.75E-04	0.009227	-4.04249	7.99E-05	0.024426	-3.01373	4.10E-04	1.082621	5.849042	9.85E-37
ENSMUSG00000025666	Tmem47	0.016926	-3.67475	1.11E-07	0.032987	-2.54039	5.19E-02	0.038263	-2.55505	6.52E-04	0.009227	-4.14595	1.74E-05	0.032568	-2.74597	4.47E-04	1.130447	5.416399	2.41E-37
ENSMUSG00000004891	Nes	0.003385	-5.59968	4.90E-11	0.039585	-2.63791	5.25E-02	0.053568	-2.42025	1.49E-03	0.004613	-5.05584	2.03E-06	0.036639	-2.91692	2.65E-04	1.439146	5.717729	3.80E-39
ENSMUSG00000022468	Endou	0	-6.25971	1.46E-09	0.006597	-4.1203	1.59E-02	0.011479	-4.02472	4.32E-05	0.018453	-3.37361	1.31E-03	0.004071	-4.92606	5.29E-06	1.200013	7.134503	3.49E-40
ENSMUSG00000062515	Fabp4	0.081246	-5.39556	2.37E-14	0.197923	-3.94866	2.44E-03	0.187488	-4.16657	1.33E-07	0.40136	-3.01281	3.01E-04	0.199478	-4.05775	1.55E-07	16.13931	6.294168	3.59E-52
ENSMUSG00000040624	Plekhg1	0.003385	-5.68104	1.77E-12	0.013195	-3.95795	2.44E-03	0.038263	-2.96752	3.97E-05	0.04152	-2.78481	5.15E-04	0.020355	-3.75233	1.68E-06	1.547843	6.015115	2.00E-47
ENSMUSG00000068735	Trp53i11	0.013541	-4.13106	2.70E-09	0.046182	-2.30533	6.37E-02	0.049742	-2.38559	7.36E-04	0.046133	-2.42299	2.31E-03	0.032568	-2.9367	7.89E-05	1.252188	5.09135	6.92E-37
ENSMUSG00000059588	Calclr	0.013541	-4.61711	1.22E-09	0.079169	-2.07882	1.52E-01	0.084178	-2.13786	5.52E-03	0.073813	-2.26943	9.58E-03	0.056994	-2.6717	8.48E-04	1.708715	4.856217	2.53E-30
ENSMUSG000000020689	Itgb3	0.013541	-4.13106	1.68E-08	0.052779	-2.13095	1.23E-01	0.076526	-1.76851	2.17E-02	0.078427	-1.68069	6.06E-02	0.044781	-2.5082	1.53E-03	1.173926	4.494101	4.56E-27
ENSMUSG00000020674	Pxdn	0.00677	-4.5483	2.01E-09	0.013195	-3.41394	1.07E-02	0.03061	-2.71013	2.59E-04	0.01384	-3.5839	7.31E-05	0.024426	-2.97511	1.33E-04	1.052186	5.80807	1.03E-41
ENSMUSG00000048960	Prex2	0.023697	-3.31901	8.41E-07	0.02639	-2.87717	3.19E-02	0.049742	-2.26253	2.69E-03	0.032293	-2.77516	1.47E-03	0.036639	-2.65876	7.89E-04	1.147839	5.034986	9.11E-33
ENSMUSG00000021759	Plpp1	0.074475	-4.71519	1.33E-13	0.197923	-3.14507	6.94E-03	0.183662	-3.38753	1.26E-06	0.15224	-3.60038	4.45E-06	0.24833	-2.93078	1.94E-05	9.052274	5.759806	6.45E-51
ENSMUSG00000024538	Ppic	0.020311	-4.05071	1.38E-09	0.039585	-2.91635	1.66E-02	0.045915	-2.91771	4.49E-05	0.064587	-2.38042	2.45E-03	0.08142	-2.08973	3.67E-03	1.652192	5.033693	3.16E-37
ENSMUSG00000018593	Sparc	0.575492	-4.05526	2.49E-13	1.233719	-2.78185	7.97E-03	1.49225	-2.61208	2.12E-05	1.642346	-2.42397	4.25E-04	1.766806	-2.34329	1.71E-04	40.1874	4.930151	9.86E-15
ENSMUSG00000006386	Tek	0.013541	-4.10434	6.73E-09	0.052779	-2.10389	1.02E-01	0.011479	-4.21097	8.37E-07	0	-5.90029	2.09E-07	0.020355	-3.5082	1.11E-05	1.321754	6.203037	3.22E-46
ENSMUSG00000024754	Tmem2	0.196344	-2.23261	1.40E-05	0.270495	-1.61208	1.76E-01	0.206619	-2.11968	5.24E-04	0.073813	-3.54133	1.56E-06	0.211691	-2.06707	1.07E-03	3.786999	4.316458	2.84E-34
ENSMUSG00000070348	Ccnd1	0.622885	-2.1081	8.33E-06	0.92364	-1.38674	2.29E-01	0.635163	-2.04469	2.77E-04	0.507466	-2.33664	2.38E-04	1.127662	-1.14615	8.82E-02	9.926197	3.721959	6.85E-29
ENSMUSG00000002504	Slc9a3r2	0.121869	-2.3354	6.91E-06	0.237507	-1.20104	4.17E-01	0.19514	-1.59325	1.09E-02	0.101493	-2.50613	3.42E-04	0.236117	-1.28734	6.57E-02	2.300026	3.720112	1.13E-25

ENSMUSG00000022475	Hdac7	0.115098	-1.25133	2.16E-02	0.105559	-1.23996	4.18E-01	0.053568	-2.34385	4.05E-04	0.092267	-1.50797	5.03E-02	0.08142	-1.72322	1.26E-02	1.04349	3.541333	1.89E-21
ENSMUSG00000066571	4931406P1 6Rik	0.2065	-1.30046	8.50E-03	0.211118	-1.1475	4.10E-01	0.114788	-2.15708	2.63E-04	0.12456	-1.98704	2.81E-03	0.16691	-1.58349	1.14E-02	1.908717	3.539086	8.71E-25
ENSMUSG00000054263	Lifr	0.399459	-0.95991	9.85E-02	0.158338	-2.22551	5.78E-02	0.210446	-1.92913	3.48E-03	0.19376	-2.00624	7.32E-03	0.175052	-2.18679	1.30E-03	3.039164	3.649242	3.21E-22
ENSMUSG00000025790	Slco3a1	0.2065	-1.19549	2.26E-02	0.072572	-2.56043	1.81E-02	0.126267	-1.91672	2.22E-03	0.175307	-1.38172	6.74E-02	0.134342	-1.8079	5.78E-03	1.80002	3.572051	3.19E-23
ENSMUSG00000032966	Fkbp1a	2.247803	-0.92107	4.18E-02	1.319486	-1.6487	7.32E-02	1.446335	-1.59767	2.01E-03	2.195946	-0.91317	1.94E-01	1.774948	-1.26653	2.56E-02	13.95233	2.917575	9.86E-15
ENSMUSG00000020315	Sptbn1	0.958024	-0.71662	1.40E-01	0.508002	-1.60786	9.13E-02	0.497417	-1.73462	9.62E-04	0.516693	-1.63743	6.05E-03	0.769415	-1.04373	9.92E-02	5.360929	2.982459	1.77E-20
ENSMUSG00000039081	Zfp503	0.013541	-3.844	2.97E-07	0.006597	-4.04763	7.91E-03	0.007653	-4.37191	3.54E-06	0.023067	-3.03172	1.17E-03	0.052923	-1.98069	1.96E-02	1.069577	5.590617	5.24E-35
ENSMUSG00000063415	Cyp26b1	0.003385	-5.26976	7.28E-08	0	-5.14041	8.59E-03	0.007653	-4.46	3.74E-05	0.018453	-3.38888	2.56E-03	0.016284	-3.60413	4.82E-04	1.204361	6.876668	1.91E-35
ENSMUSG00000074785	Plxnc1	0.044008	-4.21432	6.57E-10	0.039585	-4.09034	2.44E-03	0.061221	-3.70997	2.39E-06	0.147627	-2.4049	3.99E-03	0.142484	-2.49006	1.06E-03	3.826129	5.439187	2.04E-39
ENSMUSG00000020044	Timp3	0.044008	-4.00673	6.49E-10	0.059377	-3.36465	7.04E-03	0.049742	-3.78695	7.39E-07	0.17992	-1.90295	1.83E-02	0.08142	-3.08109	2.55E-05	3.295689	5.34079	6.12E-41
ENSMUSG00000004044	Ptrf	0.081246	-2.60319	3.27E-06	0.105559	-2.04544	8.52E-02	0.099483	-2.26728	5.60E-04	0.17992	-1.34259	9.32E-02	0.150626	-1.63705	2.02E-02	1.947848	3.99339	7.59E-27
ENSMUSG00000071042	Rasgrp3	0.037238	-3.76043	2.50E-09	0.006597	-5.23461	1.94E-04	0.011479	-5.1445	3.27E-09	0.147627	-1.70635	3.20E-02	0.061065	-3.00725	2.61E-05	2.41307	5.48435	5.86E-44
ENSMUSG00000029581	Fscn1	0.016926	-4.2428	2.08E-09	0.032987	-3.10844	1.72E-02	0.011479	-4.61477	1.81E-07	0.147627	-1.14459	2.43E-01	0.052923	-2.66432	4.41E-04	1.608713	4.995322	3.50E-34
ENSMUSG00000072235	Tuba1a	0.148951	-2.53872	3.91E-06	0.145143	-2.40481	3.40E-02	0.118615	-2.82988	2.12E-05	0.438266	-0.82434	4.35E-01	0.256472	-1.67361	1.64E-02	3.321776	3.922005	5.46E-26
ENSMUSG00000017309	Cd300lg	0.010156	-4.25466	7.15E-09	0.013195	-3.54039	9.53E-03	0.007653	-4.45497	7.77E-07	0.0692	-1.64875	5.52E-02	0.069207	-1.68346	3.44E-02	1.078273	4.980763	4.70E-33
ENSMUSG00000054435	Gimap4	0.057549	-4.29076	6.54E-13	0.098961	-3.32852	2.43E-03	0.088005	-3.64934	8.42E-08	0.29064	-1.86547	9.00E-03	0.370459	-1.52496	2.50E-02	4.878315	4.761586	6.27E-40
ENSMUSG00000032035	Ets1	0.081246	-3.66909	1.71E-10	0.131949	-2.79112	1.07E-02	0.130094	-2.95167	6.34E-06	0.336773	-1.49882	4.71E-02	0.301253	-1.69344	1.19E-02	4.282656	4.467954	6.05E-35
ENSMUSG00000047867	Gimap6	0.010156	-5.29213	1.61E-13	0.032987	-3.56787	0.002655	0.049742	-3.24012	4.14E-06	0.2076	-1.11724	0.199541	0.109916	-2.09574	0.001997	2.14785	4.739385	1.85E-36
ENSMUSG00000030653	Pde2a	0.050779	-4.12359	7.81E-13	0.131949	-2.58997	0.012015	0.126267	-2.79118	6.57E-06	0.350613	-1.22584	0.103763	0.346033	-1.2683	0.065148	3.591344	4.188943	2.08E-33
ENSMUSG00000043505	Gimap5	0.010156	-4.43969	9.65E-09	0.02639	-2.97894	0.033634	0.034437	-2.87101	0.000331	0.133787	-0.86827	0.485864	0.113987	-1.13726	0.279124	1.100012	4.121921	4.12E-22
ENSMUSG00000022440	C1qtnf6	0.037238	-2.75328	4.96E-06	0.019792	-3.2416	0.009936	0.049742	-2.30152	0.001035	0.101493	-1.2173	0.163796	0.122129	-0.9617	0.306073	1.013055	3.891126	8.73E-24
ENSMUSG00000038587	Akap12	0.016926	-4.19083	1.76E-08	0.032987	-3.05647	0.030249	0.026784	-3.54894	2.43E-05	0.106107	-1.58205	0.096036	0.016284	-4.12879	3.4E-06	1.604366	5.382218	1.47E-34
ENSMUSG00000032060	Cryab	0.077861	-1.90719	0.014488	0.105559	-1.30008	0.741581	0.141572	-0.96305	0.528018	0.147627	-0.86474	0.635226	0.069207	-2.01917	0.057339	1.013055	3.235774	2.31E-10
ENSMUSG000000067925	Cxx1a	0.192959	-1.46344	0.002064	0.151741	-1.68201	0.100581	0.214272	-1.27117	0.034679	0.419813	-0.16942	1	0.219833	-1.2187	0.05845	1.617409	2.74617	1.24E-15
ENSMUSG00000024074	Crim1	0.260664	-1.14311	0.016898	0.448625	-0.20568	1	0.290797	-0.94419	0.16199	0.156853	-1.84877	0.00365	0.240188	-1.23285	0.052083	1.760889	2.708817	2.74E-15
ENSMUSG00000079018	Ly6c1	0.088016	-3.3006	2.84E-05	0.059377	-3.62369	0.038539	0.022958	-5.05712	1.84E-06	0.80272	0.172414	0.919512	0.044781	-4.16356	3.72E-05	3.443516	4.147318	3.86E-17
ENSMUSG00000019647	Sema6a	0.088016	-1.72433	0.002831	0.019792	-3.44121	0.007852	0	-6.3679	2.66E-09	0.023067	-3.43863	6.74E-05	0.016284	-3.92098	1.3E-06	1.39132	5.383716	1.05E-39
ENSMUSG00000045092	S1pr1	0.368992	-0.27268	0.775406	0.046182	-3.18948	0.003803	0.011479	-5.11368	6.15E-10	0.09688	-2.28638	0.001133	0.073278	-2.72053	2.64E-05	1.939152	3.833937	5.68E-27
ENSMUSG00000024501	Dpysl3	0.14218	-1.18533	0.040377	0.019792	-3.62369	0.004604	0.022958	-3.72016	1.73E-06	0.078427	-1.9934	0.012015	0.077349	-2.04922	0.004666	1.386972	4.205186	3.55E-27
ENSMUSG000000000058	Cav2	0.162492	-0.81156	0.171969	0.039585	-2.66195	0.02426	0.026784	-3.3799	4.75E-06	0.0692	-2.0236	0.008058	0.097704	-1.55783	0.031244	1.16523	3.75594	2.59E-23
ENSMUSG00000007655	Cav1	0.07109	-1.84986	0.03192	0.006597	-4.26926	0.040227	0.03061	-2.9816	0.005427	0.170693	-0.43735	1	0.065136	-1.91739	0.123134	1.013055	3.820737	1.77E-12
ENSMUSG00000020186	Csrp2	0.541639	-0.38547	0.722916	0.039585	-4.03311	0.005041	0.076526	-3.34105	3.46E-05	0.37368	-0.95333	0.452713	0.321607	-1.20753	0.24824	2.600029	3.13031	1.16E-12
ENSMUSG00000058254	Tspan7	0.081246	-3.10883	7.9E-07	0.059377	-3.32303	0.010666	0.011479	-5.57006	2.66E-09	0.01384	-5.24599	1.36E-07	0.048852	-3.74499	2.05E-06	3.378298	6.245876	1.04E-48
ENSMUSG00000021944	Gata4	0.084631	-1.90322	0.001454	0.039585	-2.73555	0.033616	0.015305	-4.14309	1.11E-06	0.01384	-4.1447	1.05E-05	0.012213	-4.35995	4.11E-07	1.504365	5.389164	4.23E-38
ENSMUSG000000031503	Col4a2	0.240352	-1.81713	0.000488	0.118754	-2.68334	0.01352	0.141572	-2.57024	5.04E-05	0.046133	-4.07384	2.4E-07	0.097704	-3.08448	2.88E-06	3.726128	4.756606	2.18E-39
ENSMUSG00000031502	Col4a1	0.517942	-1.64041	0.001135	0.296884	-2.3337	0.026274	0.352018	-2.19655	0.000278	0.087653	-4.14545	2.93E-08	0.215762	-2.90205	3.4E-06	6.878337	4.467309	3.39E-37
ENSMUSG00000022893	Adamts1	0.209885	-1.22585	0.079705	0.065974	-2.73967	0.072368	0.042089	-3.52632	4.03E-05	0.023067	-4.21658	3.8E-05	0.077349	-2.6612	0.001931	2.191329	4.567941	1.10E-24
ENSMUSG00000051236	Msrb3	0.13541	-0.88695	0.113723	0.059377	-1.93817	0.098889	0.026784	-3.18384	7.92E-06	0.023067	-3.28391	4.45E-05	0.04071	-2.60182	0.000159	1.091316	4.150044	5.81E-29
ENSMUSG00000026181	Ppm1f	0.223426	-0.59217	0.315631	0.131949	-1.29768	0.32672	0.072699	-2.28605	0.000218	0.046133	-2.85478	7.08E-05	0.113987	-1.61022	0.01303	1.300014	3.401583	5.07E-22
ENSMUSG00000024238	Zeb1	0.230197	-0.30873	0.683442	0.118754	-1.24503	0.355382	0.088005	-1.80289	0.003491	0.08304	-1.83554	0.008287	0.089562	-1.75943	0.006115	1.030446	3.008688	2.91E-17
ENSMUSG00000038145	Snrk	0.582262	-0.51852	0.342274	0.395846	-1.05294	0.417699	0.317581	-1.47358	0.006843	0.253733	-1.77377	0.003292	0.329749	-1.40237	0.015298	2.804379	2.857901	2.41E-18
ENSMUSG00000010047	Hyal2	0.399459	-0.35984	0.600032	0.303482	-0.73732	0.788299	0.19514	-1.49477	0.011615	0.106107	-2.34824	0.000369	0.170981	-1.68036	0.005566	1.769585	2.880688	9.94E-17
ENSMUSG00000017615	Tnfaip1	0.572106	-0.39089	0.520006	0.415638	-0.83892	0.633488	0.348192	-1.18622	0.040348	0.19376	-2.03511	0.000755	0.317537	-1.31764	0.024875	2.421766	2.672395	6.28E-16
ENSMUSG00000021756	Il6st	1.130672	-0.27883	0.743389	0.69273	-1.0074	0.546964	0.70021	-1.0604	0.113824	0.31832	-2.22599	0.000607	0.549582	-1.42861	0.023418	4.452223	2.652354	6.35E-14

Group 2	ENSMUSG00000028517	Plpp3	1.11036	-0.56603	0.316673	0.613561	-1.41441	0.205978	0.470633	-1.90814	0.000635	0.08304	-4.36334	6.35E-10	0.309395	-2.51987	1.03E-05	6.552247	3.581438	3.77E-27
	ENSMUSG00000030352	Tspan9	0.352065	-0.19937	0.85113	0.138546	-1.56404	0.142711	0.19514	-1.15403	0.066403	0.04152	-3.32417	2.17E-06	0.154697	-1.49706	0.014274	1.434799	2.906022	1.66E-17
	ENSMUSG00000031217	Efnb1	0.230197	-0.41758	0.548506	0.250702	-0.22697	1	0.091831	-1.83611	0.003206	0.08304	-1.93011	0.00606	0.085491	-1.92283	0.003085	1.052186	2.858111	4.34E-15
	ENSMUSG00000045954	Sdpr	0.203115	-1.90042	0.001317	0.032987	-4.20229	0.001565	0.026784	-4.69864	2.6E-08	0.0692	-3.36173	6.77E-05	0.036639	-4.26469	9.61E-08	3.534822	5.411661	2.31E-40
	ENSMUSG00000074457	S100a16	0.582262	-0.84388	0.118982	0.092364	-3.42163	0.001215	0.065047	-4.06988	2.66E-09	0.115333	-3.20649	5.19E-06	0.08142	-3.73537	8E-09	4.7044	4.463505	1.24E-37
	ENSMUSG00000033174	Mgll	0.324983	-0.80599	0.152978	0.052779	-3.28941	0.00293	0.061221	-3.27035	1.26E-06	0.0692	-3.03577	3.76E-05	0.061065	-3.25102	1.15E-06	2.513071	4.281704	1.17E-32
	ENSMUSG00000027800	Tm4sf1	0.189574	-1.54772	0.012586	0.019792	-4.36422	0.0022	0.053568	-3.34821	2.02E-05	0.02768	-4.14095	9.57E-06	0.024426	-4.3562	3.12E-07	2.573942	5.128313	2.14E-34
	ENSMUSG00000037166	Ppp1r14a	0.301287	-0.46907	0.530186	0.039585	-3.25616	0.007039	0.084178	-2.41178	0.000373	0.078427	-2.45484	0.001342	0.077349	-2.5127	0.000328	1.73915	3.723361	2.01E-22
	ENSMUSG00000029710	Ephb4	0.233582	-0.72878	0.235227	0.059377	-2.589	0.026274	0.019131	-4.2522	7.78E-08	0.009227	-4.93681	1.27E-07	0.012213	-4.73413	5.23E-09	1.795672	4.560443	2.05E-33
	ENSMUSG00000032548	Slco2a1	0.453623	-0.63035	0.291514	0.112156	-2.60452	0.013861	0.126267	-2.57559	3.6E-05	0.050747	-3.78961	5.91E-07	0.089562	-3.04858	2.21E-06	3.026121	4.01952	8.21E-30
	ENSMUSG00000030551	Nr2f2	0.473934	-0.57316	0.365944	0.138546	-2.32303	0.034281	0.19514	-1.9478	0.002004	0.04152	-4.07011	2.73E-07	0.085491	-3.12879	2.3E-06	2.956555	3.829388	4.21E-26
	ENSMUSG00000027803	Wwtr1	0.247123	-0.20327	0.882116	0.032987	-2.97297	0.010284	0.057394	-2.43465	0.000211	0.02768	-3.33735	2.86E-05	0.032568	-3.18251	6.62E-06	1.230448	3.737549	4.13E-24
	ENSMUSG00000027663	Zmat3	0.578877	0.061983	0.932432	0.158338	-1.89527	0.063265	0.172183	-1.88983	0.001081	0.101493	-2.60986	8.48E-05	0.130271	-2.28526	0.000122	2.134806	3.080633	2.62E-19
	ENSMUSG00000024140	Epas1	0.788762	0.252857	0.584912	0.184728	-1.98094	0.040489	0.229577	-1.77269	0.001568	0.156853	-2.29089	0.0003	0.134342	-2.54951	9.94E-06	2.508723	2.913989	5.35E-18
	ENSMUSG00000058173	Smco4	1.015573	0.182496	0.717827	0.184728	-2.409	0.01877	0.149225	-2.847	3.97E-06	0.106107	-3.27823	3.22E-06	0.362317	-1.50941	0.019258	3.521778	3.099357	2.15E-18
	ENSMUSG00000031523	Dlc1	0.988491	0.232281	0.624104	0.092364	-3.29819	0.001138	0.072699	-3.79175	5.98E-09	0.036907	-4.63281	1.18E-09	0.08142	-3.61134	7.1E-09	3.778303	3.639955	8.88E-27
	ENSMUSG00000041261	Car8	0.517942	0.813801	0.064951	0.039585	-3.04687	0.011277	0.034437	-3.43771	3E-06	0.01384	-4.45384	8.32E-07	0.024426	-3.85263	4.38E-07	1.313058	3.11013	1.05E-15
	ENSMUSG00000030516	Tjp1	0.436697	0.38337	0.419133	0.032987	-3.33471	0.00293	0.015305	-4.51523	6.85E-09	0.018453	-4.19116	3.9E-07	0.028497	-3.7196	1.33E-07	1.526104	3.573302	2.76E-23
	ENSMUSG00000035184	Fam124a	0.470549	0.810276	0.052246	0.052779	-2.54039	0.019993	0.026784	-3.62825	4.49E-07	0.023067	-3.72591	3.41E-06	0.048852	-2.80212	2.67E-05	1.152187	2.971707	5.34E-16
	ENSMUSG00000037712	Fermt2	0.744754	0.619285	0.125666	0.112156	-2.32694	0.01767	0.107136	-2.53185	1.71E-05	0.073813	-3.00186	9.62E-06	0.069207	-3.13269	3.12E-07	1.991326	2.961038	5.30E-18
	ENSMUSG00000034738	Nostrin	0.504401	0.517955	0.242442	0.059377	-2.69612	0.010529	0.038263	-3.47047	2.99E-07	0.0692	-2.59216	0.000198	0.08142	-2.40129	0.000129	1.460886	3.066869	4.66E-18
	ENSMUSG00000015094	Npdc1	0.463779	0.247134	0.623892	0.052779	-2.93255	0.005041	0.061221	-2.90894	4.31E-06	0.08304	-2.4192	0.000406	0.052923	-3.088	1.53E-06	1.643496	3.316286	2.07E-21
	ENSMUSG00000023067	Cdkn1a	4.163851	0.386878	0.411315	0.738912	-2.32272	0.014989	0.742299	-2.42438	1.74E-05	0.807333	-2.25422	0.000347	0.66357	-2.57513	6.51E-06	12.47405	2.956849	9.86E-15
	ENSMUSG00000041801	Phlda3	0.826	0.553711	0.206157	0.072572	-3.12198	0.003309	0.099483	-2.84113	7.31E-06	0.087653	-2.96198	3.18E-05	0.109916	-2.67813	2.25E-05	2.343504	3.061953	1.72E-17
	ENSMUSG000000047907	Tshz2	0.47732	0.582303	0.183492	0.059377	-2.56836	0.015673	0.095657	-2.05613	0.000829	0.073813	-2.37241	0.000677	0.097704	-2.00696	0.001665	1.213057	2.717085	9.03E-14
	ENSMUSG00000028445	Enho	0.734598	0.926879	0.015252	0.079169	-2.5711	0.011068	0.053568	-3.27466	3.34E-07	0.115333	-2.13167	0.001258	0.020355	-4.5082	1.3E-10	1.613061	2.783816	1.98E-15
	ENSMUSG00000097312	Gm26870	0.934328	1.313464	0.1099	0.02639	-4.06982	0.567794	0.015305	-4.98439	0.014363	0.046133	-3.51019	0.186163	0.052923	-3.37115	0.15487	1.669584	2.664617	2.09E-03
	ENSMUSG00000041012	Cmtm8	1.123901	1.186782	0.00089	0.065974	-3.2676	0.001062	0.026784	-4.64659	1.1E-10	0.092267	-2.90851	1.05E-05	0.089562	-2.98914	5.12E-07	2.113067	2.655757	1.13E-14
Group 3	ENSMUSG00000027074	Slc43a3	0.027082	-4.21068	2.54E-11	0.046182	-3.24857	0.00468	0.080352	-2.67092	4.86E-05	0.073813	-2.73062	0.000243	0.350104	-0.41576	0.864879	2.134806	4.166263	1.24E-29
	ENSMUSG00000001029	Icam2	0.027082	-4.8338	6.91E-15	0.125351	-2.53077	0.014833	0.202793	-1.95964	0.001143	0.309093	-1.2807	0.085963	0.512944	-0.4968	0.745919	3.008729	3.681369	8.54E-26
	ENSMUSG00000016494	Cd34	0.010156	-5.00673	4.99E-10	0.032987	-3.28138	0.022382	0.03061	-3.60192	2.05E-05	0.239893	-0.57961	0.778509	0.056994	-2.73779	0.000923	1.73915	4.615108	1.59E-26
	ENSMUSG00000026656	Fcgr2b	0.094787	-4.53475	5.67E-15	0.178131	-3.4516	0.001108	0.306103	-2.80289	6.33E-06	2.232852	0.362333	0.634418	0.606576	-1.76401	0.005669	7.687042	3.544568	1.96E-23
	ENSMUSG00000000184	Ccnd2	0.081246	-4.74369	4.17E-16	0.389248	-2.32596	0.024422	0.474459	-2.14309	0.000316	1.102586	-0.80708	0.392771	0.586221	-1.80807	0.003709	8.404441	4.053047	1.84E-31
	ENSMUSG00000027435	Cd93	0.040623	-5.20917	1.78E-17	0.138546	-3.30857	0.001335	0.260187	-2.53558	2.4E-05	1.097973	-0.27075	0.982351	0.341962	-2.11255	0.000533	6.01311	4.049397	1.17E-31
	ENSMUSG000000001506	Col1a1	0.030467	-5.36756	0.039858	0.20452	-2.53439	1	0.260187	-2.30486	0.79675	0.9688	-0.22291	0.931729	0.439666	-1.49691	1	4.882663	3.739023	5.64E-04
	ENSMUSG000000029661	Col1a2	0.060934	-4.97862	0.030933	0.369456	-2.23457	1	0.378802	-2.30967	0.72436	1.416293	-0.21624	0.946812	0.708351	-1.34239	1	6.952251	3.631194	4.19E-04
	ENSMUSG00000025969	Nrp2	0.074475	-3.59309	3.01E-11	0.164936	-2.27767	0.02426	0.378802	-1.14159	0.082846	0.60896	-0.35558	0.879736	0.386743	-1.09767	0.125071	2.973946	3.215755	1.92E-20
	ENSMUSG00000030787	Lyve1	0.016926	-5.27975	3.13E-11	0.013195	-5.15036	0.000995	0.034437	-4.31635	1.03E-06	0.239893	-1.51282	0.135611	0.350104	-0.95218	0.466004	3.13047	4.56042	5.44E-26
	ENSMUSG00000020473	Aebp1	0.010156	-4.65826	0.000232	0.013195	-3.94276	0.25499	0.026784	-3.42309	0.023995	0.253733	-0.09293	1	0.162839	-0.82308	0.929576	1.182622	3.680559	9.14E-08
	ENSMUSG00000025026	Add3	0.084631	-2.95207	1.67E-08	0.118754	-2.28361	0.024933	0.091831	-2.79079	5.91E-06	0.461333	-0.29866	0.944079	0.460021	-0.31121	0.944929	2.152198	3.162459	1.30E-19
	ENSMUSG00000090019	Gimap1	0.010156	-4.5219	2.08E-08	0.059377	-2.04016	0.205796	0.015305	-3.97598	1.41E-05	0.267573	0.156728	0.948211	0.162839	-0.67107	0.72222	1.004359	3.35518	6.07E-14
	ENSMUSG00000026817	Ak1	0.003385	-5.72555	5.2E-11	0.059377	-2.23974	0.120924	0.076526	-2.04233	0.009437	0.0692	-2.12964	0.016622	0.101775	-1.60607	0.06241	1.413059	4.54167	2.15E-26
	ENSMUSG00000026814	Eng	0.044008	-5.00329	6.85E-16	0.171533	-2.91017	0.006211	0.428544	-1.68285	0.007053	0.226053	-2.59161	0.000204	0.366388	-1.9064	0.002812	6.078328	4.607994	1.48E-38
	ENSMUSG00000027931	Npr1	0.010156	-4.84131	1.03E-11	0.052779	-2.52007	0.03204	0.110962	-1.62422	0.017079	0.046133	-2.81423	0.000297	0.158768	-1.06402	0.217948	1.482625	4.268689	2.00E-29
	ENSMUSG00000027082	Tfpi	0.013541	-4.66969	1.11E-11	0.131949	-1.41551	0.321617	0.149225	-1.33949	0.057832	0.05536	-2.72283	0.000369	0.138413	-1.43962	0.050811	1.604366	4.092711	9.55E-28

ENSMUSG00000074743	Thbd	0.013541	-4.30929	3.66E-09	0.092364	-1.55044	0.347484	0.10331	-1.51149	0.054776	0.059973	-2.24449	0.008239	0.101775	-1.51788	0.068608	1.260884	4.135247	6.88E-24
ENSMUSG00000036867	Smad6	0.044008	-3.39052	2.58E-09	0.191325	-1.11387	0.486401	0.19514	-1.17397	0.08649	0.115333	-1.92164	0.006158	0.158768	-1.47722	0.028122	1.752193	3.69712	3.28E-25
ENSMUSG00000026335	Pam	0.169262	-2.2916	8.42E-05	0.382651	-0.93459	0.778461	0.417065	-0.86854	0.389389	0.272187	-1.49929	0.080354	0.407098	-0.89766	0.409668	2.630464	3.027442	7.59E-14
ENSMUSG00000005973	Rcn1	0.115098	-2.11776	1.32E-05	0.20452	-1.1203	0.409568	0.244882	-0.92647	0.183498	0.184533	-1.33029	0.051534	0.264614	-0.79293	0.348516	1.591322	2.985809	2.22E-18
ENSMUSG00000070436	Serpinh1	0.044008	-4.28684	1.63E-09	0.290287	-1.42345	0.498822	0.294624	-1.49552	0.077006	0.364453	-1.13191	0.311005	0.236117	-1.81785	0.030242	3.308732	3.828874	2.23E-19
ENSMUSG00000008398	Elk3	0.06432	-3.92893	9.95E-14	0.409041	-1.0836	0.41875	0.336713	-1.46502	0.009732	0.53976	-0.69433	0.442603	0.358246	-1.3562	0.024965	3.39569	3.402967	3.95E-25
ENSMUSG00000095098	Ccdc85b	0.074475	-2.83602	3.09E-08	0.191325	-1.30176	0.286003	0.233403	-1.09077	0.094813	0.31832	-0.57137	0.599555	0.219833	-1.17227	0.08192	1.734802	3.103902	1.36E-19
ENSMUSG00000020717	Pecam1	0.020311	-5.79034	1.03E-19	0.705925	-0.60398	0.929203	0.478285	-1.27673	0.037743	0.23528	-2.30779	0.000354	0.33382	-1.81616	0.0022	4.695704	3.881681	7.77E-31
ENSMUSG00000025279	Dnase1l3	0.054164	-5.32639	5.94E-20	1.352473	-0.48172	1	1.289457	-0.59877	0.542435	0.42904	-2.27111	0.000335	0.753131	-1.44701	0.017776	7.500083	3.386822	5.77E-24
ENSMUSG00000028864	Hgf	0.00677	-5.07712	1.9E-11	0.290287	0.134055	1	0.153051	-0.9319	0.297868	0.073813	-1.97632	0.012591	0.113987	-1.37269	0.079248	1.082621	3.275051	5.88E-17
ENSMUSG00000030930	Chst15	0.016926	-4.65698	4.87E-13	0.217715	-0.9468	0.634325	0.271666	-0.67303	0.489605	0.17992	-1.28663	0.090396	0.183194	-1.28385	0.069051	1.634801	3.301197	3.62E-20
ENSMUSG00000029163	Emilin1	0.037238	-4.51628	1.22E-14	0.382651	-1.01653	0.54118	0.642815	-0.24073	0.99813	0.336773	-1.25793	0.080233	0.419311	-0.93653	0.229489	2.704378	2.932291	5.14E-17
ENSMUSG000000041481	Serpina3g	0.057549	-4.6433	4.14E-12	0.963224	-0.36386	1	1.323894	0.159991	0.958991	0.51208	-1.3789	0.128436	0.427453	-1.67904	0.030298	4.217438	2.762191	3.13E-11
ENSMUSG00000024451	Arap3	0.023697	-3.56744	1.57E-09	0.184728	-0.48688	1	0.198967	-0.4236	0.780056	0.050747	-2.42224	0.000589	0.118058	-1.23939	0.073032	1.013055	3.213054	1.41E-19
ENSMUSG00000048200	Cracr2b	0.033852	-3.4119	1.26E-09	0.211118	-0.61805	0.912769	0.225751	-0.57308	0.585603	0.106107	-1.69895	0.012459	0.1262	-1.47168	0.022056	1.265231	3.247112	1.05E-20
ENSMUSG00000045664	Cdc42ep2	0.037238	-3.31901	1.58E-08	0.244105	-0.43523	1	0.198967	-0.81747	0.353072	0.170693	-1.02574	0.23456	0.146555	-1.28288	0.078624	1.234796	3.054564	1.95E-16
ENSMUSG00000030123	Plxnd1	0.132025	-3.18199	6.33E-11	0.844471	-0.26031	1	0.604553	-0.83864	0.227889	0.45672	-1.25087	0.057787	0.45595	-1.27524	0.034815	3.726128	3.018745	4.38E-20
ENSMUSG00000019970	Sgk1	0.318213	-3.01077	9.68E-11	1.860475	-0.20345	1	1.32772	-0.78418	0.268631	0.862693	-1.43446	0.020381	0.972964	-1.27002	0.031074	7.83487	2.991455	9.86E-15
ENSMUSG00000022799	Arhgap31	0.010156	-5.61948	2.55E-16	0.158338	-1.79938	0.098382	0.156878	-1.93068	0.001395	0.295253	-0.92808	0.271449	0.317537	-0.83159	0.348435	2.286982	3.663249	1.11E-25
ENSMUSG00000042286	Stab1	0.104943	-4.04162	4.4E-15	0.824678	-0.85934	0.631013	0.642815	-1.31681	0.021167	1.300959	-0.15617	1	0.9119	-0.75025	0.365689	5.073969	2.833809	1.63E-17
ENSMUSG00000022816	Fstl1	0.003385	-6.08283	1.83E-06	0.171533	-1.12049	1	0.10331	-1.97959	0.203528	0.216827	-0.81652	0.893183	0.187265	-1.06527	0.745296	1.560887	3.625089	1.52E-08
ENSMUSG00000022665	Ccdc80	0.00677	-5.7699	6.77E-11	0.277092	-0.69656	1	0.183662	-1.40745	0.141726	0.253733	-0.87276	0.563307	0.252401	-0.89987	0.548624	1.752193	3.286655	8.02E-13
ENSMUSG00000027669	Gnb4	0.010156	-4.8975	1.93E-13	0.217715	-0.57498	0.954291	0.191314	-0.84426	0.284614	0.212213	-0.65245	0.524579	0.154697	-1.16532	0.099619	1.204361	3.043778	5.86E-18
ENSMUSG00000004837	Grap	0.023697	-3.71822	4.68E-10	0.211118	-0.44465	1	0.168356	-0.86394	0.27775	0.19376	-0.61354	0.577437	0.175052	-0.79159	0.389787	1.004359	2.799791	8.28E-15
ENSMUSG00000026043	Col3a1	0.067705	-4.791	0.000348	0.395846	-2.09138	0.913989	0.726994	-1.26841	0.733863	1.462426	-0.11424	1	1.131733	-0.54798	1	5.756586	2.956243	1.07E-04
ENSMUSG00000086320	Gm12840	0.047393	-4.82685	2.19E-10	0.46182	-1.39788	0.570722	0.635163	-0.9852	0.407701	1.250213	0.152094	0.933873	0.553653	-1.19186	0.29617	4.108741	2.866442	5.97E-10
ENSMUSG00000022122	Ednrb	0.013541	-5.48354	2.37E-12	0.112156	-2.47855	0.071926	0.141572	-2.27959	0.002418	0.715066	0.31156	0.759256	0.606576	0.027128	1	2.069588	2.736709	3.41E-10
ENSMUSG00000019880	Rspo3	0.003385	-5.38061	0.015055	0.059377	-1.88673	1	0.114788	-1.06541	1	0	-5.84139	0.14576	0.036639	-2.69248	0.617601	1.139143	4.737752	1.60E-06
ENSMUSG00000023078	Cxcl13	0.050779	-4.40019	0.17175	0.712522	-0.38712	1	0.501243	-0.9968	1	0.032293	-4.86547	0.640009	0.956681	0.087651	0.871549	3.386994	2.992917	1.35E-02
ENSMUSG00000035459	Stab2	0.091402	-4.0557	6.34E-15	1.365667	0.12948	1	0.948918	-0.48706	0.663889	0.119947	-3.56514	6.27E-08	0.801983	-0.75659	0.363696	4.604399	2.929013	1.29E-18