Table S6 Differential expressed genes in eWAT

gene_id	eWAT_cachexia_1	eWAT_cachexia_2	eWAT_cachexia_3	eWAT_control_1	eWAT_control_2	eWAT_control_3	eWAT_cachexia	eWAT_control	log2FoldChange	p value	padj	gene_name	gene_chr	gene_start	gene_end	gene_strand	gene_length	gene_biotype	gene_description	tf_fa
ENSMUSG0000000226	1890.967	1987.514822	2753.796036	34.45324342	30.6170999	19.46050868	2210.759286	28.17695067	6.288043226	1.95E-113	3.64E-109	Zim1	7	6671269	6696450	-	8086	protein_coding	zinc finger, imprinted 1 [Source:MGI Symbol;Acc:MGI:1341879]	zf-C2
ENSMUSG0000003180	37679.04568	32689.19449	34690.00994	5156.789209	5438.979649	5964.645909	35019.4167	5520.138256	2.665425713	4.25E-79	3.98E-75	Slc27a1	8	71568882	71587302	+	5835	protein_coding	solute carrier family 27 (fatty acid transporter), member 1 [Source:MGI Symbol;Acc:MGI:1347098]	-
ENSMUSG0000000226	14379.1656	11859.78638	21681.81479	832.0458287	1460.73196	1010.0004	15973.58892	1100.926063	3.859127255	8.11E-43	5.06E-39	Peg3	7	6703892	6730431	-	13324	protein_coding	paternally expressed 3 [Source:MGI Symbol;Acc:MGI:104748]	zf-C2
ENSMUSG0000005902	36.07568203	54.7698838	49.15497995	516.7986514	787.1557618	788.1506014	46.66684859	697.3683382	-3.903266524	1.47E-42	6.87E-39	9630013D21Ri	4	109651529	109657853	-	3142	processed_transcrip	RIKEN cDNA 9630013D21 gene [Source:MGI Symbol;Acc:MGI:2442649]	-
ENSMUSG0000009491	45.09460254	12.63920395	23.46033134	742.4673958	688.3909235	857.2354072	27.06471261	762.6979088	-4.809798959	5.65E-41	2.11E-37	D430019H16R	12	105453856	105493095	+	5786	protein_coding	RIKEN cDNA D430019H16 gene [Source:MGI Symbol;Acc:MGI:2443127]	-
ENSMUSG0000003800	3041.380416	3397.839329	4464.165906	409.1322657	586.6631399	435.9153943	3634.461884	477.2369333	2.929403059	5.61E-39	1.75E-35	Acer2	4	86874396	86934822	+	7159	protein_coding	alkaline ceramidase 2 [Source:MGI Symbol;Acc:MGI:1920932]	-
ENSMUSG0000003896	4752.971107	5503.320055	6378.975807	1218.783486	1274.066415	1234.769275	5545.08899	1242.539726	2.157891644	1.10E-38	2.95E-35	Pdk2	11	95026258	95041354	-	3163	protein_coding	pyruvate dehydrogenase kinase, isoenzyme 2 [Source:MGI Symbol;Acc:MGI:1343087]	-
ENSMUSG0000002474	501.0511393	353.8977107	299.3985142	2640.841108	2793.069629	3121.465592	384.7824547	2851.79211	-2.888717677	2.56E-38	5.97E-35	Aldh1a7	19	20692953	20727562	-	2066	protein_coding	aldehyde dehydrogenase family 1, subfamily A7 [Source:MGI Symbol;Acc:MGI:1347050]	-
ENSMUSG0000004911	107.2249438	34.75781087	98.3099599	2754.536812	1546.657369	2279.798591	80.09757153	2193.664257	-4.775345397	2.87E-38	5.97E-35	Oxtr	6	112473683	112489943	-	4790	protein_coding	oxytocin receptor [Source:MGI Symbol;Acc:MGI:109147]	-
ENSMUSG0000003837	2176.566149	2284.536115	2358.321879	9570.249692	9253.277707	12333.09737	2273.141381	10385.54159	-2.191847207	3.81E-38	7.13E-35	Trp53inp2	2	155381059	155389850	+	5257	protein_coding	transformation related protein 53 inducible nuclear protein 2 [Source:MGI Symbol;Acc:MGI:1915978]	-
ENSMUSG0000002135	4759.985823	2615.261951	5996.907554	149.0102778	307.1586473	204.3353411	4457.38511	220.1680887	4.340580653	1.02E-37	1.74E-34	Irf4	13	30749226	30766976	+	4903	protein_coding	interferon regulatory factor 4 [Source:MGI Symbol;Acc:MGI:1096873]	IRF
ENSMUSG0000004165	990.0770513	524.5269641	498.2527513	6764.894346	10845.3669	9967.672544	670.9522555	9192.644597	-3.775719258	7.59E-37	1.18E-33	Pnpla3	15	84167837	84187236	+	1548	protein_coding	patatin-like phospholipase domain containing 3 [Source:MGI Symbol;Acc:MGI:2151796]	-
ENSMUSG0000000014	243.5108537	219.0795352	197.7370784	1402.247007	1061.722013	1219.200869	220.1091558	1227.723296	-2.479094674	2.16E-36	3.11E-33	Axin2	11	108920349	108950783	+	5506	protein_coding	axin 2 [Source:MGI Symbol;Acc:MGI:1270862]	-
ENSMUSG0000002937	323.679036	403.4012595	358.6079219	15.50395954	24.69120959	31.13681388	361.8960725	23.77732767	3.936988064	4.27E-36	5.50E-33	Rassf6	5	90603076	90640657	-	4260	protein_coding	Ras association (RalGDS/AF-6) domain family member 6 [Source:MGI Symbol;Acc:MGI:1920496]	-
ENSMUSG0000005010	1362.859099	1578.847227	1173.016567	243.7566972	237.0356121	180.9827307	1371.574298	220.59168	2.635790149	4.41E-36	5.50E-33	Grrp1	4	134251110	134254106	-	1275	protein_coding	glycine/arginine rich protein 1 [Source:MGI Symbol;Acc:MGI:1919940]	-
ENSMUSG0000002718	709.4884133	705.6888874	774.1909342	148.1489467	162.9619833	158.6031457	729.7894116	156.5713586	2.221295394	3.95E-35	4.62E-32	Pamr1	2	102550012	102643041	+	6046	protein_coding	peptidase domain containing associated with muscle regeneration 1 [Source:MGI Symbol;Acc:MGI:2445082]	-
ENSMUSG0000003134	245.5150583	204.3337972	217.8459339	1049.962593	1005.426055	931.1853401	222.5649298	995.5246627	-2.160781696	2.82E-34	3.10E-31	Nsdhl	X	72918557	72958514	+	2853	protein_coding	NAD(P) dependent steroid dehydrogenase-like [Source:MGI Symbol;Acc:MGI:1099438]	-
ENSMUSG0000007086	263.5528993	218.0262682	135.1761949	1794.152651	2010.852109	2778.960639	205.5851208	2194.655133	-3.414669976	3.42E-34	3.55E-31	Trabd2b	4	114406724	114615098	+	6617	protein_coding	TraB domain containing 2B [Source:MGI Symbol;Acc:MGI:3650152]	-
ENSMUSG0000004425	1551.254327	2162.357143	1978.487943	376.4016844	366.4175504	294.8267064	1897.366471	345.8819804	2.455134075	1.70E-33	1.62E-30	Ctla2a	13	60934155	60936625	-	2108	protein_coding	cytotoxic T lymphocyte-associated protein 2 alpha [Source:MGI Symbol;Acc:MGI:88554]	-
ENSMUSG0000002699	4556.559061	4240.452926	5088.657583	1397.940352	1397.522463	1371.965862	4628.556524	1389.142892	1.736302561	1.73E-33	1.62E-30	Pkp4	2	59160850	59355208	+	5707	protein_coding	plakophilin 4 [Source:MGI Symbol;Acc:MGI:109281]	-
ENSMUSG0000009134	353.7421044	279.115754	188.7998094	11981.97673	3291.832063	7253.904609	273.8858892	7509.237801	-4.776535121	2.87E-33	2.45E-30	Col6a5	9	105856078	105960643	-	9413	protein_coding	collagen, type VI, alpha 5 [Source:MGI Symbol;Acc:MGI:3648134]	-
ENSMUSG0000004848	4687.834459	8303.956997	7787.712486	651.1663007	975.7966031	800.799932	6926.501434	809.2542786	3.097730576	2.89E-33	2.45E-30	Depp1	6	116650609	116652794	+	1358	protein_coding	DEPP1 autophagy regulator [Source:MGI Symbol;Acc:MGI:1918730]	-
ENSMUSG0000003219	131.2753985	210.6533992	186.5654921	1305.777926	1045.919638	1180.279851	176.1647633	1177.325805	-2.74182495	3.60E-33	2.93E-30	Ldlr	9	21723483	21749919	+	9622	protein_coding	low density lipoprotein receptor [Source:MGI Symbol;Acc:MGI:96765]	-
ENSMUSG0000002549	462.9712527	408.6675945	385.4197292	55.98652056	61.23419979	43.78614452	419.0195255	53.66895496	2.964682393	4.50E-33	3.51E-30	Ifitm1	7	140967221	140969825	+	1094	protein_coding	interferon induced transmembrane protein 1 [Source:MGI Symbol;Acc:MGI:1915963]	-
ENSMUSG0000009069	1554.260634	2191.848619	1799.742561	304.0498732	390.1211116	321.0983931	1848.617271	338.423126	2.450104071	7.29E-33	5.46E-30	Apold1	6	134981718	134986836	+	3567	protein_coding	apolipoprotein L domain containing 1 [Source:MGI Symbol;Acc:MGI:2685921]	-
ENSMUSG0000004180	804.6881297	826.8145919	508.307179	4012.941528	5024.167328	5330.233326	713.2699669	4789.114061	-2.746761221	1.67E-32	1.20E-29	Phlda3	1	135766119	135769136	+	1559	protein_coding	pleckstrin homology like domain, family A, member 3 [Source:MGI Symbol;Acc:MGI:1351485]	-
ENSMUSG0000002808	1785.74626	1968.556016	2008.651226	601.2090977	566.9101723	585.7613111	1920.984501	584.6268604	1.715962417	1.16E-31	8.05E-29	Fmo5	3	97628804	97655282	+	5675	protein_coding	flavin containing monooxygenase 5 [Source:MGI Symbol;Acc:MGI:1310004]	-
ENSMUSG0000002662	3353.034224	3072.379828	2338.213024	15597.84463	14162.87782	20808.1489	2921.209025	16856.29045	-2.528545973	1.49E-31	9.95E-29	Lpgat1	1	191717834	191784255	+	7610	protein_coding	lysophosphatidylglycerol acyltransferase 1 [Source:MGI Symbol;Acc:MGI:2446186]	-
ENSMUSG0000005239	823.728073	931.0880246	1047.8948	106.8050546	163.9496317	165.4143237	934.2369658	145.38967	2.686127611	5.44E-30	3.51E-27	Acot4	12	84038379	84048601	+	6674	protein_coding	acyl-CoA thioesterase 4 [Source:MGI Symbol;Acc:MGI:2159621]	-
ENSMUSG0000002927	281.5907403	140.0845105	192.1512853	3812.251385	1693.816978	3131.195846	204.6088453	2879.08807	-3.814110025	6.79E-30	4.23E-27	Sult1e1	5	87575969	87591594	-	1242	protein_coding	sulfotransferase family 1E, member 1 [Source:MGI Symbol;Acc:MGI:98431]	-
ENSMUSG0000005605	883.8542097	826.8145919	3170.496207	38.75989885	46.41947404	43.78614452	1627.055003	42.9885058	5.24281804	1.50E-29	9.03E-27	S100a8	3	90668978	90670035	+	694	protein_coding	S100 calcium binding protein A8 (calgranulin A) [Source:MGI Symbol;Acc:MGI:88244]	-
ENSMUSG0000008684	852.7890391	845.7733979	1137.267491	175.7115415	117.5301577	156.6570948	945.2766425	149.9662647	2.654182036	3.28E-29	1.92E-26	2410006H16Ri	11	62602877	62604807	+	462	processed_transcrip	RIKEN cDNA 2410006H16 gene [Source:MGI Symbol;Acc:MGI:1916471]	-
ENSMUSG0000005455	92.19340963	156.9367824	118.4188153	1030.151978	737.7733427	1032.379985	122.5163358	933.4351021	-2.930528635	4.25E-29	2.41E-26	Adam12	7	133883199	134232146	-	10573	protein_coding	a disintegrin and metallopeptidase domain 12 (meltrin alpha) [Source:MGI Symbol;Acc:MGI:105378]	-
ENSMUSG0000002604	6840.350154	2989.171735	4160.298758	45505.84391	36503.48426	45594.02578	4663.273549	42534.45132	-3.189164954	4.90E-29	2.69E-26	Col3a1	1	45311538	45349706	+	9816	protein_coding	collagen, type III, alpha 1 [Source:MGI Symbol;Acc:MGI:88453]	-
ENSMUSG0000002265	331.6958542	376.0163176	472.5581027	5.167986514	24.69120959	8.757228904	393.4234248	12.87214167	4.950852794	8.72E-29	4.66E-26	Retnlg	16	48872621	48874496	+	593	protein_coding	resistin like gamma [Source:MGI Symbol;Acc:MGI:2667763]	-
ENSMUSG0000003629	129.2711939	133.7649085	113.9501808	604.6544221	822.7111037	615.9250996	125.6620944	681.0968751	-2.437268711	2.07E-27	1.08E-24	Slc2a13	15	91267696	91573261	-	8367	protein_coding	solute carrier family 2 (facilitated glucose transporter), member 13 [Source:MGI Symbol;Acc:MGI:2146030]	-
ENSMUSG0000001997	9403.727783	5216.831432	7049.270988	1232.564783	1384.683034	1212.38969	7223.276734	1276.545836	2.500486666	2.77E-27	1.40E-24	Sgk1	10	21882184	21999903	+	4903	protein_coding	serum/glucocorticoid regulated kinase 1 [Source:MGI Symbol;Acc:MGI:1340062]	-
ENSMUSG0000002579	704.4779019	954.2598985	432.3403918	4755.408924	5539.719784	5813.826967	697.0260641	5369.651892	-2.945207747	3.99E-27	1.96E-24	Slc25a10	11	120491840	120499187	+	3455	protein_coding	solute carrier family 25 (mitochondrial carrier, dicarboxylate transporter), member 10 [Source:MGI Symbol;Acc:MGI:1353497]	-
ENSMUSG0000003770	21625.36717	19227.38901	29224.8699	1167.103621	2687.391252	2801.340224	23359.20869	2218.611699	3.396422325	1.07E-26	5.15E-24	Fam13a	6	58932090	59024549	-	10505	protein_coding	family with sequence similarity 13, member A [Source:MGI Symbol;Acc:MGI:1889842]	-
ENSMUSG0000003706	1316.762394	1497.745668	1660.097732	4595.201342	5570.336884	5106.437476	1491.535265	5090.658567	-1.771207679	1.10E-26	5.15E-24	Cavin3	7	105480083	105482300	-	1662	protein_coding	caveolae associated 3 [Source:MGI Symbol;Acc:MGI:1923422]	-
ENSMUSG0000007501	282.5928426	357.0575117	289.3440865	47.37320971	36.5429902	35.02891562	309.6648136	39.64837184	2.961080737	1.38E-26	6.29E-24	Fjx1	2	102449366	102452499	-	3134	protein_coding	four jointed box 1 [Source:MGI Symbol;Acc:MGI:1341907]	-
ENSMUSG0000003074	3466.271782	3841.264735	1084.761035	35901.14098	48926.12563	49496.83079	2797.432517	44774.69913	-4.000421315	5.16E-26	2.30E-23	Dgat2	7	99153658	99182719	-	3083	protein_coding	diacylglycerol O-acyltransferase 2 [Source:MGI Symbol;Acc:MGI:1915050]	-
ENSMUSG0000007223	1030.161142	559.2847749	1661.214891	14091.37656	10389.07335	12931.50801	1083.553603	12470.65264	-3.524903335	5.32E-26	2.32E-23	Tuba1a	15	98949837	98953703	-	1803	protein_coding	tubulin, alpha 1A [Source:MGI Symbol;Acc:MGI:98869]	-
ENSMUSG0000003074	3332.992179	4146.712164	4273.13178	1097.335803	1222.708699	1019.730655	3917.612041	1113.258386	1.815168166	6.59E-26	2.80E-23	Il4ra	7	125552120	125579474	+	6002	protein_coding	interleukin 4 receptor, alpha [Source:MGI Symbol;Acc:MGI:105367]	-
ENSMUSG0000003485	5225.963383	5434.8577	6709.654763	1107.671776	1532.830292	1511.108499	5790.158615	1383.870189	2.065142055	1.24E-25	5.18E-23	Fam214a	9	74952884	75032468	+	6637	protein_coding	family with sequence similarity 214, member A [Source:MGI Symbol;Acc:MGI:2387648]	-
ENSMUSG0000004268	860.8058573	1190.191706	1091.463987	4567.638747	3599.978359	4340.66646	1047.487183	4169.427855	-1.993177263	1.51E-25	6.13E-23	Mapk6	9	75369062	75410005	-	6675	protein_coding	mitogen-activated protein kinase 6 [Source:MGI Symbol;Acc:MGI:1354946]	-
ENSMUSG0000002855	1461.065122	1495.639134	1051.246276	5479.788367	5362.930724	7061.245573	1335.983511	5967.988221	-2.159109735	1.60E-25	6.37E-23	Cdkn2c	4	109660876	109667189	-	2686	protein_coding	cyclin dependent kinase inhibitor 2C [Source:MGI Symbol;Acc:MGI:105388]	-
ENSMUSG0000002190	3551.450475	3012.343609	3400.630886	1013.786688	1169.375686	1119.952274	3321.47499	1101.038216	1.593226583	2.00E-25	7.81E-23	Sema3g	14	31217860	31230352	+	4540	protein_coding	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3G [Source:MGI Symbol;Acc:MGI:30412	-
ENSMUSG0000002222	1699.565465	1826.364971	1617.645704	483.206739	585.6754916	536.137014	1714.52538	535.0064149	1.680798678	2.13E-25	8.12E-23	Adcy4	14	55769057	55784095	-	4672	protein_coding	adenylate cyclase 4 [Source:MGI Symbol;Acc:MGI:99674]	-
ENSMUSG0000003512	334.7021611	344.4183077	427.8717573	49.09587188	59.25890302	66.1657295	368.9974087	58.17350147	2.667451892	2.43E-25	9.10E-23	Neil2	14	63182443	63193856	-	5017	protein_coding	nei like 2 (E. coli) [Source:MGI Symbol;Acc:MGI:2686058]	-
ENSMUSG0000005613	363.7631271	455.0113423	307.2186247	41.34389211	49.38241919	59.35455146	375.3310314	50.02695425	2.910516808	6.03E-25	2.21E-22	Unc93a2	17	7362815	7385464	-	2945	protein_coding	unc-93 homolog A2 [Source:MGI Symbol;Acc:MGI:3712668]	-
ENSMUSG0000002232	407.8556274	199.0674623	280.4068174	3265.306145	1841.964236	2496.783263	295.7766357	2534.684548	-3.098782751	8.85E-25	3.18E-22	Matn2	15	34306677	34436273	+	6263	protein_coding	matrilin 2 [Source:MGI Symbol;Acc:MGI:109613]	-
ENSMUSG0000009052	392.8240932	403.4012595	357.4907633	1200.695533	1339.251208	1538.353211	384.5720387	1359.433317	-1.821177636	1.23E-24	4.35E-22	Gypc	18	32528322	32560034	-	2331	protein_coding	glycophorin C [Source:MGI Symbol;Acc:MGI:1098566]	-
ENSMUSG0000002636	2783.84013	3012.343609	2152.76469	651.1663007	521.4783466	408.6706822	2649.649476	527.1051098	2.329084557	3.47E-24	1.20E-21	Rgs2	1	143999338	144004161	-	3627	protein_coding	regulator of G-protein signaling 2 [Source:MGI Symbol;Acc:MGI:1098271]	-
ENSMUSG0000006208	722.5157429	567.7109109	548.5248899	144.7036224	135.3078286	139.142637	612.9171812	139.7180293	2.133148914	5.12E-24	1.74E-21	Gm6055	14	48079375	48079752	-	378	processed_pseudog	predicted gene 6055 [Source:MGI Symbol;Acc:MGI:3648620]	-
ENSMUSG0000001769	199.4183534	182.2151903	130.7075603	803.6219029	774.3163329	972.0524083	170.780368	849.9968814	-2.313598459	5.31E-24	1.78E-21	Rhbdl3	11	80300912	80355955	+	4734	protein_coding	rhomboid like 3 [Source:MGI Symbol;Acc:MGI:2179276]	-
ENSMUSG0000002235	115.241762	147.4573795	124.0046085	732.1314228	536.2930724	613.9790487	128.90125	627.4678479	-2.284035211	6.13E-24	2.01E-21	Sqle	15	59315077	59331192	+	5546	protein_coding	squalene epoxidase [Source:MGI Symbol;Acc:MGI:109296]	-
ENSMUSG0000005054	124.2606825	174.8423214	151.9335744	658.0569494	847.4023133	1021.676705	150.3455261	842.378656	-2.486500955	8.25E-24	2.66E-21	Fam241a	3	127869058	127896324	-	2265	protein_coding	family with sequence similarity 241, member A [Source:MGI Symbol;Acc:MGI:1917867]	-
ENSMUSG0000002896	2742.753937	2861.726428	2277.886457	7600.385499	9378.709052	8318.394433	2627.455607	8432.496328	-1.682161032	9.93E-24	3.15E-21	Pgd	4	149149991	149166771	-	6447	protein_coding	phosphogluconate dehydrogenase [Source:MGI Symbol;Acc:MGI:97553]	-
ENSMUSG0000002658	915.9214827	1099.610744	1805.328355	175.7115415	187.6531929	126.4933064	1273.620194	163.2860136	2.962919408	1.31E-23	4.08E-21	Selp	1	164115264	164150026	+	4413	protein_coding	selectin, platelet [Source:MGI Symbol;Acc:MGI:98280]	-
ENSMUSG0000002731	565.1856851	630.9069307	414.4658537	37.03723668	80.98716747	56.43547516	536.8528232	58.1532931	3.211570935	1.64E-23	5.02E-21	Chac1	2	119351229	119354381	+	1637	protein_coding	ChaC, cation transport regulator 1 [Source:MGI Symbol;Acc:MGI:1916315]	-
ENSMUSG0000005825	119.2501712	102.1668986	97.19280126	421.1909009	537.2807208	513.757429	106.2032903	490.7430169	-2.206307233	1.00E-22	3.03E-20	Idi1	13	8885501	8892451	+	3505	protein_coding	isopentenyl-diphosphate delta isomerase [Source:MGI Symbol;Acc:MGI:2442264]	-
ENSMUSG0000000803	270.5676152	254.8906131	262.5322793	1752.808759	988.6360321	1316.503412	262.6635025	1352.649401	-2.364758389	1.62E-22	4.81E-20	Mid1ip1	X	10715013	10719690	+	2128	protein_coding	Mid1 interacting protein 1 (gastrulation specific G12-like (zebrafish)) [Source:MGI Symbol;Acc:MGI:1915291]	-
ENSMUSG0000000133	4.008409114	6.319601977	3.351475906	403.1029481	116.5425093	291.9076301	4.559828999	270.5176958	-5.88857023	3.40E-22	9.94E-20	Fndc5	4	129136999	129144593	+	2763	protein_coding	fibronectin type III domain containing 5 [Source:MGI Symbol;Acc:MGI:1917614]	-
ENSMUSG0000003492	101.2123301	45.29048083	55.85793176	507.3240094	564.9348755	516.6765053	67.45358091	529.6451301	-2.969536508	8.29E-22	2.39E-19	Dhcr24	4	106561038	106589113	+	4028	protein_coding	24-dehydrocholesterol reductase [Source:MGI Symbol;Acc:MGI:1922004]	-
ENSMUSG0000010097	394.8282978	492.9289542	530.6503517	109.3890479	83.95011262	77.8420347	472.8025346	90.39373173	2.383831948	8.65E-22	2.45E-19	Gm28875	12	104925501	104926689	-	1189	lincRNA	predicted gene 28875 [Source:MGI Symbol;Acc:MGI:5579581]	-
ENSMUSG0000007370	1578.311089	1529.343678	1226.640181	383.2923331	454.3182565	441.7535469	1444.764983	426.4547122	1.76112434	1.06E-21	2.97E-19	Klhl21	4	152008803	152017680	+	3986	protein_coding	kelch-like 21 [Source:MGI Symbol;Acc:MGI:1919288]	-
ENSMUSG0000000465	30666.33393	30989.22156	30422.46395	13235.21346	12741.6518	11038.00052	30692.67315	12338.28859	1.314730844	1.96E-21	5.40E-19	Aqp1	6	55336432	55348555	+	2627	protein_coding	aquaporin 1 [Source:MGI Symbol;Acc:MGI:103201]	-
ENSMUSG0000005294	95.19971647	67.40908775	98.3099599	776.0593081	425.6764534	825.1255678	86.97292137	675.6204431	-2.958064326	2.41E-21	6.53E-19	Glis3	19	28258851	28680077	-	8842	protein_coding	GLIS family zinc finger 3 [Source:MGI Symbol;Acc:MGI:2444289]	zf-C2
ENSMUSG0000002604	1450.041997	960.5795004	1135.033173	3976.765622	4172.814421	4534.298521	1181.88489	4227.959522	-1.838637327	4.06E-21	1.09E-18	Col5a2	1	45373421	45503282	-	9591	protein_coding	collagen, type V, alpha 2 [Source:MGI Symbol;Acc:MGI:88458]	-
ENSMUSG0000000090	1314.75819	1711.558869	1103.752732	243.7566972	313.0845376	180.0097052	1376.68993	245.61698	2.48697832	4.50E-21	1.19E-18	Mmp11	10	75923222	75936496	-	2778	protein_coding	matrix metallopeptidase 11 [Source:MGI Symbol;Acc:MGI:97008]	-
ENSMUSG0000001957	3385.101497	13892.59168	9972.875137	583.982476	774.3163329	728.7960499	9083.522771	695.6982863	3.706817904	7.58E-21	1.97E-18	Pdk4	6	5483351	5496309	-	3511	protein_coding	pyruvate dehydrogenase kinase, isoenzyme 4 [Source:MGI Symbol;Acc:MGI:1351481]	-
ENSMUSG0000008759	452.9502299	512.9410271	699.3413056	119.7250209	90.8636513	106.0597723	555.0775209	105.5494815	2.392719681	9.55E-21	2.45E-18	Epb41l4aos	18	33794892	33795986	+	430	lincRNA	erythrocyte membrane protein band 4.1 like 4a, opposite strand [Source:MGI Symbol;Acc:MGI:1916999]	-
ENSMUSG0000004141	3244.807178	3772.80238	2325.924279	12750.28406	10954.00822	14332.66464	3114.511279	12678.98564	-2.025282356	1.43E-20	3.60E-18	Pik3r1	13	101680563	101768217	-	10079	protein_coding	phosphoinositide-3-kinase regulatory subunit 1 [Source:MGI Symbol;Acc:MGI:97583]	-
ENSMUSG0000004267	3207.729394	2650.019762	3288.915022	1136.957033	1061.722013	1116.060173	3048.888059	1104.913073	1.464237575	1.53E-20	3.81E-18	Ypel3	7	126776955	126780514	+	1848	protein_coding	yippee like 3 [Source:MGI Symbol;Acc:MGI:1913340]	-
ENSMUSG0000003938	247.5192628	191.6945933	188.7998094	827.7391733	1389.621276	992.4859425	209.3378885	1069.948797	-2.352592948	1.61E-20	3.98E-18	Dusp10	1	184013302	184075636	+	3042	protein_coding	dual specificity phosphatase 10 [Source:MGI Symbol;Acc:MGI:1927070]	-
ENSMUSG0000002590	1972.137284	1571.474358	1914.809901	602.9317599	595.5519754	483.5936406	1819.473848	560.6924586	1.69798954	2.13E-20	5.17E-18	Sox17	1	4490931	4497354	-	4772	protein_coding	SRY (sex determining region Y)-box 17 [Source:MGI Symbol;Acc:MGI:107543]	HMG
ENSMUSG0000002833	2082.368535	2290.855717	1199.828374	8086.176232	11939.68131	13051.19014	1857.684209	11025.68256	-2.569133863	2.80E-20	6.71E-18	Col15a1	4	47208161	47313167	+	6349	protein_coding	collagen, type XV, alpha 1 [Source:MGI Symbol;Acc:MGI:88449]	-
ENSMUSG0000003192	3085.472916	3548.45651	2222.028525	10097.38432	12698.19527	14070.9208	2951.985984	12288.83346	-2.057486197	2.99E-20	7.08E-18	Cyb5b	8	107150640	107187471	+	4374	protein_coding	cytochrome b5 type B [Source:MGI Symbol;Acc:MGI:1913677]	-
ENSMUSG0000003196	286.6012517	239.0916081	288.2269279	1976.754841	987.6483837	1734.904348	271.3065959	1566.435858	-2.529725727	3.21E-20	7.50E-18	Bmper	9	23223076	23485200	+	4833	protein_coding	BMP-binding endothelial regulator [Source:MGI Symbol;Acc:MGI:1920480]	-
ENSMUSG0000004605	954.0013692	654.0788046	964.1079022	186.0475145	216.294996	208.2274428	857.3960253	203.5233178	2.075384528	3.25E-20	7.50E-18	Sbsn	7	30751471	30756134	+	3625	protein_coding	suprabasin [Source:MGI Symbol;Acc:MGI:2446326]	-
ENSMUSG0000004113	2527.301947	2971.266196	2900.143817	592.5957869	834.5628843	886.4261702	2799.570653	771.1949471	1.860560524	3.64E-20	8.30E-18	Cyyr1	16	85421533	85553397	-	8894	protein_coding	cysteine and tyrosine-rich protein 1 [Source:MGI Symbol;Acc:MGI:2152187]	-
ENSMUSG0000003821	72.15136406	70.56888874	50.27213858	311.801853	554.0707433	496.2429712	64.33079713	454.0385225	-2.816565331	4.26E-20	9.60E-18	Tlcd2	11	75461715	75470899	+	1936	protein_coding	TLC domain containing 2 [Source:MGI Symbol;Acc:MGI:1917141]	-
ENSMUSG0000002403	1433.006258	2401.448751	3224.119821	357.4524005	428.6393985	336.6668001	2352.858277	374.2528664	2.652327536	4.92E-20	1.10E-17	Abcg1	17	31057698	31115777	+	4066	protein_coding	ATP binding cassette subfamily G member 1 [Source:MGI Symbol;Acc:MGI:107704]	-
ENSMUSG0000002010	2698.661436	4951.408149	5258.465696	792.4245987	452.3429598	388.2371481	4302.845094	544.3349022	2.982062612	5.17E-20	1.13E-17	Ddit4	10	59949669	59951834	-	1755	protein_coding	DNA-damage-inducible transcript 4 [Source:MGI Symbol;Acc:MGI:1921997]	-
ENSMUSG0000002787	3056.41195	3764.376244	3838.557071	1000.866721	577.7743045	581.8692094	3553.115088	720.1700784	2.301963343	5.17E-20	1.13E-17	Hmgcs2	3	98280435	98310738	+	3290	protein_coding	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 [Source:MGI Symbol;Acc:MGI:101939]	-
ENSMUSG0000005230	28433.65005	13605.04979	25327.10342	4209.325015	2172.826444	2362.505753	22455.26775	2914.885738	2.945427303	1.06E-19	2.29E-17	Hbb-bs	7	103826534	103828096	-	768	protein_coding	hemoglobin, beta adult s chain [Source:MGI Symbol;Acc:MGI:5474852]	-
ENSMUSG0000003180	1283.693019	1770.54182	1389.745342	444.4468402	473.0835758	434.9423689	1481.326727	450.8242616	1.716308021	1.12E-19	2.38E-17	B3gnt3	8	71690756	71701789	-	3055	protein_coding	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 3 [Source:MGI Symbol;Acc:MGI:2152535]	-
ENSMUSG0000005293	3105.514961	8090.143797	4798.196338	811.3738826	787.1557618	693.7671343	5331.285032	764.0989263	2.802573252	1.73E-19	3.64E-17	Fbxo31	8	121549440	121578806	-	5482	protein_coding	F-box protein 31 [Source:MGI Symbol;Acc:MGI:1354708]	-
ENSMUSG0000005981	3364.057349	4134.07296	4675.308888	1206.724851	1167.40039	1423.53621	4057.813066	1265.88715	1.680526671	2.25E-19	4.67E-17	Rgs3	4	62559847	62704001	+	10801	protein_coding	regulator of G-protein signaling 3 [Source:MGI Symbol;Acc:MGI:1354734]	-
ENSMUSG0000002683	453.9523322	361.2705797	331.7961147	1187.775567	1526.904401	1672.630721	382.3396755	1462.436896	-1.934571849	2.83E-19	5.81E-17	Olfm1	2	28192992	28230736	+	3553	protein_coding	olfactomedin 1 [Source:MGI Symbol;Acc:MGI:1860437]	-
ENSMUSG0000003092	619.2992082	677.2506785	895.9612254	161.068913	161.9743349	201.4162648	730.8370374	174.8198376	2.063809833	3.17E-19	6.45E-17	Rexo5	7	119794006	119848943	+	4782	protein_coding	RNA exonuclease 5 [Source:MGI Symbol;Acc:MGI:1919402]	-
ENSMUSG0000003144	3043.38462	2121.27973	3004.03957	804.4832339	865.1799842	791.0696777	2722.901307	820.2442986	1.731077864	4.94E-19	9.94E-17	Mcf2l	8	12873806	13020905	+	12760	protein_coding	mcf.2 transforming sequence-like [Source:MGI Symbol;Acc:MGI:103263]	-
ENSMUSG0000003839	62807.76241	65077.15462	62862.5164	12307.55988	21131.72482	17580.62354	63582.47781	17006.63608	1.90256059	5.20E-19	1.04E-16	Txnip	3	96557957	96561883	+	3123	protein_coding	thioredoxin interacting protein [Source:MGI Symbol;Acc:MGI:1889549]	-
ENSMUSG0000001821	1226.573189	981.6448404	1547.26471	4167.981123	4204.41917	4810.637745	1251.82758	4394.346012	-1.811797002	7.95E-19	1.57E-16	Pmp22	11	63128982	63159547	+	2354	protein_coding	peripheral myelin protein 22 [Source:MGI Symbol;Acc:MGI:97631]	-
ENSMUSG0000005862	23.04835241	23.17187391	21.22601407	181.7408591	154.0731479	241.3103076	22.48208013	192.3747715	-3.096014242	1.12E-18	2.18E-16	Gm17383	18	82338774	82339816	+	1041	pseudogene	predicted gene, 17383 [Source:MGI Symbol;Acc:MGI:4937017]	-
ENSMUSG0000002835	6.012613672	4.213067984	18.9916968	188.6315077	175.8014123	177.0906289	9.739126152	180.5078497	-4.230506348	1.21E-18	2.34E-16	Orm3	4	63356162	63359511	+	773	protein_coding	orosomucoid 3 [Source:MGI Symbol;Acc:MGI:97445]	-
ENSMUSG0000002865	1413.966315	1315.530478	1890.232411	470.2867727	443.4541243	471.9173354	1539.909735	461.8860775	1.736930138	1.68E-18	3.19E-16	Trit1	4	123016597	123054949	+	2087	protein_coding	tRNA isopentenyltransferase 1 [Source:MGI Symbol;Acc:MGI:1914216]	-
ENSMUSG0000002404	1785.74626	2659.499165	3583.844902	458.2281375	544.1942594	594.51854	2676.363442	532.3136457	2.330065322	1.69E-18	3.19E-16	Sik1	17	31844248	31855792	-	4511	protein_coding	salt inducible kinase 1 [Source:MGI Symbol;Acc:MGI:104754]	-
ENSMUSG0000002444	178.3742056	203.2805302	170.9252712	542.6385839	648.8849881	640.2507354	184.1933357	610.5914358	-1.728328389	2.07E-18	3.87E-16	Pcdh12	18	38267092	38284402	-	6055	protein_coding	protocadherin 12 [Source:MGI Symbol;Acc:MGI:1855700]	-
ENSMUSG0000002707	2538.325072	3351.495582	3545.861508	331.612468	722.9586169	608.1408961	3145.227387	554.237327	2.505251976	3.04E-18	5.64E-16	Slc43a1	2	84838850	84863594	+	5716	protein_coding	solute carrier family 43, member 1 [Source:MGI Symbol;Acc:MGI:1931352]	-
ENSMUSG0000002109	3985.360762	4664.919526	2899.026658	1180.023587	935.3030194	987.6208153	3849.768982	1034.315807	1.895929455	3.98E-18	7.30E-16	Clmn	12	104763117	104865076	-	12409	protein_coding	calmin [Source:MGI Symbol;Acc:MGI:2136957]	-
ENSMUSG0000003771	2270.763763	2354.051736	2223.145684	968.1361402	1055.796122	983.7287136	2282.653728	1002.553659	1.187215255	4.81E-18	8.73E-16	Cisd1	10	71330480	71344954	-	1084	protein_coding	CDGSH iron sulfur domain 1 [Source:MGI Symbol;Acc:MGI:1261855]	-
ENSMUSG0000006991	11183.46143	6105.788776	10509.11128	2254.103451	1353.078286	1386.561243	9266.120496	1664.580993	2.476601678	5.49E-18	9.87E-16	Hba-a1	11	32283511	32284465	+	812	protein_coding	hemoglobin alpha, adult chain 1 [Source:MGI Symbol;Acc:MGI:96015]	-
ENSMUSG0000003275	1597.351032	1262.867128	1333.88741	476.3160903	467.1576855	529.325836	1398.03519	490.9332039	1.510078964	6.78E-18	1.21E-15	Slc8b1	5	120511168	120534024	+	3463	protein_coding	solute carrier family 8 (sodium/lithium/calcium exchanger), member B1 [Source:MGI Symbol;Acc:MGI:2180781]	-
ENSMUSG0000003201	1219.558473	874.2116068	775.3080928	3114.573205	3864.668126	4544.028776	956.3593909	3841.090036	-2.005489488	7.28E-18	1.28E-15	Sc5d	9	42251595	42264256	-	4866	protein_coding	sterol-C5-desaturase [Source:MGI Symbol;Acc:MGI:1353611]	-
ENSMUSG0000004930	260.5465924	261.210215	132.9418776	1037.903958	1091.351464	1317.476437	218.232895	1148.91062	-2.394925498	8.24E-18	1.44E-15	Syt12	19	4445908	4477447	-	5539	protein_coding	synaptotagmin XII [Source:MGI Symbol;Acc:MGI:2159601]	-
ENSMUSG0000003654	1185.486996	1069.066001	1150.673394	3973.320298	2914.55038	3049.461709	1135.075464	3312.444129	-1.545234056	1.06E-17	1.83E-15	Adamts2	11	50602084	50807573	+	9336	protein_coding	a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 2 [Source:MGI Symbol;Acc:MGI:134	-
ENSMUSG0000000409	1715.599101	1005.869981	2335.978706	7713.219871	9926.853905	10390.93861	1685.81593	9343.670795	-2.470636857	1.37E-17	2.34E-15	Col5a3	9	20770050	20815067	-	6809	protein_coding	collagen, type V, alpha 3 [Source:MGI Symbol;Acc:MGI:1858212]	-
ENSMUSG0000002618	178.3742056	189.5880593	189.916968	4.306655428	14.81472576	20.43353411	185.9597443	13.18497176	3.834108806	1.97E-17	3.35E-15	Cxcr2	1	74153989	74161246	+	3048	protein_coding	chemokine (C-X-C motif) receptor 2 [Source:MGI Symbol;Acc:MGI:105303]	-
ENSMUSG0000003135	650.3643788	512.9410271	637.8975807	1741.611455	1599.990382	2063.786945	600.4009955	1801.796261	-1.585406054	3.47E-17	5.85E-15	Zfp185	X	72987339	73031543	+	3707	protein_coding	zinc finger protein 185 [Source:MGI Symbol;Acc:MGI:108095]	-
ENSMUSG0000000580	89.1871028	145.3508455	450.21493	1.722662171	1.975296767	4.865127169	228.2509594	2.854362036	6.332835903	3.59E-17	6.00E-15	Mmp8	9	7558456	7568485	+	2425	protein_coding	matrix metallopeptidase 8 [Source:MGI Symbol;Acc:MGI:1202395]	-
ENSMUSG0000002089	2128.46524	1892.720792	2714.695484	757.1100242	639.9961527	750.2026094	2245.293838	715.7695954	1.649020479	4.37E-17	7.24E-15	Per1	11	69095217	69109960	+	5631	protein_coding	period circadian clock 1 [Source:MGI Symbol;Acc:MGI:1098283]	-
ENSMUSG0000003331	1831.842965	1855.856447	1300.372651	557.2812124	503.7006757	505.0002001	1662.690688	521.9940294	1.671356656	5.39E-17	8.84E-15	Gstt2	10	75831114	75837424	-	4156	protein_coding	glutathione S-transferase, theta 2 [Source:MGI Symbol;Acc:MGI:106188]	-
ENSMUSG0000007031	354.7442066	299.1278269	458.0350404	71.4904801	89.87600292	69.0848058	370.6356913	76.81709627	2.271154306	5.65E-17	9.20E-15	4930581F22Ri	9	35116728	35130922	+	5954	processed_transcrip	RIKEN cDNA 4930581F22 gene [Source:MGI Symbol;Acc:MGI:1926184]	-
ENSMUSG0000011034	207.4351717	115.8593696	222.3145684	747.6353823	1103.203245	1177.360775	181.8697032	1009.399801	-2.472561584	5.74E-17	9.26E-15	Gm45716	11	90187683	90251255	+	2187	protein_coding	predicted gene 45716 [Source:MGI Symbol;Acc:MGI:5804831]	-
ENSMUSG0000000208	85.17869368	97.95383064	62.56088357	322.9991571	388.1458148	414.5088348	81.89780263	375.2179356	-2.19355199	6.21E-17	9.89E-15	Bbc3	7	16308393	16318205	+	2124	protein_coding	BCL2 binding component 3 [Source:MGI Symbol;Acc:MGI:2181667]	-
ENSMUSG0000004782	67.14085267	101.1136316	26.81180725	684.758213	504.6883241	711.2815921	65.02209718	633.5760431	-3.282177293	6.24E-17	9.89E-15	Angptl8	9	21835510	21837347	+	865	protein_coding	angiopoietin-like 8 [Source:MGI Symbol;Acc:MGI:3643534]	-
ENSMUSG0000000083	2279.782684	1889.560991	1702.54976	4938.011114	6506.627552	6597.112441	1957.297812	6013.917036	-1.619228898	7.74E-17	1.22E-14	Fmr1	X	68678541	68717963	+	8966	protein_coding	fragile X mental retardation 1 [Source:MGI Symbol;Acc:MGI:95564]	-
ENSMUSG0000009073	4446.32781	4034.012595	4840.648366	1571.0679	911.5994582	1082.977308	4440.329591	1188.548222	1.901028639	8.45E-17	1.32E-14	Rps27	3	90212522	90213651	-	1043	protein_coding	ribosomal protein S27 [Source:MGI Symbol;Acc:MGI:1888676]	-
ENSMUSG0000004529	912.9151758	1113.303215	537.3533035	3895.8005	3539.731807	4742.525964	854.5238981	4059.352757	-2.24776378	9.47E-17	1.46E-14	Insig1	5	28071363	28078662	+	3093	protein_coding	insulin induced gene 1 [Source:MGI Symbol;Acc:MGI:1916289]	-
ENSMUSG0000004122	129.2711939	201.1739963	187.6826507	758.8326864	3303.683844	1943.131791	172.7092803	2001.882774	-3.535176133	1.05E-16	1.62E-14	Elovl6	3	129532355	129638495	+	6431	protein_coding	ELOVL family member 6, elongation of long chain fatty acids (yeast) [Source:MGI Symbol;Acc:MGI:2156528]	-
ENSMUSG0000002596	271.5697175	236.9850741	224.5488857	1264.434034	742.7115846	973.0254338	244.3678924	993.3903507	-2.023227563	1.09E-16	1.66E-14	Adam23	1	63445891	63596276	+	17907	protein_coding	a disintegrin and metallopeptidase domain 23 [Source:MGI Symbol;Acc:MGI:1345162]	-
ENSMUSG0000002966	4891.261222	2796.423875	3441.965755	23029.40924	12933.25559	17194.33244	3709.883617	17718.99909	-2.255819974	1.17E-16	1.77E-14	Col1a2	6	4504814	4541544	+	12426	protein_coding	collagen, type I, alpha 2 [Source:MGI Symbol;Acc:MGI:88468]	-
ENSMUSG0000003952	896.8815394	1111.196681	821.1115969	214.4714403	313.0845376	252.0135873	943.0632724	259.8565218	1.860829009	1.39E-16	2.07E-14	Atp8b1	18	64528979	64661000	-	6440	protein_coding	ATPase, class I, type 8B, member 1 [Source:MGI Symbol;Acc:MGI:1859665]	-
ENSMUSG0000004573	1026.152733	739.3934313	1528.273013	204.1354673	225.1838315	235.472155	1097.939726	221.5971513	2.308899173	1.61E-16	2.38E-14	Adrb2	18	62177817	62179959	-	2143	protein_coding	adrenergic receptor, beta 2 [Source:MGI Symbol;Acc:MGI:87938]	-
ENSMUSG0000004942	2046.292853	3652.729942	1666.806004	468.5641106	442.4664759	283.1504012	2455.274493	398.0603292	2.624560343	1.68E-16	2.48E-14	Chchd10	10	75933130	75937747	+	1575	protein_coding	coiled-coil-helix-coiled-coil-helix domain containing 10 [Source:MGI Symbol;Acc:MGI:2143558]	-
ENSMUSG0000002118	4632.718834	4433.200787	5655.071011	1968.141531	1642.459262	1460.511176	4906.992211	1690.370656	1.537237893	1.72E-16	2.51E-14	Fbln5	12	101746565	101819055	-	6911	protein_coding	fibulin 5 [Source:MGI Symbol;Acc:MGI:1346091]	-
ENSMUSG0000009130	3.006306836	3.159800988	0	85.27177447	147.1596092	211.1465191	2.055369275	147.8593019	-6.137871421	2.73E-16	3.96E-14	Gm8895	12	103867846	103881511	-	1223	unprocessed_pseud	predicted gene 8895 [Source:MGI Symbol;Acc:MGI:3643891]	-
ENSMUSG0000001730	8749.354995	6930.496834	10114.75428	2808.80067	3057.759396	3198.334601	8598.202037	3021.631556	1.508735109	3.51E-16	5.05E-14	Cd300lg	11	102041509	102055620	+	2737	protein_coding	CD300 molecule like family member G [Source:MGI Symbol;Acc:MGI:1289168]	-
ENSMUSG0000002683	1594.344725	764.6718392	1064.652179	4861.352647	4893.797741	4999.404679	1141.222915	4918.185022	-2.107329708	3.78E-16	5.40E-14	Col5a1	2	27886425	28039514	+	8490	protein_coding	collagen, type V, alpha 1 [Source:MGI Symbol;Acc:MGI:88457]	-
ENSMUSG0000002679	3203.720985	3807.560191	4342.395615	1520.249366	1212.832215	1299.96198	3784.55893	1344.347854	1.4928958	5.75E-16	8.15E-14	Fam129b	2	32876114	32925254	+	4672	protein_coding	family with sequence similarity 129, member B [Source:MGI Symbol;Acc:MGI:2442910]	-
ENSMUSG0000007380	94.19761419	42.13067984	53.62361449	484.0680701	324.9363183	529.325836	63.31730284	446.1100748	-2.814114156	6.05E-16	8.49E-14	Cdkn2b	4	89306299	89311039	-	1390	protein_coding	cyclin dependent kinase inhibitor 2B [Source:MGI Symbol;Acc:MGI:104737]	-
ENSMUSG0000002190	6341.303219	12509.62511	6890.634462	1936.27228	1957.519097	1974.268605	8580.529931	1956.019994	2.133149733	6.08E-16	8.49E-14	Galnt15	14	32028989	32062197	+	6326	protein_coding	polypeptide N-acetylgalactosaminyltransferase 15 [Source:MGI Symbol;Acc:MGI:1926004]	-
ENSMUSG0000002024	2424.085412	1110.143414	1769.579278	9805.393078	6886.87218	9108.491086	1767.936035	8600.252115	-2.282241988	6.33E-16	8.77E-14	Col6a2	10	76595762	76623630	-	8326	protein_coding	collagen, type VI, alpha 2 [Source:MGI Symbol;Acc:MGI:88460]	-
ENSMUSG0000001983	422.8871616	322.2997008	374.2481428	960.3841604	1086.413222	1128.709503	373.1450017	1058.502295	-1.503680834	6.47E-16	8.91E-14	Rab32	10	10545002	10558265	-	2339	protein_coding	RAB32, member RAS oncogene family [Source:MGI Symbol;Acc:MGI:1915094]	-
ENSMUSG0000007394	4530.504402	1565.154756	2849.871678	504.7400162	263.7021185	227.6879515	2981.843612	332.043362	3.166012284	6.60E-16	9.01E-14	Hbb-bt	7	103812524	103813996	-	703	protein_coding	hemoglobin, beta adult t chain [Source:MGI Symbol;Acc:MGI:5474850]	-
ENSMUSG0000003056	2627.512175	2034.911836	2235.434429	5627.937313	5445.893188	6350.937006	2299.286147	5808.255836	-1.336812882	6.88E-16	9.31E-14	Ctsc	7	88278085	88310888	+	5808	protein_coding	cathepsin C [Source:MGI Symbol;Acc:MGI:109553]	-
ENSMUSG0000005648	323.679036	124.2855055	205.5571889	1252.375398	1470.608443	1147.196986	217.8405768	1290.060276	-2.565224973	6.92E-16	9.31E-14	Cd248	19	5068078	5070637	+	2560	protein_coding	CD248 antigen, endosialin [Source:MGI Symbol;Acc:MGI:1917695]	-
ENSMUSG0000005705	610.2802877	757.2989702	578.688173	173.1275482	168.8878736	222.8228243	648.7558103	188.2794154	1.785407424	7.04E-16	9.41E-14	Inca1	11	70688361	70700155	-	1377	protein_coding	inhibitor of CDK, cyclin A1 interacting protein 1 [Source:MGI Symbol;Acc:MGI:2144284]	-
ENSMUSG0000002847	1782.739954	1802.13983	2103.60971	797.5925853	790.118707	829.990695	1896.163165	805.9006624	1.234285443	7.10E-16	9.42E-14	Gne	4	44034075	44084177	-	6358	protein_coding	glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase [Source:MGI Symbol;Acc:MGI:1354951]	-
ENSMUSG0000008693	279.5865357	420.2535314	354.1392874	83.5491153	77.03657393	55.46244973	351.3264515	72.01604632	2.284324402	7.18E-16	9.47E-14	4930481A15Ri	19	5406740	5422847	+	2240	antisense	RIKEN cDNA 4930481A15 gene [Source:MGI Symbol;Acc:MGI:1922181]	-
ENSMUSG0000000654	5.010511393	7.372868973	11.17158635	160.2075819	107.6536738	101.1946451	7.851655573	123.0186336	-3.982689489	7.54E-16	9.85E-14	Prkag3	1	74738922	74749221	-	3682	protein_coding	protein kinase, AMP-activated, gamma 3 non-catatlytic subunit [Source:MGI Symbol;Acc:MGI:1891343]	-
ENSMUSG0000002688	62.13034127	22.11860692	65.91235948	543.499915	341.7263408	413.5358094	50.05376922	432.9206884	-3.113533301	7.58E-16	9.85E-14	Grb14	2	64912476	65024987	-	7185	protein_coding	growth factor receptor bound protein 14 [Source:MGI Symbol;Acc:MGI:1355324]	-
ENSMUSG0000003845	1472.088247	2055.977176	1909.224108	619.2970505	679.502088	587.707362	1812.429844	628.835002	1.527118111	9.54E-16	1.23E-13	Dennd2a	6	39462378	39557867	-	7229	protein_coding	DENN/MADD domain containing 2A [Source:MGI Symbol;Acc:MGI:2444961]	-
ENSMUSG0000003683	1326.783417	1628.350776	3081.123516	348.8390897	390.1211116	372.6687411	2012.085903	370.5429808	2.440932037	1.14E-15	1.46E-13	Pnpla7	2	24976033	25054057	+	7496	protein_coding	patatin-like phospholipase domain containing 7 [Source:MGI Symbol;Acc:MGI:2385325]	-
ENSMUSG0000002102	2714.695073	4319.447951	3994.95928	1097.335803	1202.955731	1149.143037	3676.367434	1149.811524	1.676880082	1.19E-15	1.51E-13	Nfkbia	12	55489410	55492647	-	1610	protein_coding	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, alpha [Source:MGI Symbol;Acc:MGI:104741]	-
ENSMUSG0000004408	32.06727292	36.86434486	25.69464861	255.8153324	153.0854995	246.1754347	31.5420888	218.3587555	-2.790198795	1.27E-15	1.60E-13	Efcab8	2	153779931	153844751	+	5693	protein_coding	EF-hand calcium binding domain 8 [Source:MGI Symbol;Acc:MGI:3644206]	-
ENSMUSG0000003826	1754.68109	3178.759794	2806.302492	662.3636048	736.7856943	647.0619135	2579.914459	682.0704042	1.919304449	1.57E-15	1.97E-13	Sema7a	9	57940112	57962865	+	3298	protein_coding	sema domain, immunoglobulin domain (Ig), and GPI membrane anchor, (semaphorin) 7A [Source:MGI Symbol;Acc:MGI:1306826]	-
ENSMUSG0000003568	6764.190381	6064.711364	3467.660404	18675.3806	32156.84373	32006.69862	5432.187383	27612.97431	-2.345680241	1.61E-15	2.00E-13	Thrsp	7	97412938	97417730	-	2189	protein_coding	thyroid hormone responsive [Source:MGI Symbol;Acc:MGI:109126]	-
ENSMUSG0000009078	174.3657965	129.5518405	766.3708238	9.474641942	14.81472576	7.78420347	356.7628205	10.69119039	5.062410446	1.74E-15	2.16E-13	Gm17116	14	64111200	64114641	-	1013	antisense	predicted gene 17116 [Source:MGI Symbol;Acc:MGI:4937943]	-
ENSMUSG0000008990	143.3006258	137.9779765	157.5193676	24.1172704	10.86413222	16.54143237	146.26599	17.17427833	3.079254541	1.82E-15	2.25E-13	Gm8113	14	43925390	43933411	+	2721	protein_coding	predicted gene 8113 [Source:MGI Symbol;Acc:MGI:3648791]	-
ENSMUSG0000003707	64481.27322	127382.1105	124310.71	375525.7107	603872.913	631134.4601	105391.3646	536844.3613	-2.34874952	1.90E-15	2.32E-13	Scd1	19	44394451	44407709	-	4836	protein_coding	stearoyl-Coenzyme A desaturase 1 [Source:MGI Symbol;Acc:MGI:98239]	-
ENSMUSG0000003350	104.218637	102.1668986	78.20110447	6.890648685	3.950593535	2.919076301	94.86221335	4.58677284	4.351248957	1.96E-15	2.38E-13	Asprv1	6	86628164	86629710	+	1547	protein_coding	aspartic peptidase, retroviral-like 1 [Source:MGI Symbol;Acc:MGI:1915105]	-
ENSMUSG0000004812	1391.920065	703.5823534	776.4252515	4156.783819	4109.604925	3979.674024	957.3092233	4082.020923	-2.091881384	2.29E-15	2.75E-13	Col6a3	1	90765923	90843971	-	11963	protein_coding	collagen, type VI, alpha 3 [Source:MGI Symbol;Acc:MGI:88461]	-
ENSMUSG0000000765	21438.97615	11753.40641	16852.33801	54132.07474	59674.70299	68116.64549	16681.57352	60641.14107	-1.862029368	2.29E-15	2.75E-13	Cav1	6	17306335	17341452	+	3444	protein_coding	caveolin 1, caveolae protein [Source:MGI Symbol;Acc:MGI:102709]	-
ENSMUSG0000002527	1394.926372	582.4566488	998.7398199	201.551474	166.9125769	159.5761711	992.0409469	176.0134073	2.494225212	2.44E-15	2.90E-13	Alas2	X	150547375	150570638	+	2403	protein_coding	aminolevulinic acid synthase 2, erythroid [Source:MGI Symbol;Acc:MGI:87990]	-
ENSMUSG0000004577	2.004204557	5.26633498	0	93.02375724	102.7154319	167.3603746	2.423513179	121.0331879	-5.623904586	2.63E-15	3.12E-13	Lrtm1	14	29018208	29033645	+	7939	protein_coding	leucine-rich repeats and transmembrane domains 1 [Source:MGI Symbol;Acc:MGI:2442106]	-
ENSMUSG0000003015	4000.392296	3139.788915	4351.332884	1516.804042	1436.04075	1298.015929	3830.504699	1416.953573	1.434598863	2.85E-15	3.35E-13	Clec2d	6	129180615	129186534	+	1213	protein_coding	C-type lectin domain family 2, member d [Source:MGI Symbol;Acc:MGI:2135589]	-
ENSMUSG0000003263	1917.021659	2220.286828	1927.098646	851.8564436	928.3894807	818.3143898	2021.469044	866.1867714	1.222750151	2.87E-15	3.36E-13	Flcn	11	59791408	59810016	-	4322	protein_coding	folliculin [Source:MGI Symbol;Acc:MGI:2442184]	-
ENSMUSG0000003701	41.08619342	10.53266996	4.468634541	435.8335293	309.1339441	393.1022752	18.69583264	379.3565829	-4.331424744	3.02E-15	3.51E-13	Apln	X	48025146	48034853	-	3149	protein_coding	apelin [Source:MGI Symbol;Acc:MGI:1353624]	-
ENSMUSG0000011061	95.19971647	123.2322385	180.9796989	13.78129737	10.86413222	9.730254338	133.137218	11.45856131	3.531667454	3.19E-15	3.68E-13	Gm39822	11	51898966	51909624	+	2284	lincRNA	predicted gene, 39822 [Source:MGI Symbol;Acc:MGI:5622707]	-
ENSMUSG0000002865	1432.004156	2978.639065	1972.90215	467.7027795	312.0968893	491.3778441	2127.848457	423.7258376	2.32787603	4.58E-15	5.26E-13	Mycl	4	122995652	123002485	+	4038	protein_coding	v-myc avian myelocytomatosis viral oncogene lung carcinoma derived [Source:MGI Symbol;Acc:MGI:96799]	bHLH
ENSMUSG0000008643	24.05045469	2.106533992	17.87453816	211.8874471	297.2821635	232.5530787	14.67717561	247.2408964	-4.071250918	4.99E-15	5.69E-13	B430119L08Ri	12	103895897	103898784	+	1994	antisense	RIKEN cDNA B430119L08 gene [Source:MGI Symbol;Acc:MGI:2441857]	-
ENSMUSG0000005415	1109.327222	1302.891274	786.4796792	226.5300755	322.9610215	273.4201469	1066.232725	274.303748	1.959703567	5.15E-15	5.84E-13	Syne3	12	104929933	105009809	-	5548	protein_coding	spectrin repeat containing, nuclear envelope family member 3 [Source:MGI Symbol;Acc:MGI:2442408]	-
ENSMUSG0000005461	9401.723578	8354.513813	9732.68603	4421.212462	4435.528891	4394.182859	9162.974474	4416.974738	1.052746269	5.35E-15	6.02E-13	Mettl7a1	15	100304140	100328662	+	2595	protein_coding	methyltransferase like 7A1 [Source:MGI Symbol;Acc:MGI:1916523]	-
ENSMUSG0000002720	1623.405691	1133.315288	1192.008264	3489.252228	4877.007719	4158.710704	1316.243081	4174.990217	-1.66507394	5.38E-15	6.02E-13	Fbn1	2	125300594	125507993	-	12128	protein_coding	fibrillin 1 [Source:MGI Symbol;Acc:MGI:95489]	-
ENSMUSG0000004857	883.8542097	1955.916812	3279.977753	294.5752313	219.2579412	158.6031457	2039.916258	224.1454394	3.185242592	6.10E-15	6.79E-13	Tmem252	19	24674008	24679661	+	2462	protein_coding	transmembrane protein 252 [Source:MGI Symbol;Acc:MGI:3583948]	-
ENSMUSG0000002015	149.3132395	86.36789368	83.78689764	441.0015158	491.8488951	586.7343366	106.4893436	506.5282492	-2.247283753	6.71E-15	7.42E-13	Gamt	10	80258151	80261012	-	1444	protein_coding	guanidinoacetate methyltransferase [Source:MGI Symbol;Acc:MGI:1098221]	-
ENSMUSG0000002810	1421.983133	1168.073099	1970.667833	460.8121308	425.6764534	444.6726332	1520.241355	443.7204025	1.776247492	7.21E-15	7.93E-13	Polr3gl	3	96577877	96594181	-	1597	protein_coding	polymerase (RNA) III (DNA directed) polypeptide G like [Source:MGI Symbol;Acc:MGI:1917120]	-
ENSMUSG0000000537	444.9334117	460.2776773	435.6918677	1060.298566	993.574274	1188.064055	446.9676522	1080.645632	-1.273555577	7.37E-15	8.06E-13	Tbl2	5	135149657	135165760	+	7855	protein_coding	transducin (beta)-like 2 [Source:MGI Symbol;Acc:MGI:1351652]	-
ENSMUSG0000003998	709.4884133	737.2868973	774.1909342	1840.66453	3353.066263	2760.473156	740.3220816	2651.401316	-1.840437392	7.76E-15	8.44E-13	Dtx4	19	12466341	12501996	-	5765	protein_coding	deltex 4, E3 ubiquitin ligase [Source:MGI Symbol;Acc:MGI:2672905]	-
ENSMUSG0000002944	187.3931261	133.7649085	135.1761949	464.2574551	559.9966336	570.1929042	152.1114098	531.482331	-1.803070753	8.12E-15	8.78E-13	Psph	5	129765558	129787449	-	4329	protein_coding	phosphoserine phosphatase [Source:MGI Symbol;Acc:MGI:97788]	-
ENSMUSG0000002300	2242.7049	1560.941688	3702.263717	11482.4047	12623.13399	11097.35507	2501.970102	11734.29792	-2.229708845	8.23E-15	8.85E-13	Tuba1b	15	98931425	98934565	-	1875	protein_coding	tubulin, alpha 1B [Source:MGI Symbol;Acc:MGI:107804]	-
ENSMUSG0000003734	146.3069327	148.5106465	83.78689764	659.7796116	461.2317952	631.4935065	126.2014923	584.1683044	-2.209104008	9.33E-15	9.97E-13	Paqr7	4	134496697	134510235	+	4259	protein_coding	progestin and adipoQ receptor family member VII [Source:MGI Symbol;Acc:MGI:1919154]	-
ENSMUSG0000003815	9085.059258	7561.403765	5954.455526	2302.337992	2569.861095	2833.450063	7533.639516	2568.549716	1.55252030	9.52E-15	1.01E-12	Ormdl3	11	98581256	98587368	-	2184	protein_coding	ORM1-like 3 (S. cerevisiae) [Source:MGI Symbol;Acc:MGI:1913862]	-
ENSMUSG0000008514	344.7231838	317.0333658	377.5996187	880.2803695	871.1058745	813.4492626	346.4520561	854.9451689	-1.303646201	1.32E-14	1.40E-12	Mir22hg	11	75461539	75466676	+	1924	processed_transcrip	Mir22 host gene (non-protein coding) [Source:MGI Symbol;Acc:MGI:1914348]	-
ENSMUSG0000000150	2212.641831	1057.480064	2056.689047	16001.8091	7270.079753	9326.448783	1775.603648	10866.11248	-2.613477458	1.35E-14	1.42E-12	Col1a1	11	94936224	94953042	+	6563	protein_coding	collagen, type I, alpha 1 [Source:MGI Symbol;Acc:MGI:88467]	-
ENSMUSG0000006174	2631.520584	4652.280322	5031.682493	1051.685256	1146.659774	1018.757629	4105.161133	1072.367553	1.936585174	1.51E-14	1.58E-12	Cyp2d22	15	82370527	82380260	-	3909	protein_coding	cytochrome P450, family 2, subfamily d, polypeptide 22 [Source:MGI Symbol;Acc:MGI:1929474]	-
ENSMUSG0000007171	2044.288648	3265.127688	1324.950141	421.1909009	484.9353564	397.9674024	2211.455493	434.6978866	2.347065013	1.71E-14	1.78E-12	Csf2rb2	15	78282507	78305721	-	4740	protein_coding	colony stimulating factor 2 receptor, beta 2, low-affinity (granulocyte-macrophage) [Source:MGI Symbol;Acc:MGI:1339760]	-
ENSMUSG0000002136	678.4232426	691.9964164	906.0156532	201.551474	240.9862056	141.0886879	758.8117707	194.5421225	1.963381984	1.79E-14	1.85E-12	Edn1	13	42301476	42307990	+	2139	protein_coding	endothelin 1 [Source:MGI Symbol;Acc:MGI:95283]	-
ENSMUSG0000000117	5462.459521	5732.93226	5280.808869	10313.57842	11186.10559	10808.36652	5492.066883	10769.35018	-0.971473373	1.96E-14	2.02E-12	Calm1	12	100199435	100209814	+	4706	protein_coding	calmodulin 1 [Source:MGI Symbol;Acc:MGI:88251]	-
ENSMUSG0000002941	244.512956	220.1328022	174.2767471	611.5450708	756.5386619	928.2662638	212.9741684	765.4499988	-1.844291492	2.02E-14	2.07E-12	Cxcl9	5	92321347	92328079	-	3016	protein_coding	chemokine (C-X-C motif) ligand 9 [Source:MGI Symbol;Acc:MGI:1352449]	-
ENSMUSG0000001531	529.1100031	834.1874609	574.2195385	184.3248523	180.7396542	179.0366798	645.8390008	181.3670621	1.832105116	2.24E-14	2.27E-12	Gadd45b	10	80930073	80932204	+	1589	protein_coding	growth arrest and DNA-damage-inducible 45 beta [Source:MGI Symbol;Acc:MGI:107776]	-
ENSMUSG0000002003	1340.812849	1551.462285	1767.344961	556.4198813	634.0702624	626.6283794	1553.206698	605.7061743	1.358675347	2.44E-14	2.47E-12	Tcp11l2	10	84576626	84614359	+	3438	protein_coding	t-complex 11 (mouse) like 2 [Source:MGI Symbol;Acc:MGI:2444679]	-
ENSMUSG0000002263	546.1457418	505.5681581	350.7878115	1346.260487	2245.912425	1840.964121	467.5005705	1811.045677	-1.953077546	2.73E-14	2.74E-12	Alcam	16	52248996	52454074	-	7121	protein_coding	activated leukocyte cell adhesion molecule [Source:MGI Symbol;Acc:MGI:1313266]	-
ENSMUSG0000000122	1034.169552	1609.39197	1126.095904	419.4682387	383.2075729	354.1812579	1256.552475	385.6190232	1.703861371	2.86E-14	2.87E-12	Sema6b	17	56123085	56140343	-	3968	protein_coding	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6B [Source:MGI Symbol;Acc:MGI:1202889]	-
ENSMUSG0000011690	62.13034127	30.54474289	42.45202814	204.1354673	472.0959274	410.6167331	45.04237077	362.2827093	-3.005066876	3.32E-14	3.30E-12	AC161607.1	16	42884370	42912065	-	2525	antisense	novel transcript, antisense to Zbtb20	-
ENSMUSG0000007171	4034.463774	5529.65173	3018.562632	956.9388361	1339.251208	973.0254338	4194.226045	1089.738493	1.944617764	3.48E-14	3.45E-12	Csf2rb	15	78325752	78353847	+	7277	protein_coding	colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage) [Source:MGI Symbol;Acc:MGI:1339759]	-
ENSMUSG0000009888	5.010511393	11.58593696	1.117158635	99.0530748	120.4931028	131.3584336	5.904535662	116.9682037	-4.296908879	3.65E-14	3.60E-12	Mir6392	15	84168270	84168377	+	108	miRNA	microRNA 6392 [Source:MGI Symbol;Acc:MGI:5530813]	-
ENSMUSG0000002868	220.4625013	99.00709763	90.48984945	1063.743891	1151.598015	635.3856083	136.6531495	950.2425048	-2.796002578	3.85E-14	3.78E-12	Ptch2	4	117096075	117116101	+	5974	protein_coding	patched 2 [Source:MGI Symbol;Acc:MGI:1095405]	-
ENSMUSG0000008629	563.1814806	562.4445759	1042.309007	169.6822239	113.5795641	148.8728914	722.6450211	144.0448931	2.325286394	4.53E-14	4.42E-12	Snhg12	4	132308623	132311024	+	2402	lincRNA	small nucleolar RNA host gene 12 [Source:MGI Symbol;Acc:MGI:1916721]	-
ENSMUSG0000007031	1577.308987	1480.893397	1715.955664	701.9848348	623.2061301	737.5532788	1591.386016	687.5814146	1.210453726	4.63E-14	4.47E-12	Eif3g	9	20894349	20898623	-	1984	protein_coding	eukaryotic translation initiation factor 3, subunit G [Source:MGI Symbol;Acc:MGI:1858258]	-
ENSMUSG0000005711	4866.208665	5695.014648	6008.07914	2635.673122	2283.443063	2249.634803	5523.100818	2389.583663	1.208532117	4.63E-14	4.47E-12	Npm1	11	33152287	33163206	-	2665	protein_coding	nucleophosmin 1 [Source:MGI Symbol;Acc:MGI:106184]	-
ENSMUSG0000004544	891.871028	1703.132733	2948.181638	87.85577073	253.8256346	212.1195446	1847.728466	184.6003166	3.324325913	4.83E-14	4.64E-12	Gprin3	6	59347226	59426294	-	8339	protein_coding	GPRIN family member 3 [Source:MGI Symbol;Acc:MGI:1924785]	-
ENSMUSG0000011212	308.6475018	410.7741285	364.1937151	62.87716925	108.6413222	72.97690753	361.2051151	81.49846633	2.150643596	5.01E-14	4.79E-12	Pbld1	10	63060162	63077962	+	3928	protein_coding	phenazine biosynthesis-like protein domain containing 1 [Source:MGI Symbol;Acc:MGI:1915621]	-
ENSMUSG0000004371	256.5381833	266.47655	90.48984945	1630.499745	1006.413703	1775.771417	204.5015276	1470.894955	-2.84548188	5.33E-14	5.06E-12	Col6a6	9	105687809	105828160	-	9166	protein_coding	collagen, type VI, alpha 6 [Source:MGI Symbol;Acc:MGI:2444259]	-
ENSMUSG0000005844	2215.648138	1839.004175	1710.369871	4377.284577	4436.51654	5136.601265	1921.674061	4650.134127	-1.274702362	6.47E-14	6.12E-12	Znrf2	6	54816916	54893500	+	6176	protein_coding	zinc and ring finger 2 [Source:MGI Symbol;Acc:MGI:1196246]	-
ENSMUSG0000004509	4793.055199	5916.200717	6521.972112	1755.392752	2319.986053	2247.688752	5743.742676	2107.689186	1.446445346	6.96E-14	6.54E-12	S1pr1	3	115710433	115715072	-	3046	protein_coding	sphingosine-1-phosphate receptor 1 [Source:MGI Symbol;Acc:MGI:1096355]	-
ENSMUSG0000002607	53.11142077	123.2322385	210.0258234	2.583993257	4.938241919	4.865127169	128.7898276	4.129120781	4.974263424	8.96E-14	8.38E-12	Il1r2	1	40074079	40125231	+	1908	protein_coding	interleukin 1 receptor, type II [Source:MGI Symbol;Acc:MGI:96546]	-
ENSMUSG0000003188	1234.590007	1434.549649	1407.61988	495.2653742	624.1937785	542.948192	1358.919845	554.1357816	1.294569629	9.62E-14	8.95E-12	D230025D16R	8	105225145	105253053	+	4704	protein_coding	RIKEN cDNA D230025D16 gene [Source:MGI Symbol;Acc:MGI:2443049]	-
ENSMUSG0000004204	38.07988659	60.03621878	18.9916968	254.9540013	353.5781214	267.5819943	39.03593405	292.038039	-2.899846872	1.09E-13	1.00E-11	2010003K11Ri	19	4496790	4498583	-	1165	protein_coding	RIKEN cDNA 2010003K11 gene [Source:MGI Symbol;Acc:MGI:1917111]	-
ENSMUSG0000002388	4755.977414	1280.772667	5385.82178	405.6869413	537.2807208	397.9674024	3807.523954	446.9783548	3.090674403	1.09E-13	1.00E-11	Thbs2	17	14665500	14694235	-	7003	protein_coding	thrombospondin 2 [Source:MGI Symbol;Acc:MGI:98738]	-
ENSMUSG0000005073	335.7042633	523.4736971	312.8044179	1197.250209	2691.341846	2199.03748	390.6607928	2029.209845	-2.376676072	1.30E-13	1.19E-11	Ptges	2	30889471	30929863	-	3931	protein_coding	prostaglandin E synthase [Source:MGI Symbol;Acc:MGI:1927593]	-
ENSMUSG0000001125	3027.350984	2820.649016	2491.263757	979.3334443	1282.95525	967.1872812	2779.754585	1076.491992	1.368930715	1.31E-13	1.19E-11	Pabpc4	4	123262351	123298925	+	4027	protein_coding	poly(A) binding protein, cytoplasmic 4 [Source:MGI Symbol;Acc:MGI:2385206]	-
ENSMUSG0000006068	2946.180699	3944.4849	4654.082874	1010.341363	1410.361892	1236.715326	3848.249491	1219.139527	1.658482511	1.38E-13	1.26E-11	Slc9a6	X	56609757	56664230	+	5098	protein_coding	solute carrier family 9 (sodium/hydrogen exchanger), member 6 [Source:MGI Symbol;Acc:MGI:2443511]	-
ENSMUSG0000009163	227.4772172	84.26135969	188.7998094	1054.269249	921.475942	790.0966522	166.8461288	921.947281	-2.465916261	1.49E-13	1.35E-11	Gm3756	9	31935446	31936800	-	1355	processed_pseudog	predicted gene 3756 [Source:MGI Symbol;Acc:MGI:3781931]	-
ENSMUSG0000004262	419.8808547	586.6697168	785.3625206	118.8636898	161.9743349	140.1156625	597.304364	140.3178957	2.090356002	1.71E-13	1.54E-11	Maff	15	79346621	79359076	+	2594	protein_coding	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein F (avian) [Source:MGI Symbol;Acc:MGI:96910]	TF_b
ENSMUSG0000003577	2265.753252	1827.418238	1900.286839	852.7177747	918.5129969	863.0735598	1997.819443	878.1014438	1.186209222	1.90E-13	1.70E-11	Ggta1	2	35400179	35463231	-	4709	protein_coding	glycoprotein galactosyltransferase alpha 1, 3 [Source:MGI Symbol;Acc:MGI:95704]	-
ENSMUSG0000002043	6303.223333	7560.350498	5105.414963	2571.07329	2377.26966	2409.210974	6322.996264	2452.517975	1.366335755	1.98E-13	1.76E-11	Tcn2	11	3917192	3932159	-	2178	protein_coding	transcobalamin 2 [Source:MGI Symbol;Acc:MGI:98534]	-
ENSMUSG0000006434	37748.19073	37995.55362	37727.56427	75115.82264	110788.4698	103799.4342	37823.76954	96567.90888	-1.352245379	2.10E-13	1.86E-11	mt-Nd1	MT	2751	3707	+	957	protein_coding	mitochondrially encoded NADH dehydrogenase 1 [Source:MGI Symbol;Acc:MGI:101787]	-
ENSMUSG0000002866	75.1576709	47.39701482	37.9833936	380.7083398	230.1220734	311.3681388	53.51269311	307.3995174	-2.519009509	2.13E-13	1.88E-11	Ephb2	4	136647539	136835988	-	12608	protein_coding	Eph receptor B2 [Source:MGI Symbol;Acc:MGI:99611]	-
ENSMUSG0000004113	2303.833139	2166.570211	2066.743475	1061.159897	1049.870232	906.8597043	2179.048942	1005.963278	1.115048318	2.19E-13	1.92E-11	Zfp598	17	24669752	24682015	+	3286	protein_coding	zinc finger protein 598 [Source:MGI Symbol;Acc:MGI:2670965]	-