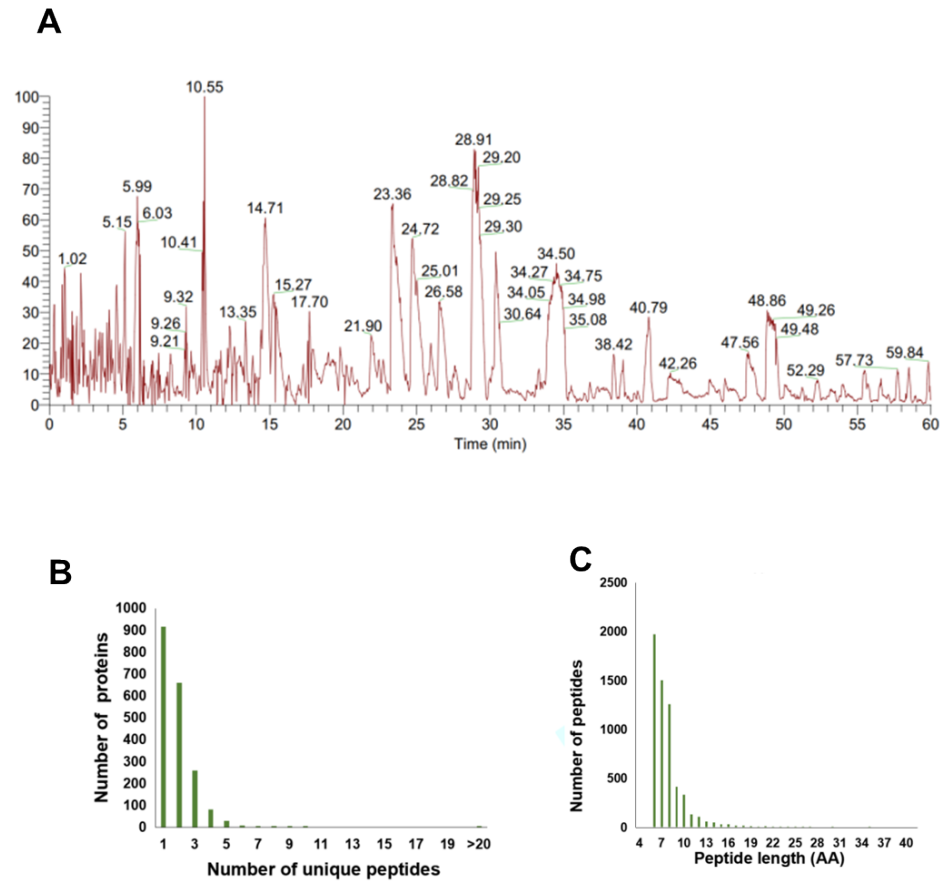


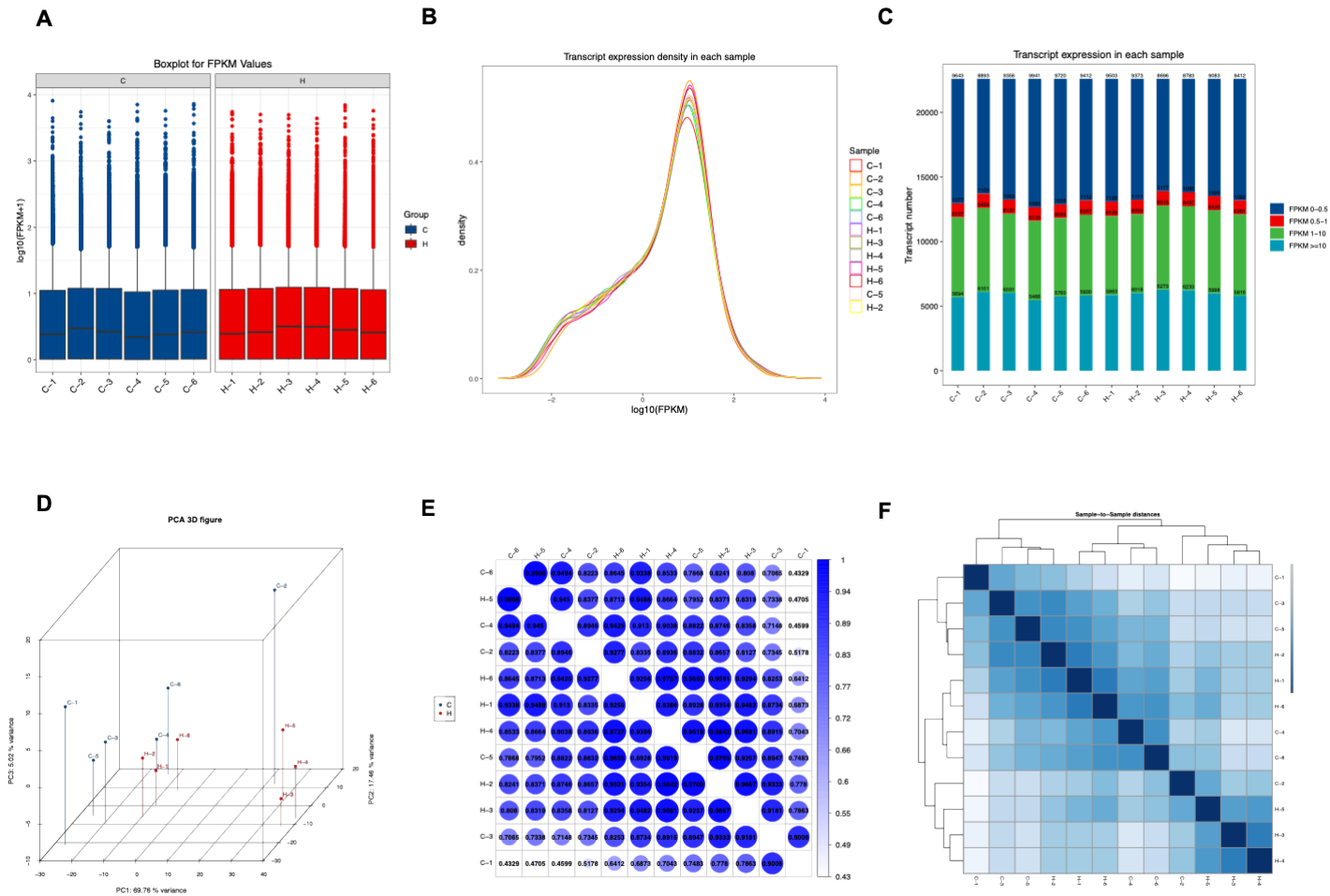
Supplementary Materials

This appendix formed part of the original submission.

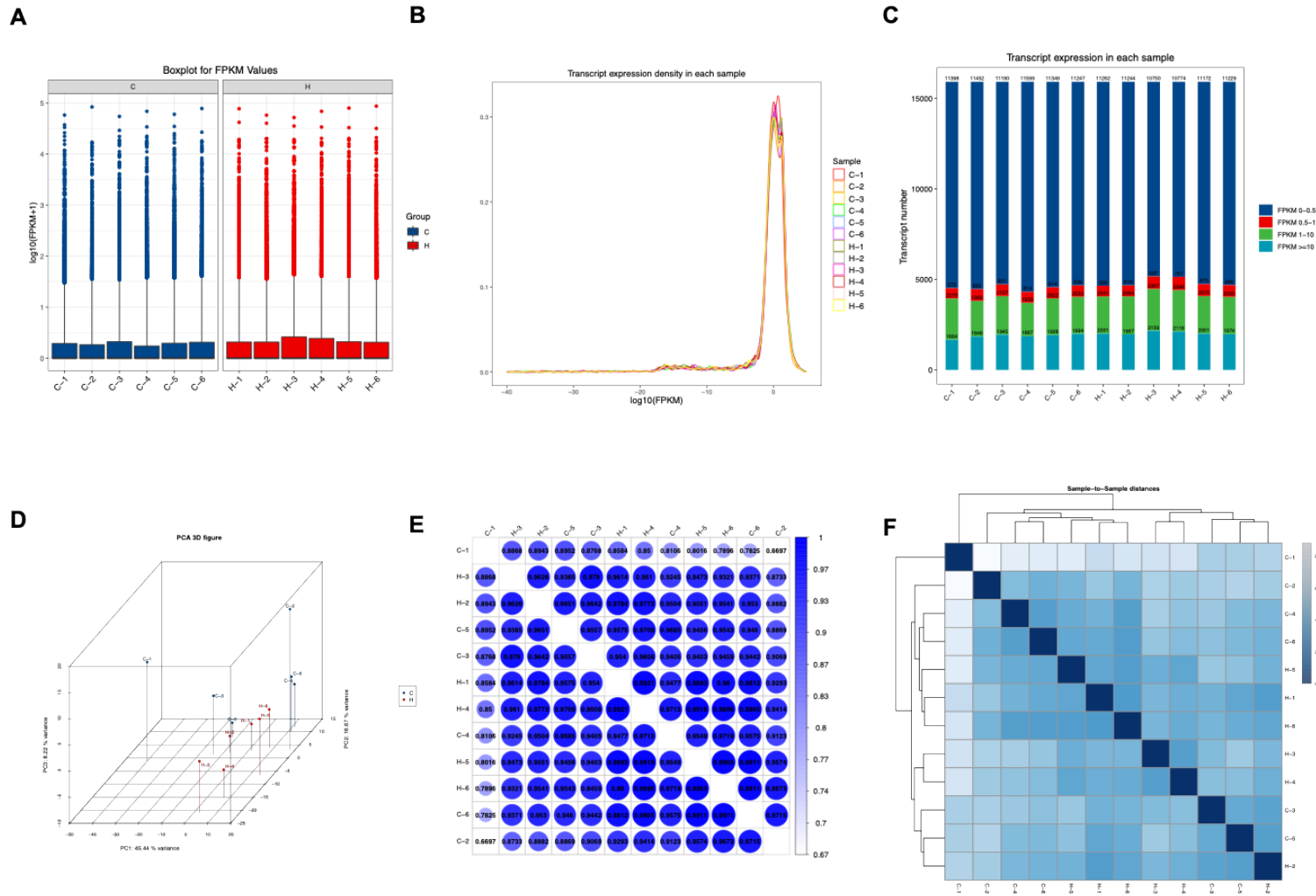
Supplement to: Egg white-derived peptides decreased blood pressure via the competing endogenous RNA regulatory networks in female spontaneously hypertensive rats



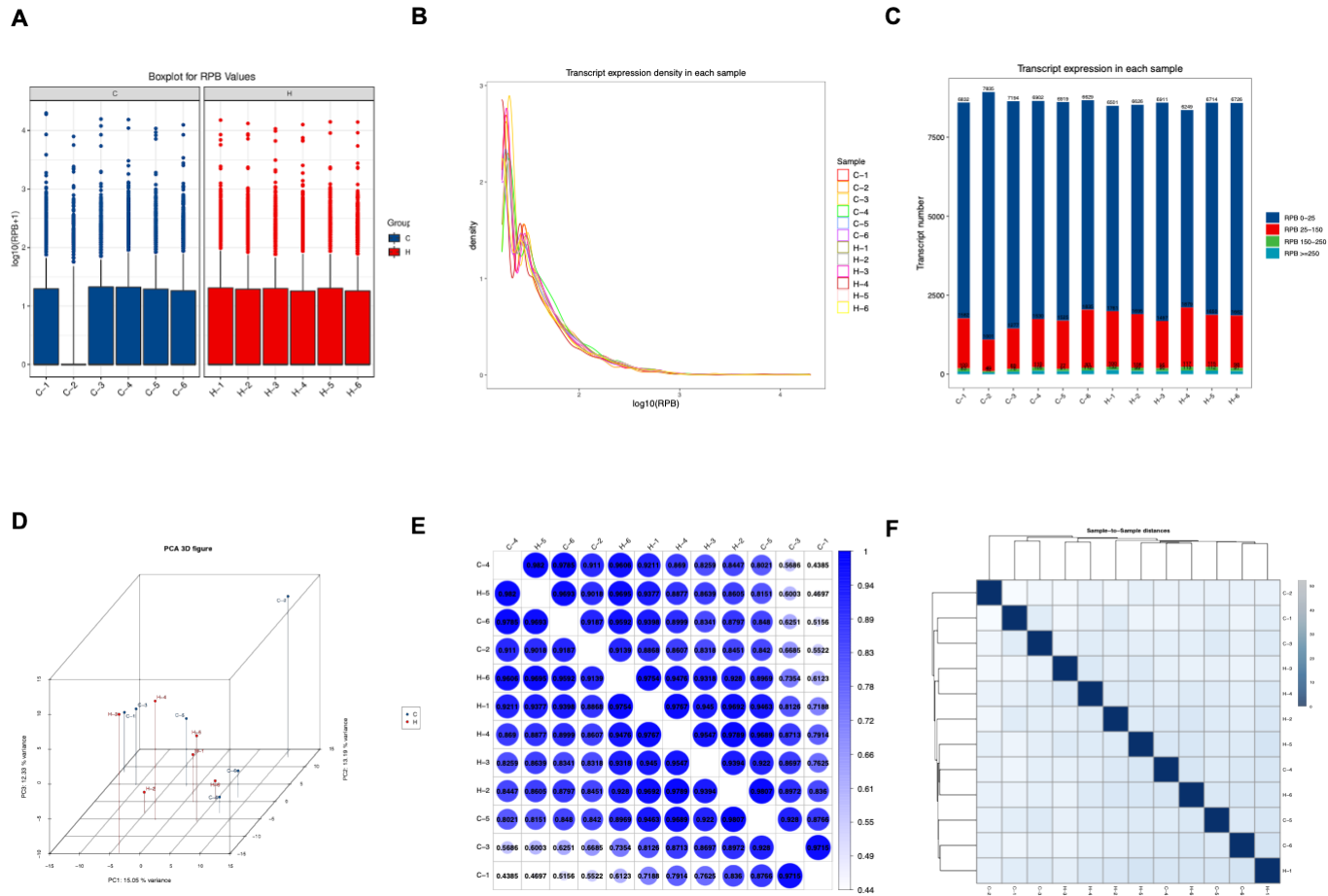
Supplementary figure 1: The peptide profile of EWH. (A) The peptides of the EWH sample were profiled by nanoUPLC-MS/MS. (B&C) The peptide distribution was analyzed.



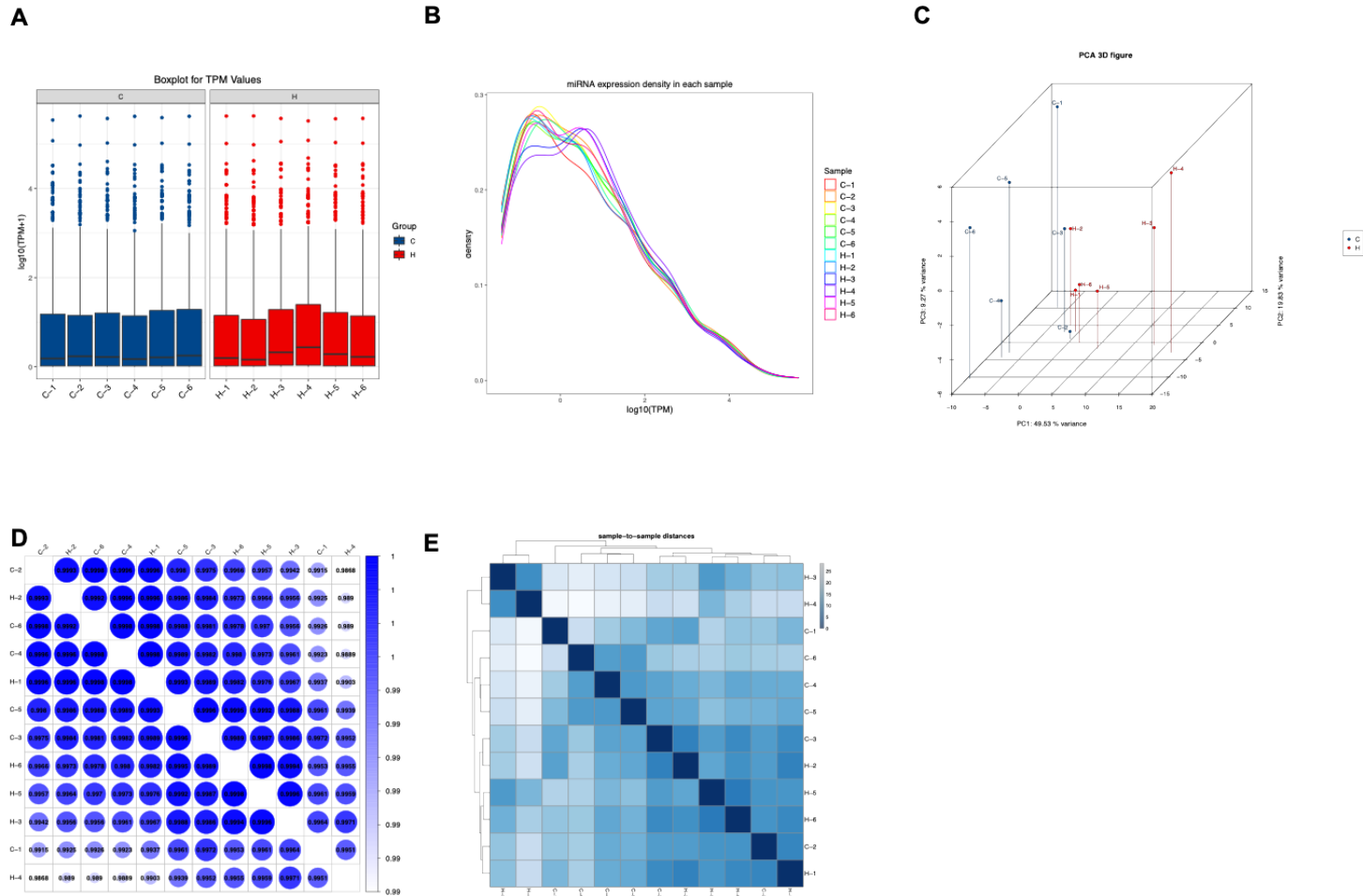
Supplementary figure 2: quality control data of the sequencing for mRNA. (A) Barplot of FPKM Values; (B) Transcript expression density in each sample; (C) Transcript expression in each sample; (D) Principal component analysis (PCA) of samples; (E&F) Correlation between each sample.



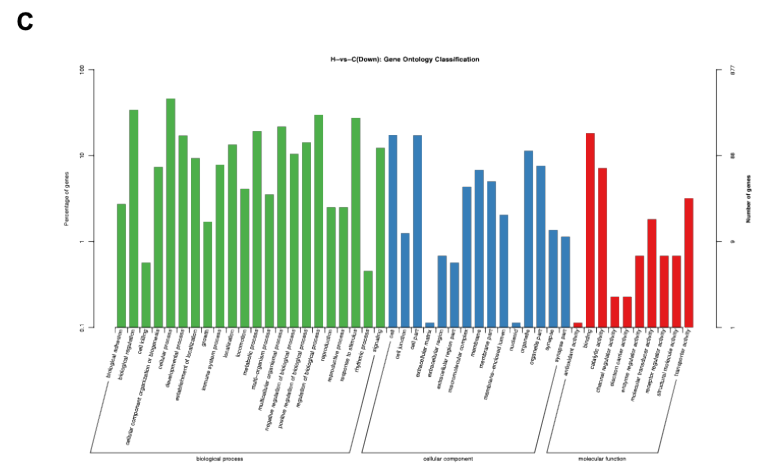
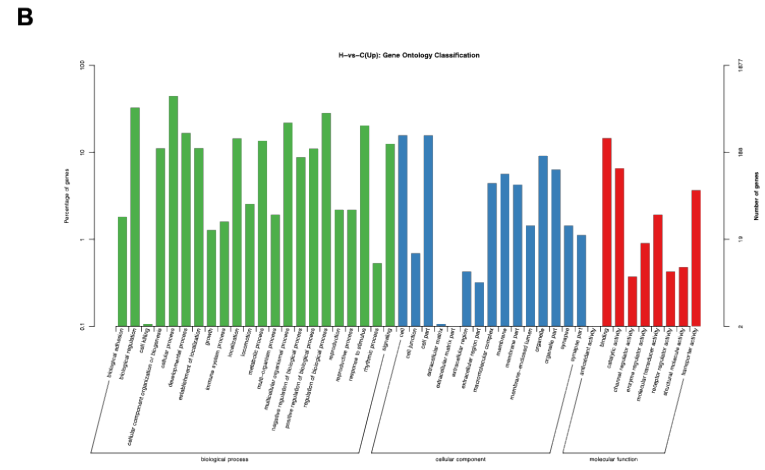
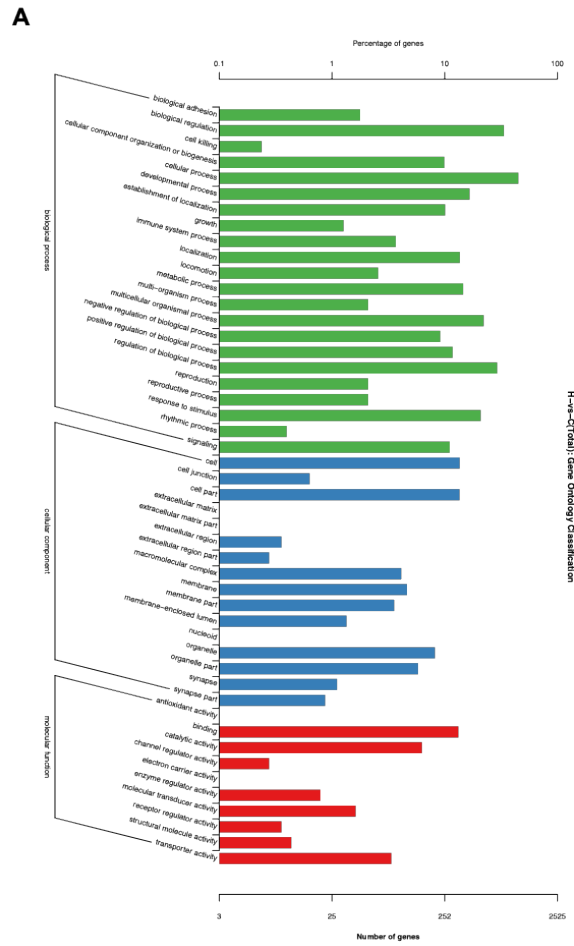
Supplementary figure 3: quality control data of the sequencing for lncRNA. (A) Barplot of FPKM Values; (B) Transcript expression density in each sample; (C) Transcript expression in each sample; (D) Principal component analysis (PCA) of samples; (E&F) Correlation between each sample.



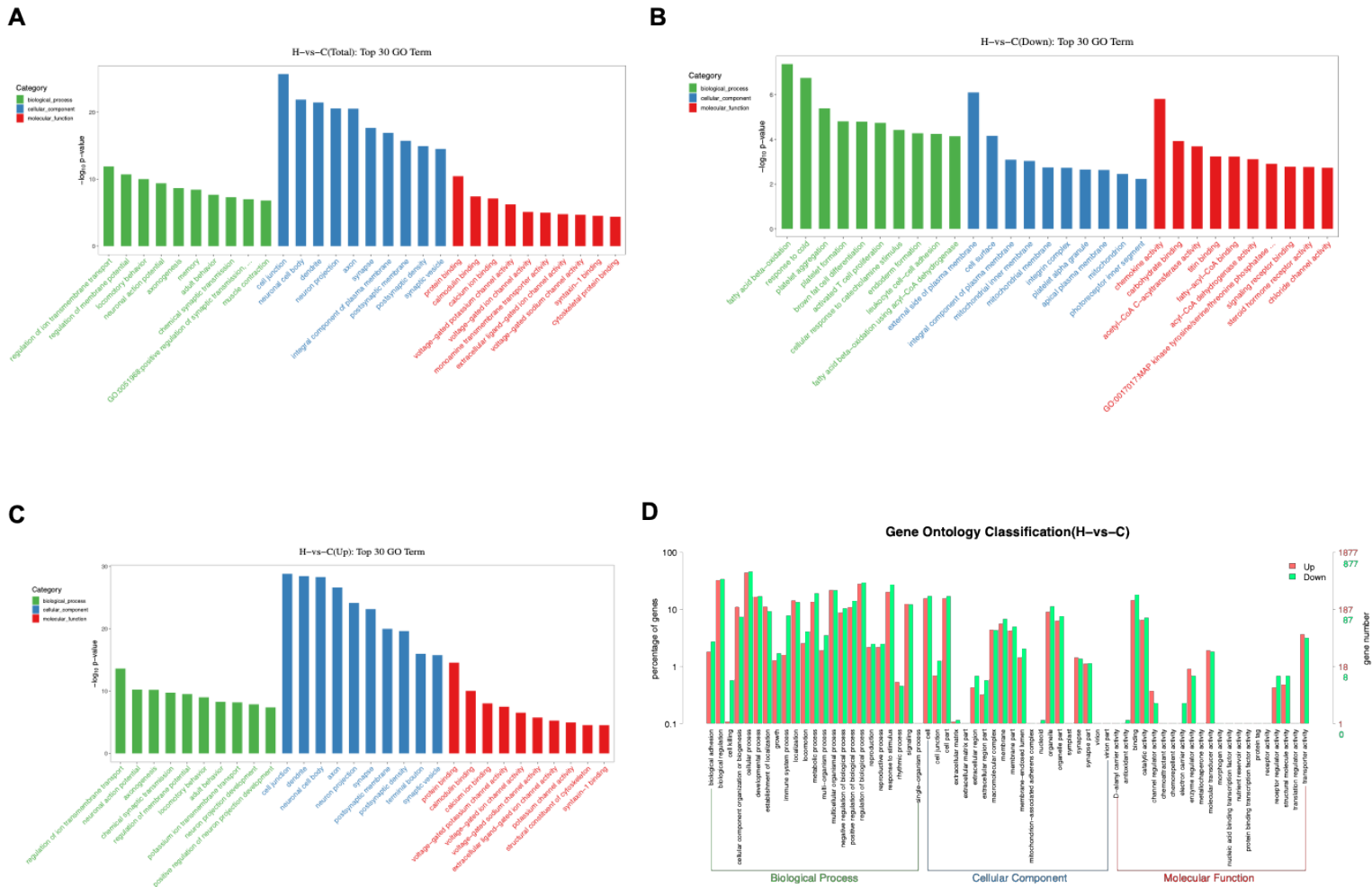
Supplementary figure 4: quality control data of the sequencing for circRNA. (A) Barplot of FPKM Values; (B) Transcript expression density in each sample; (C) Transcript expression in each sample; (D) Principal component analysis (PCA) of samples; (E&F) Correlation between each sample.



Supplementary figure 5: quality control data of the sequencing for miRNA. (A) Barplot of FPKM Values; (B) Transcript expression density in each sample; (C) Transcript expression in each sample; (D) Principal component analysis (PCA) of samples; (E&F) Correlation between each sample.

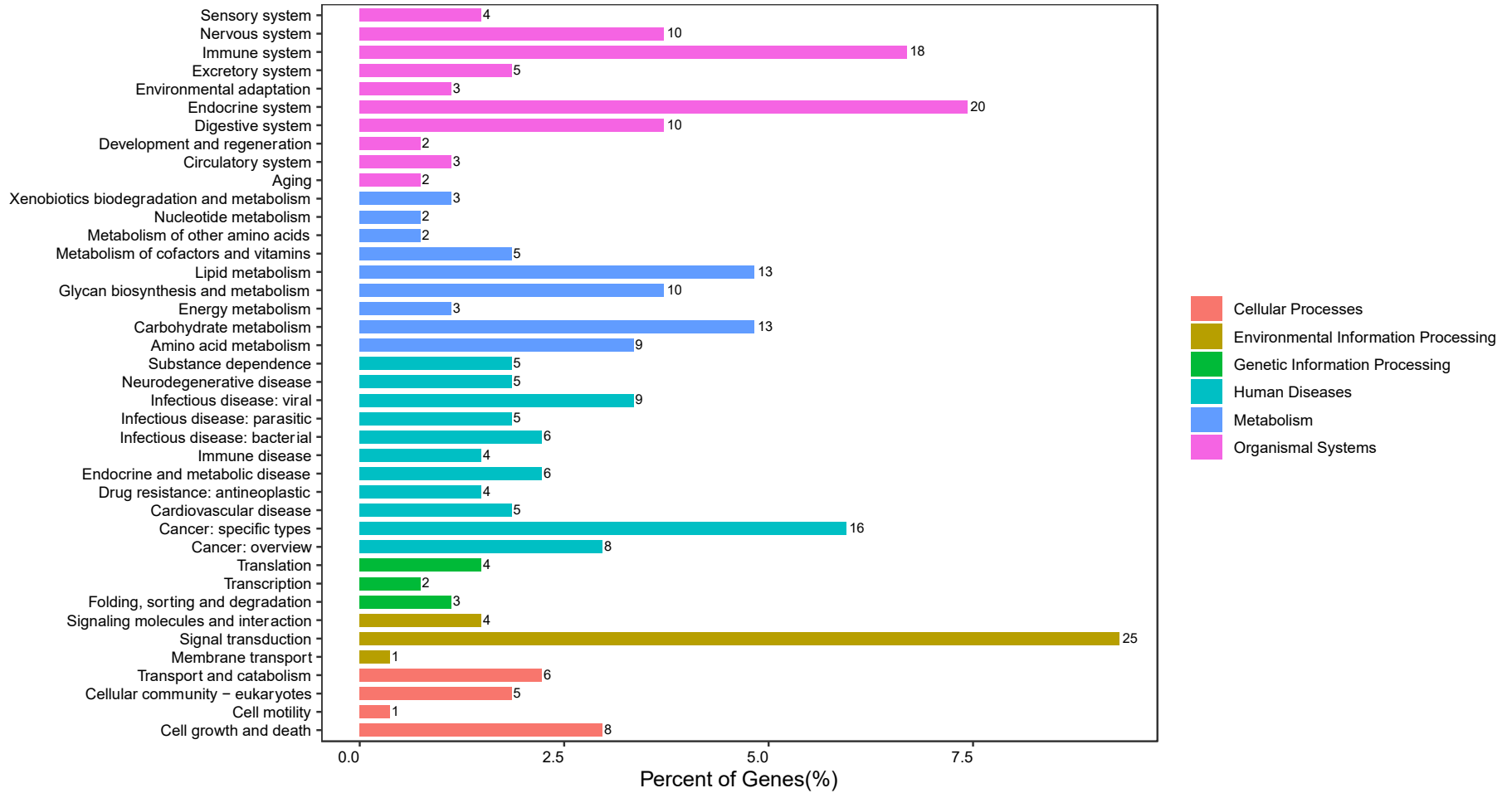


Supplementary figure 6: GO annotation of total identified DE-mRNA (A-C).

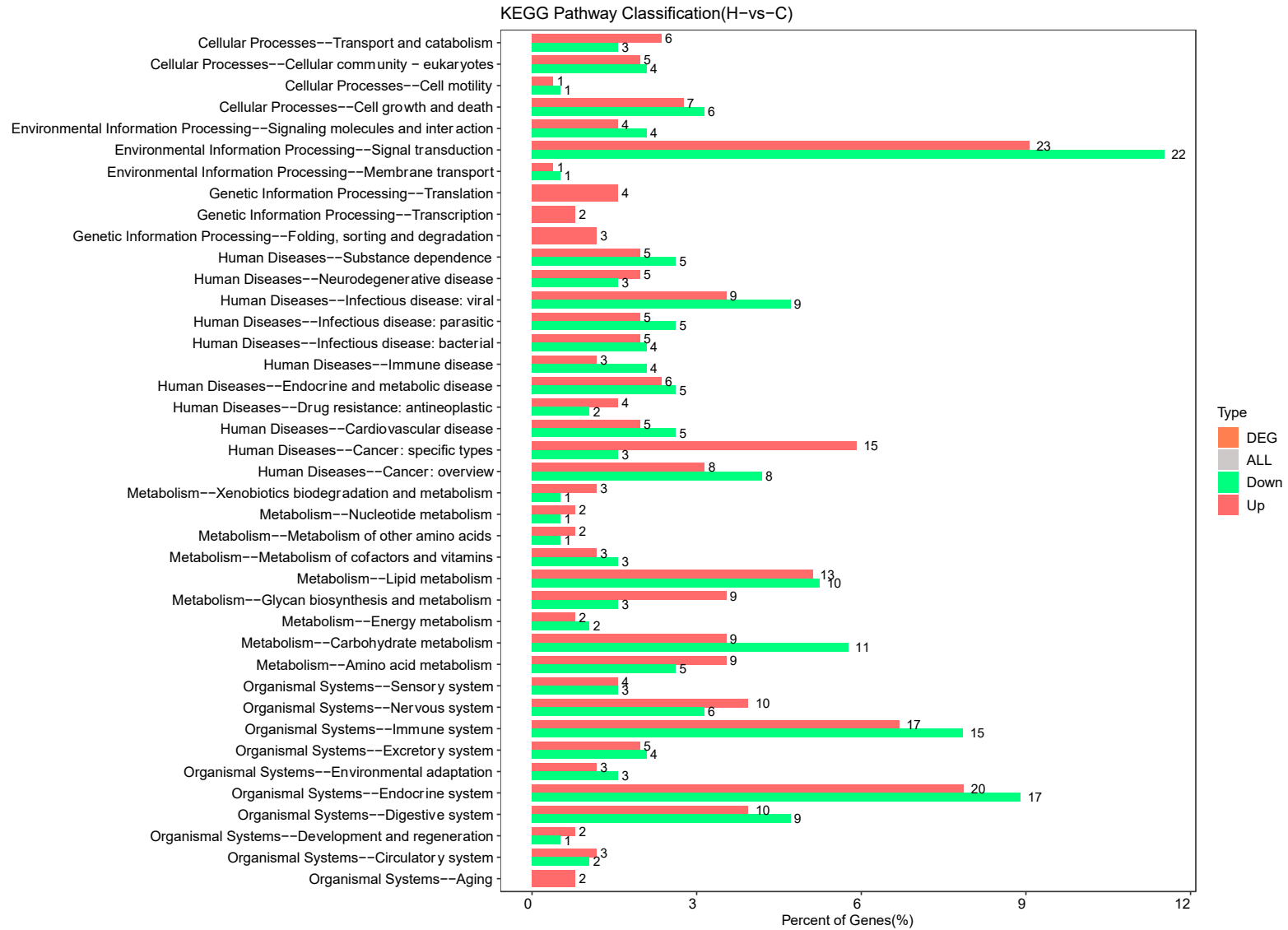


Supplementary figure 7: GO annotation of top30 identified DE-mRNA. (A) Top30 GO Terms of total; (B) Top30 GO Terms of down; (C) Top30 GO Terms of up; (D) GO classification.

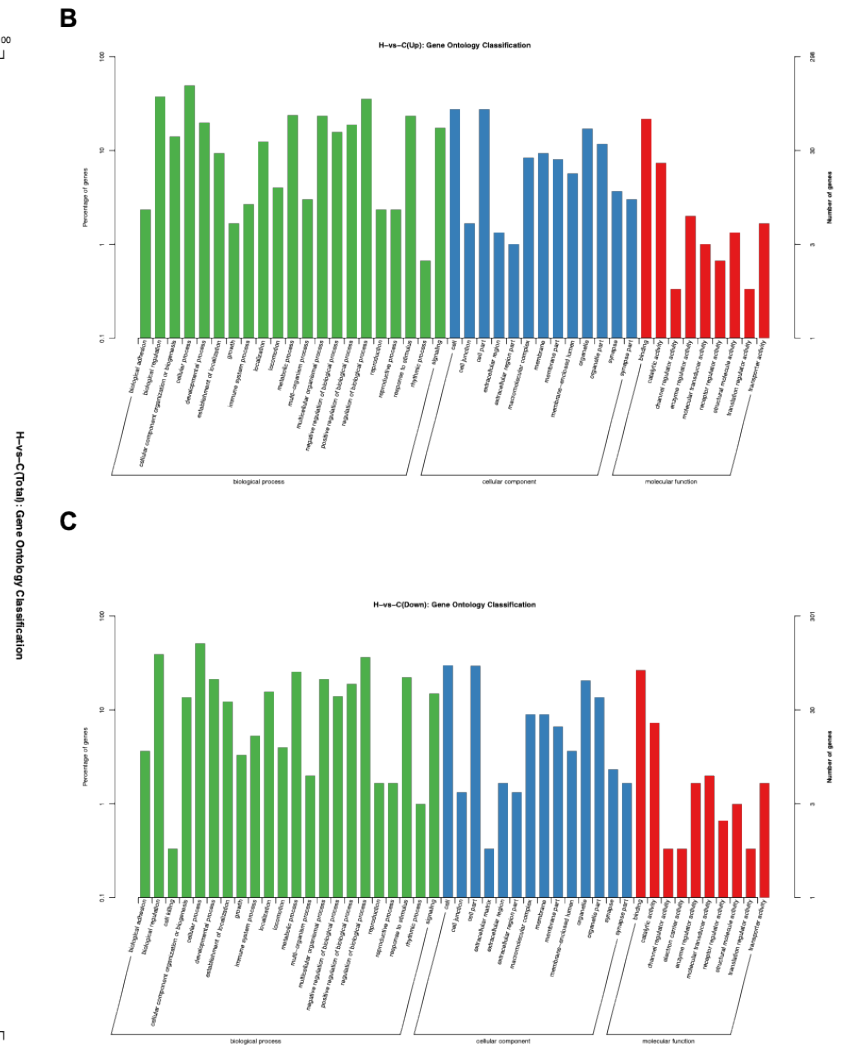
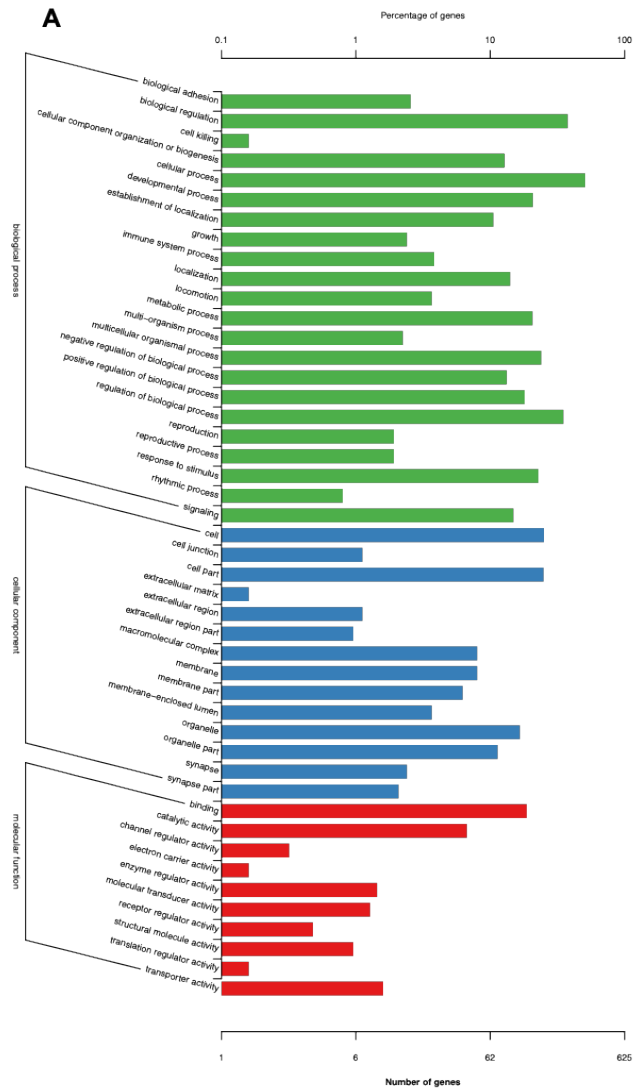
H-vs-C(Total): KEGG Pathway Classification



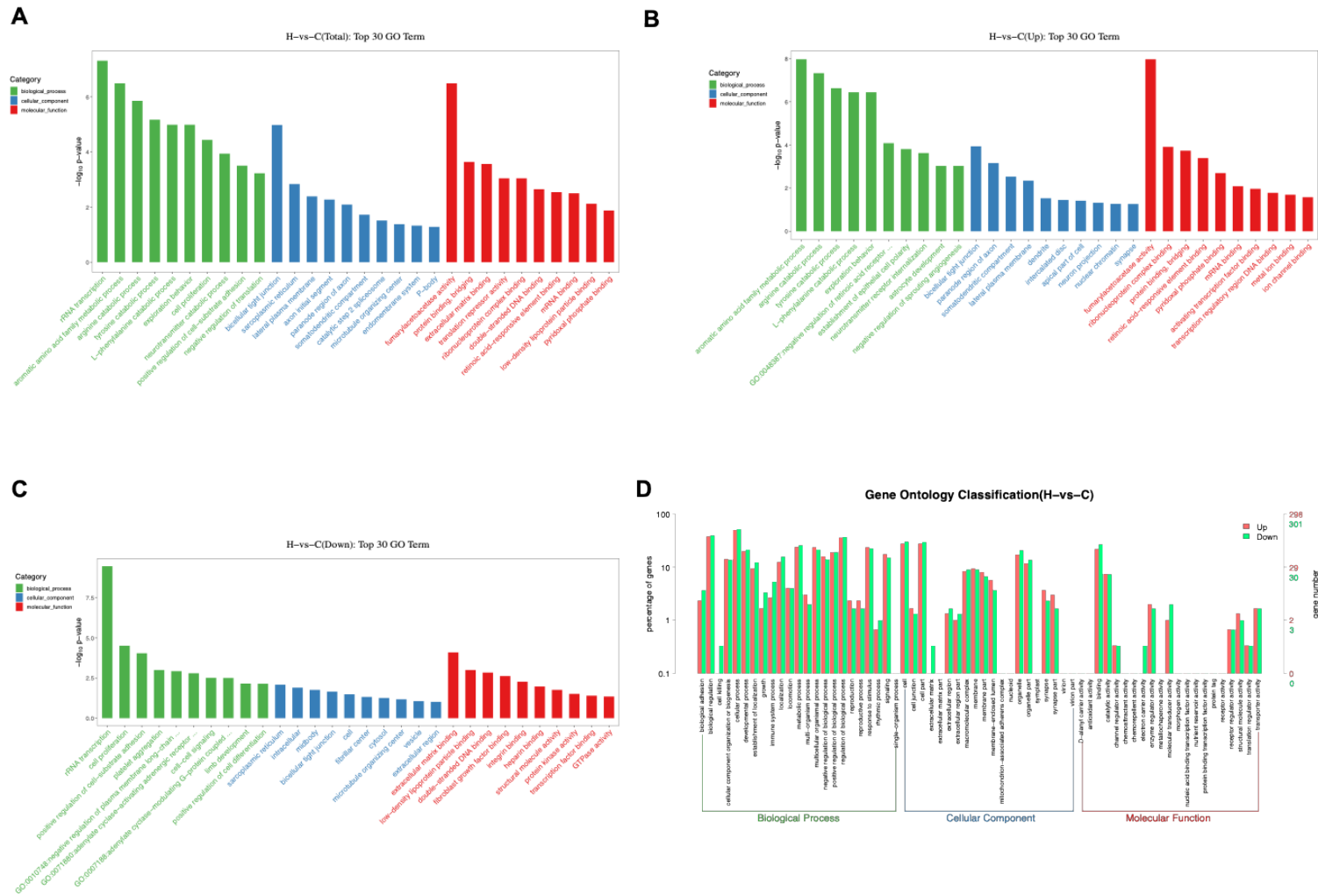
Supplementary figure 8: KEGG annotation of identified DE-mRNA.



Supplementary figure 9: KEGG annotation of all mRNA.

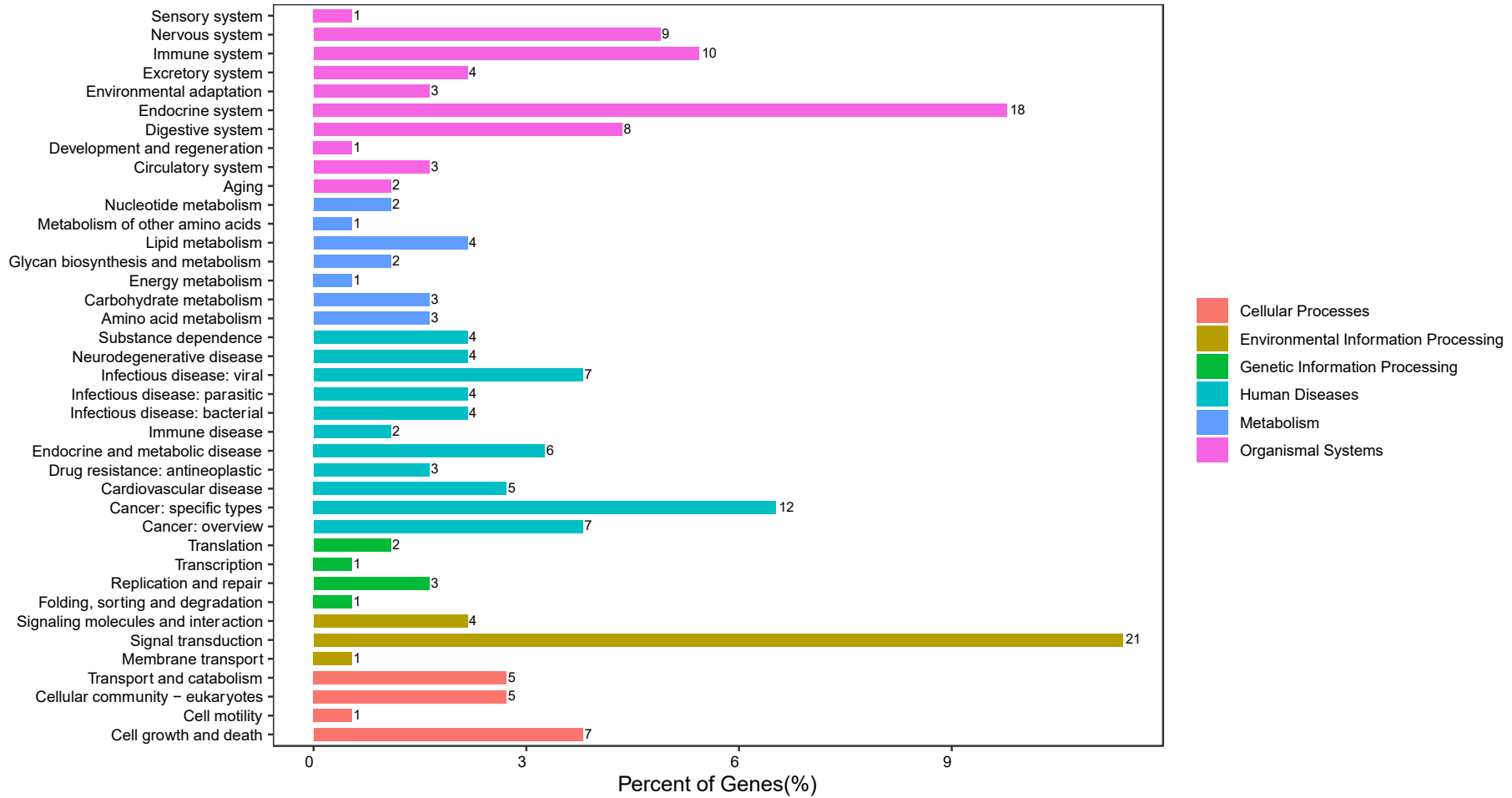


Supplementary figure 10: GO annotation of total identified DE-lncRNA (A-C).

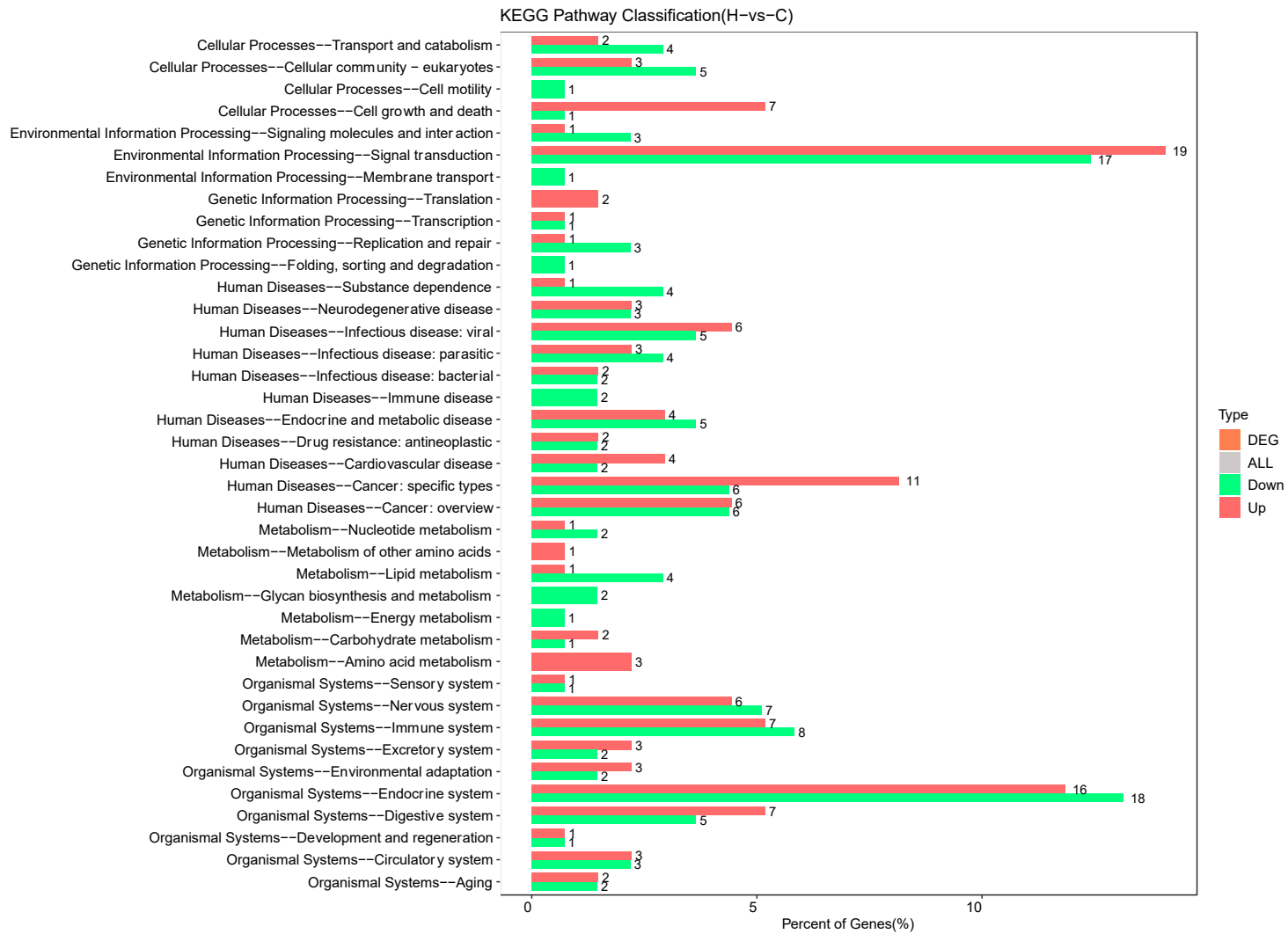


Supplementary figure 11: GO annotation of top30 identified DE-lncRNA. (A) Top30 GO Terms of total; (B) Top30 GO Terms of down; (C) Top30 GO Terms of up; (D) GO classification.

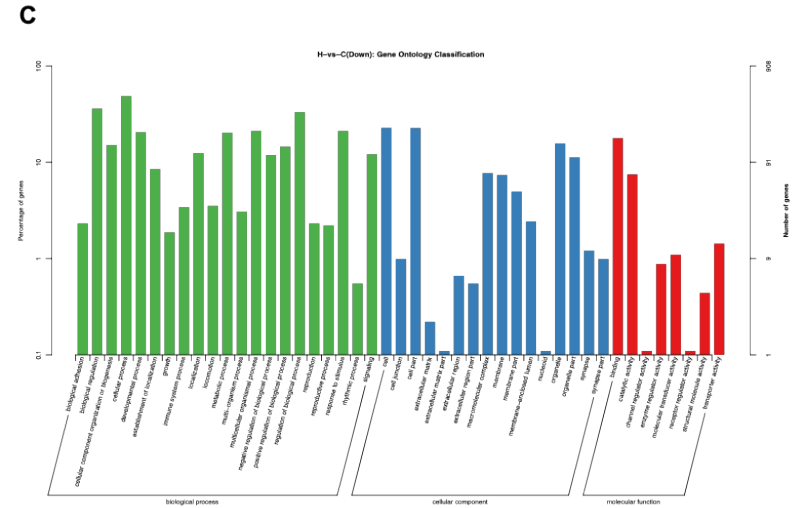
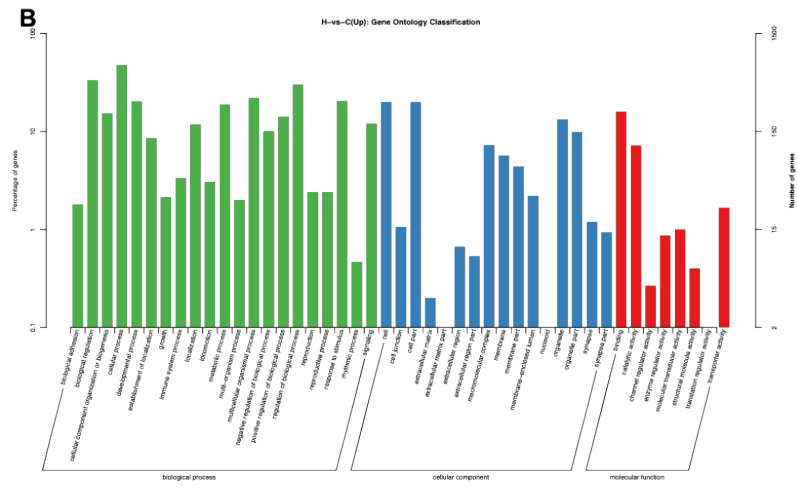
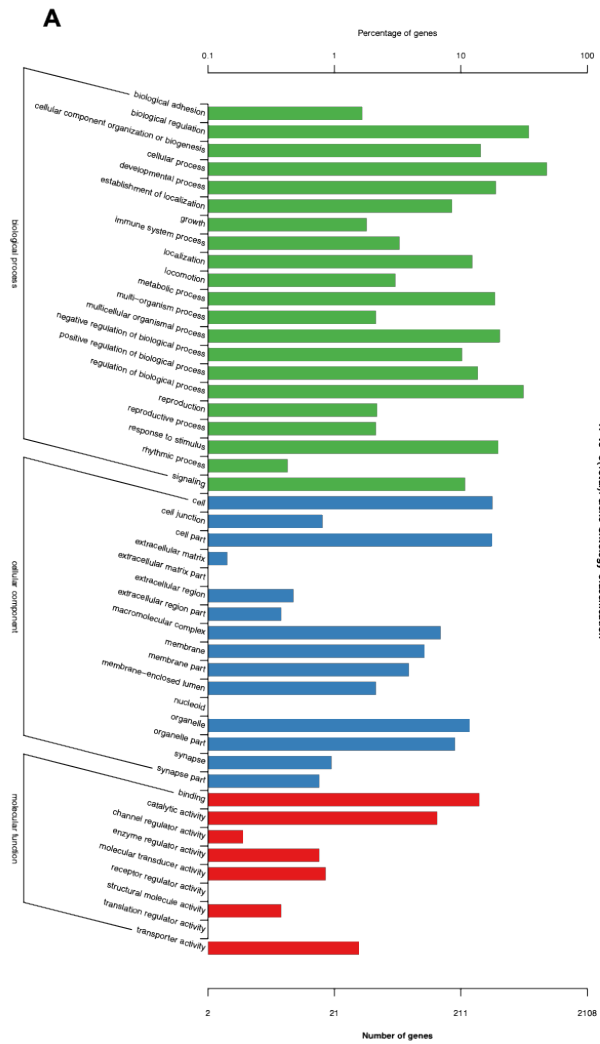
H-vs-C(Total): KEGG Pathway Classification



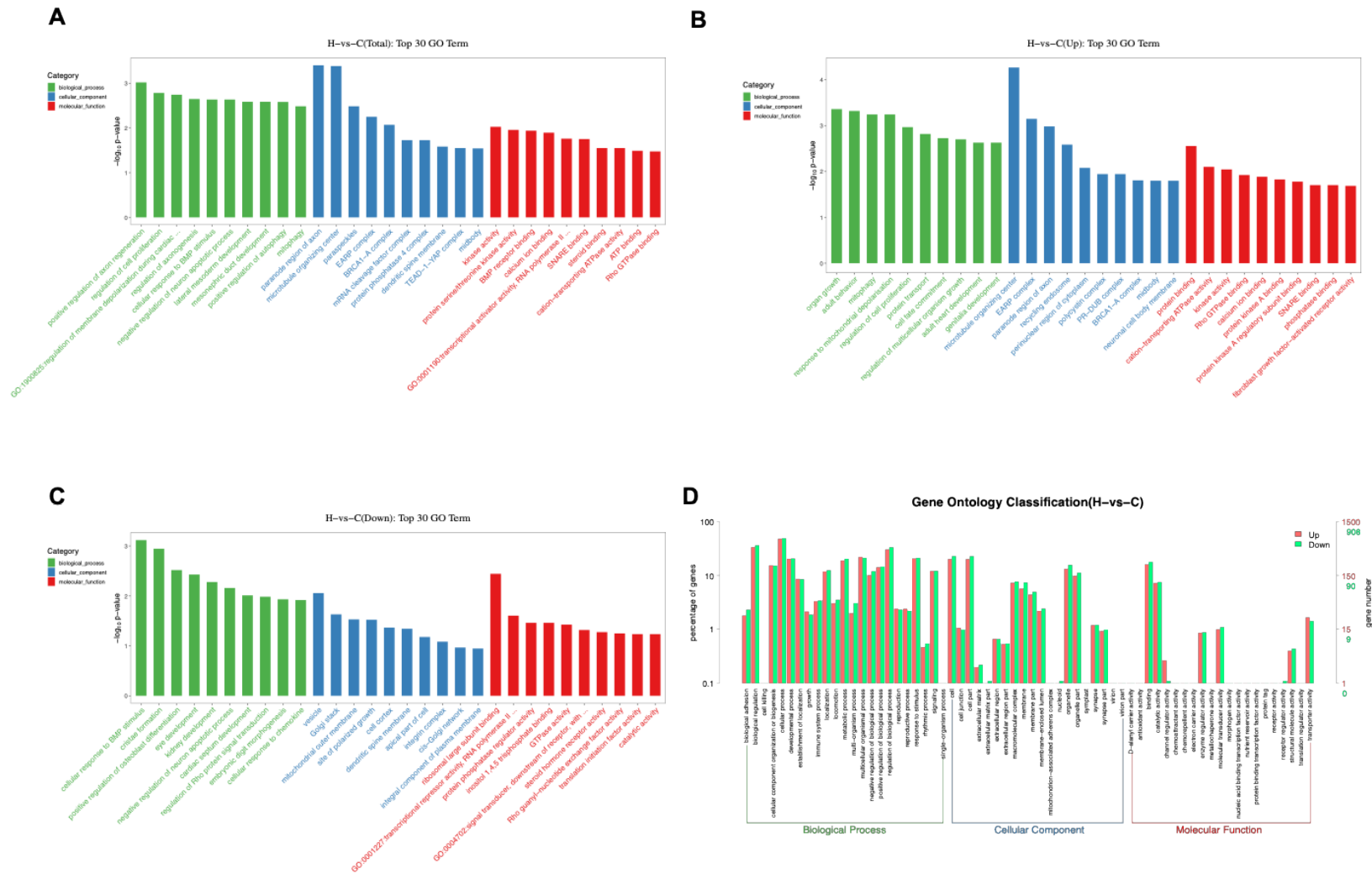
Supplementary figure 12: KEGG annotation of identified DE-lncRNA.



Supplementary figure 13: KEGG annotation of all circRNA.

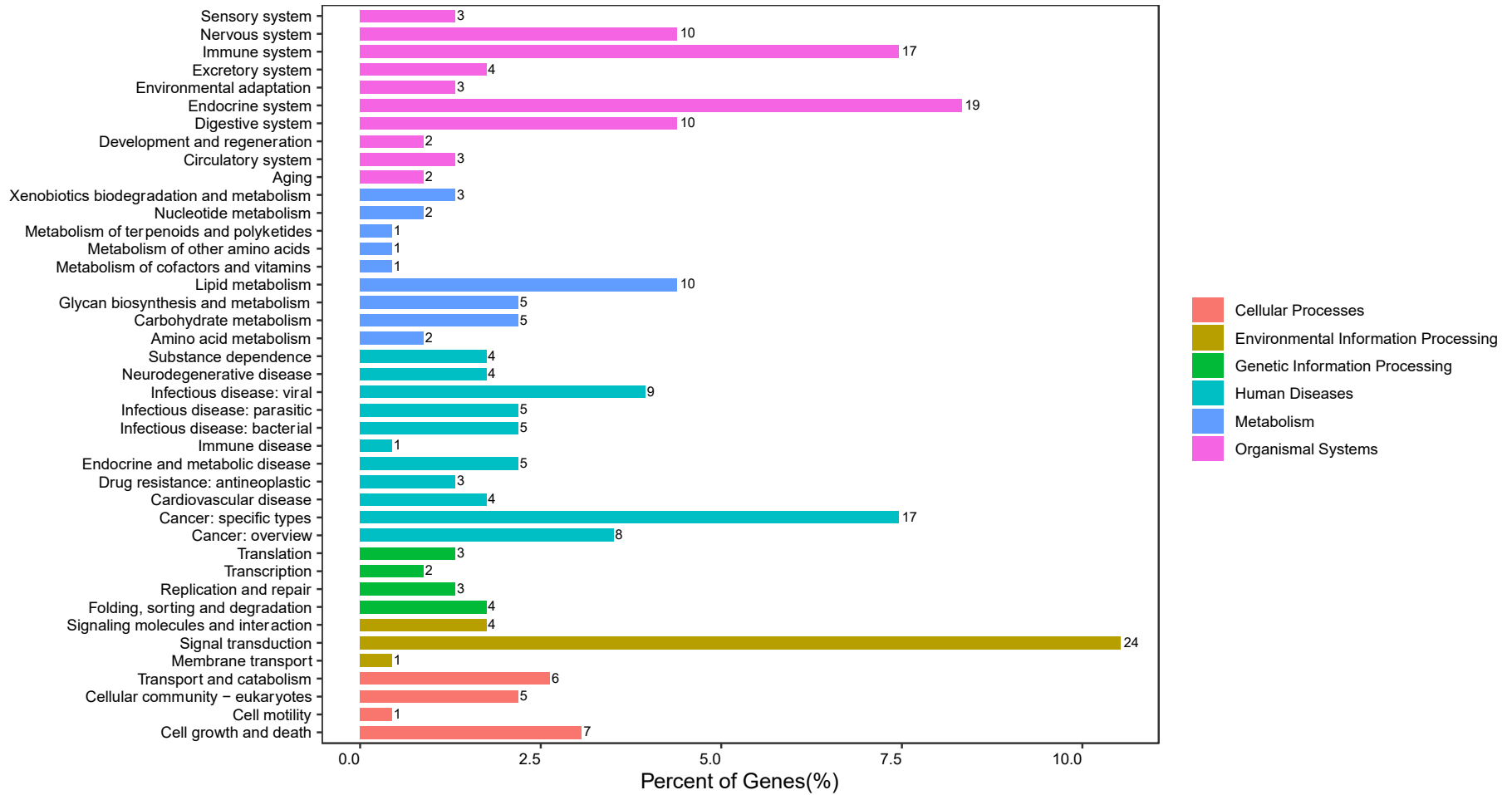


Supplementary figure 14: GO annotation of total identified DE-circRNA (A-C).

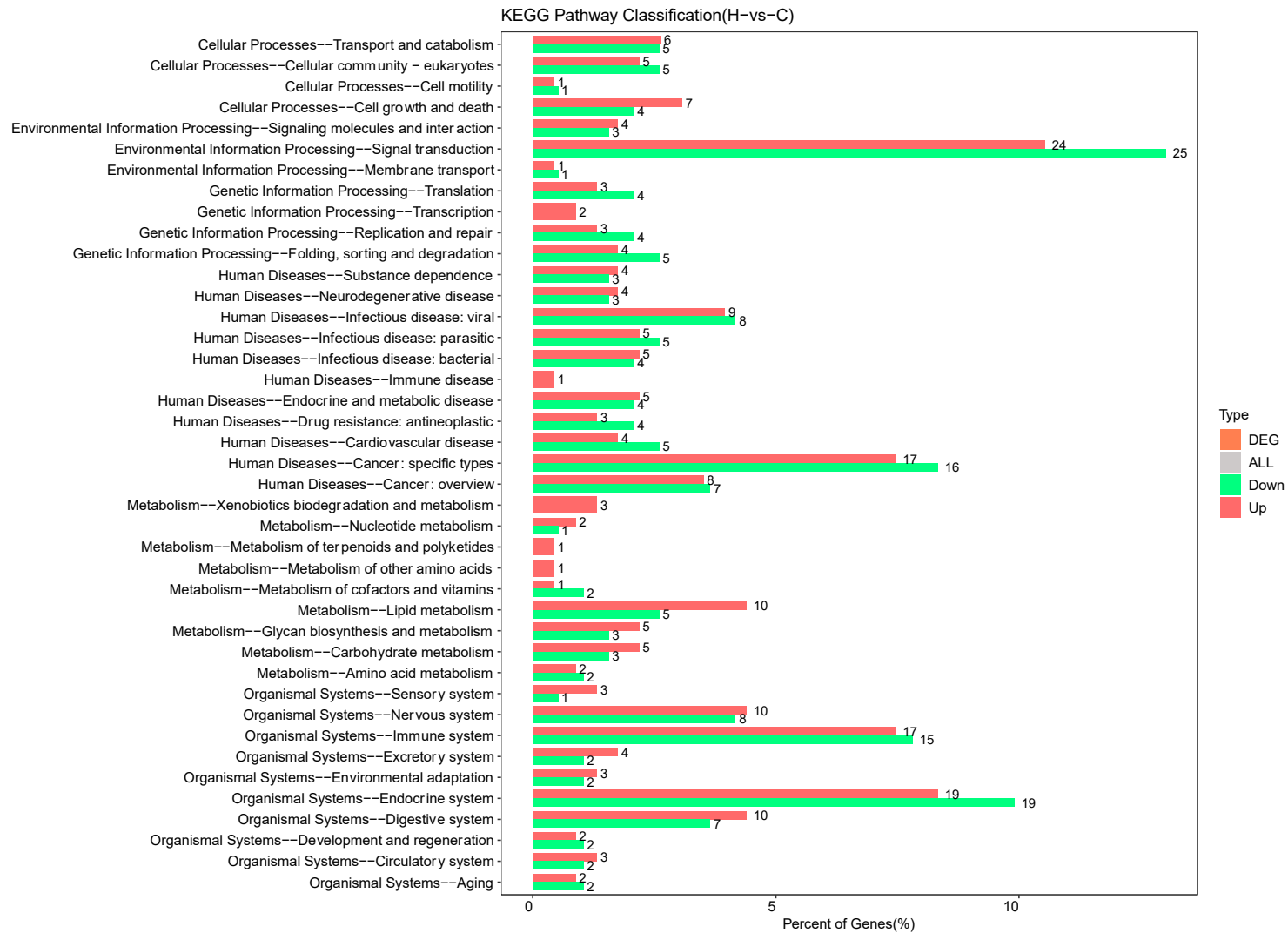


Supplementary figure 15: GO annotation of top30 identified DE-circRNA. (A) Top30 GO Terms of total; (B) Top30 GO Terms of down; (C) Top30 GO Terms of up; (D) GO classification.

H-vs-C(Up): KEGG Pathway Classification



Supplementary figure 16: KEGG annotation of identified DE-circRNA.



Supplementary figure 17: KEGG annotation of all circRNA.

Supplementary table 1: The sequence of primers for qRT-PCR

RNA	Forward primer (5' →3')	Reverse primer (5' →3')
CNTN5	AGGAGACATGGAGTCAGCGA	GCCGTCTTAGGAACTGCCTC
circRNA_4291	ATCGAGGAGTTCGCAGAGTA	GCAGTCTTCATAGGTGTGATCC
circRNA_8678	GGAGTAATTCGTCCAGTACCTATAAA	CATCTAGTGCCTGCTCAGAAA
TCONS_00011370	GGGTCTTGGACACCATAAGTTT	GATGTCTTCCAGCAAGGAGAAG
TCONS_00018620	CGCCCATTCATCCACTCTT	AGCAAAGGATGGCCTTGT
TCONS_00020441	CCCTTCCTTCCTGTGGTTATTT	GTCTGTTGGTGTGTCCATGT
XR_001835895.1	AGTCTGGTGGTCGTTTAATCAG	GGTTTACAGGGACCCATCTTT
GAPDH	TTCACCACCATGGAGAAGGC	AGTGATGGCATGGACTGTGG

Supplementary table 2: The comparison between high-dose EWH treated and the control female SHR for the identified DE-mRNA

gene_id	BaseMean	lfcSE	stat	FoldChange	log2FoldChange	pValue	qValue	Regulation
A4galt	130.941612	0.65576872	2.86382712	3.67567257	1.87800826	0.00418556	0.12329154	Up
Aatk	3208.38276	0.49089423	2.32286667	2.2042408	1.14028184	0.02018632	0.23469601	Up
Abat	297.870743	0.56973817	3.40574283	3.83807173	1.94038168	0.00065984	0.05960358	Up
Abcb11	377.905163	0.99129269	-3.08055561	0.12043008	-3.05373227	0.00206615	0.09744337	Down
Abcb1a	119.437859	0.56715017	3.77873062	4.41712515	2.14310771	0.00015763	0.03139086	Up
Abcg2	195.711592	0.37211521	3.54007853	2.49202243	1.31731706	0.00040001	0.0474496	Up
Ablim2	205.814021	0.63132162	2.68436811	3.23709481	1.69469962	0.0072667	0.15052566	Up
Acaa1b	70.4379801	1.23294902	-2.26492524	0.14433196	-2.79253735	0.02351727	0.25181326	Down
Acaa2	16163.1195	0.77835392	-1.96764148	0.34591238	-1.53152146	0.0491093	0.34834866	Down
Acadl	19455.7058	0.66633584	-2.23757177	0.35577221	-1.49097426	0.02524899	0.25762099	Down
Acadm	15029.8179	0.64937749	-2.09428823	0.38958671	-1.35998364	0.03623431	0.30730898	Down
Acadv1	13551.7462	0.58242156	-1.99906696	0.44618079	-1.1642997	0.04560111	0.33818752	Down
Ache	811.645592	0.63804324	2.47304727	2.98537279	1.5779111	0.01339664	0.19691729	Up
Acot11	3640.45722	0.62582111	-2.74343402	0.3042019	-1.71689891	0.00608003	0.14081919	Down
Acot2	2661.63803	0.66435141	-2.2119747	0.36110029	-1.46952851	0.02696841	0.26405882	Down
Acot4	50.1774346	0.88299242	-2.45955531	0.22193842	-2.17176869	0.01391093	0.20060136	Down
Acpp	76.3847742	1.03375897	2.41010445	5.62349521	2.4914671	0.01594795	0.21372693	Up
Acsbg1	183.818029	1.02752743	2.63447704	6.5296127	2.70699742	0.0084267	0.16168213	Up
Acsl5	11535.2092	0.75275995	-2.37950856	0.28893187	-1.79119873	0.01733574	0.22243936	Down
Acsl6	145.931831	0.4113419	2.99553055	2.34922877	1.23218721	0.00273968	0.10619684	Up
Acsm1	42.1014633	0.48724022	3.3006488	3.04873095	1.60820884	0.00096462	0.07134	Up
Actn2	179.720193	0.63519527	-3.86692989	0.18221889	-2.45625559	0.00011021	0.02545946	Down
Actn3	93.1165288	0.68906754	3.17563127	4.55744238	2.18822442	0.00149511	0.08474573	Up
Adam23	3033.52551	0.43520934	3.08978985	2.53978331	1.34470541	0.00200298	0.09616605	Up
Adamts20	196.513885	0.73955629	3.16773	5.07256221	2.34271465	0.00153634	0.08617255	Up
Adarb2	35.5649206	0.66153416	3.22713236	4.39193986	2.1348583	0.00125038	0.07811958	Up
Adecy1	1644.14742	0.64203324	3.18213507	4.12112002	2.04303648	0.00146194	0.08442682	Up
Adecy2	245.578491	0.48353616	2.47747678	2.2941339	1.1979496	0.0132315	0.19570985	Up
Adecy8	44.2931763	1.13487581	2.30102499	6.1108692	2.6113776	0.02139022	0.24103124	Up

Adcyap1r1	1164.05678	0.67020996	2.5623779	3.28827551	1.71733118	0.01039581	0.17464966	Up
Add2	803.772623	0.92949086	2.79893756	6.06953874	2.60158688	0.00512711	0.13117495	Up
Adgra1	52.8468189	0.83198074	2.18505024	3.52572443	1.81791972	0.02888516	0.27385004	Up
Adgrb1	285.529672	0.52033024	3.58639473	3.64548213	1.86610963	0.00033528	0.04392686	Up
Adgrb2	176.827231	0.51559529	2.80772008	2.72762867	1.44764726	0.00498936	0.13034697	Up
Adgrb3	474.645222	0.94354892	2.35803234	4.67484605	2.22491886	0.01837209	0.22746153	Up
Adgrg6	1423.87303	0.35643038	3.55431184	2.40638041	1.26686473	0.00037897	0.04667955	Up
Adgrl3	1196.2038	0.50786238	3.03540644	2.91110875	1.54156873	0.00240212	0.10258232	Up
Adprh1l	266.632782	0.42381051	-2.82562346	0.43602147	-1.19752892	0.00471887	0.12835359	Down
Adra2b	115.090771	0.53481547	2.61708991	2.63839426	1.39966017	0.0088683	0.16457911	Up
Adra2c	79.1092854	0.73815947	2.58067966	3.7449673	1.90495312	0.0098606	0.17072263	Up
Adrb1	193.074089	0.50289288	-2.29575201	0.44921645	-1.15451734	0.02169006	0.24233104	Down
Adssl1	760.941219	0.86644514	-2.71500849	0.1958192	-2.3524059	0.00662741	0.1458793	Down
Adtrp	300.323506	1.05925282	-2.77423475	0.13043329	-2.93861599	0.00553317	0.13571584	Down
Agtr2	37.3899653	0.99748197	2.57295422	5.92360508	2.56647546	0.01008345	0.17266943	Up
Aim1l	38.6875501	0.6208505	3.03817157	3.69673168	1.88625033	0.00238018	0.10258232	Up
Akain1	5.87421228	2.02634106	2.90044598	58.7816019	5.87729277	0.00372632	0.11876593	Up
Alas1	3503.65315	0.53475042	-2.17557588	0.44646218	-1.16339012	0.02958699	0.27792721	Down
Aldh1b1	6.26862813	1.02049914	2.11910518	4.47703942	2.16254502	0.03408158	0.30021887	Up
Aldh5a1	2322.97362	0.51775172	-2.40204165	0.4222996	-1.2436612	0.01630385	0.21651318	Down
Aldoc	1599.51034	0.50855387	3.46199675	3.38841794	1.76061183	0.00053618	0.05472814	Up
Alk	154.302232	0.68981464	2.86787331	3.94028774	1.97830099	0.00413241	0.1229637	Up
Alox12	861.910762	0.86052811	-2.68071123	0.2021044	-2.30682737	0.00734659	0.15102659	Down
Alpk2	12.443248	0.64435067	-2.48083808	0.33021335	-1.59852967	0.01310739	0.19537063	Down
Als2cr12	35.2744687	0.47845196	-2.75489526	0.40106694	-1.31808504	0.00587109	0.13824882	Down
Amer2	19.0223148	1.2863187	1.96559724	5.76925283	2.52838449	0.04934515	0.34887938	Up
Amer3	37.1237642	1.38660363	2.6498218	12.7661581	3.67425252	0.00805342	0.15757842	Up
Angpt4	170.80963	0.31112223	3.78124201	2.26016556	1.17642846	0.00015605	0.03139086	Up
Ank3	3532.03748	0.39538131	2.90964894	2.21978632	1.15042081	0.00361835	0.11765336	Up
Ankk1	11.6562066	1.346015	3.63467339	29.6986392	4.89232492	0.00027833	0.03982596	Up
Ankrd2	7.25518877	0.8022954	-2.24839941	0.28640319	-1.80388052	0.02455073	0.25464478	Down
Ankrd34b	10.1377028	1.09217143	2.46086953	6.442816	2.68769139	0.01386008	0.20026954	Up

Ankrd55	189.934314	0.45820477	2.95746372	2.558191	1.35512398	0.00310181	0.11220917	Up
Ankrd9	947.326967	0.46107586	-2.41896966	0.46158604	-1.11532851	0.01556454	0.21133104	Down
Anks1b	106.336404	0.93234776	2.22995349	4.22541236	2.07909214	0.02575053	0.2586687	Up
Ano1	3675.09179	0.31261682	-3.31663097	0.48739568	-1.03683462	0.0009111	0.0692435	Down
Ano2	67.7694222	0.36081125	-3.30650946	0.43738456	-1.1930258	0.00094466	0.07027322	Down
Ap3b2	282.604795	1.03808214	2.88397503	7.96571008	2.99380297	0.0039269	0.1198054	Up
Apba2	222.868866	0.81967602	2.8247115	4.97724803	2.31534828	0.00473232	0.12835359	Up
Apln	162.86783	0.71891854	-2.31484766	0.31552213	-1.66418691	0.02062127	0.237267	Down
Aplp1	463.526928	0.60505465	2.59190394	2.96543453	1.56824352	0.00954464	0.16857431	Up
Apod	852.236855	0.74625941	5.57617962	17.8924184	4.16127649	2.46E-08	8.63E-05	Up
Apoe	10537.6576	0.2082801	5.09942993	2.08798269	1.06210975	3.41E-07	0.00085442	Up
Aqp4	5.41546382	1.95864442	2.4204088	26.7361565	4.74072018	0.01550307	0.21098593	Up
Arc	844.991134	0.36520097	-4.31101721	0.33578561	-1.57438768	1.63E-05	0.00750774	Down
Arf6	4205.5084	0.43730887	-2.7440697	0.43527347	-1.20000601	0.00606827	0.14073245	Down
Arhgap36	2.15119431	1.49417972	2.24273305	10.2038821	3.35104623	0.02491403	0.25638381	Up
Arhgef16	122.692473	0.43729399	2.85380407	2.37503928	1.24795138	0.00431992	0.12535612	Up
Arrdc5	2.10295901	1.00251483	-2.16532707	0.22209172	-2.17077249	0.03036265	0.28114274	Down
Asb18	5.25450632	0.81922654	2.16460234	3.41834896	1.77329968	0.03041815	0.28128299	Up
Asip	5.82803788	0.72733823	-2.05164668	0.35545996	-1.49224105	0.04020401	0.32080195	Down
Aspdh	13.5738218	0.7661109	2.37844531	3.53608479	1.82215287	0.01738582	0.22259186	Up
Aspg	543.313357	1.29059804	-1.99901178	0.16725014	-2.57992069	0.04560708	0.33818752	Down
Asphd2	22.0063922	1.30547391	2.64142654	10.9155539	3.44831343	0.00825577	0.15994638	Up
Atcay	206.351457	1.30695363	2.4446633	9.15818412	3.19506157	0.01449874	0.20360887	Up
Atf3	8480.96679	0.6552109	-2.69944167	0.29347233	-1.76870362	0.00694559	0.14818674	Down
Atl1	641.875154	0.46341735	2.84955309	2.49758252	1.32053235	0.00437807	0.12600229	Up
Atn1	77.7861311	0.57332937	2.03362366	2.24378768	1.16593617	0.04198955	0.32836019	Up
Atp10b	101.82526	0.82763217	2.70395497	4.71703438	2.23788012	0.00685196	0.14741785	Up
Atp1a3	412.409703	0.9392296	2.4456184	4.91433834	2.29699719	0.0144604	0.20345185	Up
Atp2a1	326.787545	0.68397579	2.99573683	4.13822319	2.04901146	0.00273783	0.10619684	Up
Atp2b2	364.482357	0.89751607	2.89834924	6.06839507	2.60131501	0.00375133	0.1187952	Up
Atp2b3	264.958044	0.81588278	2.7163212	4.64667806	2.21619969	0.00660118	0.1458793	Up
Atp6v1g2	161.498641	0.78047137	2.6097174	4.10337134	2.03680972	0.0090617	0.16516558	Up

Atp8a2	594.0558	0.91010844	2.72446498	5.57726787	2.47955856	0.00644058	0.1442229	Up
Avil	613.57977	0.54065613	3.76811121	4.10463073	2.03725244	0.00016449	0.03158787	Up
B3galt5	30.9992323	1.0074257	3.00453563	8.15026186	3.02684641	0.00265987	0.1046542	Up
B3gat1	2.49268219	1.32715245	2.68476755	11.8194897	3.56309584	0.00725803	0.15052566	Up
B3gnt4	45.7429676	0.96178009	-3.09472126	0.12705796	-2.97644129	0.00196998	0.09602565	Down
B4galnt4	65.4284858	0.80937233	2.82852885	4.88830055	2.28933299	0.00467625	0.12835359	Up
Baalc	62.4800953	0.77582675	2.11642067	3.1209295	1.64197577	0.03430905	0.30041322	Up
Basp1	162.934388	0.59893689	3.2893454	3.91798074	1.9701103	0.00100421	0.07315294	Up
Bcas1	41.8609255	0.75279034	2.20049206	3.15252796	1.65650916	0.027772	0.26833532	Up
Begain	96.9762755	0.73678132	2.85854943	4.30533596	2.10612582	0.00425583	0.12463794	Up
Bex2	77.0424072	1.1071067	2.35345763	6.08614495	2.60552869	0.01859973	0.22819978	Up
Bfsp2	13.8817262	1.37642731	-2.75560644	0.07214824	-3.79289196	0.00585834	0.13824882	Down
Bin2	188.792276	0.60640014	-1.98410844	0.43432183	-1.20316363	0.04724375	0.34162282	Down
Bmp10	4.63289635	0.86596353	-2.35998369	0.24254766	-2.04365981	0.01827574	0.22717167	Down
Bpifa1	18.0925041	1.65058943	-2.28172364	0.07349608	-3.76618892	0.02250566	0.24694337	Down
Bpifb5	9.38307365	1.1812738	-2.13104536	0.17466373	-2.51734806	0.03308541	0.29380241	Down
Brinp1	30.4184518	0.71875706	2.7739527	3.98284155	1.99379808	0.00553797	0.13571584	Up
Brinp2	146.868011	0.73037467	3.94883415	7.38259712	2.88412843	7.85E-05	0.01998146	Up
Brms1	39.9522936	0.66376561	2.91031344	3.81521929	1.93176598	0.00361066	0.11765336	Up
Btbd16	28.4165566	0.50435364	2.35732164	2.27982604	1.18892375	0.0184073	0.22773677	Up
Btbd18	7.70355913	0.53429241	2.8051608	2.82602869	1.49877611	0.00502915	0.1309732	Up
C1H19orf84	216.503576	1.02936754	-2.38958927	0.18177609	-2.45976564	0.01686722	0.21967432	Down
C6	1335.8395	0.39573197	4.07865951	3.06111225	1.61405595	4.53E-05	0.01389776	Up
Cacna1b	472.597807	1.2905717	2.39301055	8.50523841	3.08835168	0.01671076	0.218623	Up
Cacna1s	18.3061311	0.83412427	2.97858985	5.59645813	2.48451407	0.00289578	0.10932975	Up
Cacng4	43.5207392	0.83438526	2.27553777	3.72870631	1.89867517	0.02287369	0.24891719	Up
Cacng5	5.03586814	1.3312327	2.73278897	12.4491732	3.63797802	0.00628006	0.14333382	Up
Cacng7	93.1758701	0.66652403	3.0319278	4.05823594	2.02085274	0.00242997	0.10258232	Up
Cacng8	5.37866646	0.93885401	2.57579021	5.34537423	2.41829096	0.01000113	0.17196851	Up
Cadm1	425.636071	0.47914847	3.66095391	3.37325286	1.75414047	0.00025128	0.03847229	Up
Cadm2	466.667347	0.62157743	2.88401831	3.4644845	1.7926407	0.00392636	0.1198054	Up
Cadm4	459.842842	0.74325732	2.33056853	3.32236856	1.73221212	0.01977612	0.23375308	Up

Cadps	1046.05209	0.48569571	2.06861541	2.00655073	1.00471763	0.03858219	0.31497635	Up
Camk1g	23.0239243	1.26215266	2.71483513	10.7520241	3.42653637	0.00663088	0.1458793	Up
Camk2a	44.2551802	0.84556522	2.70546788	4.8825998	2.28764953	0.00682082	0.14710859	Up
Camk2b	680.75285	0.49746917	2.17327937	2.11570648	1.08113949	0.0297593	0.27823225	Up
Camk4	320.523122	0.8414613	2.77716953	5.05209118	2.33688068	0.00548346	0.13540942	Up
Capn11	8.68782834	1.29449411	-2.49897653	0.10621722	-3.23491041	0.01245526	0.19164284	Down
Car8	137.956287	0.54559886	-1.97130662	0.47449256	-1.07554264	0.04868881	0.34691312	Down
Carmil3	139.663685	0.58749876	2.01902137	2.27548261	1.18617256	0.043485	0.33322536	Up
Cartpt	8.82098132	1.58130515	2.34960764	13.135932	3.71544666	0.01879321	0.22912054	Up
Cbln2	251.497483	0.59203034	-2.29007645	0.39071953	-1.35579473	0.02201689	0.24477297	Down
Ccdc13	13.0958388	0.62924746	2.90655617	3.55276702	1.82894308	0.00365431	0.11765336	Up
Ccdc184	32.0883453	1.03899245	2.60967423	6.54971358	2.71143182	0.00906285	0.16516558	Up
Ccl17	5.98242831	0.80941962	-2.18338671	0.29376287	-1.76727604	0.02900734	0.27452988	Down
Ccl5	92.7615981	0.38416876	-3.2529047	0.42054604	-1.24966436	0.00114232	0.07539299	Down
Ccl9	8.07631444	0.71372405	-1.98756279	0.37408257	-1.41857136	0.04686007	0.34031564	Down
Cd226	2117.33887	1.12850299	-2.53773349	0.13737203	-2.86383984	0.01115729	0.18175249	Down
Cd24	651.173192	0.89390146	3.55853298	9.06921602	3.18097784	0.00037293	0.04667955	Up
Cd69	25.1691804	0.55775763	-2.33650261	0.40522577	-1.30320216	0.01946506	0.23287105	Down
Cd84	291.109789	0.7664753	-2.56736734	0.25563838	-1.96782365	0.0102474	0.1737349	Down
Cdh1	426.656026	0.97784586	2.14121086	4.26863312	2.09377417	0.03225704	0.29085374	Up
Cdh12	30.5606042	1.59401575	3.03247166	28.5181324	4.8338076	0.0024256	0.10258232	Up
Cdh18	48.463879	0.60715623	2.01505015	2.33504483	1.22345025	0.04389939	0.33496951	Up
Cdh19	2173.82819	0.68018637	2.87344683	3.87576039	1.95447938	0.00406019	0.12205611	Up
Cdh20	32.3477055	0.76221549	2.25020239	3.28328302	1.71513911	0.0244361	0.25464478	Up
Cdh4	134.169643	0.52935135	2.07168626	2.13857517	1.09664992	0.03829471	0.31443816	Up
Cdhr4	6.23599578	0.67077545	2.32203026	2.94355767	1.55756089	0.02023131	0.23477935	Up
Cdk5r1	73.2131292	0.68438422	2.17274232	2.80303653	1.48699055	0.02979972	0.27827863	Up
Celf3	320.267012	0.60914383	2.4614823	2.82724471	1.49939676	0.01383642	0.20009245	Up
Celf4	174.52006	0.9060973	2.78049899	5.73344644	2.51940262	0.00542754	0.13489233	Up
Celf5	83.8338532	0.52360099	3.01770353	2.98984888	1.58007257	0.00254698	0.10361769	Up
Celf6	241.848923	1.37257673	2.06585093	7.13809406	2.83553891	0.03884256	0.31526581	Up
Celsr1	781.169692	0.40400871	2.97052592	2.29758519	1.20011835	0.0029729	0.11104742	Up

Celsr2	514.624296	0.57055179	2.65178944	2.8539958	1.51298321	0.00800665	0.15723117	Up
Celsr3	346.333094	1.24110788	2.37697371	7.72792342	2.9500808	0.01745533	0.22281422	Up
Cend1	6.37998896	0.71114868	2.56048315	3.53297665	1.82088421	0.01045267	0.1749353	Up
Cfap61	24.9544919	0.47331138	-2.69130182	0.41356219	-1.27382379	0.00711738	0.1494308	Down
Chadl	399.64966	0.37683106	2.96650353	2.17026419	1.11787068	0.00301207	0.11179679	Up
Chd5	699.439099	0.81934868	3.03183132	5.59495685	2.48412701	0.00243075	0.10258232	Up
Chi3l1	939.837177	0.51485045	-2.23125098	0.45101253	-1.14876057	0.02566451	0.25860371	Down
Chl1	2355.93872	0.7958712	2.53785393	4.0552893	2.01980484	0.01115345	0.18175249	Up
Chodl	32.7119435	0.74364086	2.91025497	4.48213	2.1641845	0.00361134	0.11765336	Up
Chrm1	91.956994	1.15631063	2.56686705	7.82502669	2.96809567	0.01026219	0.1737349	Up
Chrm2	213.035279	1.47116118	2.37375402	11.2525086	3.49217476	0.01760828	0.22369006	Up
Chrna3	697.7275	1.53017517	2.07279885	9.01136295	3.17174533	0.038191	0.31433721	Up
Chrna4	15.6941945	0.37365893	3.74875926	2.6404016	1.40075737	0.00017771	0.0328411	Up
Chrna5	75.5139031	1.66087287	2.20786935	12.7020575	3.6669903	0.02725338	0.26569308	Up
Chrna7	573.914252	1.58535443	2.30122444	12.5381828	3.64825636	0.02137895	0.24103124	Up
Chrb2	130.024833	0.8389067	2.21899767	3.63393346	1.861532	0.02648688	0.26158728	Up
Chst4	11.6138636	1.82415948	-2.66578502	0.03436736	-4.862817	0.00768088	0.15537465	Down
Chst5	3.55926247	0.73472134	2.18034804	3.03552958	1.60194823	0.02923167	0.27546497	Up
Chst8	13.8193901	1.24105506	1.96165956	5.40587262	2.43452752	0.04980213	0.35029097	Up
Ciapin1	2228.73721	0.54654948	-2.09979305	0.45136273	-1.14764081	0.03574705	0.30500663	Down
Cib2	1403.36507	0.68842236	-2.71596299	0.2736247	-1.86972965	0.00660833	0.1458793	Down
Ckm	137.497803	0.9187816	2.3465926	4.45679348	2.15600611	0.01894596	0.2302349	Up
Ckmt1b	105.080248	1.19856244	3.07495261	12.8662767	3.68552271	0.00210536	0.09856453	Up
Clenkb	182.646651	0.28474324	-4.57782478	0.40514082	-1.30350465	4.70E-06	0.00343685	Down
Cldn1	650.8703	0.42103589	4.11908281	3.32713801	1.73428171	3.80E-05	0.01260002	Up
Clec18a	3.07509363	1.5033205	2.23941737	10.3142144	3.36656204	0.02512877	0.25723657	Up
Clec1b	934.341047	1.07508243	-2.44713043	0.16144706	-2.63086693	0.01439987	0.20345185	Down
Clec4d	73.6463745	0.60910173	-2.2083059	0.39363135	-1.34508295	0.02722296	0.26569308	Down
Clgn	113.360603	0.73016006	2.98614622	4.53268125	2.18036471	0.00282518	0.10782343	Up
Clip3	38.7953528	0.79566856	1.99190225	2.99985754	1.58489399	0.04638178	0.33980433	Up
Clip4	20.725354	0.90170266	2.89890567	6.12177893	2.61395095	0.00374468	0.1187952	Up
Clstn2	874.513028	0.71312508	2.89530871	4.18351974	2.06471724	0.00378786	0.11921035	Up

Clvs1	12.5948146	0.79391168	2.88861772	4.9017855	2.29330736	0.00386939	0.11958141	Up
Clvs2	32.9175848	1.12858321	3.55285204	16.1078177	4.00968915	0.00038108	0.04667955	Up
Cmtm5	360.113301	0.65978411	3.25631342	4.43355467	2.14846387	0.00112869	0.07513311	Up
Cnksr2	339.78915	0.55484524	3.14572947	3.35286182	1.74539303	0.00165673	0.08878887	Up
Cnm1	192.451445	0.77606707	2.49711019	3.83154162	1.93792498	0.012521	0.19231737	Up
Cnr2	132.298003	0.40824301	-2.59713733	0.47954458	-1.06026316	0.00940043	0.16771749	Down
Cntn1	394.007218	0.70849093	2.72044239	3.80371399	1.92740877	0.00651946	0.1454329	Up
Cntn3	6.74140113	1.25515034	2.52054908	8.96105158	3.16366804	0.01171719	0.18598964	Up
Cntn5	133.49549	1.17559499	4.41169074	36.4124904	5.18636151	1.03E-05	0.00616542	Up
Cntnap2	259.96977	0.96183875	2.0872071	4.0210065	2.00755667	0.03686942	0.31019318	Up
Cntnap5c	70.3886758	1.28828831	2.84621472	12.6998993	3.66674515	0.00442424	0.1260907	Up
Col28a1	1769.4792	0.69464805	2.82418925	3.89552438	1.96181754	0.00474004	0.12835359	Up
Col6a4	14.2583955	0.65275336	-2.8974369	0.26956187	-1.89131168	0.00376225	0.1187952	Down
Col7a1	281.587345	0.48390629	-2.27078636	0.46688922	-1.09884781	0.02315991	0.25036666	Down
Col9a3	146.689787	0.71926381	2.72787409	3.89618212	1.96206111	0.00637439	0.14347289	Up
Colec11	5.32777104	1.33725581	2.55098057	10.6391693	3.4113136	0.01074203	0.17794937	Up
Colq	291.569641	0.5244945	-2.63740824	0.38333932	-1.38330611	0.00835422	0.16095744	Down
Corin	701.924078	0.52330074	-2.61897939	0.38675348	-1.37051384	0.00881933	0.16402818	Down
Coro6	1103.74976	0.45116818	-2.45609421	0.46390087	-1.10811156	0.01404563	0.20109326	Down
Cox10	1389.81741	0.50704834	-1.98107185	0.49844313	-1.00449919	0.04758322	0.34349135	Down
Cpa1	33.243011	0.9255589	2.30390878	4.38447249	2.13240328	0.02122776	0.24103086	Up
Cplx1	495.855977	0.93052677	2.90910793	6.52963699	2.70700279	0.00362462	0.11765336	Up
Cplx2	1311.94543	0.32745963	3.18588405	2.06086271	1.0432484	0.00144312	0.08417106	Up
Cpne6	79.6708385	0.93273374	2.38408641	4.67095591	2.22371783	0.01712158	0.22134498	Up
Cpne9	31.1346187	0.75586671	2.23736183	3.22913403	1.69114732	0.0252627	0.25762099	Up
Cpt1b	11122.9044	0.9877949	-2.14101407	0.23086433	-2.11488278	0.0322729	0.29085374	Down
Cpt2	5604.6049	0.68834572	-1.9923399	0.38651099	-1.37141864	0.04633378	0.33978103	Down
Crb2	236.084045	0.77130371	-3.506109	0.15343772	-2.70427489	0.00045471	0.04989294	Down
Crmp1	214.621826	1.35712538	2.2880479	8.60495632	3.10516787	0.02213473	0.24501724	Up
Crocc	1018.59682	0.457248	-2.31443799	0.48020684	-1.05827214	0.02064371	0.23734182	Down
Crtac1	20.7403796	0.76087807	2.72857845	4.21670328	2.07611551	0.0063608	0.14347289	Up
Crtap	48.9979116	0.59586799	-2.6063684	0.34078849	-1.5530515	0.0091508	0.16561185	Down

Csmd1	923.70478	0.63601416	2.6293254	3.18719695	1.67228817	0.00855545	0.16220237	Up
Csmd3	59.1440337	1.07441546	2.57628699	6.81164178	2.76800257	0.00998677	0.17196851	Up
Csrnp1	4046.11102	0.40559795	-2.88146915	0.44481644	-1.16871799	0.00395826	0.12001936	Down
Ctnna2	150.943013	0.94284876	3.02043666	7.19909204	2.84781496	0.0025241	0.10329414	Up
Ctrc	68.7613811	0.58821351	-2.30831227	0.39018211	-1.35778047	0.02098177	0.2396591	Down
Ctxn1	188.889014	0.58848508	2.80597519	3.14111018	1.65127455	0.00501646	0.13086017	Up
Ctxn3	56.2920268	0.88296851	2.4281872	4.41989729	2.14401284	0.01517451	0.20812787	Up
Cux2	49.4921189	0.47676323	3.09029477	2.77663764	1.47333891	0.00199958	0.09616605	Up
Cxcl14	1350.44378	1.1545822	-2.41656007	0.14457427	-2.79011723	0.01566794	0.21178673	Down
Cxcr1	3.9607199	0.64886589	-2.16659202	0.37740157	-1.40582766	0.03026598	0.28048387	Down
Cyb561	2558.0736	0.58979262	2.5223112	2.80429966	1.48764052	0.01165865	0.18590308	Up
Cyp11b2	12.6694241	2.02295394	2.01054071	16.7632648	4.06723125	0.04437399	0.33535353	Up
Cyp2s1	190.280521	0.58076228	3.28132181	3.74682327	1.90566793	0.00103322	0.07373647	Up
Cyp4a2	3.01390294	1.42096466	-3.26411061	0.04015753	-4.63818582	0.00109808	0.07513311	Down
Cyp4x1	21.8965116	1.18781864	2.04045587	5.36542152	2.42369152	0.04130494	0.32561723	Up
Dbh	4353.12238	1.36017972	2.30510728	8.78693598	3.13536018	0.02116057	0.24076144	Up
Dbndd1	71.6043614	0.50732662	2.00057005	2.02082226	1.01494244	0.04543874	0.33810988	Up
Dcaf12	116.999553	0.46283359	2.37679734	2.14363851	1.10006164	0.01746368	0.22281422	Up
Dct	15.4213336	1.23206247	-2.27536493	0.14325012	-2.80339173	0.02288405	0.24891719	Down
Dex	84.5255026	0.64803977	2.19348935	2.6785799	1.42146833	0.02827214	0.27070894	Up
Ddc	410.588324	1.19879455	2.48380049	7.87656446	2.9775665	0.01299886	0.1952997	Up
Ddx25	33.6528276	0.60746067	2.87879855	3.36068865	1.74875689	0.00399193	0.12083166	Up
Dgkk	9.94265172	1.80309212	2.53356225	23.7235193	4.56824614	0.01129097	0.18303254	Up
Dhrs9	444.931963	0.84828678	-2.46207799	0.23511717	-2.08854821	0.01381346	0.1999251	Down
Dio1	1.47826534	1.25160597	2.17443899	6.59576873	2.72154081	0.02967218	0.27823225	Up
Dio2	2242.25504	0.73974941	-2.64569098	0.257537	-1.95714835	0.00815243	0.15867403	Down
Dio3	29.8332057	0.54991021	3.27453469	3.48389236	1.80070005	0.00105836	0.07492175	Up
Diras1	20.4977612	1.14876617	2.90658577	10.1189479	3.33898739	0.00365397	0.11765336	Up
Diras2	157.588403	0.6067674	2.80400789	3.25212018	1.70138057	0.00504717	0.1309732	Up
Disp2	1137.67697	1.04797941	2.51637009	6.22081689	2.63710404	0.01185706	0.18719654	Up
Disp3	13.8615723	1.26550156	3.393135	19.6167975	4.29401763	0.00069098	0.06126652	Up
Dlgap1	191.158345	0.56645087	2.08755818	2.2696961	1.18249914	0.03683771	0.3101788	Up

Dlgap2	10.5928373	1.35229847	3.04870623	17.4210633	4.12276078	0.00229829	0.1020795	Up
Dlgap3	46.6064391	0.96243224	2.35447039	4.80993769	2.2660182	0.01854912	0.22819978	Up
Dlk1	35.8531738	0.98571897	2.51563343	5.57784409	2.47970761	0.01188187	0.18725143	Up
Dlx1	30.833299	0.712095	2.43410804	3.32491203	1.73331617	0.01492854	0.20651932	Up
Dmrt2	138.056417	0.75266914	2.58327012	3.8486373	1.94434772	0.00978687	0.17011705	Up
Dnah11	50.7254015	0.43359881	2.77552789	2.30292208	1.2034656	0.00551122	0.13570116	Up
Dnah2	48.5094053	0.56689285	3.90748033	4.64321042	2.21512266	9.33E-05	0.02212617	Up
Dnah5	21.8586547	0.40485494	-2.58786522	0.48373539	-1.04771002	0.00965728	0.16912288	Down
Dnajc6	526.734725	0.81731705	2.81795357	4.93538118	2.30316151	0.00483308	0.12898123	Up
Dner	255.997304	1.03418121	2.65884697	6.72591047	2.74972958	0.00784086	0.15604809	Up
Dock3	232.815202	0.56993945	2.37248426	2.55296254	1.35217237	0.01766892	0.22369006	Up
Dpp10	1.94209687	1.82686284	2.04578773	13.3371046	3.73737359	0.04077726	0.32276175	Up
Dpp6	443.481984	1.19329046	2.2187868	6.266488	2.64765712	0.02650123	0.26158728	Up
Dpysl5	67.893451	1.30522035	2.1960034	7.29176639	2.86626834	0.0280917	0.26949611	Up
Drd1	52.5152472	0.35101555	-3.02183444	0.47939578	-1.06071087	0.00251248	0.10329414	Down
Drd2	111.686698	1.66972161	3.30807705	46.0001846	5.52356774	0.00093939	0.07027322	Up
Drgx	3.82655649	1.50240457	2.49417755	13.4288489	3.74726374	0.01262494	0.19290113	Up
Drp2	474.519462	0.69312811	2.09249251	2.73277253	1.45036538	0.03639448	0.30790341	Up
Dsg2	16.0952631	1.15763078	-2.34149922	0.15276738	-2.71059157	0.01920647	0.23126798	Down
Dusp15	125.66282	0.56163204	2.63264191	2.78673544	1.47857605	0.00847236	0.16206717	Up
Dusp2	47.5613645	0.4893951	-2.91269564	0.3723009	-1.42545898	0.00358324	0.11765336	Down
Dusp26	133.872935	0.66698986	2.34283421	2.95395255	1.56264665	0.01913788	0.23091732	Up
Dusp4	412.369686	0.48649926	-2.77001165	0.39294284	-1.34760861	0.00560543	0.1359239	Down
Dusp5	164.826491	0.22638919	-4.91714431	0.46227129	-1.11318833	8.78E-07	0.00125896	Down
Dusp9	4.16238713	1.28614772	2.96687657	14.0825975	3.81584155	0.00300842	0.11179679	Up
Dync1i1	297.676026	0.72217333	3.14535592	4.8282225	2.27149216	0.00165885	0.08878887	Up
Dyrk3	15.0384902	0.92742703	2.03513293	3.69977436	1.88743729	0.0418375	0.32779699	Up
Eaf2	5.95537553	1.04381534	-2.05237403	0.22651846	-2.1422995	0.04013333	0.32080195	Down
Eef1a2	923.17002	0.5920719	2.55467153	2.85313739	1.51254922	0.0106288	0.1765367	Up
Efcab13	6.44712368	0.57716314	-3.21403377	0.27642848	-1.85502182	0.00130884	0.08005501	Down
Efr3b	864.347538	0.35404905	2.86596511	2.02047181	1.01469222	0.0041574	0.12299483	Up
Egfl8	548.743774	0.36575138	2.7848844	2.02591733	1.01857531	0.00535468	0.13448752	Up

Egr3	1379.4965	0.43397489	-3.24494463	0.3767751	-1.40822447	0.00117473	0.0755064	Down
Elavl2	495.417492	1.4418242	2.06204456	7.85224811	2.97310576	0.03920349	0.31677516	Up
Elavl3	86.1685403	1.24464979	2.45638097	8.32432948	3.05733407	0.01403443	0.20109326	Up
Elavl4	128.479668	1.4693839	2.06197313	8.16713518	3.02983011	0.03921029	0.31677516	Up
Elfn2	21.6533961	0.73368485	2.55582349	3.66844584	1.87516899	0.01059368	0.17612	Up
Elmod1	57.5194488	1.31890468	2.54827174	10.2740103	3.36092752	0.01082581	0.17878109	Up
Elovl2	163.513507	1.15889108	2.35265947	6.6183706	2.72647608	0.0186397	0.22819978	Up
Elovl4	134.732764	0.50580169	3.12103778	2.98685291	1.57862619	0.00180215	0.09224061	Up
Emb	141.470672	0.44092608	2.34694812	2.04887312	1.03483064	0.01892789	0.2302349	Up
Enho	83.4777515	0.48837665	2.32560758	2.1973618	1.13577243	0.02003949	0.23391846	Up
Entpd2	2743.56676	0.37086286	3.77636195	2.63995329	1.4005124	0.00015914	0.03139086	Up
Entpd3	148.102029	0.67138922	2.89253547	3.84242506	1.94201712	0.00382146	0.11947506	Up
Epb4113	1373.86612	0.75337244	2.85785363	4.44760348	2.15302817	0.00426517	0.12463794	Up
Epb4114b	881.301367	0.29108457	3.55180885	2.04751886	1.03387674	0.00038259	0.04667955	Up
Epcam	5.29172911	0.78696666	2.14897383	3.2291865	1.69117076	0.03163647	0.28718198	Up
Epha10	23.3576614	1.32813677	2.20563636	7.6178652	2.92938676	0.02740947	0.26644556	Up
Epha5	172.445652	1.45628087	2.76081204	16.2291751	4.02051777	0.00576578	0.1377285	Up
Ephx2	2653.55449	0.57712799	-2.00743458	0.44796357	-1.15854669	0.04470341	0.33535353	Down
Epor	61.58396	0.42731314	-2.43730264	0.48582497	-1.04149145	0.01479729	0.20536971	Down
Erbb3	3262.63891	0.56751556	3.06411452	3.33788135	1.73893267	0.00218315	0.10001669	Up
Erc2	61.8125305	1.1175964	2.34523227	6.151862	2.62102314	0.01901523	0.23038742	Up
Erich3	42.5410918	1.18833569	2.47002693	7.64873493	2.93522115	0.01351029	0.19796113	Up
Erich5	10.4995727	0.39393574	2.69986788	2.0901036	1.06357445	0.0069367	0.14818674	Up
Ermap	17.2223609	1.08524506	-2.28978923	0.17862644	-2.48498246	0.02203354	0.24477297	Down
Esrrb	93.1246339	0.96702824	-2.22966487	0.22435436	-2.15614889	0.0257697	0.2586687	Down
Esrrg	1038.33768	0.55177161	-2.72316207	0.35292572	-1.50256352	0.00646603	0.1446085	Down
Etfhdh	9208.92757	0.69296981	-2.00961038	0.38087795	-1.39259932	0.04447244	0.33535353	Down
Evi2a	568.580123	0.66388766	-2.4207904	0.32825005	-1.60713286	0.0154868	0.21093817	Down
Evi2b	268.427098	0.54717182	-1.96510889	0.47458809	-1.0752522	0.04940164	0.34887938	Down
Eya1	25.6276474	1.12460534	2.15219919	5.35310041	2.42037471	0.03138167	0.28547909	Up
F2rl2	880.140569	0.93117088	-2.53764099	0.19438955	-2.3629774	0.01116024	0.18175249	Down
F2rl3	125.901104	0.72997875	-2.46616047	0.28712588	-1.80024473	0.01365701	0.19880807	Down

F5	2322.66036	0.72972944	-2.65822508	0.26065526	-1.93978511	0.00785534	0.15604809	Down
Fabp3	2148.57491	1.0601291	-2.57349387	0.15091041	-2.72823573	0.01006774	0.17266943	Down
Faim2	207.260102	1.34100389	2.43355511	9.60247882	3.26340688	0.01495136	0.20651932	Up
Fam131b	256.18763	0.42128249	2.53047023	2.09368266	1.06604279	0.01139098	0.18329969	Up
Fam131c	9.77671744	1.42618967	2.96346558	18.7194223	4.22646401	0.00304196	0.1121752	Up
Fam135b	5.62987794	1.92034053	2.23426053	19.5695821	4.29054104	0.02546594	0.25812931	Up
Fam151a	3187.47944	0.62371954	-2.75483865	0.30391785	-1.71824669	0.00587211	0.13824882	Down
Fam155a	50.6162276	1.38007581	3.08951605	19.2097438	4.26376637	0.00200483	0.09616605	Up
Fam155b	17.3355576	0.68248811	2.01603546	2.59533402	1.37592023	0.04379627	0.33490515	Up
Fam163a	297.912679	0.75741007	2.70935874	4.1470792	2.0520956	0.00674134	0.14589419	Up
Fam163b	13.5268221	1.09751557	2.83498265	8.64243351	3.1114376	0.00458282	0.12791088	Up
Fam169a	102.176111	0.55795515	2.97874282	3.16455998	1.66200491	0.00289434	0.10932975	Up
Fam181b	133.060976	0.48911298	2.91302795	2.68477238	1.42479978	0.00357943	0.11765336	Up
Fam19a4	5.02945362	1.60565504	2.58870078	17.8340252	4.15656045	0.00963388	0.16912288	Up
Fam222a	58.6187526	0.55057303	2.63157633	2.72995082	1.44887496	0.00849898	0.16215938	Up
Fam71f2	18.2489783	1.27275721	-3.12901291	0.0632639	-3.98247373	0.00175395	0.09049707	Down
Fam78b	440.92626	0.48335924	2.3242857	2.17869611	1.12346498	0.02011019	0.23414087	Up
Fam84a	37.1302857	0.50944837	2.91808899	2.80230832	1.48661569	0.00352184	0.11765336	Up
Fbll1	29.510068	1.49603762	2.60341182	14.8748377	3.89480202	0.0092301	0.16603879	Up
Fbn2	56.0520183	0.7771555	2.60339022	4.06495397	2.02323901	0.00923068	0.16603879	Up
Fbxl16	367.24385	0.45580679	2.25907594	2.04160273	1.02970216	0.02387866	0.25269064	Up
Fbxo16	12.517092	1.15554532	2.10604421	5.40250884	2.43362953	0.03520051	0.30360354	Up
Fbxo2	60.4493625	0.62095818	2.95240861	3.56356759	1.83332229	0.00315305	0.11220917	Up
Fbxo41	84.3224921	0.52701671	2.77276666	2.75355297	1.46129436	0.0055582	0.13571584	Up
Fcar	7.36892886	1.08595577	-1.96430432	0.22795996	-2.13314762	0.04949481	0.34938918	Down
Fcgr3a	66.1412286	0.40410281	-3.63389654	0.36136588	-1.4684678	0.00027917	0.03982596	Down
Fermt3	531.199468	0.47127059	-2.44698853	0.44962877	-1.15319374	0.01440554	0.20345185	Down
Fez1	386.832003	0.52783391	2.92193539	2.91257778	1.54229658	0.00347864	0.11765336	Up
Ffar3	14.7779676	1.41054527	2.00513457	7.10253038	2.8283331	0.04494866	0.33593815	Up
Fgf5	6.80527748	0.82135661	3.29991848	6.54507555	2.71040984	0.00096713	0.07134	Up
Fkbp1b	189.60687	0.80025905	2.96451025	5.17793249	2.37237616	0.00303165	0.11204984	Up
Fmn2	112.210314	0.56259421	2.11631545	2.2825189	1.19062681	0.03431799	0.30041322	Up

Fndc5	1053.95648	0.74466489	-2.98320343	0.21442026	-2.22148685	0.00285248	0.10839437	Down
Folh1	130.927001	0.46334821	4.26031218	3.92858027	1.97400804	2.04E-05	0.00815122	Up
Foxd3	231.528367	0.66696219	2.61140827	3.34431463	1.74171058	0.00901702	0.16516558	Up
Foxf2	1.02324968	1.70188964	1.96908292	10.2046997	3.35116182	0.04894357	0.34787584	Up
Fpr2	13.8946555	0.69052122	-2.88307165	0.25159547	-1.99082215	0.00393818	0.1198054	Down
Fras1	529.611555	0.45624913	2.34650303	2.10029207	1.07058996	0.01895051	0.2302349	Up
Frmf5	209.705796	0.4888248	2.77588602	2.56138111	1.35692193	0.00550515	0.13570116	Up
Frmf1	149.280013	0.79093691	3.69794187	7.593888	2.92483872	0.00021735	0.03668152	Up
Frmf3	79.6483356	0.42463764	2.37106638	2.00951037	1.00684402	0.01773685	0.22402018	Up
Frmf4	262.507783	1.29217286	2.30034968	7.84867665	2.97244943	0.02142842	0.24110295	Up
Fsd1	19.7889118	0.92122104	1.96977336	3.51761275	1.81459666	0.04886435	0.34745344	Up
Fxyd6	1731.84418	0.7276468	3.03578158	4.6234723	2.20897674	0.00239913	0.10258232	Up
Fyb	924.983489	0.62771567	-2.78187195	0.29808081	-1.7462246	0.00540464	0.13458694	Down
Fzd7	8.72272583	0.76367039	3.0182743	4.94156055	2.30496672	0.00254219	0.10361769	Up
G0s2	1712.35907	0.68928196	-2.00000081	0.3846013	-1.37856447	0.04550018	0.33814899	Down
G6b	217.62613	0.95008041	-2.23629925	0.22930439	-2.12466411	0.02533218	0.25794959	Down
Gabbr2	88.3760662	0.71965561	2.80116111	4.04424757	2.01587131	0.00509191	0.13117495	Up
Gabra2	20.4320838	0.63931532	2.52536359	3.06206228	1.61450363	0.01155786	0.18500379	Up
Gabrb2	18.3285347	1.07774459	2.62567358	7.10978283	2.82980549	0.00864777	0.16278867	Up
Gabrb3	112.448334	1.24744734	2.53710233	8.96871657	3.16490155	0.01117743	0.18186369	Up
Gabrg1	21.6780332	0.70042045	-2.01307584	0.37631182	-1.40999948	0.04410665	0.3350655	Down
Gabrg2	43.3885636	1.41920542	2.23539195	9.01595544	3.17248038	0.02539163	0.25797189	Up
Gal3st1	133.878928	0.37977846	3.17985984	2.30959882	1.20764228	0.00147346	0.08453633	Up
Galnt6	105.843397	0.8864687	2.10771099	3.65132436	1.86841984	0.035056	0.3030883	Up
Galnt9	21.8601358	0.83576797	2.61895629	4.55938674	2.18883979	0.00881992	0.16402818	Up
Galnt16	4.58232453	1.47149018	1.97860349	7.52397789	2.91149561	0.04786067	0.34436141	Up
Gap43	336.321629	0.94099924	3.1537724	7.82286691	2.96769742	0.00161175	0.08814902	Up
Garnl3	561.267809	0.42409804	2.60815701	2.15265075	1.10611427	0.00910312	0.1654102	Up
Gas2l3	687.137297	0.54729473	2.77180341	2.86193995	1.5169934	0.00557467	0.1359239	Up
Gata4	4.15538045	1.48564589	-2.483548	0.0774993	-3.68967288	0.01300808	0.1952997	Down
Gbx2	14.3876526	1.06761273	-1.97713835	0.2315157	-2.11081807	0.04802599	0.34465596	Down
Gcs1	54.2896434	0.53429659	2.15211096	2.21893213	1.14986554	0.03138862	0.28547909	Up

Gdap1	209.639995	0.63938607	3.18337376	4.09937745	2.03540483	0.0014557	0.08434388	Up
Gdap111	46.1064628	1.01841126	2.62205974	6.36577061	2.67033517	0.00874001	0.16328333	Up
Gfra2	973.132751	0.39236016	3.02502566	2.27662952	1.18689954	0.00248612	0.10289734	Up
Gipc3	359.027106	0.39509996	-2.91741886	0.44979138	-1.15267208	0.00352941	0.11765336	Down
Gja1	10581.5287	0.29425551	-3.59455644	0.48039131	-1.05771803	0.00032494	0.04354755	Down
Gja6	60.1517837	0.48959763	-2.07012135	0.49533398	-1.01352651	0.03844098	0.31463868	Down
Gjd2	16.205746	1.34432605	2.42829503	9.60922617	3.26442026	0.01517	0.20812787	Up
Gk	4105.58189	0.81842034	-2.7164897	0.21416128	-2.22323043	0.00659782	0.1458793	Down
Glrp	84.394059	0.80955847	3.42802739	6.84565512	2.77518861	0.00060798	0.05707898	Up
Glyctk	1242.4536	0.75179739	-2.30568281	0.30074105	-1.73340631	0.02112836	0.24055093	Down
Gmpr	3795.95688	0.68936783	-3.32044398	0.20461627	-2.28900725	0.00089874	0.0690267	Down
Gnal	77.5661561	0.72610588	2.30170917	3.18498054	1.67128456	0.02135158	0.24103124	Up
Gnas	38334.4327	0.58506756	-2.22251797	0.40603524	-1.30032316	0.02624832	0.26123329	Down
Gnat3	10.1964495	1.05171941	-2.06867112	0.22134036	-2.17566156	0.03857696	0.31497635	Down
Gng2	975.13034	0.59580147	2.99040278	3.43827841	1.78168637	0.0027861	0.10679637	Up
Gng4	163.935035	1.15326328	2.29559908	6.26550207	2.64743012	0.02169882	0.24233104	Up
Golga7b	30.4478516	1.15994905	3.34310832	14.7009279	3.87783532	0.00082846	0.06581161	Up
Gp1ba	512.862808	0.78987861	-2.22556842	0.29567232	-1.75792888	0.0260431	0.25992764	Down
Gp5	31.8396636	1.03406423	-2.33977966	0.1869232	-2.41948244	0.01929512	0.23171925	Down
Gp6	570.599303	1.19837516	-2.55912987	0.11934436	-3.06679767	0.01049345	0.17495561	Down
Gp9	89.1856681	1.02613448	-2.50149339	0.16877012	-2.56686861	0.01236708	0.19129196	Down
Gpd2	12881.4977	0.84772963	-2.33690757	0.25330267	-1.98106579	0.01944399	0.23287105	Down
Gpm6b	3516.7151	0.3623958	3.85540181	2.63386501	1.39718141	0.00011554	0.02610979	Up
Gpr137c	17.6328619	1.03409222	2.07812674	4.43512477	2.14897469	0.03769769	0.31315709	Up
Gpr149	11.5018582	0.72035617	2.7592394	3.96586378	1.98763512	0.00579361	0.13819643	Up
Gpr158	379.336417	1.40926302	2.08845229	7.69103935	2.94317857	0.03675705	0.30979686	Up
Gpr3711	1136.53939	0.65845773	2.58578528	3.25493853	1.7026303	0.00971574	0.1693839	Up
Gpr85	87.5909092	0.57549905	2.84861516	3.1153091	1.63937531	0.004391	0.1260907	Up
Gprin1	102.040895	0.73510143	3.34749684	5.50502728	2.46074971	0.00081545	0.06507285	Up
Gprin2	35.8792317	0.79478318	2.79257644	4.65729666	2.21949278	0.00522901	0.13285169	Up
Grhl3	16.9339345	0.71993668	2.60986275	3.67803684	1.87893593	0.00905786	0.16516558	Up
Gria1	89.47261	0.8573992	3.31314355	7.1636092	2.84068664	0.00092254	0.06981054	Up

Grik2	549.093605	0.57147287	2.83689622	3.07632776	1.62120922	0.00455544	0.12755237	Up
Grip1	18.5627257	0.70573889	2.23574882	2.98525647	1.57785488	0.02536823	0.25794959	Up
Grk3	627.035519	0.67282211	2.60056254	3.36292351	1.74971596	0.00930711	0.16673014	Up
Grm2	5.55507233	0.99530924	-2.47854721	0.18087677	-2.46692094	0.01319187	0.19570985	Down
Grm3	15.2456425	0.92985719	1.99167925	3.60994603	1.85197727	0.04640626	0.33980433	Up
Grm7	140.294141	1.50788407	2.09557541	8.93758334	3.15988479	0.03611987	0.30678301	Up
Gsta3	13.5236018	0.75107913	2.79043554	4.27474361	2.09583789	0.00526372	0.13324165	Up
Gstm6	14.7665607	1.06233603	2.91457561	8.55198129	3.0962587	0.00356173	0.11765336	Up
Gzma	17.18853	0.72255556	-2.10028481	0.34927312	-1.51757246	0.03570379	0.30500663	Down
Haa0	9.64532915	0.69829984	-2.26916317	0.3334272	-1.58455629	0.0232584	0.25061985	Down
Hadhb	35753.7984	0.72295461	-1.98751657	0.36936414	-1.43688427	0.04686518	0.34031564	Down
Haghl	21.9216296	0.78739957	3.15484629	5.5949475	2.48412459	0.00160583	0.08814902	Up
Hand1	88.9329393	0.94904141	2.69068736	5.87086765	2.55357373	0.0071305	0.1494308	Up
Hap1	196.951072	0.76907627	2.44909358	3.68979268	1.88353976	0.01432162	0.2027956	Up
Hapl4	578.270947	1.12571311	-2.06107501	0.2002426	-2.32017916	0.03929588	0.31695936	Down
Hcn3	76.83221	1.00569367	2.24035785	4.76710605	2.25311372	0.0250677	0.25706106	Up
Hcn4	91.3222279	0.8205874	3.55075772	7.53551989	2.91370705	0.00038412	0.04667955	Up
Hebp2	77.8982432	0.56080744	2.41523488	2.55705236	1.3544817	0.01572507	0.21203476	Up
Hecw1	225.152654	0.61072746	2.25062547	2.59281412	1.37451878	0.02440927	0.25464478	Up
Hepacam	443.93987	0.45589484	3.32314727	2.85799956	1.51500569	0.00089008	0.0690267	Up
Hgd	57.6143851	0.81289933	-2.26578134	0.27896342	-1.84185213	0.02346477	0.25149425	Down
Hhipl2	9.01044209	0.84799878	-2.48852959	0.23160366	-2.11027007	0.01282726	0.19430139	Down
Hif3a	369.267648	0.51556546	2.05285112	2.08259042	1.05837913	0.04008702	0.32076924	Up
Hist3h2ba	25.0067539	0.6104245	3.15550999	3.80052997	1.92620061	0.00160218	0.08814902	Up
Hk3	28.5488243	0.63116848	-3.42889234	0.22310446	-2.16420877	0.00060605	0.05707898	Down
Hmgcll1	95.2244758	0.41165541	3.04548691	2.38450726	1.25369118	0.00232304	0.1020795	Up
Hmx1	27.971859	1.34791593	3.53143605	27.0973321	4.76007891	0.00041331	0.04805342	Up
Hpd1	136.081349	0.71012539	-2.29954069	0.32242551	-1.63296222	0.02147426	0.24110295	Down
Hprt1	111.412382	0.74892069	-3.75159299	0.1426305	-2.80964562	0.00017571	0.0328175	Down
Hpse	517.905331	0.70319696	-2.7727859	0.25884949	-1.94981462	0.00555787	0.13571584	Down
Hrh1	96.8480437	0.38288904	3.54095026	2.55937412	1.35579105	0.00039869	0.0474496	Up
Hs3st2	93.5575518	0.75174595	2.32781636	3.36341432	1.74992651	0.01992186	0.23375308	Up

Hs3st4	4.83539505	1.11702492	-2.3646274	0.16027844	-2.64134773	0.01804822	0.22584071	Down
Hs3st5	30.7233969	1.00049403	2.00678885	4.02162972	2.00778025	0.04477215	0.33535353	Up
Htr1d	25.6047682	0.88022352	3.99472868	11.4418953	3.51625415	6.48E-05	0.0183399	Up
Idh3a	11142.7014	0.6582003	-2.23346493	0.36096547	-1.47006728	0.0255183	0.25815565	Down
Igsf11	509.025251	0.71200993	2.67083099	3.736424	1.90165818	0.00756637	0.15410122	Up
Igsf23	6.97290915	0.58189304	2.09441945	2.3274144	1.21872811	0.03622263	0.30730898	Up
Il1f10	5.39268152	0.80819302	-2.17044661	0.2964499	-1.7541398	0.02997303	0.27900662	Down
Il1rn	97.2906681	0.49795808	-2.45577102	0.42842928	-1.22287102	0.01405827	0.20109326	Down
Il20ra	8.14770054	1.41230242	3.79105304	40.9023941	5.35411339	0.00015001	0.03107466	Up
Il21	5.56191857	1.44151735	2.28881432	9.84482488	3.29936554	0.02209014	0.24488791	Up
Il2rb	131.476335	0.42126825	-2.40292111	0.49576407	-1.01227438	0.0162647	0.21635775	Down
Impa2	2533.56327	0.69941372	-2.49911698	0.2977314	-1.7479167	0.01245032	0.19164284	Down
Impg1	2.8685072	0.84248203	-2.20681367	0.27562891	-1.85920086	0.02732708	0.26608664	Down
Ina	281.940559	1.40444826	2.21768394	8.6615328	3.11462236	0.02657639	0.26182666	Up
Ino80b	35.3147252	0.57047705	-2.59271362	0.35871659	-1.47908361	0.0095222	0.16857431	Down
Insrr	193.129771	1.43804873	2.75470256	15.5775508	3.96139651	0.00587455	0.13824882	Up
Iqsec3	235.128637	0.73267779	3.02463175	4.64629414	2.21608049	0.00248936	0.10289734	Up
Irg1	12.774571	0.74050433	-3.62943226	0.15522036	-2.68761032	0.00028405	0.03982596	Down
Irx5	11.8018887	0.58296067	2.80789769	3.10995545	1.63689392	0.00498661	0.13034697	Up
Isl1	63.842909	0.95686444	2.23166664	4.39359674	2.13540246	0.025637	0.25860371	Up
Islr2	69.7966739	0.76969728	2.0326804	2.95784937	1.56454858	0.04208482	0.32843794	Up
Itga2b	2624.04854	1.11868607	-2.56467519	0.13687526	-2.8690664	0.01032724	0.17449959	Down
Itgad	33.4794309	0.42599711	-3.09403326	0.4010769	-1.31804922	0.00197455	0.09602565	Down
Itgal	479.704289	0.41201411	-3.1482552	0.40693617	-1.29712558	0.00164248	0.08858243	Down
Itgax	740.419881	0.67648836	-3.43525366	0.19972556	-2.32390912	0.000592	0.05707898	Down
Itgb2	703.87636	0.38200683	-2.82645763	0.47311863	-1.07972612	0.0047066	0.12835359	Down
Itgb4	14555.7776	0.43519789	3.44083015	2.8234166	1.49744202	0.00057993	0.05707898	Up
Jakmip1	83.772559	1.09024914	2.49202861	6.57473181	2.71693205	0.01270158	0.1933019	Up
Jakmip2	34.2959143	1.20938731	2.85870321	10.9836023	3.45727939	0.00425377	0.12463794	Up
Jaml	53.5981841	0.40468348	-2.59480443	0.48294323	-1.05007449	0.00946448	0.16836335	Down
Jph3	563.710969	0.23269901	4.96043961	2.22574664	1.15428938	7.03E-07	0.00123478	Up
Kbtbd11	1718.43796	0.60431398	-2.17131561	0.40271849	-1.31215639	0.02990732	0.27894535	Down

Kcna6	131.860465	1.00058629	2.46528395	5.52789154	2.46672931	0.01369047	0.19905946	Up
Kcnb2	156.122204	1.04872465	2.98167788	8.73591659	3.12695908	0.00286673	0.10870063	Up
Kcnc3	14.8574987	1.05102334	2.65435121	6.91526763	2.78978509	0.00794611	0.15640298	Up
Kcnc4	420.753284	0.5019921	2.7482819	2.60199067	1.37961579	0.00599085	0.14024376	Up
Kcnd2	38.7108067	1.25273867	2.06779026	6.02266006	2.59040083	0.03865975	0.31497635	Up
Kcnf1	16.6398972	1.08931281	-1.99248097	0.22214367	-2.17043504	0.04631831	0.33978103	Down
Kcnh5	3.25881431	2.13621741	2.10566611	22.5985859	4.4981606	0.03523337	0.30366076	Up
Kcnh7	98.6273414	0.78865563	2.23159221	3.38688211	1.75995777	0.02564193	0.25860371	Up
Kcnh8	91.622058	0.77160417	3.08359785	5.20290349	2.37931695	0.00204514	0.09738633	Up
Kcnj10	253.892554	0.49455245	3.18385147	2.97849091	1.57458156	0.0014533	0.08434388	Up
Kcnj3	5.34336645	1.39959413	2.45630414	10.8365142	3.43782885	0.01403743	0.20109326	Up
Kcnj9	55.4674757	0.32509229	3.37511397	2.13942565	1.09722354	0.00073785	0.06237718	Up
Kcnk1	63.7338721	0.49289635	2.45713257	2.31515963	1.21111167	0.0140051	0.20109326	Up
Kcnk10	46.1509047	1.18859098	2.03283021	5.33764605	2.41620364	0.04206968	0.32843794	Up
Kcnk16	3.07960044	1.28853423	3.83773547	30.8041651	4.94505353	0.00012417	0.02725002	Up
Kcnk6	34.7715646	0.45635875	4.58590956	4.2658107	2.09281994	4.52E-06	0.00343685	Up
Kcnk9	28.1262826	1.35020857	2.09986362	7.13668382	2.83525386	0.03574084	0.30500663	Up
Kcnmb4	110.463406	0.99371441	2.18123617	4.49252279	2.16752582	0.02916595	0.27512457	Up
Kcnn2	5.26401129	1.49144892	1.96026183	7.58753036	2.92363038	0.0499652	0.3507181	Up
Kcnq2	256.109591	0.46041778	2.65073952	2.33019	1.2204476	0.00803158	0.15736869	Up
Kcnq3	824.1815	0.70403435	2.72946482	3.78852688	1.92163698	0.00634372	0.14333382	Up
Kiaa0895l	146.981984	0.61879854	2.91796593	3.49582524	1.80563307	0.00352323	0.11765336	Up
Kif1a	2804.45213	1.00517026	2.68418082	6.48928146	2.69805874	0.00727078	0.15052566	Up
Kif21a	1378.122	0.72404676	3.08334019	4.69941919	2.23248246	0.00204691	0.09738633	Up
Kif2c	79.7847767	0.41683631	3.07981	2.43475507	1.28377665	0.00207133	0.09744337	Up
Kif5a	923.931699	0.84409588	3.00430015	5.79945523	2.53591739	0.00266193	0.1046542	Up
Kif5c	1105.84685	0.66234582	2.99412736	3.95354742	1.98314773	0.00275231	0.10619684	Up
Kir3dl1	2.41558797	0.94810052	-2.53988574	0.18840811	-2.408067	0.01108887	0.18143167	Down
Klb	832.134069	0.58382255	-2.10016067	0.42746519	-1.22612116	0.03571471	0.30500663	Down
Klf5	142.198197	0.51644164	3.71805205	3.78464212	1.92015688	0.00020076	0.03632799	Up
Klhdc8a	139.046706	0.32741139	-5.01380693	0.32050583	-1.64157748	5.34E-07	0.00104094	Down
Klhl34	176.656042	0.59246403	3.3620228	3.97754313	1.99187758	0.00077374	0.06381172	Up

Klrb1a	19.9951775	0.53564104	-3.373739	0.28576219	-1.80711306	0.00074155	0.06237718	Down
Klrc1	8.6896519	0.61376367	-1.97649723	0.43134012	-1.2131022	0.04809849	0.34465596	Down
Klrd1	29.5738951	0.42387884	-2.91428052	0.42475362	-1.23530184	0.00356509	0.11765336	Down
Klre1	7.86694873	0.8557334	-2.24957178	0.26333411	-1.92503371	0.02447614	0.25464478	Down
Klri2	1.85433979	1.35581231	-2.07038081	0.14288756	-2.80704778	0.0384167	0.31463868	Down
Kndc1	63.9706341	1.24495413	2.67301832	10.0406809	3.3277852	0.00751721	0.15363471	Up
Krt22	32.3121723	0.64301783	2.40659878	2.92307313	1.54748592	0.01610185	0.21529631	Up
Krt26	4.94853035	1.33301691	3.08009725	17.2177143	4.10582173	0.00206933	0.09744337	Up
Krt28	1.19050562	1.37933246	2.17955772	8.03520435	3.00633472	0.02929026	0.27572109	Up
Krt7	15.8065253	0.64323146	-3.38478682	0.22110425	-2.17720136	0.00071234	0.06196886	Down
Ksr2	43.1358975	1.17928711	2.23351718	6.20726623	2.63395802	0.02551486	0.25815565	Up
L1cam	2389.3209	0.68652688	3.197522	4.57948324	2.19518481	0.00138614	0.08235285	Up
LOC100302465	1.51336862	1.58792152	2.11545482	10.2615462	3.35917623	0.0343912	0.3004901	Up
LOC100360933	1.81491944	2.02773246	2.0631428	18.1701903	4.18350162	0.03909906	0.31646987	Up
LOC100361180	13.8496262	0.47292415	2.70962719	2.43082853	1.28144813	0.00673589	0.14589419	Up
LOC100362172	5.44410452	1.05500362	-2.84298663	0.12505536	-2.99936119	0.00446929	0.12655312	Down
LOC100362216	14.5267352	0.7844659	2.36586943	3.61988505	1.85594388	0.01798779	0.22556685	Up
LOC100362684	57.3948672	0.32705504	3.25541295	2.09173374	1.06469922	0.00113228	0.07513311	Up
LOC100363193	171.440894	0.78181584	-2.30011903	0.28751926	-1.79826948	0.02144148	0.24110295	Down
LOC100363993	5.06547474	1.23344911	2.6147513	9.35127224	3.22516266	0.00892924	0.16512064	Up
LOC100364027	5.86745139	1.00193066	3.5532908	11.7953881	3.56015099	0.00038044	0.04667955	Up
LOC100364194	37.855433	1.42731807	-2.77115145	0.06446614	-3.95531453	0.00558584	0.1359239	Down
LOC100365773	128.20084	0.55575292	3.58755189	3.98282596	1.99379244	0.0003338	0.04392686	Up
LOC100909464	14.7799461	0.62189241	2.20964842	2.59217581	1.37416357	0.02712957	0.26519308	Up
LOC100909595	131.165449	0.52961053	2.12531315	2.1819049	1.12558822	0.03356049	0.29667069	Up
LOC100909671	6.49639476	0.91946283	-2.25209744	0.23804069	-2.07071988	0.02431611	0.25448138	Down
LOC100909709	26.528907	0.86541686	2.24467763	3.84392948	1.94258187	0.02478884	0.25584526	Up
LOC100909856	48.7203356	0.73658926	2.27443659	3.19391421	1.67532556	0.02293975	0.24906014	Up
LOC100909950	26.7884342	0.83484843	2.40083538	4.01203349	2.00433365	0.01635769	0.21667611	Up
LOC100909954	68.4130314	0.87271745	2.41690652	4.31474855	2.10927649	0.01565304	0.21178673	Up
LOC100910018	3.20159798	1.2708121	2.73944141	11.1681266	3.48131529	0.00615437	0.14151811	Up
LOC100910069	22.6668332	0.59926015	1.98018215	2.27622671	1.18664425	0.04768306	0.34378804	Up

LOC100910288	128.918561	0.55481718	3.05524131	3.2379941	1.69510036	0.0022488	0.10150804	Up
LOC100910462	5.53927816	2.49238755	2.32400489	55.4194647	5.79232087	0.02012523	0.23414087	Up
LOC100910650	209.341064	1.08788341	-2.86646477	0.11515273	-3.11837946	0.00415084	0.12299483	Down
LOC100910851	12.9057808	1.11940003	2.03246218	4.84044013	2.27513823	0.04210689	0.32843794	Up
LOC100910954	4.07061533	1.44485325	-3.15408547	0.04247652	-4.55719063	0.00161002	0.08814902	Down
LOC100911034	218.533099	0.42567346	-3.87421813	0.31882754	-1.64915183	0.00010697	0.02503897	Down
LOC100911372	695.201711	0.30620482	3.69557805	2.19102177	1.13160382	0.00021939	0.03668152	Up
LOC100911374	99.8389815	0.67457556	3.46016845	5.04252061	2.33414508	0.00053984	0.05478259	Up
LOC100911581	5.81811464	1.02845316	3.21306311	9.87982108	3.30448491	0.00131327	0.08005501	Up
LOC100911672	112.477437	0.497922	2.30199791	2.21332516	1.14621542	0.02133529	0.24103124	Up
LOC100911685	203.595841	0.48104775	-2.85240647	0.38631679	-1.3721437	0.00433896	0.12555013	Down
LOC100911761	7.2401431	0.82583702	2.03654264	3.20839621	1.68185231	0.0416959	0.32752266	Up
LOC100911867	69.5883988	0.69635022	3.41758037	5.20476431	2.37983283	0.0006318	0.05893899	Up
LOC100912262	68.4500623	0.68243824	-2.13989589	0.36340576	-1.46034679	0.03236318	0.29136821	Down
LOC100912393	9.17862485	1.80058813	2.00973685	12.2839983	3.61870832	0.04445905	0.33535353	Up
LOC100912475	15.5068035	0.52399424	3.95464647	4.20530941	2.07221195	7.66E-05	0.01979495	Up
LOC100912573	11.5594201	0.78347285	2.21337953	3.32677148	1.73412277	0.02687149	0.26355078	Up
LOC100912615	32.7389946	0.67365717	2.5975682	3.3632836	1.74987044	0.00938865	0.16767761	Up
LOC102546424	14.4758592	1.8452659	3.36017	73.5374441	6.20040713	0.00077895	0.06381172	Up
LOC102547811	10.6156012	1.071539	2.49052078	6.35851624	2.66869015	0.0127556	0.19355002	Up
LOC102549011	85.9835639	0.45507518	-2.68181408	0.42915567	-1.22042703	0.00732241	0.15096738	Down
LOC102549716	2.46471191	1.37748799	-2.37929884	0.1031306	-3.27745557	0.01734561	0.22243936	Down
LOC102550714	14.8370948	0.58921669	-2.19385183	0.40819938	-1.29265412	0.02824606	0.27070894	Down
LOC102551177	5.56409489	1.26372462	1.96846019	5.60840913	2.4875916	0.04901511	0.34818661	Up
LOC102551539	22.03352	0.51110689	-3.11018916	0.33225456	-1.58963912	0.00186968	0.09410949	Down
LOC102551716	162.141934	0.57267532	2.84793646	3.09715359	1.63094293	0.00440037	0.1260907	Up
LOC102551823	16.9722351	1.59427018	-2.41582254	0.06927728	-3.85147383	0.01569971	0.21185559	Down
LOC102552286	1.91228338	1.49944604	-2.27557242	0.09394121	-3.41209807	0.02287161	0.24891719	Down
LOC102552640	103.268382	0.60499162	2.7218422	3.13114805	1.64669173	0.00649191	0.14500259	Up
LOC102553088	7.5006461	1.14415529	2.7567037	8.90180024	3.15409713	0.00583872	0.13824882	Up
LOC102553691	7.16120027	0.7723489	-2.34893363	0.28436261	-1.81419631	0.01882726	0.22937642	Down
LOC102553825	49.6699686	1.1584022	2.35430447	6.62183685	2.72723147	0.0185574	0.22819978	Up

LOC102554066	13.1788427	0.53705952	2.35981641	2.40720979	1.26736188	0.01828398	0.22717167	Up
LOC102556178	2.77891228	1.35329078	3.14782516	19.1586335	4.25992276	0.0016449	0.08858243	Up
LOC102556339	104.117022	0.60185763	4.2040814	5.7767517	2.53025849	2.62E-05	0.00979194	Up
LOC102557071	2.05286178	1.32126232	2.47321673	9.6315505	3.26776806	0.01339029	0.19691729	Up
LOC102557539	7.01816883	0.76363977	-2.07951536	0.33263211	-1.58800063	0.03757001	0.31284146	Down
LOC103690005	45.3753866	0.80942978	3.40307687	6.74842938	2.75455177	0.00066632	0.05968281	Up
LOC103690068	207.388579	0.83805935	3.62815825	8.2284001	3.04061194	0.00028545	0.03982596	Up
LOC103690082	299.265367	0.52735543	2.27272839	2.29506603	1.19853566	0.02304255	0.249713	Up
LOC103690099	14.8090287	1.12939393	-2.74146728	0.11693701	-3.09619652	0.00611655	0.14147835	Down
LOC103690139	16.2377311	0.44864381	2.57182457	2.22504292	1.15383317	0.01011641	0.1727663	Up
LOC103690163	9.37069012	0.81564991	2.53836252	4.2000752	2.07041516	0.01113726	0.18175249	Up
LOC103690896	38.559015	0.59097854	2.20584417	2.46845194	1.30360656	0.02739491	0.26644556	Up
LOC103691522	2.07212877	1.95067728	-2.36095982	0.04107856	-4.60547069	0.01822771	0.2271154	Down
LOC103692002	1270.50834	0.60825877	-2.0670664	0.41832285	-1.25731127	0.0387279	0.31497635	Down
LOC103692025	56.5029453	0.7873309	2.84672959	4.72828883	2.24131817	0.00441709	0.1260907	Up
LOC103692128	63.640431	0.53446584	2.8691327	2.89477944	1.53345343	0.00411599	0.12268308	Up
LOC103692165	12.9857567	0.59125163	6.090529	12.1344362	3.60103517	1.13E-09	6.59E-06	Up
LOC103692936	2.03523558	2.18527466	1.99087855	20.4016856	4.35061645	0.04649424	0.33996372	Up
LOC103693260	2.65367637	1.57932492	1.97814111	8.71878776	3.12412756	0.04791279	0.34452013	Up
LOC103694491	19.1079247	1.06447818	2.02905955	4.46880658	2.1598896	0.04245223	0.32965165	Up
LOC103694513	32.0859933	0.79777689	2.04931496	3.10565188	1.63489612	0.04043133	0.32164121	Up
LOC108348048	20.3870176	0.53158172	2.1564991	2.21354009	1.1463555	0.03104471	0.28410184	Up
LOC108348064	5.64754557	1.0208823	2.02900329	4.20286624	2.07137354	0.04245795	0.32965165	Up
LOC108348081	21.8594821	0.63142894	2.18580889	2.60301387	1.380183	0.02882959	0.27373298	Up
LOC108348096	65.1353645	0.70861686	3.13428348	4.66218458	2.22100612	0.00172274	0.08974624	Up
LOC108348121	2.16939111	2.10156587	2.11329251	21.7240838	4.44122343	0.03457574	0.30124649	Up
LOC108348144	82.4088383	0.84997766	2.64823792	4.75993894	2.25094307	0.00809126	0.15783343	Up
LOC108348212	12.820385	1.3776643	-2.25342291	0.1162691	-3.1044603	0.0242325	0.25413722	Down
LOC108348243	1.9034282	1.13667967	-2.11793861	0.18849292	-2.40741776	0.03418027	0.30041322	Down
LOC108348486	12.0567635	0.80302522	-2.01280022	0.32616427	-1.61632934	0.04413565	0.33509173	Down
LOC108349691	7.93632463	0.58190853	2.06722176	2.30207363	1.20293398	0.03871326	0.31497635	Up
LOC108350198	19.9421763	0.52390965	-2.00185273	0.48337341	-1.04878997	0.04530057	0.33756666	Down

LOC108350550	30.9071404	0.77069331	2.37651082	3.5592197	1.83156099	0.01747725	0.2228254	Up
LOC108350623	4.26095953	0.85211078	-2.39366577	0.24321963	-2.0396684	0.01668094	0.21854523	Down
LOC108350662	26.8276695	0.53187724	2.434351	2.45338883	1.2947759	0.01491852	0.20651932	Up
LOC108351322	14.0646243	0.49046665	2.48188008	2.32507849	1.21727942	0.01306912	0.19534092	Up
LOC108351600	6.73899714	1.75511099	2.07025853	12.4108799	3.6335335	0.03842814	0.31463868	Up
LOC108351885	5.71975596	1.24740014	4.27810938	40.4064656	5.33651426	1.88E-05	0.00808886	Up
LOC108351956	117.562587	0.5342447	2.79888776	2.81920999	1.49529094	0.0051279	0.13117495	Up
LOC108352087	131.905967	0.51788932	-2.13522426	0.46464158	-1.10580983	0.0327427	0.29255455	Down
LOC108352182	1.32272753	1.25111588	2.50767258	8.79930144	3.13738899	0.01215292	0.18948197	Up
LOC108352192	1.45891515	1.4500283	2.28128446	9.90342139	3.30792703	0.02253162	0.24707378	Up
LOC108353239	14.3428945	0.96762401	2.47971272	5.27594519	2.39942958	0.01314883	0.19546216	Up
LOC290595	10.6116901	0.8738803	-2.65457922	0.20029739	-2.31978449	0.00794074	0.15640298	Down
LOC317416	1.85893176	1.42200425	2.2014295	8.75703265	3.13044209	0.02770563	0.26813676	Up
LOC363324	11.900653	1.44950363	3.15409665	23.7832595	4.57187454	0.00160996	0.08814902	Up
LOC363337	8.27232545	1.187369	2.12301097	5.73899221	2.52079742	0.03375293	0.29792182	Up
LOC498236	4.14875705	0.74492702	2.964561	4.62156537	2.20838159	0.00303115	0.11204984	Up
LOC501317	5.18872415	1.04822785	2.93690575	8.44762861	3.07854641	0.00331505	0.11547418	Up
LOC501396	17.5349661	0.74229493	2.35618088	3.36121105	1.74898113	0.01846392	0.22795546	Up
LOC502618	36.1332251	0.40073484	2.53141946	2.02010175	1.01442796	0.01136019	0.18314004	Up
LOC679739	13.0499954	0.50789951	-2.73357578	0.38199303	-1.3883818	0.00626507	0.14333382	Down
LOC680316	7.69874637	2.40477625	2.60617175	77.025269	6.26725991	0.00915605	0.16561185	Up
LOC680377	3.45508545	1.02276758	-2.92303706	0.12590543	-2.98958754	0.00346635	0.11765336	Down
LOC681300	10.5724647	0.50963054	2.11138325	2.10821993	1.07602538	0.03473938	0.30182569	Up
LOC681325	15.1582882	0.48104539	-2.92762878	0.37674955	-1.40832232	0.00341558	0.11757617	Down
LOC685668	50.7306135	0.86856618	2.50624075	4.52160813	2.17683596	0.01220225	0.18968716	Up
LOC688613	16.77549	1.29281221	2.72999536	11.5464011	3.52937135	0.00633352	0.14333382	Up
LOC689268	7.64006653	0.83182553	2.26004759	3.68066203	1.87996528	0.0238183	0.25252784	Up
LOC689679	9.53569913	0.55676943	3.37335352	3.67611049	1.87818013	0.00074259	0.06237718	Up
LOC690348	3.73035761	0.66642642	-2.21511579	0.35943139	-1.47621169	0.02675212	0.26282047	Down
LOC690918	14.7779433	0.63729595	2.02587445	2.44711448	1.29108159	0.04277765	0.33056156	Up
LOC691414	31.0087472	0.78558807	3.00399006	5.1333433	2.35989875	0.00266464	0.1046542	Up
LOC691551	12.3770062	0.61893725	3.70390366	4.89898869	2.29248396	0.00021231	0.03632799	Up

LOC691712	6.22672153	1.32387007	3.04734619	16.3848484	4.03429042	0.00230872	0.1020795	Up
LRRTM1	145.239058	0.9722111	2.24838775	4.55012927	2.18590753	0.02455148	0.25464478	Up
Lad1	13.9054063	0.80486667	2.84144721	4.88035517	2.28698614	0.00449093	0.12675682	Up
Lair1	15.5560599	0.63488779	2.0458801	2.46041946	1.29890429	0.04076817	0.32276175	Up
Lamb3	31.7715256	0.67161804	-2.28254928	0.34555775	-1.53300127	0.02245693	0.24667005	Down
Lancl3	25.8085477	0.67940036	2.35898639	3.0371038	1.60269621	0.01832493	0.22733939	Up
Lefty1	6.49482824	1.15140649	-2.50409985	0.13553743	-2.88323683	0.01227634	0.19039169	Down
Letmd1	7582.2419	0.61656682	-2.13366041	0.40177391	-1.31554421	0.03287059	0.29293201	Down
Lgi1	126.149954	0.90481877	2.29524148	4.21863878	2.07677756	0.02171929	0.2424055	Up
Lgi3	254.049963	1.00226032	2.55784716	5.91192806	2.56362871	0.01053224	0.1754307	Up
Lgi4	3559.81109	0.65006534	2.75831694	3.4655546	1.79308625	0.00580998	0.13821148	Up
Lgr5	269.289824	0.79940709	2.44596575	3.87802567	1.95532235	0.01444647	0.20345185	Up
Lhfp12	1311.39573	0.4458659	2.4664617	2.14311781	1.09971116	0.01364553	0.19880578	Up
Lhfp14	24.119468	1.25273998	2.73156845	10.7178602	3.421945	0.00630336	0.14333382	Up
Lhfp15	78.2633705	1.07128073	2.54349168	6.61065681	2.72479362	0.01097507	0.18057945	Up
Lilrb3	145.63915	0.71827405	-2.14064861	0.3444646	-1.53757235	0.03230239	0.29097008	Down
Lilrb3a	47.2772983	0.53012411	-2.47045496	0.40341937	-1.30964773	0.01349413	0.19791392	Down
Lilrb4	186.901155	0.5536631	-2.60391827	0.36813493	-1.44169346	0.00921647	0.16603879	Down
Lilrc2	17.3789789	0.67191989	-2.7401033	0.27910311	-1.84112992	0.00614199	0.14151811	Down
Lin28a	8.67585107	0.59407147	2.18969867	2.46371862	1.3008375	0.0285461	0.27266338	Up
Lingo1	285.215984	0.44786179	2.44395489	2.13547057	1.09455401	0.01452724	0.20360887	Up
Lingo2	11.6811561	1.34525971	2.58663936	11.1556425	3.4797017	0.0096917	0.1691887	Up
Liph	51.6810708	1.11241287	-2.70200099	0.1245036	-3.00574068	0.00689236	0.14774383	Down
Lix1	40.5571257	0.81757936	4.69891743	14.3376622	3.8417379	2.62E-06	0.00218651	Up
Lmo3	53.9507211	0.57495558	3.00989551	3.31855741	1.73055623	0.00261338	0.10451122	Up
Lonrf2	1485.18309	0.40396917	2.51594384	2.0228141	1.01636374	0.01187141	0.18725143	Up
Lpar1	1557.31789	0.23793781	4.255123	2.01734053	1.01245463	2.09E-05	0.00815122	Up
Lrrc4b	515.515729	0.52166803	3.31833509	3.3197379	1.73106934	0.00090556	0.06912162	Up
Lrrc4c	381.486829	0.75338937	2.76164718	4.22981815	2.08059564	0.00575106	0.1377285	Up
Lrrc55	158.551522	0.83145885	2.43891101	4.07797845	2.02785415	0.0147316	0.20493494	Up
Lrriq1	6.14169686	1.42828111	2.25698952	9.34124929	3.22361551	0.02400873	0.25364725	Up
Lrrn2	172.418564	0.61752636	2.80331079	3.31985059	1.73111831	0.00505809	0.1309732	Up

Lrrn4	148.211682	0.76759447	-2.48752456	0.26620137	-1.90941009	0.01286356	0.19468329	Down
Lrrtm4	260.469879	0.54179104	2.50920267	2.56589749	1.35946354	0.0121004	0.1891454	Up
Lst1	20.6831316	0.42675803	-2.36593632	0.4966556	-1.00968232	0.01798454	0.22556685	Down
Ltk	48.1849165	0.67546975	4.27761549	7.40962162	2.88939987	1.89E-05	0.00808886	Up
Luzp2	45.6508955	1.27712369	2.48370538	9.01294745	3.17199898	0.01300233	0.1952997	Up
Ly49s6	15.7901102	0.58462293	-2.88894754	0.31015365	-1.68894497	0.00386534	0.11958141	Down
Ly6g6c	95.9606529	0.89357453	-2.14277575	0.2652216	-1.91472984	0.03213111	0.29047053	Down
Ly6g6e	90.3242011	0.59337991	2.21262967	2.48445602	1.31293	0.02692319	0.26389527	Up
Ly6g6f	157.88142	1.33187559	-2.26734984	0.12329379	-3.01982792	0.02336886	0.25107941	Down
Lynx1	934.227911	1.1649185	2.0785875	5.35685052	2.42138504	0.03765528	0.31315709	Up
MAST1	223.253616	1.09906989	2.71927459	7.93743474	2.98867282	0.00654253	0.14557744	Up
Macc1	5.99428538	0.56501246	-3.43086221	0.26089118	-1.93847991	0.00060167	0.05707898	Down
Macrod2	41.6231583	0.75308725	2.20722872	3.1650665	1.66223581	0.02729808	0.26595182	Up
Magel2	77.2299475	1.08228663	-2.81405767	0.12110942	-3.04561699	0.00489205	0.1293445	Down
Map2	2091.93311	0.5905177	3.45511936	4.11333661	2.04030914	0.00055005	0.05549807	Up
Map2k3	437.019154	0.71041641	2.2343707	3.00493462	1.5873336	0.02545869	0.25812931	Up
Mapk10	320.996505	0.93019776	2.50000434	5.01238917	2.32549843	0.01241918	0.19142326	Up
Mapk11	221.396423	0.48385849	2.0701881	2.00232767	1.00167808	0.03843473	0.31463868	Up
Matn3	17.2411028	0.48750918	2.07894092	2.01880671	1.01350278	0.03762278	0.3130358	Up
Mb	355.451275	1.33202915	-2.27297123	0.12262594	-3.02766393	0.02302791	0.2497085	Down
Mboat2	521.33512	0.57874488	3.37378585	3.87061092	1.95256129	0.00074142	0.06237718	Up
Mdga1	143.567923	0.4596668	2.76695698	2.41475743	1.27187827	0.00565822	0.1364502	Up
Megf10	327.928775	0.69806849	2.1173038	2.78566748	1.47802306	0.03423407	0.30041322	Up
Mepce	52.1935133	0.57485684	3.02452787	3.33727491	1.73867053	0.00249022	0.10289734	Up
Mesp2	5.42905841	1.16428925	-2.22594277	0.16589689	-2.59164123	0.02601802	0.2598561	Down
Mfsd14a	160.16182	0.71957276	2.50603651	3.49011752	1.80327562	0.0122093	0.18968716	Up
Mgat3	760.866718	0.48121787	2.09022348	2.00813031	1.00585289	0.03659773	0.30864324	Up
Mgat5b	14.9226867	1.30527086	2.56771376	10.2075303	3.35156194	0.01023717	0.1737349	Up
Miip	29.1033519	0.51867805	3.52944126	3.55695745	1.83064372	0.00041644	0.04807037	Up
Mill1	5039.94879	0.45284885	2.39457103	2.12046215	1.08437873	0.01663982	0.2183302	Up
Mlip	262.073876	0.68188552	2.33343273	3.01286074	1.59113399	0.01962545	0.23336282	Up
Mmd2	242.889043	0.92120679	2.46874448	4.83737435	2.27422419	0.0135588	0.19836524	Up

Mmp12	39.7988405	1.39502787	-4.31195826	0.01546015	-6.01530196	1.62E-05	0.00750774	Down
Mpl	313.522552	0.97294848	-2.58078042	0.17543805	-2.51096638	0.00985773	0.17072263	Down
Mrap2	104.902734	0.8793994	2.36687471	4.23225979	2.08142819	0.017939	0.22556685	Up
Mreg	1512.19902	0.81498097	-2.09880126	0.30555774	-1.71048309	0.03583442	0.30524461	Down
Mrgprx2	4.81608306	1.02186704	-2.33257777	0.1916327	-2.38358435	0.01967032	0.23341161	Down
Mrpl53	61.1454228	0.6371174	-2.09016925	0.39730443	-1.3316832	0.0366026	0.30864324	Down
Ms4a8	10.9390766	0.55577603	-2.50330659	0.381227	-1.39127779	0.01230389	0.19065058	Down
Msh4	15.1470151	0.91363018	-2.31745462	0.23047841	-2.11729649	0.02047898	0.23668794	Down
Msln	115.522774	1.09016276	-4.15713392	0.04322613	-4.53195259	3.22E-05	0.01136558	Down
Mt3	80.5747055	0.94132548	2.45173042	4.95153662	2.30787631	0.01421711	0.20211141	Up
Mtfp1	276.087034	0.83955637	-2.07476721	0.29897898	-1.74188402	0.03800811	0.31397173	Down
Muc16	201.070984	1.39991652	-4.0223326	0.02018	-5.63092986	5.76E-05	0.01686096	Down
Muc20	128.92984	1.12702804	-2.94280518	0.10036833	-3.31662397	0.00325253	0.11397489	Down
Muc5b	1.7179433	1.25162911	1.96127885	5.48234721	2.4547937	0.0498465	0.35032234	Up
Mybpc2	2640.73668	0.64558585	-2.49437901	0.32752211	-1.61033579	0.01261777	0.19290113	Down
Myh4	265.537629	1.56834258	4.41928529	122.018263	6.93095329	9.90E-06	0.00616542	Up
Myh6	266.767429	0.66118435	3.079552	4.10149991	2.0361516	0.00207312	0.09744337	Up
Myh7	49.9156805	0.80670198	2.65724763	4.41865385	2.14360692	0.00787816	0.15610484	Up
Mylk4	8.38502626	0.75371912	-2.40039552	0.28534437	-1.80922401	0.01637737	0.21667611	Down
Myo16	32.1263732	0.57447408	4.22116357	5.37010032	2.42494904	2.43E-05	0.00927585	Up
Myo19	1610.74765	0.47342101	-2.22528041	0.48179973	-1.0534945	0.02606242	0.25997264	Down
Myo3a	23.0670541	0.74416637	2.87036709	4.39551027	2.13603066	0.00409996	0.12241295	Up
Myoc	545.434053	0.47143458	4.9054275	4.96773476	2.31258815	9.32E-07	0.00125896	Up
Myom2	41.8953816	0.49021583	2.32971068	2.20696087	1.14206105	0.01982145	0.23375308	Up
Myt1	46.3909043	1.59148793	2.00377537	9.11968708	3.18898432	0.04509413	0.33645241	Up
NEWGENE_1306455	782.078734	0.32148249	3.7698689	2.31650025	1.21194684	0.00016333	0.03158787	Up
NEWGENE_1308196	32.1685075	0.94269686	2.82723428	6.3432617	2.66522486	0.0046952	0.12835359	Up
NEWGENE_1310847	7.98321584	0.7249743	-2.08009914	0.35159381	-1.50801841	0.03751644	0.31284146	Down
Naglt1	2.34619705	1.18807066	2.10288861	5.65050675	2.49838026	0.03547551	0.30415895	Up
Nap115	629.248491	0.59728532	2.57930601	2.90911757	1.54058161	0.0098999	0.17106567	Up
Napb	1205.83366	0.51408454	2.82400849	2.73545173	1.4517791	0.00474271	0.12835359	Up
Nat8f3	467.907578	0.37310688	3.19846101	2.28685961	1.1933678	0.00138163	0.08235285	Up

Nat8f5	29.8142576	0.55491081	2.44111463	2.55726364	1.3546009	0.01464201	0.20429358	Up
Natd1	52.7914753	0.37215163	3.40949403	2.40969201	1.26884877	0.00065084	0.05951481	Up
Ncam2	273.533873	0.75105848	2.52087911	3.71491099	1.89332764	0.01170621	0.18598964	Up
Nckap5	120.827169	0.57450726	2.00701863	2.2238304	1.15304677	0.04474768	0.33535353	Up
Ncr1	12.0803147	0.43449289	-2.51930479	0.46825944	-1.09462003	0.01175868	0.18598964	Down
Ndrg4	3586.49393	0.57320304	2.9591713	3.2404765	1.69620597	0.00308468	0.11220917	Up
Necab2	50.8653154	0.50872522	1.96624284	2.00038447	1.00027731	0.04927057	0.34887938	Up
Nefh	294.575747	0.7223492	2.44913736	3.40848922	1.76913242	0.01431988	0.2027956	Up
Nefl	1156.36619	1.53443758	2.15372125	9.88164232	3.30475084	0.03126204	0.28481388	Up
Nefm	465.306027	1.35268127	2.19378469	7.82175021	2.96749146	0.02825089	0.27070894	Up
Negr1	106.346583	0.36227517	2.88974962	2.06606341	1.04688453	0.00385549	0.11958141	Up
Nell1	20.3725811	0.79018557	2.37329025	3.66887996	1.8753397	0.0176304	0.22369006	Up
Nell2	35.8261423	0.71393978	2.20354458	2.97563615	1.57319813	0.02755639	0.26728174	Up
Neto1	31.54494	0.67705444	2.53175745	3.28100462	1.71413763	0.01134925	0.18313178	Up
Neurl1	184.144521	0.84968709	2.13864719	3.52391934	1.8171809	0.03246425	0.29170331	Up
Nfasc	997.089938	0.4522684	2.55673719	2.2288993	1.15633144	0.0105659	0.17582461	Up
Nfe2	361.525681	0.80643617	-2.65403739	0.22683077	-2.14031174	0.0079535	0.15640298	Down
Nfil3	1127.901	0.38669042	-3.05869903	0.44050503	-1.18276961	0.002223	0.10092309	Down
Ngb	460.458558	1.11555209	2.72738925	8.23943135	3.04254477	0.00638377	0.14349992	Up
Ngfr	1329.9739	0.75590888	3.17287404	5.27219471	2.39840365	0.00150938	0.08520474	Up
Nhp2	34.5547311	0.76048663	3.01168334	4.89173042	2.2903449	0.00259803	0.1043424	Up
Nme5	20.8299501	0.35402261	3.10987133	2.14498084	1.10096476	0.00187169	0.09410949	Up
Nmnat2	330.855738	0.68821769	2.90034663	3.98911819	1.99606987	0.0037275	0.11876593	Up
Noct	770.5777	0.42862534	-2.92658392	0.41916553	-1.25440802	0.00342707	0.11765336	Down
Nol4	2.50754704	1.50585592	2.36519723	11.8076197	3.56164626	0.01802047	0.22575015	Up
Notum	8.70250977	0.76436812	-2.39218017	0.28155599	-1.82850627	0.01674862	0.218623	Down
Npas2	761.719868	0.16286964	-9.10550729	0.35774147	-1.48301071	8.59E-20	1.51E-15	Down
Npas4	375.69605	0.64153292	-2.10061909	0.39294075	-1.34761629	0.03567442	0.30500663	Down
Npffr1	10.6987353	0.78942498	2.04585642	3.06322251	1.61505017	0.0407705	0.32276175	Up
Npr3	2617.05964	0.78995705	-2.04754501	0.3259059	-1.61747262	0.0406046	0.32241266	Down
Npy2r	17.4297048	1.30287864	2.2302496	7.49404467	2.90574458	0.02573088	0.2586687	Up
Npy4r	83.2525348	1.69914935	1.98933017	10.4119549	3.38016907	0.04666477	0.34029854	Up

Nr0b2	80.4967477	1.27389622	-2.59234427	0.10136436	-3.30237756	0.00953243	0.16857431	Down
Nr1h5	6.23627217	1.22929772	3.21542402	15.4840763	3.95271341	0.00130252	0.08005501	Up
Nr4a3	2986.62323	0.53082272	-2.34222377	0.42240371	-1.2433056	0.01916922	0.23113653	Down
Nrcam	655.733276	0.88888444	2.27842545	4.07064367	2.02525694	0.02270124	0.24785012	Up
Nrgn	697.65064	0.86004711	-2.6261937	0.20896738	-2.25865031	0.00863457	0.16278867	Down
Nrip3	616.106223	0.60060026	2.73100254	3.11717863	1.64024083	0.0063142	0.14333382	Up
Nrn1	270.22052	0.53763618	3.05364832	3.12044509	1.64175182	0.00226077	0.10150912	Up
Nrsn2	27.291082	0.98305811	2.82777841	6.8679069	2.77987048	0.00468722	0.12835359	Up
Nsg1	1049.15302	0.44876657	3.25495563	2.75244791	1.46071526	0.0011341	0.07513311	Up
Nsg2	1058.70025	1.19680917	2.02560429	5.36754282	2.42426179	0.04280535	0.33056156	Up
Nsun4	27.8386151	0.61158291	2.41441926	2.78295498	1.47661757	0.01576032	0.21218412	Up
Nt5c1a	527.445787	0.52421237	2.49126648	2.47246949	1.30595272	0.01272886	0.19331132	Up
Ntng1	147.375049	0.58887668	2.30297725	2.56004573	1.35616958	0.02128012	0.24103124	Up
Ntrk1	1128.01068	1.38693028	2.18547429	8.17432985	3.03110046	0.02885409	0.27381751	Up
Nudt7	375.612812	0.46512943	-2.48251346	0.44916267	-1.15469006	0.01304591	0.19533205	Down
Nup62cl	14.4314787	1.14123716	-2.91554275	0.09962656	-3.32732571	0.0035507	0.11765336	Down
Nxph4	24.6113111	0.86003331	4.25840319	12.6614312	3.66236859	2.06E-05	0.00815122	Up
Obscn	428.600723	0.58407463	-2.02898282	0.43980095	-1.18507738	0.04246004	0.32965165	Down
Ogdhl	121.772827	0.40089744	3.52613629	2.66404605	1.41361902	0.00042167	0.04807037	Up
Olfm1	908.318832	0.40067383	3.31993551	2.51439497	1.33021129	0.00090038	0.0690267	Up
Olr1	244.823137	0.5830494	-2.35554326	0.38598105	-1.37339808	0.01849564	0.22813138	Down
Olr1595	3.01859232	1.14671579	-2.16366658	0.17910647	-2.48111063	0.03048995	0.28128299	Down
Olr1666	2.15708847	1.38981521	2.00712195	6.91403834	2.7895286	0.04473668	0.33535353	Up
Olr837	4.94792978	0.67500959	1.99625068	2.54468725	1.34748836	0.04590664	0.3388898	Up
Oospl	8.89522003	0.69390011	-2.86501844	0.25208172	-1.9880366	0.00416985	0.12303509	Down
Oprl1	113.500854	1.2889944	2.55063902	9.76594339	3.28775941	0.01075256	0.17794937	Up
Oscar	43.3543328	0.79365309	-2.62953825	0.23537922	-2.08694115	0.00855009	0.16220237	Down
Otof	10.4360184	0.78635961	3.07140194	5.33403188	2.41522645	0.00213056	0.09896636	Up
Otop1	1499.16192	1.11482524	-1.97326875	0.2176603	-2.19984982	0.04846495	0.34629658	Down
Otud7a	93.8783976	0.57803921	2.71993569	2.97363894	1.57222949	0.00652946	0.1454711	Up
Oxtr	767.705819	0.58140038	4.33734802	5.74272624	2.52173579	1.44E-05	0.00714842	Up
P2rx2	119.345375	0.58445205	3.55442776	4.2204376	2.0773926	0.0003788	0.04667955	Up

P2rx6	23.0730991	0.73912543	3.05431467	4.78169343	2.25752164	0.00225575	0.10150912	Up
Pacrg	181.679817	1.35385534	-2.18633795	0.12851554	-2.95998531	0.02879089	0.27373298	Down
Pacsin1	65.0284651	0.86328376	2.11861582	3.55282501	1.82896663	0.03412295	0.30041322	Up
Pak6	20.7005409	0.84428215	2.2372647	3.70348281	1.88888264	0.02526904	0.25762099	Up
Pak7	8.16662713	0.96814866	2.56243676	5.58214544	2.48081971	0.01039405	0.17464966	Up
Pank1	4919.45636	0.57992825	-2.71538793	0.33570591	-1.57473016	0.00661982	0.1458793	Down
Panx2	60.0549667	0.68876593	2.60201518	3.4633769	1.7921794	0.00926777	0.16636509	Up
Paqr5	64.9219839	0.65968443	2.53264253	3.18378923	1.67074483	0.01132063	0.18304414	Up
Pax8	6.50760084	0.75490997	-2.03447543	0.34487709	-1.53584578	0.04190368	0.32798086	Down
Pcbp3	584.525245	0.51466332	2.74538771	2.66281159	1.41295035	0.00604394	0.14065779	Up
Pcdh10	465.081278	0.8340128	3.13156378	6.1125073	2.61176428	0.00173878	0.09024092	Up
Pcdh17	1232.88953	0.54689648	2.27684213	2.37050912	1.24519695	0.02279565	0.24857175	Up
Pclo	393.399465	0.86247299	3.13536614	6.51682206	2.7041686	0.0017164	0.08968176	Up
Pcnx2	82.0911019	0.98714556	2.91436664	7.34572101	2.8769041	0.00356411	0.11765336	Up
Pcp4	88.2572549	0.7751856	4.33375983	10.2636232	3.3594682	1.47E-05	0.00714842	Up
Perm1	645.885132	0.67344718	-3.20059553	0.22446586	-2.15543203	0.00137144	0.082174	Down
Pex51	84.9810421	0.61816267	3.17826575	3.90327534	1.96468523	0.00148159	0.08472565	Up
Pf4	2650.99349	1.02242931	-2.44625747	0.17663886	-2.50112533	0.01443479	0.20345185	Down
Pgbd5	103.685998	1.12414466	2.60767226	7.62850763	2.93140085	0.00911602	0.1654102	Up
Phactr3	56.3905625	1.14652993	2.25797751	6.01614274	2.5888388	0.02394706	0.25326182	Up
Phf24	368.402565	0.71738767	2.48174961	3.43515825	1.78037656	0.01307391	0.19534092	Up
Phospho1	1763.19059	0.69996952	-2.38423444	0.31449491	-1.66889142	0.0171147	0.22134498	Down
Phox2a	99.7826651	1.34787996	2.44047474	9.77750923	3.28946699	0.01466797	0.20437374	Up
Phox2b	232.14701	1.4934469	2.02019702	8.09514539	3.01705699	0.04336295	0.33322536	Up
Pigz	3.6742138	1.29259977	2.54074316	9.74163567	3.28416403	0.01106171	0.18115622	Up
Pih1d2	935.212288	0.49914761	-2.00676276	0.49942127	-1.00167083	0.04477493	0.33535353	Down
Pirt	1006.69234	1.28307308	2.21149054	7.14782341	2.83750399	0.02700189	0.26423919	Up
Pkd2l1	22.6849883	0.69574801	-2.24486438	0.33871413	-1.56185992	0.02477684	0.25584526	Down
Pkdrej	220.935504	0.72305394	-2.35849357	0.30665363	-1.70531808	0.01834928	0.22733939	Down
Pla2g2f	4.22414069	0.63326135	-1.98835229	0.41779101	-1.25914666	0.04677274	0.34031564	Down
Pla2g3	45.5409572	1.00785413	3.67348874	13.0171417	3.70234079	0.00023926	0.03818609	Up
Plch2	75.6459985	0.74525529	2.48505115	3.60999668	1.85199751	0.01295328	0.1952997	Up

Plcx2	127.292075	0.97722328	2.66573595	6.08399613	2.60501923	0.007682	0.15537465	Up
Plek	443.54726	0.75312851	-2.61416797	0.25546465	-1.96880443	0.00894451	0.16512064	Down
Plekhd1	1713.39602	0.4250681	3.34907445	2.68251219	1.42358473	0.00081082	0.06507285	Up
Plekhd1	22.6690272	0.74283078	2.26687416	3.21296199	1.68390391	0.02339791	0.25123778	Up
Pllp	781.841554	0.70211851	-2.13770232	0.35332791	-1.50092037	0.03254091	0.29170331	Down
Plpp4	33.9601303	0.63679647	1.97156578	2.38747584	1.25548614	0.0486592	0.34691312	Up
Plppr4	77.052194	0.67384406	2.06185086	2.61963526	1.38936595	0.03922194	0.31677516	Up
Plppr5	209.165368	0.88437821	2.47428103	4.55736598	2.18820023	0.01335046	0.19679323	Up
Plxnb3	803.783428	0.71348448	3.12837206	4.69799416	2.23204492	0.00175778	0.09049707	Up
Pmp2	7.42820306	1.49343546	2.84455134	19.0029808	4.24815383	0.0044474	0.12654552	Up
Pnlipr1	6.91524845	0.76955238	-3.71198356	0.1380664	-2.85656578	0.00020564	0.03632799	Down
Pnma2	115.441654	0.93441797	2.994256	6.95420997	2.79788663	0.00275115	0.10619684	Up
Pnma3	18.962067	1.51305956	2.15119551	9.54593776	3.25488693	0.03146077	0.28588266	Up
Pnma11	26.5730481	1.05520572	3.11701701	9.77498295	3.28909419	0.00182691	0.09323615	Up
Pnma12	188.63208	0.89731319	2.76729347	5.59108758	2.48312894	0.00565238	0.1364502	Up
Pnpla5	6.68375586	1.27840096	-2.19296148	0.14324095	-2.80348406	0.02831015	0.27085181	Down
Polr21	61.264963	0.65576294	3.28585836	4.45289669	2.15474414	0.00101672	0.07344452	Up
Popdc3	58.8218712	0.99807471	-2.2303749	0.21373857	-2.22608079	0.02572256	0.2586687	Down
Pou2f2	45.4727115	0.51568012	-2.19732467	0.45592972	-1.13311665	0.02799727	0.26917854	Down
Ppara	11913.8359	0.72623961	-2.24471225	0.32304366	-1.63019895	0.02478661	0.25584526	Down
Ppargc1b	2444.74868	0.48249396	-2.33426812	0.4580985	-1.12627026	0.01958169	0.23336282	Down
Ppbb	99.5899069	1.13077837	-3.09477557	0.08841866	-3.49950529	0.00196962	0.09602565	Down
Ppfia2	113.860554	0.6593121	2.16412459	2.68855973	1.42683352	0.03045479	0.28128299	Up
Ppfia3	157.581294	0.62469494	3.50258007	4.55687261	2.18804404	0.00046078	0.05024454	Up
Ppif	825.683211	0.46931976	-3.21106666	0.35183794	-1.50701705	0.00132243	0.08005733	Down
Ppp1r1b	50.6939855	0.97205307	2.6846491	6.10343486	2.60962138	0.0072606	0.15052566	Up
Ppp1r1c	15.0022119	0.70678131	2.34726412	3.15798081	1.65900241	0.01891184	0.2302349	Up
Ppp1r35	9.32041628	0.74474864	1.98220353	2.78223327	1.47624338	0.04745647	0.34271728	Up
Ppp1r3g	117.312848	0.75615788	-1.97424538	0.35531212	-1.49284121	0.04835385	0.34578418	Down
Ppp2r2b	373.406591	0.78607121	2.76728257	4.51673775	2.17528115	0.00565257	0.1364502	Up
Prkar1b	632.097476	0.87375686	2.78975966	5.41729122	2.43757165	0.00527472	0.13324165	Up
Prkg2	127.843333	0.7982881	2.77897027	4.65383125	2.2184189	0.00545315	0.13521968	Up

Prom2	199.273944	0.80559519	-3.08405203	0.1786865	-2.48449747	0.00204202	0.09738633	Down
Prph	2474.82394	1.06666866	2.69938477	7.35818078	2.87934912	0.00694678	0.14818674	Up
Prr15	633.769906	0.48394378	-2.18832731	0.47995552	-1.05902738	0.02864577	0.27293221	Down
Prr18	153.803351	0.67316002	2.79593559	3.68614307	1.88211207	0.00517497	0.13166927	Up
Ptchd1	113.186086	0.55825214	2.06344787	2.22210068	1.15192419	0.0390701	0.31638127	Up
Ptchd4	2.5795621	1.30692547	2.34599401	8.37471044	3.06603931	0.01897641	0.2302349	Up
Ptgs2	12372.3078	0.5708901	-2.46511417	0.37701419	-1.40730927	0.01369696	0.19905946	Down
Ptk7	279.383502	0.22790499	4.8417589	2.14869542	1.10346099	1.29E-06	0.0013204	Up
Ptn	439.869793	0.49435257	2.71156952	2.53234041	1.34047135	0.00669655	0.14589419	Up
Ptpn	800.961235	0.76828367	2.97242765	4.86914219	2.28366763	0.00295455	0.11078927	Up
Ptpn2	716.41661	0.83035914	2.90265209	5.31564109	2.4102437	0.00370017	0.1183247	Up
Ptprt	811.606982	0.68111365	2.02561417	2.60209467	1.37967345	0.04280434	0.33056156	Up
Ptprz1	548.75864	0.70995287	2.22674177	2.99152622	1.58088171	0.02596454	0.25958623	Up
Ptx4	6.6488474	0.51527274	-2.228251	0.45120126	-1.148157	0.02586378	0.25887375	Down
Pvalb	8.83263957	2.50187649	1.9957828	31.8495717	4.99320207	0.04595757	0.3388898	Up
RGD1305733	250.058904	1.48248194	2.01884061	7.96069696	2.99289474	0.04350379	0.33322536	Up
RGD1307443	233.545585	1.30588278	1.96187798	5.90518667	2.56198266	0.04977669	0.35029097	Up
RGD1309108	2.05410106	1.80772136	2.11298353	14.1201691	3.81968546	0.03460218	0.30124966	Up
RGD1310166	2.84411496	1.11316793	2.56703248	7.24777536	2.85753824	0.0102573	0.1737349	Up
RGD1312005	113.552666	1.03796985	2.2632917	5.09551702	2.34922854	0.02361771	0.25203534	Up
RGD1559441	22.244228	1.30460706	2.37798345	8.58807024	3.10233399	0.01740761	0.22259186	Up
RGD1560556	74.7159636	0.36532133	-2.82360696	0.48919317	-1.03152385	0.00474866	0.12835359	Down
RGD1561143	9.62981684	0.64327829	-2.01356175	0.40745692	-1.29528056	0.04405557	0.33496951	Down
RGD1561777	114.391289	0.44546502	-2.4891151	0.46367515	-1.1088137	0.01280615	0.1941492	Down
RGD1561931	155.155256	0.45165749	2.26617335	2.03289284	1.02353417	0.02344077	0.25139046	Up
RGD1562625	35.67319	0.84870792	-2.04928594	0.29952634	-1.73924522	0.04043416	0.32164121	Down
RGD1562660	39.7858688	0.62464018	2.60911242	3.09460752	1.62975645	0.00907774	0.16516558	Up
RGD1562667	11.3955	0.48465981	-2.1850018	0.47997043	-1.05898257	0.02888871	0.27385004	Down
RGD1563349	140.360309	0.61529896	2.20782617	2.56413664	1.35847314	0.02725639	0.26569308	Up
RGD1563861	48.5302757	0.33397499	3.28182057	2.13768015	1.096046	0.00103139	0.07373647	Up
RGD1564053	15.4105009	0.97345752	3.53221526	10.8412672	3.4384615	0.00041209	0.04805342	Up
RGD1564129	35.9977335	1.22282155	-2.42494697	0.12804498	-2.96527741	0.01531062	0.20966716	Down

RGD1564409	1.97373303	1.76784933	2.11789437	13.3996011	3.74411815	0.03418401	0.30041322	Up
RGD1564463	11.336261	0.94188226	3.30756247	8.66580882	3.11533441	0.00094112	0.07027322	Up
RGD1565356	184.148665	0.52675185	-2.44895017	0.40895414	-1.28998903	0.01432733	0.2027956	Down
RGD1566029	424.931051	0.59627133	2.06654236	2.3492821	1.23221996	0.0387773	0.31497635	Up
RGD1566251	62.4480968	1.15928005	2.43607239	7.08167245	2.82409012	0.01484771	0.20589767	Up
Rab11fip4	483.443387	0.56235898	2.63051872	2.78812613	1.47929583	0.00852547	0.16215938	Up
Rab15	389.386721	0.91756226	2.05887526	3.70415952	1.88914623	0.03950619	0.31807643	Up
Rab25	9.12374024	0.43907439	-2.57214652	0.4571173	-1.12936368	0.01010701	0.1727663	Down
Rab33a	30.8181479	0.56641601	2.17962115	2.35311578	1.23457231	0.02928556	0.27572109	Up
Rab37	128.771167	1.09699403	-2.01122128	0.21668967	-2.20629772	0.04430209	0.33535353	Down
Rab39a	35.3462919	0.76607023	2.33498085	3.45517627	1.78875931	0.01954442	0.23336282	Up
Rab3b	284.933441	1.33520883	2.15196516	7.32750927	2.87332289	0.0314001	0.28547909	Up
Rab3c	134.689665	1.43074847	2.46273878	11.4999824	3.52355974	0.01378803	0.19988662	Up
Rab6b	2111.16992	0.65442765	3.10831931	4.09587053	2.03417011	0.00188155	0.09410949	Up
Rab9b	122.546097	0.79881424	2.99936801	5.26319148	2.39593788	0.0027054	0.10578186	Up
Raly1	28.0442679	1.31125682	3.25579474	19.2820036	4.26918307	0.00113075	0.07513311	Up
Rasal1	75.8527703	0.45736829	2.23736694	2.03256387	1.02330069	0.02526237	0.25762099	Up
Rasef	71.0835761	0.44442763	3.03482972	2.54693505	1.34876217	0.00240672	0.10258232	Up
Rasgef1c	233.464188	0.69191794	2.61207218	3.49996286	1.80733961	0.00899953	0.16516558	Up
Rassf4	1744.23829	0.4217798	2.59220158	2.13367177	1.09333826	0.00953639	0.16857431	Up
Rbfox1	263.574297	0.68275882	2.51429684	3.28674233	1.71665836	0.011927	0.18762581	Up
Rbm11	62.2148611	1.19414194	2.41153549	7.36005057	2.87971568	0.01588551	0.21321555	Up
Reep1	1060.28216	0.7261347	3.01443574	4.55953402	2.18888639	0.00257458	0.10390639	Up
Reln	4216.25917	0.36649533	3.38693679	2.36410892	1.24129651	0.00070678	0.06196886	Up
Rem2	7.54007946	0.62262049	2.03533106	2.40700447	1.26723882	0.04181757	0.32779699	Up
Rgs17	370.138505	0.91510586	2.59340415	5.18103138	2.37323932	0.0095031	0.16857431	Up
Rgs18	998.872762	0.82679997	-2.79680985	0.20132492	-2.3124023	0.00516099	0.13150412	Down
Rgs20	36.2633595	0.70252737	2.77028315	3.85358104	1.94619973	0.00560076	0.1359239	Up
Rgs9	121.808864	1.44177403	2.28026833	9.76507852	3.28763165	0.02259178	0.24735221	Up
Rhag	89.3808478	1.19610312	-2.06099024	0.18109808	-2.46515685	0.03930397	0.31695936	Down
Rhpn1	98.8223975	0.64638119	2.38892741	2.91633762	1.54415775	0.01689764	0.21990732	Up
Rimbp2	478.107482	0.5954912	1.99516026	2.27852528	1.18810037	0.0460254	0.3388898	Up

Rims3	75.7305485	1.30726799	2.05191213	6.41922462	2.68239904	0.0401782	0.32080195	Up
Ripply1	3.26098896	0.92867258	-2.02583024	0.2714328	-1.88133301	0.04278218	0.33056156	Down
Rnase6	19.8545714	0.52566403	-2.62366873	0.38444036	-1.37916828	0.00869883	0.16285744	Down
Rnfl12	62.759001	0.8128712	2.19864306	3.45147638	1.78721361	0.02790331	0.26886419	Up
Rnfl52	1095.88241	0.54402956	-2.00748031	0.46906878	-1.09212863	0.04469854	0.33535353	Down
Rnfl57	483.21096	0.58176253	2.8025437	3.09602028	1.63041492	0.00507013	0.13104878	Up
Rnfl65	10.8952133	1.1795717	3.00914362	11.7086322	3.54950065	0.00261985	0.10453211	Up
Rnf208	44.1125607	0.88435857	2.48436145	4.58545961	2.19706634	0.0129784	0.1952997	Up
Rnft2	220.072992	0.53673946	2.70459702	2.73523339	1.45166394	0.00683873	0.14731379	Up
Rorb	23.2903216	0.90723953	4.01448916	12.4848213	3.64210327	5.96E-05	0.01714579	Up
Rph3a	66.3693301	1.15319542	2.37496026	6.67511779	2.7387933	0.01755084	0.22360127	Up
Rpl8	10.1950796	0.54185513	1.99640424	2.11661941	1.08176188	0.04588994	0.3388898	Up
Rprm	40.5825239	0.64064334	2.83168939	3.5164092	1.81410296	0.00463028	0.12835359	Up
Rprml	76.1318053	0.81201526	-2.48680744	0.24667346	-2.0193256	0.01288951	0.19490811	Down
Rps6ka6	16.0164985	1.06200258	3.93631305	18.1308497	4.18037463	8.27E-05	0.02045967	Up
Rpusd2	46.9685602	0.64092828	3.18817232	4.12212944	2.04338981	0.00143175	0.08397226	Up
Rtbdn	7.1336103	0.91566947	2.13941049	3.88790477	1.95899288	0.03240244	0.29157212	Up
Rtkn	31.13947	0.50331636	2.10796597	2.08633923	1.06097376	0.03503393	0.3030883	Up
Rtl1	71.4258754	0.63244444	2.45893361	2.93862017	1.5551389	0.01393504	0.20060136	Up
Rtn1	1632.08197	0.595158	2.63255772	2.96244381	1.56678779	0.00847446	0.16206717	Up
Rtn4rl2	9.57038898	1.12503684	2.37400104	6.36799246	2.67083863	0.0175965	0.22369006	Up
Rundc3a	287.498916	0.87936863	2.29124607	4.04138531	2.01484991	0.02194919	0.24434997	Up
Rundc3b	83.7343565	0.84787066	2.7530078	5.0426935	2.33419454	0.00590505	0.13878051	Up
Runx3	17.3094508	0.58846549	-1.97076526	0.44759712	-1.15972735	0.04875073	0.34706725	Down
Ryr1	71.7828216	0.82826841	2.3988603	3.96384408	1.98690021	0.01644619	0.21708968	Up
S100a5	8.63372065	0.54325642	2.38068761	2.45092071	1.29332381	0.01728036	0.2220893	Up
S1pr5	23.1078295	0.4917909	-2.8915778	0.37318124	-1.42205164	0.00383313	0.11947506	Down
Sbk2	58.3505054	0.96588369	-2.26159999	0.21999726	-2.18444255	0.02372213	0.25244878	Down
Scg2	502.20313	1.36734392	2.17303624	7.84236005	2.97128788	0.02977759	0.27823225	Up
Scg3	220.750594	0.91558276	3.03330978	6.85542517	2.77724614	0.00241887	0.10258232	Up
Scg5	133.703489	1.11760443	2.44137135	6.62760415	2.72848744	0.0146316	0.20429358	Up
Scgn	34.7715253	1.25317974	3.1933868	16.0209485	4.00188766	0.00140614	0.08311877	Up

Scn1a	130.667256	1.10016555	2.42077305	6.33458942	2.66325111	0.01548754	0.21093817	Up
Scn3a	559.58005	0.40280092	2.85515159	2.21922769	1.15005769	0.00430163	0.12535612	Up
Scn3b	607.749647	0.60089705	3.24183174	3.85841182	1.94800714	0.00118764	0.0755064	Up
Scn5a	82.9264285	0.39322283	2.91495157	2.21334064	1.1462255	0.00355744	0.11765336	Up
Scn7a	21215.8742	0.62932573	2.8946535	3.53492579	1.82167993	0.00379577	0.11921035	Up
Scn8a	61.3351841	0.85800788	3.09762331	6.31063517	2.65778522	0.00195079	0.09602565	Up
Scn9a	1089.66068	1.26548142	2.39735362	8.1896765	3.03380646	0.01651398	0.21733088	Up
Scnn1g	8.84107573	1.07781049	2.90883852	8.78581837	3.13517667	0.00362774	0.11765336	Up
Scrg1	1.64038427	1.59009277	2.5412711	16.4595935	4.0408568	0.01104502	0.18105177	Up
Scrt2	9.39036584	1.07859921	2.4453084	6.22255777	2.63750772	0.01447283	0.20345185	Up
Sebox	3.18088254	0.90958975	2.0079113	3.54644984	1.82637554	0.04465272	0.33535353	Up
Sema4f	287.377523	0.54418691	2.60081046	2.66720185	1.41532701	0.00930038	0.16673014	Up
Serinc2	17.1018139	0.39019364	-2.7280686	0.47814662	-1.06447502	0.00637064	0.14347289	Down
Serpina11	24.3239125	0.62143814	2.35537215	2.75818283	1.46371809	0.01850416	0.22813138	Up
Serpina12	2.70812095	1.94999724	2.44147838	27.1123094	4.7608761	0.01462726	0.20429358	Up
Serpinb10	27.9055268	1.1336394	-3.24726376	0.07795438	-3.68122613	0.0011652	0.0755064	Down
Serpinb2	5.68380128	1.36648931	-2.0579071	0.14238726	-2.81210805	0.03959905	0.31831722	Down
Serpine1	34683.7701	0.53801229	-2.6968063	0.36578937	-1.45091494	0.0070008	0.14848947	Down
Serpini1	337.81996	0.58204742	2.26427687	2.4930581	1.3179165	0.02355709	0.25181326	Up
Sez6l	273.080863	0.81195429	2.10810183	3.2754255	1.71168233	0.03502218	0.3030883	Up
Sfrp5	1348.64941	0.58672838	3.4348634	4.04273556	2.01533184	0.00059285	0.05707898	Up
Sftpd	12.9584356	1.55992237	-2.48288458	0.06824621	-3.8731072	0.01303233	0.19533205	Down
Sgk2	26.2578505	1.11438498	-2.95735011	0.1018398	-3.29562655	0.00310296	0.11220917	Down
Sgpp2	134.467883	0.71405175	2.83338275	4.06479304	2.0231819	0.00460582	0.12834885	Up
Sgsm1	358.602158	0.6392009	2.68222569	3.28178576	1.71448106	0.00731341	0.15096738	Up
Sh2d1b	29.8408635	0.40448377	-2.54215087	0.49030155	-1.02825877	0.01101726	0.18093455	Down
Sh2d1b2	425.647176	0.8563466	-2.50977646	0.22543157	-2.14923853	0.01208076	0.18902838	Down
Sh2d5	3.47506835	1.05811789	2.26394421	5.26166671	2.39551987	0.02357755	0.25181326	Up
Sh3gl3	62.8956836	0.45464326	2.43024472	2.15083132	1.10489438	0.01508863	0.20776158	Up
Sh3tc2	518.864572	0.41039413	2.82962542	2.23652932	1.16126167	0.00466025	0.12835359	Up
Shank2	100.507316	0.70619277	1.99142481	2.65061992	1.40632981	0.0464342	0.33980779	Up
Shc2	329.58869	0.47381846	2.69524382	2.42343985	1.27705628	0.00703371	0.14848947	Up

Shisa2	8.17152319	0.86722329	3.09192066	6.41471699	2.68138562	0.00198866	0.09616605	Up
Shisa7	56.0374993	0.4768983	2.47673583	2.2675763	1.1811511	0.013259	0.19579674	Up
Shisa9	47.142256	0.59741846	3.27063328	3.87430276	1.9539367	0.00107307	0.07513311	Up
Shox2	90.6092386	0.8540629	2.11699781	3.50168494	1.80804929	0.03426003	0.30041322	Up
Siglech	2.58556818	1.08933627	-1.99504002	0.22170767	-2.17326944	0.04603852	0.3388898	Down
Sla	250.71151	0.50810483	-1.98627866	0.49680866	-1.00923778	0.04700239	0.34082347	Down
Slc10a4	253.297694	1.48696672	2.07011523	8.44555624	3.07819244	0.03844156	0.31463868	Up
Slc12a3	68.482618	0.46270156	3.25730157	2.84249638	1.50715851	0.00112477	0.07513311	Up
Slc13a3	42.7904904	0.70153223	2.26085326	3.00228604	1.58606144	0.02376835	0.25244878	Up
Slc17a2	5.18131069	1.01477797	-2.02718822	0.24029092	-2.05714593	0.04264317	0.33056156	Down
Slc18a1	32.6350574	1.40193748	2.76588936	14.6985707	3.87760396	0.00567678	0.13652265	Up
Slc18a2	2144.22225	0.68256003	2.03192802	2.61518472	1.38691286	0.04216094	0.32843794	Up
Slc22a5	1072.53402	0.47958748	-2.32632684	0.46147448	-1.11567724	0.02000112	0.23378141	Down
Slc24a2	148.552929	0.8560955	2.46211081	4.3103409	2.10780197	0.0138122	0.1999251	Up
Slc25a20	5633.67965	0.67700715	-2.32526885	0.3358238	-1.57422363	0.02005759	0.23397411	Down
Slc25a27	164.610851	0.31905709	4.25544079	2.56281364	1.35772857	2.09E-05	0.00815122	Up
Slc26a3	26.0498422	0.84170571	-2.63305347	0.21519909	-2.21625613	0.0084621	0.16206717	Down
Slc26a4	2.9171702	1.08062152	2.62553554	7.146368	2.83721021	0.00865128	0.16278867	Up
Slc26a7	43.9229806	0.720573	2.1361936	2.90650107	1.53928344	0.03266364	0.29255455	Up
Slc26a9	4.31176703	0.76193765	-2.3070505	0.29569287	-1.75782865	0.021052	0.24027457	Down
Slc27a2	777.88229	1.14692002	-2.26210227	0.16557418	-2.59445038	0.02369109	0.25237906	Down
Slc29a4	234.175858	0.84675274	2.65909545	4.76209485	2.25159636	0.00783508	0.15604809	Up
Slc30a10	11.8704875	1.19816066	2.4777379	7.82845751	2.96872807	0.01322182	0.19570985	Up
Slc30a3	264.339402	0.8812714	-2.4774532	0.22017024	-2.18330864	0.01323238	0.19570985	Down
Slc35d3	53.8278475	1.43961623	3.51865264	33.4865409	5.06550945	0.00043374	0.04822098	Up
Slc35f1	1048.52137	0.54700233	3.00022673	3.11910264	1.64113103	0.00269779	0.10571953	Up
Slc35f3	42.9576324	0.83666879	2.18256034	3.5457237	1.82608012	0.0290682	0.27466439	Up
Slc35g2	59.6967268	0.54381743	2.9967586	3.09446403	1.62968955	0.00272867	0.10619684	Up
Slc39a2	3.53366602	0.75792372	1.96133531	2.80216628	1.48654257	0.04983992	0.35032234	Up
Slc40a1	457.708554	0.54590878	-2.58652515	0.3757886	-1.41200678	0.00969491	0.1691887	Down
Slc44a5	60.3008558	1.13502928	2.54537844	7.40797409	2.88907905	0.01091594	0.17977503	Up
Slc45a1	102.160421	0.85579283	2.4858444	4.36919595	2.12736781	0.01292445	0.19510024	Up

Slc4a4	9984.7185	0.60523839	-2.16781979	0.40274881	-1.31204776	0.0301724	0.28011986	Down
Slc4a8	337.775473	0.94299846	2.63855449	5.61059131	2.48815283	0.00832603	0.16080508	Up
Slc5a7	33.629015	1.24861412	3.81698677	27.2077091	4.76594358	0.00013509	0.02927981	Up
Slc6a13	44.9103518	0.57439931	2.05620242	2.26746651	1.18108124	0.03976301	0.31934098	Up
Slc6a15	134.86563	0.99568546	3.23287185	9.31091846	3.21892349	0.00122553	0.07684043	Up
Slc6a2	3212.87945	1.34048992	2.39258293	9.23577682	3.20723331	0.01673025	0.218623	Up
Slc6a4	821.497759	0.44878721	-2.45423433	0.46605464	-1.10142898	0.01411849	0.20151568	Down
Slc6a5	1.73640442	1.33387067	2.2320239	7.87473404	2.9772312	0.02561338	0.25860371	Up
Slc7a14	327.97435	1.46549007	2.13415157	8.73966469	3.12757793	0.03283038	0.29272223	Up
Slc7a4	61.2047165	0.80732551	2.92846655	5.14876266	2.36422577	0.00340638	0.11749016	Up
Slco1a2	167.871279	0.38108294	2.85773474	2.12731541	1.08903395	0.00426677	0.12463794	Up
Slitrk1	193.483706	0.79655395	2.84328053	4.80596567	2.26482634	0.00446517	0.12655312	Up
Slitrk2	559.254662	0.7488029	2.68162699	4.02227039	2.00801007	0.00732651	0.15096738	Up
Slitrk5	24.2094265	0.98316325	3.10876037	8.31905087	3.05641894	0.00187874	0.09410949	Up
Smc1b	51.0631271	0.53983082	-2.32982339	0.41820712	-1.25771046	0.01981549	0.23375308	Down
Smim17	86.9533733	0.84203535	2.75750266	4.99995365	2.32191472	0.00582447	0.13824882	Up
Snap25	1253.45988	1.26467166	2.2545428	7.21628536	2.85125639	0.02416204	0.25399649	Up
Snap91	374.586377	1.39755583	2.2346952	8.71264822	3.12311129	0.02543737	0.25812931	Up
Snca	244.691627	0.74042875	3.01737787	4.70486497	2.23415332	0.00254972	0.10361769	Up
Sncg	3012.99844	0.37245517	4.07974401	2.86695991	1.51952173	4.51E-05	0.01389776	Up
Snhg11	198.937067	1.39065969	2.0989041	7.56248991	2.91886131	0.03582536	0.30524461	Up
Snph	162.441086	0.90388742	2.83812419	5.91896425	2.56534474	0.00453795	0.12746927	Up
Sntg1	3.76357706	1.6987196	2.14819331	12.5461959	3.64917809	0.0316984	0.28757339	Up
Soga3	636.03171	0.56039606	2.9191842	3.10781222	1.63589933	0.00350949	0.11765336	Up
Sorcs1	768.305309	0.81869359	2.66799161	4.54496012	2.18426763	0.00763062	0.15487064	Up
Sostdc1	843.980821	0.77068995	2.55972928	3.92517675	1.97275762	0.01047537	0.17495561	Up
Sox10	877.665659	0.64888813	2.68496028	3.34553943	1.74223885	0.00725384	0.15052566	Up
Sox2	94.71377	0.82889112	3.05201702	5.77487537	2.52978981	0.00227309	0.10180205	Up
Sox3	2.66649164	1.62786605	2.91066761	26.6890677	4.738177	0.00360657	0.11765336	Up
Spatc1	11.5815477	0.55775728	3.33196078	3.6261168	1.85842539	0.00086236	0.06758779	Up
Sphkap	390.072605	0.69683586	-2.14788042	0.35435809	-1.4967201	0.03172326	0.28757339	Down
Spink13	1.33319143	1.20109794	2.14284026	5.95359478	2.57376103	0.03212593	0.29047053	Up

Spire2	39.0233348	0.82162761	3.85442098	8.98114068	3.16689869	0.000116	0.02610979	Up
Spn	306.535167	0.35738981	-3.24184413	0.44794638	-1.15860206	0.00118759	0.0755064	Down
Spock2	2582.81087	0.33568749	3.5962139	2.30889729	1.207204	0.00032288	0.04354755	Up
Spock3	69.2613983	1.27719764	2.43134342	8.60578078	3.10530609	0.01504295	0.20762107	Up
Sptbn2	553.304235	0.70828182	2.69477743	3.7546069	1.90866187	0.00704357	0.14848947	Up
Srm3	38.5306596	0.70532844	3.96611717	6.95193804	2.79741522	7.31E-05	0.01973104	Up
St6galnac5	77.7847496	1.18746919	2.36504004	7.00513174	2.80841218	0.01802812	0.22575015	Up
St8sia1	65.77091	1.01787216	2.59671681	6.24683643	2.64312576	0.00941195	0.16775245	Up
St8sia6	112.517932	0.47342746	3.5624143	3.2188487	1.68654477	0.00036746	0.04667955	Up
Stc2	28.2972548	0.58210593	-2.05659351	0.43613441	-1.19715528	0.03972534	0.3191845	Down
Stk32a	193.437303	1.05042669	3.04435394	9.17603323	3.19787062	0.00233181	0.10208776	Up
Stk32c	171.439851	0.52169118	2.49159122	2.46201776	1.29984117	0.01271723	0.1933019	Up
Stk4	3022.81073	0.50997815	-2.07366073	0.4804567	-1.05752167	0.03811083	0.31397173	Down
Stmn1	629.003851	0.40655839	2.89499071	2.2610341	1.17698275	0.0037917	0.11921035	Up
Stmn2	2141.25437	1.19136232	2.53385652	8.1046011	3.01874118	0.01128149	0.18303254	Up
Stmn3	575.067154	0.8074189	2.3624167	3.75148007	1.90745989	0.01815622	0.22676639	Up
Stmn4	58.7901673	0.7008309	2.38841778	3.19070888	1.67387698	0.01692109	0.22004943	Up
Stx1a	220.995069	0.47539953	2.80356783	2.51893662	1.33281483	0.00505406	0.1309732	Up
Stxbp5l	96.7282461	0.78257786	2.88755288	4.78903493	2.25973496	0.00388251	0.11958141	Up
Sucla2	9427.61793	0.65555368	-2.15554119	0.37551099	-1.41307297	0.03111951	0.28425291	Down
Sucnr1	172.359424	0.48040397	2.2479188	2.1139029	1.07990911	0.02458137	0.25464478	Up
Sult1b1	13.8535515	0.91525864	2.3921687	4.56132536	2.18945308	0.01674914	0.218623	Up
Sult4a1	646.458921	1.51722757	1.97991833	8.02213743	3.00398668	0.04771271	0.34386054	Up
Sv2b	243.867954	0.8355464	3.28971579	6.72115966	2.74871018	0.00100289	0.07315294	Up
Sv2c	3851.30949	0.53141862	3.26227701	3.32564634	1.73363476	0.00110521	0.07513311	Up
Svop	78.2324947	1.2215421	2.32801893	7.17895145	2.84377314	0.0199111	0.23375308	Up
Syn1	328.866005	0.80313613	2.80398956	4.76337896	2.25198533	0.00504745	0.1309732	Up
Syn2	1512.83432	0.71434183	3.32083327	5.17733665	2.37221013	0.00089749	0.0690267	Up
Syndig1l	14.5953146	1.08054735	2.55057941	6.75530931	2.75602183	0.0107544	0.17794937	Up
Syng3	361.695877	0.85889428	3.18050797	6.64247137	2.73172011	0.00147017	0.08453633	Up
Synpr	206.70084	1.12754467	1.99296114	4.74744967	2.2471527	0.0462657	0.33970751	Up
Syp	1191.58448	1.1848885	2.51928249	7.91763107	2.98506884	0.01175943	0.18598964	Up

Sypl2	3.83665749	0.9344678	2.85397574	6.35084445	2.66694844	0.00431758	0.12535612	Up
Syt1	2257.48766	1.13823409	2.95511074	10.2931153	3.36360779	0.00312557	0.11220917	Up
Syt16	61.2000672	0.61077871	2.4303568	2.79802757	1.48441018	0.01508397	0.20776158	Up
Syt17	234.953904	0.80191183	2.69564223	4.47431677	2.1616674	0.00702531	0.14848947	Up
Syt2	123.391049	0.86208795	2.19992639	3.72316623	1.89653003	0.02781212	0.26849213	Up
Syt4	1226.23375	1.41815398	2.29425122	9.53743627	3.25360151	0.02177607	0.24261385	Up
T2	13.5121726	0.89833372	2.50674377	4.7630723	2.25189245	0.0121849	0.18964372	Up
Tacr1	252.847375	0.44828221	2.81423728	2.3975693	1.26157252	0.00488931	0.1293445	Up
Tal1	1126.11883	0.46878442	-2.29823995	0.47388895	-1.07737907	0.02154814	0.24132517	Down
Tal2	18.7907628	0.41170075	2.71772948	2.17180001	1.11889126	0.00657316	0.1458793	Up
Tas1r1	82.3876862	0.74144697	-2.04806249	0.34904145	-1.51852972	0.04055388	0.32241266	Down
Tbx20	288.770048	1.03643164	2.78307001	7.38430325	2.8844618	0.00538472	0.13458694	Up
Tbx21	29.8900552	0.59333867	-3.46204569	0.24078783	-2.0541656	0.00053609	0.05472814	Down
Tceal3	18.3739053	0.79043153	2.54299002	4.02798829	2.01005949	0.01099084	0.1806696	Up
Tcfl5	7.93991028	1.28399287	2.2832979	7.63029167	2.93173821	0.02241283	0.24667005	Up
Tcte1	102.12512	1.02883382	2.31210943	5.20095437	2.37877638	0.02077165	0.23803339	Up
Tdh	16.3366905	0.60874948	2.91340666	3.41890606	1.77353478	0.00357509	0.11765336	Up
Tdo2	20.0297784	0.67838273	2.01337745	2.57726429	1.36584049	0.04407494	0.33496951	Up
Tdrd1	86.9343945	0.99601583	-2.59156388	0.16709742	-2.58123865	0.00955408	0.16857431	Down
Tdrd12	50.8927677	0.534832	2.35033982	2.39004362	1.25703695	0.01875628	0.22895717	Up
Tdrd15	2.3698284	0.88895919	1.9898606	3.40795167	1.76890488	0.04660629	0.34029854	Up
Tdrkh	223.155153	0.39033769	2.75690088	2.10836161	1.07612233	0.0058352	0.13824882	Up
Tekt1	4.14721155	0.74801175	1.99069693	2.80706934	1.4890647	0.04651422	0.33996819	Up
Tekt4	3.18696743	0.97571333	2.97189473	7.46280141	2.8997173	0.00295968	0.11078927	Up
Tenm1	290.750207	0.5976077	2.88761581	3.30731723	1.72566143	0.00388174	0.11958141	Up
Tenm2	437.658247	0.85104043	3.24939372	6.799202	2.76536543	0.00115651	0.0755064	Up
Tex13b	80.6378573	0.52857273	-1.99893273	0.48076997	-1.05658132	0.04561563	0.33818752	Down
Tfap2c	4.24469458	1.31939379	-3.50716575	0.04046076	-4.62733272	0.00045291	0.04989294	Down
Tfcp2l1	278.276894	0.49071185	3.63085157	3.43831544	1.78170191	0.00028249	0.03982596	Up
Th	1248.53093	1.43519609	2.21564585	9.06235667	3.17988627	0.02671577	0.2626103	Up
Thap8	1.33794963	1.61835292	2.31597768	13.4363489	3.74806926	0.02055949	0.23696155	Up
Thbs4	844.296354	0.45014359	2.946563	2.50772028	1.32637643	0.00321327	0.11305042	Up

Thy1	2322.7155	0.85017764	3.01107901	5.89688089	2.55995205	0.00260321	0.1043424	Up
Tll2	20.6675273	0.71068461	2.07208932	2.77521969	1.47260198	0.03825711	0.31443816	Up
Tlx2	4.53956876	1.98533357	2.77332588	45.4427098	5.50597696	0.00554865	0.13571584	Up
Tma7	61.7274476	1.00928058	-2.81641659	0.13941382	-2.84255456	0.00485627	0.12898123	Down
Tmco3	47.5292515	0.65935045	3.04617148	4.02362131	2.00849453	0.00231776	0.1020795	Up
Tmem130	570.473845	1.21143572	2.40081534	7.50802502	2.90843346	0.01635859	0.21667611	Up
Tmem150c	399.28166	0.48063415	2.7313618	2.48420764	1.31278577	0.00630732	0.14333382	Up
Tmem169	23.2256994	0.81294086	3.4405875	6.94990933	2.79699416	0.00058045	0.05707898	Up
Tmem178b	596.08058	1.24237594	2.49543694	8.57579739	3.10027082	0.01258021	0.19290113	Up
Tmem200c	183.86036	0.60628313	2.83753552	3.29516319	1.72034991	0.00454633	0.12750056	Up
Tmem202	13.203644	0.72475195	2.66071723	3.80622278	1.92836	0.00779744	0.1558676	Up
Tmem229a	158.897599	1.10013161	2.10336319	4.9725171	2.31397633	0.03543403	0.30404687	Up
Tmem255a	178.09022	0.76162089	2.27132256	3.31701767	1.7298867	0.02312746	0.25032408	Up
Tmem35	277.189435	0.62582699	3.65314892	4.87782908	2.28623921	0.00025904	0.03854046	Up
Tmem59l	106.900364	0.98103801	2.82506777	6.82816953	2.77149888	0.00472706	0.12835359	Up
Tmem71	119.051794	0.66515725	-2.71598842	0.28587188	-1.8065594	0.00660782	0.1458793	Down
Tmem74	80.2936236	0.66618871	3.97367049	6.2645654	2.64721443	7.08E-05	0.01941404	Up
Tmem79	796.917508	1.0687308	-2.31019462	0.18061929	-2.46897614	0.02087738	0.2387774	Down
Tmem88b	49.2133779	0.49519569	2.55912007	2.40704855	1.26726524	0.01049375	0.17495561	Up
Tmie	18.3969821	0.9422778	2.22876718	4.28744404	2.10011784	0.0258294	0.25871634	Up
Tmod2	2141.67755	0.41023217	3.48133692	2.69102615	1.42815641	0.00049892	0.05248159	Up
Tmprss5	428.938855	0.81305223	2.27706072	3.60842505	1.85136929	0.0227826	0.24857175	Up
Tnfrsf9	103.427242	0.39507838	-3.67982809	0.36505342	-1.45382051	0.00023339	0.03759098	Down
Tnn	17.8745507	0.56135588	-1.99624319	0.45990161	-1.12060285	0.04590746	0.3388898	Down
Tnni2	7.27652306	1.43308911	2.32464164	10.0660002	3.33141862	0.02009113	0.23414087	Up
Tnr	272.498886	0.81676735	3.12212285	5.85653768	2.55004801	0.00179552	0.09217002	Up
Topaz1	21.0530634	0.50443256	-2.40008099	0.43206522	-1.210679	0.01639144	0.21669293	Down
Tppp3	1386.5382	0.46417758	2.69847312	2.38265609	1.25257073	0.00696584	0.148233	Up
Tram111	74.1175406	0.86424346	2.88641822	5.63559553	2.49456807	0.00389654	0.1195938	Up
Trem11	367.058814	1.21232831	-2.47669393	0.12477786	-3.00256617	0.01326056	0.19579674	Down
Trem12	178.091826	0.73525935	-2.6971589	0.25294379	-1.98311129	0.00699339	0.14848947	Down
Trhr	4.68249264	0.76308174	2.43032173	3.61634954	1.85453413	0.01508543	0.20776158	Up

Trim10	22.7080678	0.59850306	2.52618158	2.85190795	1.51192742	0.01153099	0.18491595	Up
Trim16	1523.43914	0.42330762	-2.44383942	0.48818645	-1.03449584	0.01453189	0.20360887	Down
Trim43a	11.8730021	0.41586573	-2.78427207	0.44816959	-1.15788335	0.0053648	0.13454922	Down
Trim67	402.87896	1.18458039	-2.16370565	0.16921352	-2.56308328	0.03048695	0.28128299	Down
Trnp1	475.445933	0.61899179	2.73921711	3.23900993	1.69555289	0.00615857	0.14151811	Up
Tro	122.530351	0.68942127	2.16925837	2.81968278	1.49553287	0.03006307	0.27933618	Up
Trpm3	617.509113	0.4138674	2.96730409	2.34253469	1.22807042	0.00300424	0.11179679	Up
Tsen34	77.6958549	0.62248768	-2.79021869	0.30001848	-1.73687675	0.00526725	0.13324165	Down
Ttbk1	57.6360523	1.23465548	2.94796934	12.46427	3.63972649	0.00319869	0.11305042	Up
Ttn	1603.10025	1.13998671	3.20506485	12.5858551	3.65373133	0.00135032	0.08131578	Up
Ttyh1	940.961134	0.65520507	2.67355072	3.36760744	1.75172398	0.00750529	0.15356983	Up
Tub	839.141733	0.72992265	3.58656373	6.13861885	2.6179141	0.00033506	0.04392686	Up
Tuba1a	8111.21515	0.32516345	3.40483695	2.15416464	1.10712852	0.00066204	0.05960358	Up
Tuba8	274.273599	1.18801322	-2.40360144	0.13816745	-2.85551028	0.01623446	0.21624599	Down
Tubb1	1952.4153	1.21219483	-2.57271577	0.11513252	-3.11863276	0.0100904	0.17266943	Down
Tubb2b	681.658705	0.80621911	3.0244369	5.42024791	2.43835884	0.00249096	0.10289734	Up
Tubb3	3362.80397	1.30123695	2.33554587	8.21977324	3.03909859	0.01951492	0.23322259	Up
Tubb4a	631.41991	0.78839543	3.04287527	5.27433404	2.39898894	0.00234329	0.10233551	Up
Uchl1	2205.32294	0.88301039	2.82238634	5.62633887	2.49219645	0.00476677	0.12836919	Up
Ucp1	21751.6486	1.35668132	-2.13458522	0.13434812	-2.89595191	0.03279491	0.29255455	Down
Ugt8	265.68249	0.77594868	2.25264754	3.3587837	1.74793889	0.02428138	0.25434602	Up
Unc79	186.745004	0.60253311	2.49215136	2.83157297	1.50160371	0.01269719	0.1933019	Up
Upk1b	34.5074704	0.75957144	-2.47087361	0.27228605	-1.87680502	0.01347834	0.19784767	Down
Upk3b	28.8544509	1.48516781	-3.4935367	0.02742265	-5.18848825	0.00047667	0.05133972	Down
Ush1c	42.6620265	1.60170744	-3.10421094	0.03186159	-4.97203775	0.00190787	0.09438816	Down
Usp18	604.555719	0.44519103	-2.41486785	0.47464556	-1.0750775	0.01574092	0.21208564	Down
Vamp1	1376.23789	0.58130762	2.92071605	3.24413646	1.69783451	0.00349228	0.11765336	Up
Vat11	2044.31107	0.72134493	2.97333319	4.42230593	2.14479883	0.00294584	0.11074358	Up
Vgf	111.959408	1.2451703	2.26619042	7.07040574	2.82179301	0.02343973	0.25139046	Up
Vten1	229.789452	0.45937576	-2.69018287	0.42460557	-1.23580479	0.00714129	0.1494308	Down
Vwa5b1	20.8007438	1.21403713	2.17665643	6.24430815	2.64254173	0.02950621	0.27745637	Up
Vwa7	225.632369	0.61558507	2.20572169	2.5629571	1.35780933	0.02740349	0.26644556	Up

Vwde	36.6477373	0.52490512	-2.24056119	0.44255172	-1.17608204	0.02505451	0.25706106	Down
Wasf3	67.7909247	0.97246227	3.46377699	10.3273088	3.36839245	0.00053265	0.05472814	Up
Wbp11	22.2241067	0.67214272	2.96099276	3.9729475	1.99020973	0.00306649	0.1121752	Up
Wfdc21	12.8309518	1.85050462	-2.32767712	0.05050685	-4.30737726	0.01992926	0.23375308	Down
Wnk2	413.145101	0.4448884	2.28013973	2.02007342	1.01440773	0.0225994	0.24735221	Up
Wnk3	96.0554766	0.40370198	2.84044121	2.21405603	1.14669173	0.00450512	0.1269532	Up
Wnt10a	6.81514253	1.15588617	2.06709049	5.23910839	2.38932131	0.03872563	0.31497635	Up
Wnt6	158.446942	0.72839178	2.9527345	4.44057819	2.15074754	0.00314973	0.11220917	Up
Xirp2	16.8609567	1.68686906	2.68804219	23.1730365	4.5343752	0.00718723	0.14975671	Up
Xkr7	102.346419	0.57022146	3.59625541	4.14296033	2.05066201	0.00032283	0.04354755	Up
Zar1	90.8372547	0.57963464	2.0864115	2.31234453	1.20935637	0.03694136	0.31019318	Up
Zc3h12d	52.5070488	0.49919282	-2.28239741	0.45396205	-1.1393564	0.02246589	0.24667005	Down
Zcchc18	273.151623	0.91876974	3.06349872	7.03548519	2.81464992	0.00218765	0.10001669	Up
Zdbf2	50.7442132	0.93565947	3.13650856	7.64599331	2.93470394	0.00170972	0.08959977	Up
Zdhhc22	11.7464543	1.68338768	3.49807922	59.2450809	5.88862347	0.00046862	0.05078473	Up
Zfp385c	195.493336	0.73842692	-2.01369045	0.35676272	-1.48696324	0.04404204	0.33496951	Down
Zfp428	70.0755899	0.41049923	2.46750903	2.01797814	1.01291055	0.01360568	0.19838979	Up
Zfp421	3.69576635	1.54618399	2.69508767	17.9648055	4.16710141	0.00703701	0.14848947	Up
Zfp536	314.81189	0.57212641	2.77405465	3.0044688	1.58710994	0.00553624	0.13571584	Up
Zfp622	15.5555067	0.82081977	2.01110074	3.13997103	1.65075125	0.04431482	0.33535353	Up
Zfp92	17.5047063	0.72106906	2.35941782	3.25194575	1.70130319	0.01830363	0.22725502	Up
Zfyve28	218.127202	0.54246098	2.17319693	2.2640009	1.17887453	0.0297655	0.27823225	Up
Zic2	4.78355153	0.67061954	2.48018179	3.16731064	1.66325837	0.01313154	0.19537063	Up
Zkscan2	1.87544596	2.0670282	2.04702889	18.781839	4.23126643	0.04065525	0.32252306	Up
Zmat4	1.27389205	1.69353924	-1.96777492	0.09926961	-3.33250404	0.04909394	0.34834866	Down
Zwint	5691.5512	0.39220992	2.74511215	2.10914784	1.07666022	0.00604902	0.14065779	Up

Supplementary table 3: The comparison between high-dose EWH treated and the control female SHR for identified DE-lncRNA

lncRNA	case_value	control_value	FoldChange	log2FoldChange	z-score	pValue	qValue	Regulation
ENSRNOT00000036416	13.49383423	0.485749094	-2.279881949	0.464113449	-1.107450591	0.022614691	0.368504563	Down
ENSRNOT00000076115	11.31124164	0.890369883	2.567001042	4.875602186	2.285580417	0.01025823	0.282373835	Up
ENSRNOT00000077064	4.774303135	1.348930089	2.284941363	8.469202685	3.082226157	0.022316266	0.368017948	Up
ENSRNOT00000077174	82.800395	0.926232998	2.940491836	6.605100749	2.723580567	0.003276916	0.188041953	Up
ENSRNOT00000077381	7.106646576	0.793271848	-2.423215414	0.263839309	-1.922268571	0.015383801	0.33359834	Down
ENSRNOT00000077836	22.14080563	0.523941264	3.393148068	3.429053197	1.777810286	0.000690943	0.098993882	Up
ENSRNOT00000080296	1.562268426	1.158730975	2.042834022	5.15901291	2.367095057	0.041068871	0.470957138	Up
ENSRNOT00000080610	12.34928765	0.515988856	2.009561566	2.051830239	1.036911373	0.044477613	0.48619048	Up
ENSRNOT00000081706	3.562823192	1.330281444	2.094913516	6.901091575	2.786824577	0.036178681	0.439894428	Up
ENSRNOT00000081968	15.22832799	1.094741046	-2.240576761	0.182649366	-2.452851347	0.025053503	0.37910631	Down
ENSRNOT00000081969	5.258374158	0.843984594	3.250262748	6.695406665	2.743171684	0.001152984	0.116700014	Up
ENSRNOT00000082193	4.105606666	0.768806282	3.000727716	4.948455544	2.306978318	0.002693353	0.164833194	Up
ENSRNOT00000082259	9.910583243	1.155644274	-2.466567196	0.138650598	-2.850474256	0.013641513	0.322478343	Down
ENSRNOT00000082644	1.854877695	1.42239749	3.020973682	19.65773753	4.297025382	0.002519633	0.160256235	Up
ENSRNOT00000083048	3.254416026	1.847682097	-2.269689022	0.054648899	-4.193663771	0.023226458	0.368504563	Down
ENSRNOT00000083059	7.638821843	1.50542154	-2.26964444	0.09363738	-3.416771628	0.023229165	0.368504563	Down
ENSRNOT00000083795	104.0169458	0.569668318	2.43643124	2.617079383	1.387957686	0.014832989	0.333469814	Up
ENSRNOT00000084699	23.91876143	0.373479907	3.247238936	2.317836008	1.212778496	0.001165305	0.116700014	Up
ENSRNOT00000084733	37.30509407	0.749877115	3.560447634	6.363842802	2.669898199	0.000370223	0.07552552	Up
ENSRNOT00000085058	14.40803567	0.660763329	2.568814195	3.243110589	1.69737822	0.010204716	0.282373835	Up
ENSRNOT00000085640	45.88836672	0.548612216	3.361378276	3.590272092	1.844093184	0.000775545	0.100775184	Up
ENSRNOT00000085889	3.692568709	0.947743057	-2.028604446	0.263779476	-1.922595778	0.042498595	0.479676769	Down
ENSRNOT00000086616	131.5129263	0.505265823	2.858562137	2.721371192	1.444333752	0.004255658	0.225210841	Up
ENSRNOT00000086642	5.763594292	1.121503183	2.566966859	7.355694203	2.878861504	0.010259242	0.282373835	Up
ENSRNOT00000086824	174.788883	0.751953418	-2.428207021	0.282065365	-1.82589857	0.015173679	0.33359834	Down
ENSRNOT00000087170	10.16283704	0.887558632	1.993995617	3.410038489	1.769788023	0.046152533	0.4878112	Up
ENSRNOT00000087238	2.851344972	2.180330846	2.255326189	30.21843952	4.917357257	0.024112862	0.374216708	Up
ENSRNOT00000088428	34.69046918	1.022075555	-2.356712173	0.188320518	-2.408737901	0.018437531	0.353413045	Down

ENSRNOT00000088632	12.15219272	0.546601549	-2.083467089	0.454128871	-1.138826337	0.037208669	0.445533362	Down
ENSRNOT00000088764	3.912363879	1.907852619	2.816215253	41.43918279	5.372923647	0.00485931	0.229063584	Up
ENSRNOT00000088970	4.23895945	1.064694834	2.443989827	6.071711921	2.602103342	0.014525836	0.33198467	Up
ENSRNOT00000089661	8.588418314	1.300892172	2.006293073	6.104913921	2.609970953	0.044824989	0.486763772	Up
ENSRNOT00000089756	2.142877932	2.332775283	-1.985677069	0.040326209	-4.632138387	0.047069193	0.492241161	Down
ENSRNOT00000089772	3.038789637	1.080357863	3.206746152	11.03820303	3.464433422	0.001342454	0.119411276	Up
ENSRNOT00000089868	15.28150746	1.300663447	3.258373893	18.87033095	4.23804782	0.001120527	0.116700014	Up
ENSRNOT00000090606	15.21087254	0.731177691	-2.842756255	0.23675061	-2.078559955	0.004472526	0.226006179	Down
ENSRNOT00000090633	27.76444948	0.653473266	2.687613254	3.378267129	1.756283411	0.007196469	0.252138319	Up
ENSRNOT00000091021	2.301316377	1.163616442	2.568752016	7.939466573	2.989042081	0.010206547	0.282373835	Up
ENSRNOT00000091594	18.82474487	0.627354646	-2.118904957	0.397959944	-1.329304868	0.0340985	0.433751819	Down
ENSRNOT00000092074	3.734554845	0.895955249	2.49899268	4.720650283	2.238985609	0.012454688	0.309010917	Up
ENSRNOT00000092132	3.272656324	0.873558638	2.440933286	4.384153637	2.132298357	0.014649361	0.332661323	Up
ENSRNOT00000092405	5.940256075	0.714401984	2.014833531	2.712082514	1.439401072	0.043922094	0.485788948	Up
ENSRNOT00000092488	21.84984559	1.286249332	3.048762889	15.15234554	3.921469231	0.002297858	0.158809192	Up
ENSRNOT00000092666	5.725935652	1.534717185	2.686865333	17.43093918	4.123578399	0.007212603	0.252138319	Up
ENSRNOT00000093328	22.61268537	0.884399015	-3.401087194	0.124315823	-3.007918164	0.000671184	0.098993882	Down
ENSRNOT00000093582	157.1918044	0.47867721	-3.529188601	0.310068279	-1.689342154	0.000416836	0.079252114	Down
ENSRNOT00000093623	22.12946534	1.154902652	-2.836238402	0.10326482	-3.275579253	0.004564836	0.228573774	Down
NR_002154.1	8.459188884	0.432871585	2.423540597	2.069212568	1.049081859	0.015370035	0.33359834	Up
NR_110711.1	3.78502995	2.105401201	-2.347378325	0.032528021	-4.942173145	0.018906047	0.355407874	Down
NR_110712.1	4.775105272	1.208409434	2.816393176	10.58064802	3.403356084	0.004856619	0.229063584	Up
NR_111959.1	31.60979888	1.117857686	2.830686742	8.965008369	3.16430493	0.004644819	0.229063584	Up
NR_126572.1	3.986574315	1.940306714	2.257162191	20.81550933	4.379586955	0.023997942	0.374216708	Up
NR_131064.1	267.6054469	0.581871504	3.426995155	3.983594574	1.994070826	0.0006103	0.098993882	Up
TCONS_00000126	945.8032867	0.544144499	-2.597686284	0.37539551	-1.413516702	0.00938542	0.280950498	Down
TCONS_00000159	1749.880595	0.764493462	-2.310471322	0.293953483	-1.766340221	0.020862074	0.359088457	Down
TCONS_00000452	241.2148466	0.376416646	4.020575447	2.85484323	1.513411524	5.81E-05	0.024597945	Up
TCONS_00000950	136.8732657	0.549944131	4.157402861	4.878167529	2.286339305	3.22E-05	0.016117713	Up
TCONS_00001909	32.90757826	0.330753024	4.565625599	2.848286904	1.510094474	4.98E-06	0.004571703	Up
TCONS_00002327	9348.873221	0.801167097	-1.983194576	0.332431675	-1.588870241	0.0473457	0.492241161	Down
TCONS_00002689	222.3486455	0.498371129	2.493871987	2.366695003	1.242873798	0.012635811	0.310705557	Up

TCONS_00003377	27.78610663	0.462815305	2.706007679	2.382344037	1.25238177	0.006809747	0.249082101	Up
TCONS_00004482	53.0266906	0.847238545	-2.113295877	0.289078712	-1.790465724	0.034575451	0.43779675	Down
TCONS_00005300	18.20666573	1.469137527	5.167151735	192.8394649	7.591256521	2.38E-07	0.000436396	Up
TCONS_00005319	83.35271761	0.588317314	2.771572004	3.096339785	1.630563798	0.005578633	0.239822186	Up
TCONS_00006191	18.85540565	0.533084448	4.320648782	4.93575461	2.30327067	1.56E-05	0.010711072	Up
TCONS_00006192	7.100971304	1.099424517	2.312068517	5.823735415	2.541944812	0.020773908	0.359088457	Up
TCONS_00006937	8.842638011	1.138428603	-2.610329455	0.127478538	-2.971673715	0.009045506	0.276120403	Down
TCONS_00007366	105.6760693	0.364985576	-2.742588708	0.499651704	-1.001005319	0.006095698	0.239822186	Down
TCONS_00008081	82.41266646	0.607029133	3.103815516	3.6912423	1.884106442	0.001910424	0.144145427	Up
TCONS_00008085	221.2899705	0.650857841	2.699317161	3.379645064	1.75687174	0.006948192	0.249082101	Up
TCONS_00010256	87.18409581	0.277802738	-3.71196113	0.489305374	-1.031192967	0.00020566	0.059619629	Down
TCONS_00011130	103.7189159	0.888894788	-2.192111046	0.259075396	-1.948556083	0.028371489	0.409084197	Down
TCONS_00011201	98.20380696	2.922629386	-3.201779452	0.001524324	-9.357614714	0.001365815	0.119411276	Down
TCONS_00011370	203.5437941	0.546992864	3.958046168	4.484735839	2.16502301	7.56E-05	0.027361676	Up
TCONS_00012245	1043.652601	0.446093263	-2.270479112	0.495567872	-1.012845435	0.023178529	0.368504563	Down
TCONS_00012248	342.7099257	0.423631765	-2.374385624	0.497971412	-1.005865174	0.017578181	0.348730667	Down
TCONS_00012430	53.52864834	0.785195688	-2.049769026	0.327718768	-1.609469801	0.040386976	0.466355264	Down
TCONS_00012758	6.176236655	0.532592315	2.241932292	2.287918894	1.19403591	0.024965749	0.378819128	Up
TCONS_00012987	243.1280245	0.346810174	3.390100941	2.259058292	1.175721498	0.000698669	0.098993882	Up
TCONS_00013066	302.2276718	0.418044296	-2.419794836	0.49600225	-1.011581429	0.015529266	0.334498044	Down
TCONS_00013841	112.0436489	0.707169377	-2.313964464	0.321665963	-1.636364808	0.020669671	0.359088457	Down
TCONS_00014105	100.3264212	1.707466086	-2.095808365	0.0837062	-3.578521706	0.036099194	0.439894428	Down
TCONS_00015113	523.3946426	0.446530475	-3.040573227	0.390201544	-1.357708609	0.002361283	0.158809192	Down
TCONS_00015429	51.38628178	0.394519065	2.582130265	2.026091904	1.018699617	0.009819251	0.282373835	Up
TCONS_00015431	47.1532872	0.590262941	2.940444257	3.330261059	1.735635275	0.00327742	0.188041953	Up
TCONS_00015433	128.9656457	0.494317816	3.400299055	3.206119955	1.680828404	0.000673122	0.098993882	Up
TCONS_00015434	142.5969674	0.562823083	3.205942097	3.492785907	1.804378214	0.001346211	0.119411276	Up
TCONS_00016417	100.997033	0.44580542	-2.747239765	0.427876284	-1.224734377	0.006009918	0.239822186	Down
TCONS_00016418	3.380630922	1.410074583	2.235486572	8.890119403	3.152202796	0.025385422	0.382029797	Up
TCONS_00016420	9.75699435	1.365967633	2.78802883	14.00972899	3.808357143	0.005302982	0.23747014	Up
TCONS_00016572	30.89811388	0.563907075	-1.967654448	0.463430768	-1.109574265	0.04910781	0.498132265	Down
TCONS_00016625	26.29707626	0.934240297	-3.377972409	0.112201359	-3.155837948	0.000730224	0.098993882	Down

TCONS_00016626	26.29707626	0.934240297	-3.377972409	0.112201359	-3.155837948	0.000730224	0.098993882	Down
TCONS_00016627	26.29707626	0.934240297	-3.377972409	0.112201359	-3.155837948	0.000730224	0.098993882	Down
TCONS_00017543	16.55057204	1.158974492	-2.35759002	0.150476834	-2.732386695	0.018393995	0.353413045	Down
TCONS_00017566	883.6711267	0.394756778	-2.819281753	0.462353886	-1.11293058	0.004813125	0.229063584	Down
TCONS_00018620	146.2287391	0.305366187	4.200222376	2.43278005	1.282605891	2.67E-05	0.014687245	Up
TCONS_00019834	5311.970048	0.426742057	-2.629071031	0.459477085	-1.121935181	0.008561848	0.272593388	Down
TCONS_00019835	5405.727574	0.431213797	-2.380044631	0.490964942	-1.026308084	0.017310541	0.345458194	Down
TCONS_00020441	706.5272407	0.351856759	3.948646895	2.619620998	1.389358101	7.86E-05	0.027361676	Up
TCONS_00020891	10.85271092	0.860949398	2.815791078	5.367512457	2.424253634	0.00486573	0.229063584	Up
TCONS_00022271	366.8932786	0.656804367	-2.402304893	0.334982041	-1.577844343	0.016292123	0.338108291	Down
TCONS_00023674	50.24634759	0.331038731	-3.172175935	0.482930305	-1.050113096	0.001513013	0.127987302	Down
TCONS_00023889	16.85503579	1.585724361	2.665512595	18.72337046	4.226768258	0.007687105	0.257061902	Up
TCONS_00024216	37.06939084	0.799354744	-2.945496479	0.195535629	-2.354496585	0.003224368	0.188041953	Down
TCONS_00024570	203.6849505	0.323025824	-3.561635143	0.450469044	-1.150500128	0.000368552	0.07552552	Down
TCONS_00024571	92.61257477	0.481958843	-2.505947874	0.432939177	-1.207763738	0.012212362	0.307149275	Down
TCONS_00024579	3815.867281	0.309007075	-3.564359094	0.466060071	-1.101412176	0.000364746	0.07552552	Down
TCONS_00024580	332.7269503	0.264539678	-4.838809173	0.411779233	-1.280057022	1.31E-06	0.001798629	Down
TCONS_00024614	56.31245248	0.43775836	-2.677892368	0.443722689	-1.172269771	0.007408702	0.252138319	Down
TCONS_00024712	2.76797833	0.794134557	-2.506812668	0.251608651	-1.990746568	0.012182526	0.307149275	Down
TCONS_00024948	51.72778559	1.004188407	-1.981187597	0.251828659	-1.989485616	0.04757024	0.493440452	Down
TCONS_00025793	26.58608091	0.937059458	-2.432261868	0.206015675	-2.279173986	0.015004855	0.33359834	Down
TCONS_00026209	2407.383817	2.273674812	-4.415121318	0.000950813	-10.03855013	1.01E-05	0.007943587	Down
TCONS_00026210	7.625158579	1.110292293	-2.569374916	0.138431372	-2.852757168	0.010188217	0.282373835	Down
TCONS_00026211	36.26532594	1.1958958	-2.653059988	0.110891194	-3.172783296	0.007976569	0.263083497	Down
TCONS_00026884	61.93870814	0.698489855	-3.333965713	0.199057726	-2.328741227	0.000856172	0.104795466	Down
TCONS_00027359	6.390357653	0.987563634	2.183232209	4.457024016	2.156080735	0.029018714	0.412322556	Up
TCONS_00027363	17.77987137	0.550050215	-2.68455476	0.359324715	-1.476639924	0.007262648	0.252138319	Down
TCONS_00028341	12.12910784	1.136539087	-2.766900932	0.113071633	-3.144691059	0.005659195	0.239822186	Down
TCONS_00028342	911.8705609	1.528636648	-3.040193527	0.039903214	-4.647351242	0.002364262	0.158809192	Down
TCONS_00028343	1011.614771	0.826766913	-2.522620611	0.235594987	-2.085619255	0.0116484	0.298415746	Down
TCONS_00028344	1056.330144	1.233248795	-3.210118086	0.064307274	-3.958874261	0.001326805	0.119411276	Down
TCONS_00028346	35.23059053	3.004028179	-2.610730903	0.004356215	-7.8427092	0.009034896	0.276120403	Down

TCONS_00028347	297.9888071	1.488773578	-3.648547294	0.023165782	-5.431860808	0.000263727	0.067015068	Down
TCONS_00028348	9.387255454	3.006359757	-7.271734577	2.62E-07	-21.8614502	3.55E-13	1.95E-09	Down
TCONS_00028663	2.359254383	0.846926708	-2.386337533	0.246378285	-2.02105299	0.017017125	0.343334512	Down
TCONS_00028840	22.50678259	2.466319969	-2.334878101	0.018471483	-5.758556484	0.01954979	0.35694427	Down
TCONS_00028861	333.7295133	0.610253769	2.77840813	3.238967592	1.695534033	0.005462596	0.239822186	Up
TCONS_00028862	190.6245329	0.603384496	3.019576882	3.535626495	1.821965876	0.00253128	0.160256235	Up
TCONS_00029515	8.413038587	0.459300717	-2.752043411	0.416383409	-1.264015511	0.005922467	0.239822186	Down
TCONS_00029593	195.8545461	0.577982411	2.015069779	2.241826906	1.16467489	0.043897338	0.485788948	Up
TCONS_00031050	232.7394638	1.250509738	-3.279637364	0.058265332	-4.101218461	0.001039406	0.114500961	Down
TCONS_00032747	9.942224918	1.395260085	-2.182872041	0.121104617	-3.04567423	0.029045234	0.412322556	Down
TCONS_00033559	870.628192	0.371815099	4.034619251	2.828686624	1.500132357	5.47E-05	0.024597945	Up
TCONS_00033586	124.9818486	0.365582796	-3.207737288	0.443592363	-1.172693566	0.001337836	0.119411276	Down
TCONS_00033882	36.38759836	0.51264753	-3.259393933	0.314052956	-1.670920247	0.001116505	0.116700014	Down
TCONS_00035829	20.30842026	1.137934866	2.372577396	6.497291992	2.699838542	0.017664462	0.348730667	Up
TCONS_00036407	142.01451	0.744930535	-2.749628637	0.241771763	-2.048282333	0.005966284	0.239822186	Down
XR_001835611.1	22.39656689	0.512411839	3.162415907	3.074729195	1.620459352	0.001564659	0.128628997	Up
XR_001835620.1	57.69600118	0.862285364	3.122097579	6.462709073	2.692139048	0.001795674	0.139303845	Up
XR_001835727.1	1.53280386	1.446475886	2.398263388	11.07342922	3.46903016	0.016473015	0.338557345	Up
XR_001835750.1	2.16740453	1.16635598	2.203492633	5.938328115	2.57005681	0.027560046	0.40372535	Up
XR_001835791.1	2.085896525	1.673141886	2.351864788	15.29516205	3.935003487	0.018679564	0.355020219	Up
XR_001835889.1	3.69502165	1.83519933	-2.394476247	0.047552295	-4.394341205	0.016644121	0.339211229	Down
XR_001835895.1	26.51827743	0.790884945	6.406764633	33.52147432	5.067013697	1.49E-10	4.09E-07	Up
XR_001835898.1	6.203016426	0.959122994	2.134217935	4.132393093	2.046977497	0.032824945	0.429523977	Up
XR_001835902.1	5.817729162	0.61387382	-2.032250136	0.421164238	-1.247545154	0.04212834	0.476474117	Down
XR_001835948.1	6.226972915	0.643294439	2.703728456	3.338716235	1.739293481	0.00685663	0.249082101	Up
XR_001835987.1	3.362039749	1.697326792	2.736323416	25.01003282	4.644435046	0.006212993	0.241169082	Up
XR_001836039.1	4.178045925	1.568920333	-3.564422239	0.020727723	-5.592294525	0.000364659	0.07552552	Down
XR_001836116.1	22.38912329	0.498379111	2.557358035	2.419206337	1.274533824	0.01054706	0.283173669	Up
XR_001836139.1	3.079188532	1.155933844	2.309142087	6.36083202	2.669215488	0.020935698	0.359171341	Up
XR_001836311.1	11.80781934	0.691699144	2.874103599	3.966908164	1.988014999	0.00405176	0.220961346	Up
XR_001836327.1	1.542621452	1.324458399	2.612674195	11.00722032	3.460378282	0.00898369	0.276120403	Up
XR_001836331.1	8.437099615	0.629655482	2.105209233	2.50629552	1.325556534	0.035273099	0.438561098	Up

XR_001836575.1	54.42517341	0.393349841	2.736084619	2.108531318	1.07623845	0.006217504	0.241169082	Up
XR_001836576.1	6.283554194	1.624544455	-2.586903373	0.054313719	-4.20253953	0.009684275	0.282373835	Down
XR_001836579.1	4.685270399	0.991920217	-2.684041632	0.157961496	-2.662355157	0.007273805	0.252138319	Down
XR_001836697.1	2.268850756	1.684505988	2.405135873	16.58107663	4.05146578	0.016166454	0.338108291	Up
XR_001836836.1	5.819371461	0.925176739	2.357422454	4.534779547	2.181032418	0.018402298	0.353413045	Up
XR_001836845.1	7.989511419	1.155083253	3.042059686	11.42270316	3.513832197	0.002349653	0.158809192	Up
XR_001836858.1	1.754773195	1.131096805	-1.984303317	0.211035975	-2.244439143	0.047222037	0.492241161	Down
XR_001836927.1	4.83042016	0.720926588	2.160804158	2.944007135	1.557781168	0.030710471	0.419373013	Up
XR_001836989.1	2.851018568	1.034149675	-2.001278106	0.238222056	-2.069621104	0.045362428	0.4878112	Down
XR_001836995.1	6.007709812	0.870041207	2.869423833	5.643213665	2.496516974	0.004112204	0.222058994	Up
XR_001837055.1	6.714771844	0.923900835	-2.565440415	0.193417127	-2.370212541	0.010304492	0.282373835	Down
XR_001837060.1	26.03737367	0.897904408	-2.332068583	0.234234476	-2.093974661	0.019697083	0.35694427	Down
XR_001837164.1	2.066049915	1.10538083	-2.267347597	0.176008552	-2.506282569	0.023369	0.368504563	Down
XR_001837208.1	8.976399171	1.030884947	-2.403786065	0.179489721	-2.478026871	0.016226266	0.338108291	Down
XR_001837258.1	15.90996779	0.522789317	2.051522727	2.103095212	1.072514166	0.040216069	0.466337067	Up
XR_001837261.1	2.94323269	0.73355518	2.159179408	2.997744112	1.58387724	0.030836251	0.419373013	Up
XR_001837265.1	12.09942178	0.902973113	2.14672958	3.832907261	1.938439092	0.031814816	0.425330119	Up
XR_001837389.1	2.298874509	1.333598083	3.055253347	16.84770304	4.074480008	0.002248705	0.158793155	Up
XR_001837494.1	1.214520776	1.20766343	-2.182899968	0.160850412	-2.636208463	0.029043177	0.412322556	Down
XR_001837574.1	13.13006219	0.994761137	3.126706363	8.63577693	3.110325978	0.001767764	0.139097766	Up
XR_001837575.1	164.9018091	0.691666528	3.085258167	4.389235882	2.133969804	0.002033755	0.149358995	Up
XR_001837581.1	10.5699494	0.775454702	-2.224653863	0.302473719	-1.725118299	0.026104484	0.391017319	Down
XR_001837617.1	11.22183847	0.898367418	-2.00564655	0.286815021	-1.801807512	0.044893972	0.486763772	Down
XR_001837728.1	5.174447253	1.074723544	-2.102915463	0.208764345	-2.26005276	0.03547316	0.438561098	Down
XR_001837746.1	2.913191024	1.247247326	2.292919022	7.25933361	2.859837118	0.021852667	0.363208992	Up
XR_001837768.1	1.643767069	1.534194932	-2.401491329	0.077785452	-3.684355826	0.016328396	0.338108291	Down
XR_001837769.1	1.643767069	1.534194932	-2.401491329	0.077785452	-3.684355826	0.016328396	0.338108291	Down
XR_001837912.1	5.220310833	1.231178056	3.088670504	13.95493353	3.802703348	0.002010543	0.149358995	Up
XR_001837919.1	11.39662337	0.85248786	-2.451984787	0.234833923	-2.090287265	0.014207067	0.327416419	Down
XR_001838016.1	23.06666028	0.703717008	2.850382284	4.016287351	2.005862493	0.004366671	0.226006179	Up
XR_001838047.1	4.724363498	1.915767775	-2.021457275	0.068268189	-3.872642705	0.043232451	0.484562615	Down
XR_001838100.1	8.114606783	1.316653559	-2.425499888	0.109306943	-3.193543058	0.01528732	0.33359834	Down

XR_001838140.1	14.72906711	0.706468763	2.297827483	3.08088181	1.623343338	0.02157161	0.361571443	Up
XR_001838236.1	35.32069586	0.853616047	2.563187379	4.556663637	2.187977878	0.010371606	0.282805961	Up
XR_001838289.1	29.6087735	0.548670187	3.241136353	3.430252766	1.778314889	0.001190542	0.117098332	Up
XR_001838290.1	13.44385818	0.897318285	2.050571151	3.58013748	1.840014989	0.040308728	0.466355264	Up
XR_001838455.1	60.82081675	0.550225865	-2.054248455	0.456820521	-1.130300633	0.039951651	0.464248296	Down
XR_001838482.1	1.192157008	1.533032831	2.383136628	12.58319773	3.653426692	0.017165822	0.345070612	Up
XR_001838561.1	3.423145192	1.837771572	-2.327341055	0.051577254	-4.277121228	0.01994712	0.35694427	Down
XR_001838727.1	1.414820172	1.199873165	2.296229247	6.751386695	2.755183854	0.021662777	0.361571443	Up
XR_001838936.1	4.036862551	0.971446618	-2.556728588	0.178782156	-2.483725341	0.010566162	0.283173669	Down
XR_001839007.1	11.90913589	1.208408281	-2.503854718	0.122794787	-3.025678775	0.012284847	0.307190915	Down
XR_001839049.1	5.095701453	0.716614139	-2.829703737	0.245227774	-2.027805707	0.004659113	0.229063584	Down
XR_001839409.1	5.267256688	1.008918829	2.855771863	7.367841383	2.881242003	0.004293235	0.225210841	Up
XR_001839598.1	2.716593727	1.197203321	2.394072176	7.291376298	2.866191159	0.01666247	0.339211229	Up
XR_001839825.1	6.726378136	0.73240231	2.111094612	2.920409284	1.546170571	0.03476418	0.438457135	Up
XR_001839830.1	11.46499333	0.581360785	2.017652708	2.254776072	1.172984163	0.043627443	0.484634362	Up
XR_001839910.1	11.10719372	0.493597402	2.457809643	2.3184626	1.213168454	0.013978725	0.324941417	Up
XR_001839958.1	208.9575721	0.544469258	3.322507362	3.504000835	1.809003119	0.000892123	0.104862381	Up
XR_001840189.1	6.322211253	0.561681275	2.29222312	2.441044854	1.287498804	0.021892771	0.363208992	Up
XR_001840200.1	5.026179649	1.198694357	2.357066602	7.088117087	2.825402436	0.018419943	0.353413045	Up
XR_001840305.1	6.733722037	1.179011778	2.589108589	8.296998482	3.052589522	0.009622475	0.282373835	Up
XR_001840306.1	1.552435784	1.689551094	2.069983827	11.29289475	3.49734344	0.038453859	0.452636929	Up
XR_001840348.1	13.14372745	0.336250229	3.022763501	2.022871841	1.016404921	0.002504779	0.160256235	Up
XR_001840608.1	25.52621604	0.616852953	2.728637144	3.21132322	1.68316788	0.006359664	0.242279811	Up
XR_001840622.1	1.424764962	1.107023301	-2.125769066	0.195701146	-2.353275889	0.033522493	0.430400679	Down
XR_001840623.1	2.572642307	0.926825208	2.547304234	5.136927729	2.360905777	0.010855874	0.283596049	Up
XR_001840746.1	2.672810939	1.364610264	3.156190303	19.79370369	4.306969682	0.001598445	0.129474072	Up
XR_001840753.1	3.542417324	0.792859068	-2.820299012	0.2122594	-2.236099646	0.004797892	0.229063584	Down
XR_001840965.1	5.261545761	0.871097161	2.127403273	3.612944145	1.853174951	0.03338659	0.430400679	Up
XR_001841107.1	4.721674614	1.004839383	2.036227564	4.129827863	2.046081649	0.04172751	0.474823035	Up
XR_001841151.1	5.108816451	0.692903867	-2.743784604	0.267724493	-1.901178963	0.006073538	0.239822186	Down
XR_001841203.1	40.94765825	0.622491941	2.128246563	2.505009951	1.324816334	0.033316646	0.430400679	Up
XR_001841211.1	6.982291168	0.695473377	2.00319327	2.626547341	1.393167588	0.045156548	0.4878112	Up

XR_001841336.1	5.888450908	0.709139212	2.407788078	3.2658464	1.707456939	0.016049494	0.338108291	Up
XR_001841394.1	17.16991328	0.818709951	3.50897316	7.325012621	2.872831245	0.00044984	0.079926463	Up
XR_001841497.1	7.009641044	1.683727753	-2.09565587	0.086658559	-3.528513948	0.036112729	0.439894428	Down
XR_001841607.1	14.81166952	0.850891424	-2.899679034	0.180827748	-2.467312022	0.00373545	0.207826827	Down
XR_001841624.1	6.684830446	1.18393108	2.489443505	7.713200093	2.947329537	0.012794325	0.311819215	Up
XR_001841625.1	2.469216697	1.741231482	2.089125636	12.44635441	3.637651328	0.036696415	0.443254068	Up
XR_001841893.1	6.427543516	0.946298224	-2.743854375	0.1653386	-2.596504523	0.006072247	0.239822186	Down
XR_001841894.1	5.035892584	0.898140146	-2.770479648	0.178218746	-2.488278997	0.00559738	0.239822186	Down
XR_001841959.1	27.79104191	1.031429271	-1.960289032	0.246233765	-2.021899486	0.049962017	0.503458779	Down
XR_001841964.1	1.072876244	1.355894462	2.589801254	11.40423034	3.511497178	0.009603136	0.282373835	Up
XR_001842112.1	0.978192454	1.655558991	2.041694283	10.4117836	3.380145327	0.041181866	0.470957138	Up
XR_001842121.1	4.324525173	0.754910445	2.297437811	3.327318105	1.7343598	0.021593807	0.361571443	Up
XR_001842218.1	4.097539498	1.003251913	2.617910807	6.174935318	2.626424025	0.008846993	0.275306415	Up
XR_001842258.1	3.22712223	2.119454082	-1.976005597	0.054861842	-4.188053129	0.048154143	0.49458484	Down
XR_001842362.1	1.845550962	0.975435638	-1.975430379	0.262992727	-1.926905192	0.048219328	0.49458484	Down
XR_001842375.1	1.721336796	1.317872815	2.327427365	8.381760238	3.067253253	0.019942531	0.35694427	Up
XR_001842378.1	26.05563089	0.783276403	3.64454562	7.233463426	2.854686584	0.000267865	0.067015068	Up
XR_001842385.1	18.96473655	0.845221496	3.019581076	5.865340378	2.552214833	0.002531245	0.160256235	Up
XR_001842388.1	6.120643157	1.055267887	1.998697104	4.314402781	2.109160869	0.045641137	0.4878112	Up
XR_001842390.1	2.974130881	1.40895082	3.168246004	22.06828793	4.463902804	0.001533617	0.127987302	Up
XR_001842392.1	9.669412374	1.432645272	2.629742633	13.61842871	3.76748835	0.008544953	0.272593388	Up
XR_001842395.1	3.390370597	1.608509377	3.212989546	35.95508248	5.168123814	0.001313611	0.119411276	Up
XR_001842399.1	5.228577896	1.325913199	2.455856657	9.554979356	3.256252756	0.014054921	0.325271022	Up
XR_001842543.1	26.99243832	0.536940367	2.251066548	2.311274317	1.208688499	0.024381323	0.375118228	Up
XR_001842581.1	5.579372546	0.96908952	-2.677570117	0.16553347	-2.59480514	0.007415833	0.252138319	Down
XR_001842705.1	6.412322317	1.005904451	-3.021620061	0.121627295	-3.039461069	0.002514259	0.160256235	Down
XR_001842727.1	35.35909575	0.716668639	2.303259258	3.139802203	1.650673677	0.02126426	0.360380144	Up
XR_001842813.1	19.90132307	0.451957327	2.580225642	2.244123208	1.166151885	0.009873578	0.282373835	Up
XR_350304.3	4.223362939	1.001290504	-2.277435549	0.205844301	-2.280374588	0.022760229	0.368504563	Down
XR_351052.3	4.743590172	1.179893646	2.621414858	8.532631447	3.092990735	0.008756563	0.275306415	Up
XR_351412.2	2.1372744	1.587749331	2.167792979	10.86722628	3.441911853	0.030174441	0.418919332	Up
XR_352307.3	20.88737302	0.537948159	-2.555920332	0.385565364	-1.374952636	0.010590736	0.283173669	Down

XR_352593.3	12.26125404	0.967595483	-3.00827015	0.132973567	-2.910788609	0.002627395	0.16445102	Down
XR_352834.3	10.08018676	0.905769494	-2.326523434	0.232081921	-2.107293954	0.019990644	0.35694427	Down
XR_352956.3	2.182544484	0.851716322	-2.188702995	0.27468422	-1.864154064	0.028618434	0.410495665	Down
XR_353043.2	4.149141365	0.939161559	3.351059333	8.859259443	3.147186107	0.000805031	0.100775184	Up
XR_353702.3	6.408636471	0.527064143	2.255229845	2.279394737	1.188650787	0.024118905	0.374216708	Up
XR_354783.3	5.645759389	0.814544592	-2.075553106	0.309791495	-1.690630559	0.037935302	0.452267631	Down
XR_354962.3	3.06548481	1.002252532	3.001054581	8.043450648	3.007814552	0.002690463	0.164833194	Up
XR_355452.3	43.27411572	0.453039982	2.572070018	2.24272162	1.165250556	0.010109244	0.282373835	Up
XR_355734.1	1.718671875	1.361369032	2.680173485	12.54208402	3.648705184	0.007358401	0.252138319	Up
XR_356227.1	11.89004898	0.828313012	-2.393475704	0.25304273	-1.982547071	0.016689587	0.339211229	Down
XR_356607.2	3.790058594	1.014069153	2.1022999	4.38287483	2.131877478	0.035527013	0.438561098	Up
XR_356878.3	7.799284971	0.57840928	2.092361766	2.313763589	1.210241463	0.036406166	0.440892949	Up
XR_357177.2	9.038930764	0.388147195	3.057271976	2.276269761	1.186671542	0.002233615	0.158793155	Up
XR_357742.3	5.770795232	1.265437078	-2.034113818	0.167932918	-2.574043045	0.041940121	0.475321373	Down
XR_357824.3	8.979765722	1.027450747	-1.978413158	0.244393517	-2.032722077	0.047882117	0.49458484	Down
XR_358458.3	42.23464404	0.954874114	-2.219628331	0.230132136	-2.119465636	0.026444008	0.39365836	Down
XR_358461.3	26.39592839	0.757913087	2.364845265	3.4637797	1.792347176	0.018037605	0.353413045	Up
XR_359388.3	15.86692492	0.676748549	-1.967864924	0.397286112	-1.331749732	0.049083582	0.498132265	Down
XR_360208.3	1.832183256	1.286778785	2.900476577	13.29002327	3.732271726	0.003725957	0.207826827	Up
XR_360239.3	11.88200105	0.538766203	2.252476008	2.319088612	1.213557946	0.024292207	0.374794054	Up
XR_360443.3	2.390546608	1.08779597	-2.936750948	0.109227964	-3.194585846	0.003316703	0.18833405	Down
XR_360488.2	16.86405983	0.544140313	-2.162284835	0.442397045	-1.176586346	0.030596228	0.419213989	Down
XR_361802.3	1.927580567	0.908543747	1.990738293	3.503198719	1.808672827	0.046509666	0.489552802	Up
XR_362158.2	100.6340828	0.39540993	3.353565918	2.507123846	1.326033264	0.000797774	0.100775184	Up
XR_362349.3	53.32167954	0.364119466	3.51965683	2.43104326	1.281575566	0.000432105	0.079334568	Up
XR_362499.3	41.95234864	0.677650458	3.321672918	4.759906299	2.250933174	0.000894795	0.104862381	Up
XR_362545.3	5.456248575	0.812727893	2.103070946	3.269849916	1.709224418	0.035459568	0.438561098	Up
XR_362560.3	207.8007809	0.74939305	2.547043996	3.75480261	1.908737067	0.010863974	0.283596049	Up
XR_589888.2	9.005331341	1.304963149	4.280647761	48.03744726	5.586087582	1.86E-05	0.011404627	Up
XR_590070.1	2.537388935	1.251796814	3.375475485	18.70574417	4.225409457	0.000736883	0.098993882	Up
XR_590134.2	7.382275795	0.691573327	2.601843948	3.480672019	1.799365876	0.009272403	0.280617571	Up
XR_590215.1	50.27542729	0.489626191	2.517279522	2.349780481	1.232525985	0.011826496	0.301575653	Up

XR_590257.2	9.539229131	1.433629716	2.808192881	16.28993297	4.025908763	0.004982038	0.230194912	Up
XR_590260.2	2.166049482	1.653802621	2.413302419	15.90188477	3.991125866	0.015808696	0.338108291	Up
XR_590265.2	28.78682359	1.231399353	2.759926026	10.54561351	3.398571124	0.005781445	0.239822186	Up
XR_590369.2	10.29510332	0.694087499	2.334090045	3.073883997	1.620062721	0.019591007	0.35694427	Up
XR_590370.2	3.704600928	1.094480655	2.462285848	6.475197638	2.694924228	0.013805459	0.324840699	Up
XR_590384.2	107.2291669	0.366754483	-2.790302389	0.491970627	-1.023355911	0.005265883	0.23747014	Down
XR_590417.2	2.734358548	1.220241348	1.997462229	5.416594165	2.437386002	0.045774994	0.4878112	Up
XR_590741.1	3.339940813	1.150460148	-2.490413679	0.137250024	-2.865121689	0.012759449	0.311819215	Down
XR_590792.2	14.95295012	0.734159037	2.799657952	4.156571957	2.055394187	0.005115678	0.232869053	Up
XR_591065.2	28.41394805	1.252280454	-3.234912681	0.06032844	-4.051017922	0.001216799	0.117581244	Down
XR_591076.2	2.011578257	1.649059413	2.348480799	14.64954924	3.872784369	0.018850171	0.355407874	Up
XR_591349.2	20.06919438	0.648894412	-2.649427641	0.303717346	-1.71919879	0.008062824	0.263491609	Down
XR_591420.2	3.927643536	0.714535559	2.298329335	3.121496909	1.642238037	0.021543052	0.361571443	Up
XR_591431.1	1.669181841	1.390622398	-2.282677036	0.110771464	-3.174341815	0.022449399	0.368504563	Down
XR_591533.1	8.916438951	1.378855479	-2.468991659	0.094444941	-3.404382677	0.013549438	0.321682339	Down
XR_591534.2	2.840345263	1.587905228	-3.178936318	0.030230537	-5.047849599	0.001478166	0.127214629	Down
XR_591556.2	2.82053888	1.242155842	-2.419385601	0.124545607	-3.005253959	0.01554675	0.334498044	Down
XR_592063.1	9.904352715	3.006190097	-2.277179857	0.008694775	-6.845635534	0.022775488	0.368504563	Down
XR_592126.1	1.462588157	1.376200988	-2.558941469	0.087073784	-3.521617777	0.010499142	0.283173669	Down
XR_592335.2	8.232696224	1.003145536	2.85893482	7.300158074	2.867927704	0.004250661	0.225210841	Up
XR_592444.2	21.78817015	0.890111845	2.398537548	4.39226982	2.134966683	0.016460689	0.338557345	Up
XR_592459.2	10.48274952	0.952378649	-2.131990828	0.244776584	-2.030462544	0.033007601	0.430400679	Down
XR_592854.2	10.57548171	0.638854438	-2.315172784	0.35872286	-1.479058408	0.020603478	0.359088457	Down
XR_592974.2	3.021206152	0.836111335	-2.041380463	0.306334266	-1.706821344	0.041213025	0.470957138	Down
XR_593074.1	4.625074156	0.919620454	2.066956388	3.734241863	1.900815372	0.038738264	0.453979481	Up
XR_593173.2	8.68784006	0.990966022	-2.13991301	0.229954274	-2.120581083	0.032361797	0.428482645	Down
XR_593421.2	43.27411572	0.453039982	2.572070018	2.24272162	1.165250556	0.010109244	0.282373835	Up
XR_593492.2	6.986402814	0.733910901	1.999680714	2.765590348	1.467587474	0.045534752	0.4878112	Up
XR_593566.2	2.529883648	2.317053246	2.047890315	26.81690623	4.745070903	0.040570748	0.467497239	Up
XR_593568.2	7.795801199	1.012787875	2.539629114	5.946767096	2.572105574	0.011097008	0.288312823	Up
XR_593600.2	3.972798991	1.070833221	-2.255413854	0.18748251	-2.415172081	0.024107364	0.374216708	Down
XR_593676.1	9.20879128	0.925206005	2.308032878	4.39360715	2.135405879	0.020997308	0.359171341	Up

XR_593708.1	1.539158546	1.627787029	-2.201947742	0.083371496	-3.584301973	0.027669	0.404246292	Down
XR_593733.1	2.513260866	0.973229105	2.390054621	5.014377875	2.326070719	0.016845867	0.341128812	Up
XR_593909.1	12.44691418	0.812317462	-2.460887077	0.250169611	-1.999021543	0.013859398	0.324840699	Down
XR_593913.1	12.86494649	0.746680592	2.31932763	3.321412548	1.731796929	0.020377278	0.359088457	Up
XR_593968.2	4.877502694	1.24064547	-2.243287772	0.145276694	-2.783124813	0.024878263	0.378819128	Down
XR_594733.1	3.48914463	1.674973267	-2.579011175	0.050074684	-4.319774772	0.009908358	0.282373835	Down
XR_595062.2	4.190794999	1.736464621	2.297053779	15.87574753	3.98875262	0.021615702	0.361571443	Up
XR_595091.2	14.98767348	0.906358651	3.111702426	7.063182698	2.820318414	0.001860119	0.142299101	Up
XR_595129.2	27.14709043	0.462376112	2.432446171	2.180569545	1.124705003	0.014997221	0.33359834	Up
XR_595230.2	1.688449776	1.087327682	-2.42636525	0.160622499	-2.638254103	0.015250913	0.33359834	Down
XR_595288.2	3.223594792	1.11892958	-2.280141872	0.170599085	-2.551318186	0.022599276	0.368504563	Down
XR_595346.1	6.102082711	1.314406375	3.807830303	32.11190674	5.005036427	0.000140191	0.04542202	Up
XR_595348.1	10.60692415	1.222679411	3.296557646	16.34336512	4.030633162	0.000978775	0.110022329	Up
XR_595418.2	2.146484711	1.714221786	2.008630939	10.8772271	3.443238916	0.044576288	0.48619048	Up
XR_595477.2	11.24669189	0.535384002	-2.08384776	0.46148039	-1.115658752	0.037174017	0.445533362	Down
XR_595536.2	39.52831004	0.429537151	2.76930783	2.28076941	1.189520595	0.005617553	0.239822186	Up
XR_595538.2	1.35090283	1.405251992	-2.002389673	0.142214249	-2.813862077	0.045242838	0.4878112	Down
XR_595889.1	4.192280695	1.651564257	-2.474423589	0.058855883	-4.086669555	0.013345136	0.320982584	Down
XR_596537.2	8.725787408	0.557417344	-2.408991273	0.394251045	-1.342813516	0.01599668	0.338108291	Down
XR_596640.2	11.69285889	0.692641545	1.984921915	2.593390364	1.374839381	0.04715316	0.492241161	Up
XR_596705.2	2.92581428	1.063925478	2.756608549	7.636047454	2.932826068	0.005840422	0.239822186	Up
XR_596950.2	3.818027212	1.483124146	-2.318748833	0.092206203	-3.438992383	0.020408659	0.359088457	Down
XR_597034.2	20.45534606	1.506427057	-2.099863274	0.111623226	-3.163290852	0.03574087	0.439421235	Down
XR_597100.2	5.51643456	1.077797454	2.427813099	6.133415879	2.616690777	0.015190169	0.33359834	Up
XR_597103.2	4.097539498	1.003251913	2.617910807	6.174935318	2.626424025	0.008846993	0.275306415	Up
XR_597114.1	6.715083597	0.934808224	2.536916183	5.174896869	2.371530111	0.011183373	0.289192565	Up
XR_597251.2	1.159152771	1.296541228	2.336355137	8.163460024	3.029180758	0.01947274	0.35694427	Up
XR_597297.1	114.2571935	0.428937837	-2.575736791	0.464956944	-1.104830968	0.010002676	0.282373835	Down
XR_597306.2	17.7819002	1.154019306	-2.13712586	0.180956583	-2.466284501	0.032587756	0.429523977	Down
XR_597441.1	1248.791449	0.705233582	-2.847318268	0.248613327	-2.008024462	0.004408926	0.226006179	Down
XR_597570.2	3.948407817	2.740302114	-2.012886324	0.021854639	-5.515916648	0.04412659	0.486098512	Down

Supplementary table 4: The comparison between high-dose EWH treated and the control female SHR for identified DE-circRNA

circRNA	case_value	control_value	FoldChange	log2FoldChange	z-score	pValue	qValue	Regulation
circRNA_2399 Chr13:32453777_32469550_-	4776.72338	1146.52598	3.67215538	1.8766271	44.5900074	0	0	Up
circRNA_6661 Chr4:183498456_183537970_-	2578.73962	5506.66707	0.41275613	-1.27663845	-38.5186976	0	0	Down
circRNA_6076 Chr3:172518176_172524861_+	1834.56172	3509.68655	0.4607219	-1.11803192	-27.6647429	1.86E-168	1.10E-165	Down
circRNA_8678 Chr8:84434784_84461546_-	837.259965	123.735696	5.9640349	2.5762887	22.680008	7.06E-114	2.99E-111	Up
circRNA_3691 Chr17:19160994_19225009_+	433.228403	0	763.698215	9.57685884	18.0256374	1.23E-72	3.03E-70	Up
circRNA_4254 Chr18:81418662_81428974_-	630.528056	1293.19135	0.42975059	-1.21842847	-17.9710261	3.29E-72	7.49E-70	Down
circRNA_2962 Chr14:87328008_87357732_+	350.822321	37.4684141	8.25271344	3.04486855	15.9964393	1.35E-57	2.36E-55	Up
circRNA_1532 Chr10:72147777_72148017_+	524.162018	111.505775	4.14326817	2.0507692	15.6459038	3.54E-55	5.52E-53	Up
circRNA_8680 Chr8:84443616_84461546_-	282.492643	0	497.980108	8.95994431	15.1546119	7.06E-52	1.05E-49	Up
circRNA_9560 ChrX:119152559_119152714_+	368.545626	791.100301	0.41061477	-1.28414256	-14.6436473	1.48E-48	2.09E-46	Down
circRNA_0690 Chr1:204960841_204988430_+	226.823159	0	399.845533	8.64329896	13.8384946	1.49E-43	2.01E-41	Up
circRNA_2718 Chr14:5990330_6026568_+	0	203.900456	0.00216136	-8.85384637	-13.8030125	2.44E-43	3.15E-41	Down
circRNA_7805 Chr6:126864143_126894194_+	222.234494	0	391.756601	8.61381377	13.7210008	7.60E-43	9.38E-41	Up
circRNA_8910 Chr9:8856697_8857681_-	316.68192	53.6414148	5.20352809	2.37949013	13.3286049	1.58E-40	1.80E-38	Up
circRNA_6943 Chr5:109530786_109563853_-	199.272461	0	351.27896	8.45647336	13.1080604	2.96E-39	3.13E-37	Up
circRNA_0651 Chr1:200648164_200672411_-	191.347447	0	337.308687	8.39792566	12.8859066	5.40E-38	5.52E-36	Up
circRNA_3706 Chr17:24052253_24058139_-	308.430161	57.3256081	4.74223454	2.24556702	12.7049471	5.55E-37	5.30E-35	Up
circRNA_4851 Chr2:124187476_124205983_+	25.7480057	192.015267	0.11819053	-3.0808136	-12.6748452	8.15E-37	7.55E-35	Down
circRNA_3419 Chr16:22715018_22787198_+	654.688264	236.307404	2.44192367	1.2880181	12.5350099	4.80E-36	4.31E-34	Up
circRNA_6171 Chr4:26336094_26341599_+	260.780347	40.040311	5.74053377	2.52118489	12.50437	7.07E-36	6.16E-34	Up
circRNA_6944 Chr5:109560566_109563853_-	173.127322	0	305.190117	8.25356444	12.3515123	4.78E-35	4.05E-33	Up
circRNA_7405 Chr6:21351085_21354603_-	200.900253	20.183117	8.77338333	3.1331333	12.266681	1.37E-34	1.13E-32	Up
circRNA_9592 ChrX:137720737_137733342_-	167.990736	0	296.135305	8.21011269	12.1943206	3.33E-34	2.67E-32	Up
circRNA_0181 Chr1:73736838_73737496_-	192.162667	18.4756461	9.16735903	3.19650618	12.1059221	9.83E-34	7.66E-32	Up
circRNA_5677 Chr3:54509941_54519757_-	164.535122	0	290.043724	8.18012659	12.0868134	1.24E-33	9.42E-32	Up
circRNA_9253 Chr9:94459965_94481167_+	0	147.199356	0.00299391	-8.38375273	-12.0476398	2.00E-33	1.48E-31	Down
circRNA_7586 Chr6:73357940_73361828_+	54.6764391	236.055869	0.20415512	-2.29226234	-11.9876623	4.12E-33	2.98E-31	Down
circRNA_9264 Chr9:95046633_95047485_+	193.807281	20.0201555	8.53252364	3.09297251	11.9768103	4.70E-33	3.32E-31	Up

circRNA_8057 Chr7:66743103_66747728_+	160.007175	0	282.061824	8.13986761	11.9437118	7.00E-33	4.82E-31	Up
circRNA_8492 Chr8:59736470_59745377_+	188.688434	18.6560843	8.91455445	3.15616269	11.9276789	8.49E-33	5.72E-31	Up
circRNA_5816 Chr3:104816866_104818862_+	159.360498	0	280.921859	8.13402507	11.9230615	8.97E-33	5.91E-31	Up
circRNA_3323 Chr16:2117271_2128403_-	155.74162	0	274.542473	8.10088555	11.8064886	3.61E-32	2.33E-30	Up
circRNA_6209 Chr4:38838812_38841741_-	264.022164	50.0503887	4.64951646	2.21708069	11.662997	1.97E-31	1.24E-29	Up
circRNA_3176 Chr15:48150476_48162894_+	17.1653372	147.350141	0.10267782	-3.28380352	-11.4256552	3.11E-30	1.92E-28	Down
circRNA_4095 Chr18:30185396_30213862_+	142.725717	0	251.597943	7.97497632	11.372134	5.76E-30	3.48E-28	Up
circRNA_2378 Chr12:51981500_51997274_+	0	123.106024	0.00357986	-8.12588273	-11.1667619	5.93E-29	3.44E-27	Down
circRNA_3618 Chr17:5524117_5529053_+	135.240285	0	238.402569	7.89725597	11.1106558	1.11E-28	6.22E-27	Up
circRNA_2914 Chr14:81267948_81280976_-	610.428832	242.212156	2.2213345	1.15142665	11.0794175	1.58E-28	8.66E-27	Up
circRNA_2621 Chr13:98374476_98403224_+	132.262996	0	233.154182	7.8651405	11.0040617	3.65E-28	1.97E-26	Up
circRNA_8706 Chr8:91509748_91527174_+	199.616931	30.2746755	5.81156015	2.53892552	10.9831806	4.60E-28	2.44E-26	Up
circRNA_2742 Chr14:10786399_10787114_+	0	117.987109	0.00373517	-8.06461061	-10.9655114	5.60E-28	2.91E-26	Down
circRNA_5333 Chr20:5972508_5975676_+	241.759848	48.1672435	4.42391973	2.14532521	10.9343348	7.90E-28	3.97E-26	Up
circRNA_3754 Chr17:51948917_52027612_+	130.136422	0	229.405442	7.84175581	10.9269752	8.57E-28	4.23E-26	Up
circRNA_0116 Chr1:36407810_36419485_+	130.087109	0	229.318512	7.84120901	10.925178	8.74E-28	4.24E-26	Up
circRNA_6188 Chr4:28488037_28514174_+	129.297076	0	227.925837	7.83242066	10.8963264	1.20E-27	5.73E-26	Up
circRNA_3944 Chr17:87396008_87396291_+	166.055513	18.6560843	7.84526575	2.97182232	10.8779143	1.47E-27	6.91E-26	Up
circRNA_8159 Chr7:102723273_102723586_+	127.464435	0	224.695244	7.81182578	10.8289592	2.51E-27	1.16E-25	Up
circRNA_3597 Chr17:1059417_1065593_-	126.433774	0	222.878386	7.80011291	10.7907981	3.80E-27	1.73E-25	Up
circRNA_4542 Chr2:22264781_22267377_+	54.0399471	208.878411	0.22803222	-2.1326904	-10.7856127	4.03E-27	1.81E-25	Down
circRNA_6693 Chr5:7725207_7780390_-	224.0788	461.336183	0.4281127	-1.22393746	-10.7689552	4.82E-27	2.13E-25	Down
circRNA_2533 Chr13:74923279_74933949_-	99.8603296	281.573169	0.31259108	-1.67765147	-10.659222	1.58E-26	6.88E-25	Down
circRNA_7043 Chr5:129621176_129709689_+	122.642643	0	216.195353	7.7561917	10.6486803	1.77E-26	7.59E-25	Up
circRNA_1609 Chr10:85164768_85172858_-	121.582418	0	214.32638	7.74366563	10.608431	2.72E-26	1.15E-24	Up
circRNA_8256 Chr7:126667194_126669197_+	66.9276199	226.65642	0.26026287	-1.94195859	-10.5743026	3.92E-26	1.64E-24	Down
circRNA_7024 Chr5:128699500_128705550_-	159.077864	18.6560843	7.51560787	2.90988979	10.5375149	5.80E-26	2.39E-24	Up
circRNA_2935 Chr14:83260146_83262412_+	119.726164	0	211.054163	7.72146947	10.537415	5.81E-26	2.36E-24	Up
circRNA_9531 ChrX:104429943_104487794_-	18.9186229	134.412275	0.12405819	-3.01091109	-10.4901887	9.58E-26	3.84E-24	Down
circRNA_7463 Chr6:27858538_27889650_+	326.784041	94.3860125	3.05160318	1.60956737	10.4659976	1.24E-25	4.89E-24	Up
circRNA_7591 Chr6:73905444_73908680_+	117.87774	0	207.795746	7.69902231	10.4659914	1.24E-25	4.82E-24	Up
circRNA_6832 Chr5:69951194_69966907_-	161.655848	20.183117	7.05956663	2.81957962	10.4552381	1.39E-25	5.33E-24	Up

circRNA_6682 Chr5:7660223_7752392_-	0	105.482091	0.00417798	-7.90297944	-10.4489414	1.48E-25	5.63E-24	Down
circRNA_5923 Chr3:128908691_128911559_+	116.96654	0	206.189478	7.6878269	10.4305173	1.80E-25	6.75E-24	Up
circRNA_4161 Chr18:57338957_57345061_+	116.273865	0	204.968424	7.67925787	10.4034315	2.39E-25	8.85E-24	Up
circRNA_2252 Chr12:27441155_27441367_+	0	104.39609	0.00422144	-7.88804905	-10.402253	2.42E-25	8.85E-24	Down
circRNA_8074 Chr7:70860232_70860799_+	0	103.623836	0.0042529	-7.87733726	-10.3688622	3.44E-25	1.24E-23	Down
circRNA_2612 Chr13:95914250_95932651_-	19.1138009	132.704804	0.12695075	-2.97765918	-10.3678011	3.47E-25	1.24E-23	Down
circRNA_4089 Chr18:29457228_29457626_+	386.187099	127.483423	2.67004698	1.41686513	10.3557219	3.94E-25	1.39E-23	Up
circRNA_9344 Chr9:119309035_119311107_-	79.7879528	242.906288	0.28951657	-1.78828218	-10.3526572	4.07E-25	1.42E-23	Down
circRNA_5678 Chr3:54509941_54548558_-	151.417057	17.2852971	7.72098683	2.94878525	10.3480726	4.27E-25	1.47E-23	Up
circRNA_0872 Chr1:243373401_243376079_+	18.9186229	130.22164	0.12805048	-2.96521541	-10.249496	1.19E-24	4.00E-23	Down
circRNA_4962 Chr2:178408989_178436951_-	111.94754	0	197.341946	7.62455383	10.2318668	1.43E-24	4.75E-23	Up
circRNA_2820 Chr14:37579854_37583161_+	111.426218	0	196.422956	7.61781974	10.2109075	1.77E-24	5.83E-23	Up
circRNA_7483 Chr6:29142111_29146505_+	110.951246	0	195.585673	7.61165688	10.1917567	2.16E-24	7.03E-23	Up
circRNA_3333 Chr16:2158111_2179241_-	0	98.9108384	0.00445555	-7.81018189	-10.1615236	2.94E-24	9.48E-23	Down
circRNA_7985 Chr7:41322521_41326655_+	108.981141	0	192.112758	7.58580952	10.1117554	4.90E-24	1.56E-22	Up
circRNA_3062 Chr15:3233141_3239097_-	146.685111	17.2852971	7.47969766	2.90297995	10.1067843	5.15E-24	1.62E-22	Up
circRNA_3453 Chr16:47896917_47910476_+	108.806473	0	191.804852	7.5834954	10.1046179	5.27E-24	1.64E-22	Up
circRNA_5230 Chr2:247429495_247446708_-	108.777809	0	191.754322	7.58311529	10.1034459	5.33E-24	1.65E-22	Up
circRNA_8671 Chr8:82038973_82045524_+	146.222915	17.2852971	7.4561296	2.89842694	10.0829741	6.57E-24	2.01E-22	Up
circRNA_8025 Chr7:60390972_60408823_-	62.291899	207.988926	0.26397708	-1.92151543	-10.0583859	8.44E-24	2.52E-22	Down
circRNA_5439 Chr20:34646376_34656748_-	107.467354	0	189.444242	7.56562948	10.049651	9.22E-24	2.73E-22	Up
circRNA_4291 Chr19:15504040_15516663_-	107.369765	0	189.272211	7.5643188	10.0456281	9.60E-24	2.82E-22	Up
circRNA_7789 Chr6:125550201_125594377_-	106.412601	0	187.584917	7.55140002	10.0060463	1.43E-23	4.16E-22	Up
circRNA_0929 Chr1:252627911_252632249_+	606.205582	264.227622	2.02216493	1.01590067	9.97302621	2.00E-23	5.75E-22	Up
circRNA_6579 Chr4:168260038_168297373_-	0	94.6270161	0.00465725	-7.74630541	-9.96747332	2.12E-23	6.02E-22	Down
circRNA_8964 Chr9:20826561_20849380_+	104.858395	0	184.845149	7.53017338	9.94128518	2.75E-23	7.76E-22	Up
circRNA_2095 Chr12:1793318_1793869_-	519.655745	212.725891	2.15312994	1.10643539	9.89970227	4.18E-23	1.17E-21	Up
circRNA_5721 Chr3:61781151_61818651_+	17.1080085	120.284304	0.12536184	-2.99582984	-9.89968664	4.18E-23	1.16E-21	Down
circRNA_8818 Chr8:118066987_118085473_+	101.78168	0	179.421495	7.48720893	9.81124429	1.01E-22	2.71E-21	Up
circRNA_3284 Chr15:103872241_103886205_-	54.4239325	189.376723	0.25330174	-1.98107109	-9.79361652	1.20E-22	3.20E-21	Down
circRNA_1742 Chr10:106662761_106699402_+	101.241226	0	178.468778	7.47952789	9.78814207	1.27E-22	3.35E-21	Up
circRNA_3177 Chr15:48165423_48172696_+	101.143637	0	178.296747	7.47813657	9.78396211	1.32E-22	3.44E-21	Up

circRNA_6499 Chr4:147692061_147692909_+	101.143637	0	178.296747	7.47813657	9.78396211	1.32E-22	3.44E-21	Up
circRNA_9301 Chr9:111690153_111703964_+	101.133685	0	178.279204	7.47799461	9.7835357	1.32E-22	3.41E-21	Up
circRNA_6032 Chr3:156775155_156778136_-	277.319291	500.001424	0.48885909	-1.03250941	-9.77692356	1.41E-22	3.61E-21	Down
circRNA_2097 Chr12:1975318_1979802_+	100.880946	0	177.833674	7.47438472	9.77269762	1.47E-22	3.73E-21	Up
circRNA_9315 Chr9:113301509_113313484_-	0	90.3665269	0.00487683	-7.67984175	-9.76879095	1.53E-22	3.85E-21	Down
circRNA_2929 Chr14:82239645_82240095_+	108.553735	273.529744	0.34979619	-1.51541354	-9.76050208	1.66E-22	4.14E-21	Down
circRNA_3078 Chr15:12440027_12442724_-	100.560414	0	177.268637	7.4697935	9.75892731	1.69E-22	4.17E-21	Up
circRNA_1186 Chr10:13931236_13935484_+	100.059567	0	176.385742	7.46259013	9.73735414	2.09E-22	5.11E-21	Up
circRNA_8002 Chr7:52745151_52745558_-	99.9098753	0	176.121863	7.4604302	9.73089295	2.23E-22	5.41E-21	Up
circRNA_1028 Chr1:265682535_265698923_-	99.7386491	0	175.820024	7.45795558	9.72349468	2.39E-22	5.77E-21	Up
circRNA_6227 Chr4:49201155_49232570_+	0	88.9876217	0.00495239	-7.65765794	-9.70320037	2.92E-22	6.92E-21	Down
circRNA_7974 Chr7:37119218_37131623_+	97.9677822	0	172.698327	7.4321103	9.64649782	5.09E-22	1.20E-20	Up
circRNA_7446 Chr6:25409775_25417047_-	144.901377	20.0201555	6.37940133	2.67342104	9.62623197	6.20E-22	1.45E-20	Up
circRNA_8981 Chr9:31437020_31442183_-	97.3086111	0	171.536335	7.42237039	9.61760954	6.74E-22	1.56E-20	Up
circRNA_4193 Chr18:63784568_63786264_+	90.3784781	243.031636	0.32777594	-1.60921814	-9.61214945	7.11E-22	1.63E-20	Down
circRNA_0174 Chr1:65850468_65852263_+	189.838885	38.6762398	4.3262916	2.11313091	9.59719597	8.21E-22	1.87E-20	Up
circRNA_7297 Chr6:894593_907083_+	399.078673	147.649064	2.38233418	1.2523758	9.57415196	1.03E-21	2.30E-20	Up
circRNA_3384 Chr16:10766351_10784805_-	0	85.9722712	0.00512609	-7.60792469	-9.55745843	1.21E-21	2.69E-20	Down
circRNA_5090 Chr2:206534104_206536360_-	519.807418	220.225548	2.08041335	1.0568702	9.53921136	1.44E-21	3.18E-20	Up
circRNA_5382 Chr20:20259263_20276110_+	95.4031432	0	168.177363	7.39383971	9.53339062	1.52E-21	3.34E-20	Up
circRNA_9552 ChrX:114016360_114105957_+	111.170516	271.833749	0.36046334	-1.47207555	-9.52318736	1.68E-21	3.66E-20	Down
circRNA_3864 Chr17:79367996_79396859_-	19.1138009	118.162097	0.14257511	-2.81020592	-9.50489025	2.00E-21	4.30E-20	Down
circRNA_1861 Chr11:34668091_34722272_+	0	84.7873024	0.00519773	-7.5879015	-9.49928663	2.11E-21	4.50E-20	Down
circRNA_9293 Chr9:111057977_111080202_+	94.5849945	0	166.735124	7.38141424	9.49689899	2.16E-21	4.57E-20	Up
circRNA_9323 Chr9:113534327_113545068_+	364.60332	129.367974	2.48409785	1.312722	9.49232568	2.26E-21	4.75E-20	Up
circRNA_3742 Chr17:43258446_43290432_+	138.417038	18.6560843	6.53949052	2.70917824	9.47531001	2.66E-21	5.47E-20	Up
circRNA_2986 Chr14:106486571_106500203_+	0	83.8379676	0.00525659	-7.57165702	-9.45230472	3.31E-21	6.77E-20	Down
circRNA_6861 Chr5:75990187_76011558_-	57.6634864	187.808546	0.27062032	-1.88565792	-9.4380312	3.80E-21	7.71E-20	Down
circRNA_8282 Chr7:134659946_134667817_+	92.5809998	0	163.202468	7.35051906	9.40665333	5.12E-21	1.03E-19	Up
circRNA_0982 Chr1:259448449_259459540_-	300.798147	95.5642545	2.77430713	1.47212751	9.40515966	5.20E-21	1.04E-19	Up
circRNA_5679 Chr3:54509941_54554495_-	92.5177792	0	163.091022	7.34953355	9.40378607	5.26E-21	1.05E-19	Up
circRNA_8646 Chr8:77136036_77140011_+	92.3651378	0	162.821944	7.34715134	9.39685811	5.62E-21	1.11E-19	Up

circRNA_1676 Chr10:92575022_92578520_-	92.3269418	0	162.754612	7.34655462	9.39512335	5.72E-21	1.12E-19	Up
circRNA_5720 Chr3:61781151_61813898_+	257.555885	463.174319	0.49011937	-1.02879494	-9.38204589	6.47E-21	1.26E-19	Down
circRNA_4729 Chr2:61054405_61137026_+	0	82.401154	0.00534825	-7.54671782	-9.38054387	6.56E-21	1.27E-19	Down
circRNA_6127 Chr4:8141791_8149019_+	91.7398564	0	161.719694	7.33735157	9.36840162	7.36E-21	1.42E-19	Up
circRNA_3577 Chr16:83300884_83303427_+	18.9186229	115.36292	0.14454336	-2.79042578	-9.35754444	8.16E-21	1.56E-19	Down
circRNA_6480 Chr4:140901076_140905153_+	91.4855661	0	161.271429	7.33334706	9.35679339	8.22E-21	1.56E-19	Up
circRNA_4876 Chr2:140311231_140324579_-	91.2817209	0	160.912089	7.33012891	9.34747304	8.98E-21	1.69E-19	Up
circRNA_3764 Chr17:54354448_54362356_+	91.0949779	0	160.582897	7.32717444	9.33892295	9.73E-21	1.82E-19	Up
circRNA_2332 Chr12:40921342_40923559_+	135.856267	18.6642023	6.41571556	2.68161018	9.33622187	9.98E-21	1.86E-19	Up
circRNA_7390 Chr6:21268305_21288551_-	90.8982485	0	160.236101	7.32405541	9.32990349	1.06E-20	1.96E-19	Up
circRNA_1448 Chr10:63412175_63418716_+	0	81.2229819	0.00542583	-7.52594127	-9.32109924	1.15E-20	2.12E-19	Down
circRNA_7524 Chr6:48820833_48857932_+	90.3593455	0	159.286119	7.31547674	9.30513225	1.34E-20	2.45E-19	Up
circRNA_2891 Chr14:69774150_69819258_+	223.559987	57.3404421	3.43643312	1.78091188	9.29763633	1.44E-20	2.61E-19	Up
circRNA_6320 Chr4:67449579_67450836_-	139.128777	20.183117	6.07580167	2.60307478	9.29697655	1.44E-20	2.61E-19	Up
circRNA_7999 Chr7:52310713_52318397_-	89.8878506	0	158.454964	7.30792905	9.28338185	1.64E-20	2.93E-19	Up
circRNA_9071 Chr9:61312543_61324138_-	180.04367	37.3054526	4.25383268	2.08876329	9.27762033	1.73E-20	3.07E-19	Up
circRNA_7359 Chr6:10961830_10979314_+	89.3419244	0	157.492602	7.29914025	9.25810652	2.08E-20	3.67E-19	Up
circRNA_8198 Chr7:117453963_117457758_+	89.2432043	0	157.318577	7.29754523	9.25352543	2.17E-20	3.81E-19	Up
circRNA_2077 Chr11:89434192_89447041_-	89.1465142	0	157.148131	7.2959813	9.2490354	2.27E-20	3.95E-19	Up
circRNA_5977 Chr3:148837814_148852242_+	88.8924561	0	156.700276	7.29186391	9.23722276	2.53E-20	4.38E-19	Up
circRNA_3190 Chr15:51822314_51823271_-	152.348525	25.9279456	5.17898921	2.37267055	9.22879239	2.74E-20	4.71E-19	Up
circRNA_9147 Chr9:71616769_71631985_-	88.3706214	0	155.780381	7.28336975	9.21289172	3.17E-20	5.44E-19	Up
circRNA_9303 Chr9:112005677_112008516_-	88.3419571	0	155.729852	7.28290171	9.21155256	3.21E-20	5.47E-19	Up
circRNA_6642 Chr4:182648931_182678312_-	133.240191	18.6560843	6.29491121	2.65418603	9.19493009	3.75E-20	6.35E-19	Up
circRNA_8420 Chr8:39224604_39235362_-	87.5313101	0	154.300837	7.26960208	9.17356456	4.58E-20	7.66E-19	Up
circRNA_1114 Chr10:800444_802135_+	0	77.5316771	0.00568415	-7.45883915	-9.13119421	6.77E-20	1.12E-18	Down
circRNA_7162 Chr5:151046084_151064330_-	0	77.5154411	0.00568534	-7.458537	-9.13034626	6.83E-20	1.12E-18	Down
circRNA_6756 Chr5:24464482_24478439_-	216.804063	55.9926069	3.41280589	1.77095836	9.12060374	7.47E-20	1.22E-18	Up
circRNA_2571 Chr13:83643437_83660292_-	17.1653372	107.832262	0.14030672	-2.83334396	-9.11803544	7.65E-20	1.24E-18	Down
circRNA_0752 Chr1:219356188_219357260_+	86.3000517	0	152.130366	7.24916434	9.11543345	7.84E-20	1.27E-18	Up
circRNA_4531 Chr2:20488617_20519067_+	86.2024627	0	151.958335	7.247532	9.11080339	8.18E-20	1.32E-18	Up
circRNA_6156 Chr4:13456793_13470497_+	131.139318	18.4756461	6.25616428	2.6452784	9.10557822	8.58E-20	1.37E-18	Up

circRNA_2358 Chr12:48187481_48191776_-	0	76.9230043	0.00572913	-7.44746838	-9.09932687	9.09E-20	1.45E-18	Down
circRNA_8710 Chr8:93337648_93345877_-	85.9056358	0	151.435087	7.2425557	9.09669995	9.31E-20	1.47E-18	Up
circRNA_5030 Chr2:189383399_189395748_-	130.84297	18.4756461	6.24202662	2.64201451	9.08920081	9.98E-20	1.57E-18	Up
circRNA_5119 Chr2:211409923_211433553_+	0	76.682621	0.00574709	-7.44295292	-9.08669699	1.02E-19	1.60E-18	Down
circRNA_5906 Chr3:123829471_123833222_+	294.269453	96.6469078	2.68368832	1.42421713	9.07480683	1.14E-19	1.78E-18	Up
circRNA_1842 Chr11:34065892_34070810_+	485.811797	209.092484	2.04787995	1.03413114	9.05912853	1.31E-19	2.04E-18	Up
circRNA_6636 Chr4:181396179_181412674_+	0	75.9642157	0.00580144	-7.42937324	-9.04879965	1.45E-19	2.23E-18	Down
circRNA_3566 Chr16:79742813_79752370_-	0	75.7904936	0.00581474	-7.42607018	-9.03960101	1.57E-19	2.41E-18	Down
circRNA_7392 Chr6:21268305_21315141_-	84.6084212	0	149.148347	7.22060418	9.03469588	1.64E-19	2.51E-18	Up
circRNA_8194 Chr7:116072198_116158807_-	129.909617	18.6642023	6.13488924	2.6170373	9.01001687	2.06E-19	3.13E-18	Up
circRNA_1743 Chr10:106673704_106674297_+	129.089684	18.4756461	6.15838394	2.62255181	8.99186535	2.43E-19	3.67E-18	Up
circRNA_3879 Chr17:79605899_79644806_-	0	74.6176212	0.00590614	-7.40356964	-8.97714077	2.78E-19	4.18E-18	Down
circRNA_7014 Chr5:128130304_128136348_+	0	74.433825	0.00592072	-7.40001165	-8.96729599	3.04E-19	4.55E-18	Down
circRNA_1156 Chr10:5004603_5016350_-	0	74.365857	0.00592613	-7.39869367	-8.96365145	3.14E-19	4.68E-18	Down
circRNA_4327 Chr19:24181887_24221057_+	83.0946338	0	146.479832	7.19455823	8.9615672	3.20E-19	4.74E-18	Up
circRNA_1227 Chr10:18359720_18402658_-	83.0170763	0	146.343113	7.19321104	8.95779769	3.31E-19	4.88E-18	Up
circRNA_1764 Chr10:110000657_110000857_+	333.306982	120.0917	2.44628063	1.29058992	8.95698956	3.34E-19	4.89E-18	Up
circRNA_4527 Chr2:18805524_18826848_-	17.1653372	105.32989	0.14364006	-2.79946997	-8.9562955	3.36E-19	4.90E-18	Down
circRNA_4446 Chr19:43128360_43132122_-	82.9315619	0	146.192367	7.19172418	8.95363884	3.44E-19	4.99E-18	Up
circRNA_3194 Chr15:51925689_51944899_-	0	73.9322276	0.00596089	-7.39025666	-8.94034921	3.88E-19	5.61E-18	Down
circRNA_8855 Chr8:126382526_126390804_-	82.6089994	0	145.623752	7.18610187	8.93792685	3.97E-19	5.70E-18	Up
circRNA_6011 Chr3:152863519_152863878_-	82.5983023	0	145.604895	7.18591504	8.93740512	3.98E-19	5.70E-18	Up
circRNA_0151 Chr1:48220382_48221758_+	82.4998144	0	145.43128	7.18419379	8.93259958	4.16E-19	5.93E-18	Up
circRNA_7640 Chr6:91942178_91961861_-	0	73.6615703	0.00598279	-7.38496543	-8.92576032	4.43E-19	6.27E-18	Down
circRNA_7447 Chr6:25599319_25605180_-	82.0871647	0	144.703858	7.17695957	8.91242515	4.99E-19	7.04E-18	Up
circRNA_6062 Chr3:164177153_164186212_+	17.1653372	104.638496	0.14458915	-2.78996878	-8.91121413	5.05E-19	7.09E-18	Down
circRNA_4491 Chr2:2473889_2523834_+	81.9784926	0	144.51229	7.17504838	8.9071014	5.24E-19	7.32E-18	Up
circRNA_4478 Chr19:56064443_56067048_+	45.4859428	157.336576	0.25481346	-1.97248661	-8.90125344	5.52E-19	7.68E-18	Down
circRNA_8010 Chr7:58367935_58371220_+	0	73.0663958	0.00603153	-7.37326132	-8.89355824	5.92E-19	8.19E-18	Down
circRNA_5352 Chr20:8247936_8251825_+	0	72.9950697	0.00603742	-7.3718523	-8.88968787	6.13E-19	8.44E-18	Down
circRNA_6149 Chr4:10687758_10694249_+	131.610941	20.183117	5.74749516	2.52293335	8.88647088	6.31E-19	8.65E-18	Up
circRNA_3627 Chr17:5546407_5571375_+	93.0289167	230.995178	0.35496858	-1.49423678	-8.87662646	6.89E-19	9.41E-18	Down

circRNA_4545 Chr2:22778543_22782386_-	0	72.3877182	0.00608807	-7.35979821	-8.8566326	8.25E-19	1.12E-17	Down
circRNA_7316 Chr6:3116549_3130068_-	0	72.3056171	0.00609499	-7.358161	-8.85215062	8.58E-19	1.16E-17	Down
circRNA_5401 Chr20:27293025_27296277_-	80.69326	0	142.246672	7.15225109	8.84379441	9.25E-19	1.24E-17	Up
circRNA_3123 Chr15:33015618_33017521_-	154.177106	30.0302332	4.52518193	2.17797579	8.81464093	1.20E-18	1.60E-17	Up
circRNA_9324 Chr9:113534327_113546234_+	55.908403	172.625242	0.28546157	-1.80863157	-8.79546242	1.42E-18	1.89E-17	Down
circRNA_4886 Chr2:143506504_143507022_+	46.2618356	156.652589	0.26029159	-1.94179937	-8.79032545	1.49E-18	1.97E-17	Down
circRNA_5775 Chr3:81121255_81143240_+	246.004121	74.6243374	2.9056062	1.53883919	8.78860492	1.51E-18	1.99E-17	Up
circRNA_8852 Chr8:126307382_126317853_-	79.3712432	0	139.916211	7.12841932	8.77800034	1.66E-18	2.18E-17	Up
circRNA_0210 Chr1:84060848_84061187_+	79.0491593	0	139.348439	7.12255304	8.7618651	1.92E-18	2.51E-17	Up
circRNA_2063 Chr11:89034506_89036388_-	79.0346345	0	139.322835	7.12228792	8.76113647	1.93E-18	2.51E-17	Up
circRNA_6555 Chr4:157436084_157436365_-	78.9773058	0	139.221776	7.12124107	8.75825978	1.98E-18	2.56E-17	Up
circRNA_9499 ChrX:71181191_71183824_+	78.9773058	0	139.221776	7.12124107	8.75825978	1.98E-18	2.56E-17	Up
circRNA_9554 ChrX:114972099_114978572_+	166.385997	35.9413814	4.08034482	2.02869108	8.75291412	2.08E-18	2.67E-17	Up
circRNA_6112 Chr4:6306138_6317357_-	174.613577	339.612412	0.45317852	-1.14184863	-8.74314	2.27E-18	2.88E-17	Down
circRNA_5848 Chr3:112752502_112762808_-	128.333823	20.0201555	5.65000125	2.49825119	8.72652941	2.63E-18	3.32E-17	Up
circRNA_6769 Chr5:30077405_30125196_+	99.5771287	236.815407	0.37061629	-1.4320018	-8.70684286	3.12E-18	3.92E-17	Down
circRNA_0731 Chr1:217779008_217782988_-	70.4519659	193.726411	0.32053772	-1.64143396	-8.7048441	3.18E-18	3.97E-17	Down
circRNA_2881 Chr14:60538626_60539431_-	203.954427	54.4170275	3.3034914	1.72399159	8.6819411	3.89E-18	4.84E-17	Up
circRNA_6255 Chr4:58367537_58373168_-	37.8331858	140.144926	0.23794161	-2.07132052	-8.67197075	4.25E-18	5.26E-17	Down
circRNA_4963 Chr2:178686506_178699276_+	0	68.9509153	0.00639153	-7.28962298	-8.66615686	4.47E-18	5.52E-17	Down
circRNA_6594 Chr4:171770056_171787877_+	385.512978	155.462239	2.18569189	1.12809004	8.66071054	4.69E-18	5.76E-17	Up
circRNA_1880 Chr11:36400178_36406937_-	76.2218294	0	134.364402	7.07000715	8.61839169	6.79E-18	8.31E-17	Up
circRNA_5698 Chr3:57832689_57850866_+	76.1876934	0	134.304226	7.06936089	8.61663888	6.89E-18	8.40E-17	Up
circRNA_7730 Chr6:108797786_108802113_+	239.202904	73.2535501	2.87814473	1.52513914	8.60951298	7.34E-18	8.91E-17	Up
circRNA_6879 Chr5:78495231_78516521_+	303.087699	108.309191	2.46648148	1.30245445	8.60204009	7.83E-18	9.47E-17	Up
circRNA_6233 Chr4:49232541_49295075_+	122.184774	18.4756461	5.8289766	2.54324261	8.60091431	7.91E-18	9.52E-17	Up
circRNA_1691 Chr10:94311573_94320863_+	0	67.1700817	0.00656098	-7.25187206	-8.5650629	1.08E-17	1.30E-16	Down
circRNA_6611 Chr4:177277503_177292170_-	75.1852758	0	132.537157	7.05025307	8.56494207	1.08E-17	1.29E-16	Up
circRNA_0349 Chr1:135860270_135871550_-	0	67.1619637	0.00656178	-7.25169769	-8.56459816	1.08E-17	1.29E-16	Down
circRNA_3592 Chr17:718534_739440_+	25.6620128	116.086007	0.1948434	-2.35961303	-8.55288346	1.20E-17	1.42E-16	Down
circRNA_0343 Chr1:133448752_133462521_-	74.8984008	0	132.031452	7.04473783	8.55006652	1.23E-17	1.45E-16	Up
circRNA_7546 Chr6:56010933_56036516_+	74.771495	0	131.807741	7.04229129	8.54347438	1.30E-17	1.52E-16	Up

circRNA_4836 Chr2:120517204_120520196_-	18.9186229	102.662394	0.16242504	-2.622154	-8.54054042	1.34E-17	1.56E-16	Down
circRNA_1371 Chr10:51710183_51734014_-	139.426291	25.9279456	4.73970624	2.24479765	8.54005507	1.34E-17	1.56E-16	Up
circRNA_9309 Chr9:112317485_112377503_+	74.6970985	0	131.676595	7.04085512	8.53960654	1.35E-17	1.56E-16	Up
circRNA_3028 Chr14:113954511_113958155_+	0	66.6428896	0.00661289	-7.24050423	-8.53480722	1.40E-17	1.61E-16	Down
circRNA_7570 Chr6:71106931_71122002_-	0	66.6428896	0.00661289	-7.24050423	-8.53480722	1.40E-17	1.61E-16	Down
circRNA_8107 Chr7:76229137_76229533_-	238.10152	73.8245318	2.84273466	1.50727944	8.51539649	1.66E-17	1.90E-16	Up
circRNA_8869 Chr8:128807474_128808790_+	236.661231	73.2293573	2.84850348	1.51020417	8.50176185	1.87E-17	2.13E-16	Up
circRNA_8894 Chr8:132774313_132776792_-	0	65.9716147	0.00668017	-7.22589869	-8.49606037	1.96E-17	2.23E-16	Down
circRNA_5712 Chr3:60029646_60032771_+	73.7685988	0	130.039829	7.02280975	8.49112626	2.05E-17	2.31E-16	Up
circRNA_5110 Chr2:209146114_209152642_-	73.7344627	0	129.979653	7.02214199	8.48933651	2.08E-17	2.34E-16	Up
circRNA_1309 Chr10:43512009_43512284_-	90.3477494	218.694552	0.36412813	-1.45748189	-8.47840264	2.28E-17	2.56E-16	Down
circRNA_1170 Chr10:10837817_10839412_-	106.731104	241.970757	0.38877916	-1.36297721	-8.47770515	2.30E-17	2.57E-16	Down
circRNA_1033 Chr1:265728095_265733260_-	73.3384954	0	129.281639	7.01437358	8.46853721	2.48E-17	2.76E-16	Up
circRNA_8523 Chr8:63433246_63436674_+	73.3384954	0	129.281639	7.01437358	8.46853721	2.48E-17	2.76E-16	Up
circRNA_3642 Chr17:6857810_6877160_+	73.2991339	0	129.212252	7.01359907	8.46646573	2.53E-17	2.80E-16	Up
circRNA_8986 Chr9:37099083_37117919_-	0	65.4525406	0.00673315	-7.21450247	-8.46592568	2.54E-17	2.80E-16	Down
circRNA_3494 Chr16:58790968_58792166_+	73.1537479	0	128.955965	7.0107347	8.45880834	2.70E-17	2.96E-16	Up
circRNA_6040 Chr3:159754051_159754822_-	0	65.1280339	0.0067667	-7.20733195	-8.44700891	2.99E-17	3.25E-16	Down
circRNA_6087 Chr3:176914734_176926722_-	0	65.0337558	0.00677651	-7.20524202	-8.44150179	3.13E-17	3.40E-16	Down
circRNA_4770 Chr2:93523236_93531988_+	0	65.0189218	0.00677806	-7.2049129	-8.44063481	3.16E-17	3.41E-16	Down
circRNA_0371 Chr1:141024396_141026781_+	72.7798421	0	128.296841	7.00334184	8.43907032	3.20E-17	3.45E-16	Up
circRNA_4884 Chr2:141024600_141026192_-	72.3717653	191.413691	0.33325067	-1.58532034	-8.43858929	3.21E-17	3.45E-16	Down
circRNA_0974 Chr1:259396273_259421082_-	72.6938491	0	128.145252	7.00163621	8.43452173	3.33E-17	3.56E-16	Up
circRNA_3901 Chr17:79775882_79789485_-	25.6620128	114.151035	0.19814619	-2.33536288	-8.42948501	3.47E-17	3.67E-16	Down
circRNA_5887 Chr3:121329599_121332424_+	34.216017	129.722861	0.23248118	-2.10481419	-8.4291132	3.48E-17	3.67E-16	Down
circRNA_1864 Chr11:34861207_34922336_+	72.4577582	0	127.729069	6.99694309	8.42201606	3.70E-17	3.89E-16	Up
circRNA_2647 Chr13:101732743_101738842_-	72.4372482	0	127.692914	6.99653466	8.42092843	3.74E-17	3.91E-16	Up
circRNA_3463 Chr16:49367616_49369496_+	263.392556	88.7906326	2.61463581	1.38661001	8.41340148	3.98E-17	4.15E-16	Up
circRNA_7370 Chr6:14755038_14758647_-	72.1105914	0	127.117081	6.99001409	8.40357951	4.33E-17	4.50E-16	Up
circRNA_3414 Chr16:21142668_21143130_+	146.352364	30.0302332	4.29552148	2.10283329	8.40042034	4.45E-17	4.61E-16	Up
circRNA_3676 Chr17:15857684_15858717_+	146.740177	30.2746755	4.27212942	2.09495535	8.39147961	4.80E-17	4.94E-16	Up
circRNA_6088 Chr3:177131326_177132323_+	71.7844476	0	126.542152	6.98347423	8.38620782	5.02E-17	5.15E-16	Up

circRNA_6983 Chr5:119207376_119225330_+	71.727119	0	126.441093	6.9823216	8.38314908	5.15E-17	5.26E-16	Up
circRNA_7311 Chr6:2599223_2605598_+	193.555673	353.960807	0.48197619	-1.05296621	-8.35895549	6.33E-17	6.44E-16	Down
circRNA_1530 Chr10:71684888_71702779_+	17.1080085	96.1540488	0.15682191	-2.67280095	-8.35140557	6.75E-17	6.82E-16	Down
circRNA_2491 Chr13:67141798_67143114_-	188.88017	50.4577925	3.29938486	1.72219707	8.3488103	6.90E-17	6.95E-16	Up
circRNA_1024 Chr1:265515390_265524404_-	118.299022	18.6560843	5.58901811	2.48259485	8.34850669	6.91E-17	6.94E-16	Up
circRNA_1852 Chr11:34612627_34616155_+	118.161173	18.6560843	5.58250544	2.48091275	8.34041854	7.40E-17	7.41E-16	Up
circRNA_7671 Chr6:100396828_100397255_+	111.309018	244.90339	0.40059951	-1.31976745	-8.32062326	8.75E-17	8.73E-16	Down
circRNA_0527 Chr1:175700307_175720685_-	70.4519659	0	124.193244	6.95644288	8.31470769	9.20E-17	9.14E-16	Up
circRNA_6232 Chr4:49210934_49232570_+	163.656449	38.6843578	3.72883007	1.89872305	8.30975236	9.59E-17	9.50E-16	Up
circRNA_8354 Chr8:19883715_19890764_+	70.2999771	0	123.925317	6.95332714	8.30649753	9.86E-17	9.73E-16	Up
circRNA_0146 Chr1:47030544_47077979_+	17.1080085	95.4827738	0.15792442	-2.66269383	-8.30526552	9.96E-17	9.80E-16	Down
circRNA_2585 Chr13:86444740_86451001_-	69.8359839	0	123.107386	6.94377351	8.28136333	1.22E-16	1.19E-15	Up
circRNA_3232 Chr15:57348405_57351717_+	36.5438932	131.243717	0.24542068	-2.02667129	-8.27492049	1.29E-16	1.26E-15	Down
circRNA_1548 Chr10:72389570_72417059_-	116.067091	18.4756461	5.53712493	2.46913707	8.24374939	1.67E-16	1.62E-15	Up
circRNA_2107 Chr12:5616151_5632155_-	52.6706468	157.008701	0.29567853	-1.75789861	-8.22486193	1.95E-16	1.89E-15	Down
circRNA_0588 Chr1:188510274_188516444_+	164.7847	40.2032725	3.61268702	1.85307227	8.2025076	2.35E-16	2.26E-15	Up
circRNA_2672 Chr13:106507146_106507561_+	185.45571	339.301341	0.48175862	-1.05361762	-8.18812582	2.65E-16	2.53E-15	Down
circRNA_9245 Chr9:93208928_93239075_+	35.5053096	127.837584	0.24479898	-2.03033053	-8.17638809	2.92E-16	2.77E-15	Down
circRNA_6248 Chr4:57539277_57561542_-	96.672632	221.384775	0.3848847	-1.37750176	-8.17482051	2.96E-16	2.80E-15	Down
circRNA_1341 Chr10:48165219_48194542_-	118.795121	20.183117	5.18782391	2.37512951	8.15430512	3.51E-16	3.28E-15	Up
circRNA_6430 Chr4:123873802_123876481_+	132.201607	25.9279456	4.49410781	2.16803474	8.13902523	3.98E-16	3.71E-15	Up
circRNA_5226 Chr2:244276950_244287544_-	136.882355	27.9841265	4.31132312	2.10813069	8.1370687	4.05E-16	3.76E-15	Up
circRNA_6191 Chr4:28494651_28520904_+	67.1862508	0	118.436417	6.88796894	8.13575265	4.09E-16	3.79E-15	Up
circRNA_5103 Chr2:207356978_207360278_+	67.0252089	0	118.152531	6.88450673	8.12678603	4.41E-16	4.07E-15	Up
circRNA_5054 Chr2:197903224_197913548_-	66.664929	0	117.517427	6.87673091	8.10667636	5.20E-16	4.79E-15	Up
circRNA_0007 Chr1:2375315_2377265_-	214.59681	66.397827	2.84868385	1.51029552	8.09606231	5.68E-16	5.21E-15	Up
circRNA_0808 Chr1:226666019_226667550_+	18.3973011	94.8835508	0.17089842	-2.54878904	-8.0829819	6.32E-16	5.78E-15	Down
circRNA_2646 Chr13:101729059_101732557_-	191.411379	54.5907496	3.09046302	1.627823	8.07500752	6.75E-16	6.13E-15	Up
circRNA_5769 Chr3:80713738_80732927_+	110.204951	17.2852971	5.61951864	2.49044656	8.07232349	6.90E-16	6.25E-15	Up
circRNA_0740 Chr1:218758207_218762503_-	65.9504592	0	116.257955	6.86118562	8.06659156	7.23E-16	6.53E-15	Up
circRNA_4154 Chr18:56848012_56853785_-	18.3973011	94.536797	0.17152526	-2.54350703	-8.05885106	7.70E-16	6.93E-15	Down
circRNA_1413 Chr10:59496145_59497395_+	0	58.6789186	0.00751039	-7.05689556	-8.0578762	7.76E-16	6.97E-15	Down

circRNA_2839 Chr14:43430448_43459087_+	44.5806356	141.074773	0.27852986	-1.84409611	-8.05734077	7.80E-16	6.98E-15	Down
circRNA_8777 Chr8:109250465_109254764_+	109.596471	17.2852971	5.58849131	2.48245886	8.03530251	9.33E-16	8.33E-15	Up
circRNA_7486 Chr6:30134917_30137025_-	109.574444	17.2852971	5.58736814	2.48216888	8.03396016	9.44E-16	8.39E-15	Up
circRNA_6750 Chr5:21884147_21895382_+	65.2145945	0	114.960767	6.84499778	8.02501675	1.02E-15	9.00E-15	Up
circRNA_5164 Chr2:225578381_225591523_+	64.9218275	0	114.444675	6.83850653	8.00839312	1.16E-15	1.02E-14	Up
circRNA_6719 Chr5:8750350_8755507_+	64.9218275	0	114.444675	6.83850653	8.00839312	1.16E-15	1.02E-14	Up
circRNA_1487 Chr10:67579952_67587851_+	282.152167	105.048542	2.36738133	1.24329211	8.00424113	1.20E-15	1.04E-14	Up
circRNA_4415 Chr19:38057557_38091369_+	64.6973327	0	114.048934	6.83350915	7.99561375	1.29E-15	1.11E-14	Up
circRNA_4299 Chr19:17466980_17494680_-	64.6591367	0	113.981602	6.83265716	7.99343664	1.31E-15	1.13E-14	Up
circRNA_4411 Chr19:37754209_37754605_-	64.6591367	0	113.981602	6.83265716	7.99343664	1.31E-15	1.13E-14	Up
circRNA_2867 Chr14:45683767_45691895_-	192.833049	56.2026211	3.02412512	1.59651783	7.99231749	1.32E-15	1.13E-14	Up
circRNA_9493 ChrX:68288275_68292531_-	64.5997437	0	113.876903	6.83133136	7.9900497	1.35E-15	1.15E-14	Up
circRNA_0820 Chr1:235720725_235737635_-	38.0324237	129.049483	0.25976019	-1.94474775	-7.98634732	1.39E-15	1.18E-14	Down
circRNA_5072 Chr2:202479064_202480189_+	55.9738859	157.764815	0.31271604	-1.67707485	-7.9765241	1.51E-15	1.28E-14	Down
circRNA_4808 Chr2:113744312_113745181_+	138.553568	30.0302332	4.06662259	2.0238311	7.97488743	1.53E-15	1.29E-14	Up
circRNA_6818 Chr5:60601995_60606533_-	64.2976913	0	113.344443	6.82456985	7.97279424	1.55E-15	1.31E-14	Up
circRNA_4513 Chr2:5411533_5418063_+	0	57.3148474	0.00768914	-7.02296219	-7.97211358	1.56E-15	1.31E-14	Down
circRNA_9548 ChrX:114016360_114041613_+	0	57.3148474	0.00768914	-7.02296219	-7.97211358	1.56E-15	1.31E-14	Down
circRNA_7300 Chr6:906886_907083_+	323.169415	129.690539	2.19632606	1.13509225	7.96895206	1.60E-15	1.34E-14	Up
circRNA_0458 Chr1:162688794_162693133_+	64.1398449	0	113.06619	6.82102378	7.96375639	1.67E-15	1.38E-14	Up
circRNA_1201 Chr10:15358869_15376292_-	64.1398449	0	113.06619	6.82102378	7.96375639	1.67E-15	1.38E-14	Up
circRNA_1234 Chr10:18983478_18984127_+	64.1398449	0	113.06619	6.82102378	7.96375639	1.67E-15	1.38E-14	Up
circRNA_5227 Chr2:244280228_244287544_-	64.1398449	0	113.06619	6.82102378	7.96375639	1.67E-15	1.38E-14	Up
circRNA_9501 ChrX:71568020_71568934_+	64.1398449	0	113.06619	6.82102378	7.96375639	1.67E-15	1.38E-14	Up
circRNA_4139 Chr18:48505040_48521166_+	0	57.151886	0.00771106	-7.01885438	-7.96178112	1.70E-15	1.39E-14	Down
circRNA_1128 Chr10:1413338_1427639_-	64.0165204	0	112.848793	6.81824718	7.95668533	1.77E-15	1.44E-14	Up
circRNA_1316 Chr10:46098067_46100778_+	64.0165204	0	112.848793	6.81824718	7.95668533	1.77E-15	1.44E-14	Up
circRNA_4356 Chr19:31905428_31920645_-	64.0165204	0	112.848793	6.81824718	7.95668533	1.77E-15	1.44E-14	Up
circRNA_0896 Chr1:247743814_247766953_+	243.627984	83.9523795	2.55781435	1.35491156	7.95011751	1.86E-15	1.51E-14	Up
circRNA_8962 Chr9:20817077_20849380_+	63.8750896	0	112.599478	6.81505633	7.94856545	1.89E-15	1.53E-14	Up
circRNA_3150 Chr15:37983379_37983882_-	63.817761	0	112.498419	6.81376091	7.94527082	1.94E-15	1.56E-14	Up
circRNA_1702 Chr10:95062921_95074409_-	63.6944365	0	112.281021	6.81097028	7.93817708	2.05E-15	1.65E-14	Up

circRNA_2981 Chr14:106153575_106167943_+	63.6799117	0	112.255417	6.81064125	7.93734102	2.07E-15	1.66E-14	Up
circRNA_3311 Chr15:110036614_110046726_-	333.899079	136.721246	2.15255408	1.10604948	7.93276605	2.14E-15	1.72E-14	Up
circRNA_3708 Chr17:26968192_26969252_-	38.5496856	128.952548	0.26349099	-1.92417446	-7.9271044	2.24E-15	1.79E-14	Down
circRNA_3614 Chr17:5511386_5571375_+	191.612202	339.821817	0.49698899	-1.00871422	-7.90647103	2.65E-15	2.10E-14	Down
circRNA_1756 Chr10:109754888_109755050_+	253.858334	90.2681898	2.47874329	1.30960886	7.90582952	2.66E-15	2.10E-14	Up
circRNA_7017 Chr5:128327978_128330004_-	175.21367	48.1672435	3.20620327	1.68086589	7.9045091	2.69E-15	2.12E-14	Up
circRNA_2190 Chr12:17500838_17503558_-	0	56.1326164	0.00785108	-6.99289258	-7.89672526	2.86E-15	2.25E-14	Down
circRNA_6381 Chr4:100760040_100783015_-	0	56.1244984	0.00785222	-6.99268392	-7.89620412	2.88E-15	2.25E-14	Down
circRNA_9327 Chr9:113561405_113562002_+	0	55.9696549	0.00787394	-6.98869812	-7.88625449	3.11E-15	2.43E-14	Down
circRNA_5501 Chr3:2571153_2571724_-	0	55.9440602	0.00787754	-6.98803824	-7.88460819	3.16E-15	2.46E-14	Down
circRNA_7504 Chr6:41822551_41830656_-	66.469751	171.878586	0.34086086	-1.55274514	-7.87637996	3.37E-15	2.61E-14	Down
circRNA_2052 Chr11:87873017_87886449_+	0	55.7810987	0.00790056	-6.98382962	-7.87411492	3.43E-15	2.65E-14	Down
circRNA_8553 Chr8:65282796_65319417_-	0	55.7810987	0.00790056	-6.98382962	-7.87411492	3.43E-15	2.65E-14	Down
circRNA_6971 Chr5:117716189_117747057_-	221.800717	72.9007916	2.68167139	1.42313246	7.8738724	3.44E-15	2.65E-14	Up
circRNA_5715 Chr3:60610877_60628573_-	110.3066	18.6560843	5.21141742	2.38167582	7.87028294	3.54E-15	2.72E-14	Up
circRNA_4672 Chr2:47139938_47143309_-	137.160316	30.2746755	3.99322554	1.99755456	7.86741066	3.62E-15	2.77E-14	Up
circRNA_0263 Chr1:100516688_100517438_-	53.1346399	151.358785	0.30941757	-1.69237299	-7.8632823	3.74E-15	2.86E-14	Down
circRNA_6111 Chr4:6219912_6222632_+	62.291899	0	109.808618	6.77884747	7.8568808	3.94E-15	3.00E-14	Up
circRNA_7191 Chr5:156310667_156314949_+	62.2632347	0	109.758088	6.77818345	7.85520724	3.99E-15	3.03E-14	Up
circRNA_8399 Chr8:32487066_32489431_+	19.1138009	92.9128292	0.18132022	-2.4633883	-7.84585158	4.30E-15	3.25E-14	Down
circRNA_4102 Chr18:32047892_32072938_-	61.9698151	0	109.240846	6.77136858	7.83804785	4.58E-15	3.45E-14	Up
circRNA_1932 Chr11:66082755_66083227_+	61.8692973	0	109.063652	6.76902656	7.83215764	4.80E-15	3.61E-14	Up
circRNA_7453 Chr6:26405813_26406778_+	72.4372482	179.846612	0.35500506	-1.49408852	-7.83175178	4.81E-15	3.61E-14	Down
circRNA_1779 Chr10:110660436_110690679_+	19.4358847	93.3343515	0.18354293	-2.44581056	-7.83133668	4.83E-15	3.61E-14	Down
circRNA_4909 Chr2:148003674_148025257_+	169.348567	46.1110626	3.23706377	1.69468579	7.81622434	5.44E-15	4.05E-14	Up
circRNA_8765 Chr8:107781628_107783028_-	109.335297	18.6560843	5.16552837	2.36891593	7.81082716	5.68E-15	4.22E-14	Up
circRNA_1985 Chr11:70810417_70820621_-	44.1453068	136.202478	0.28567642	-1.80754615	-7.80936442	5.75E-15	4.26E-14	Down
circRNA_4570 Chr2:25786589_25787923_-	135.942877	30.2746755	3.95778155	1.98469198	7.79934661	6.22E-15	4.60E-14	Up
circRNA_7194 Chr5:156506448_156517254_+	17.1080085	88.2890352	0.17079201	-2.54968763	-7.79855931	6.26E-15	4.61E-14	Down
circRNA_2488 Chr13:60462943_60473062_-	220.412797	73.0663958	2.65885086	1.41080286	7.79783696	6.30E-15	4.63E-14	Up
circRNA_4027 Chr18:15480332_15494701_+	233.120749	80.080622	2.56583279	1.35942716	7.79658214	6.36E-15	4.66E-14	Up
circRNA_1230 Chr10:18396548_18408507_-	0	54.4251455	0.00809739	-6.94832663	-7.78603693	6.91E-15	5.06E-14	Down

circRNA_1026 Chr1:265605456_265653628_-	135.373141	30.2746755	3.94119449	1.97863295	7.76737594	8.01E-15	5.85E-14	Up
circRNA_2501 Chr13:68812619_68815978_+	130.234011	27.9841265	4.10192315	2.03630046	7.76258254	8.32E-15	6.06E-14	Up
circRNA_2373 Chr12:51582921_51592889_-	18.3973011	90.2681898	0.17963636	-2.47684872	-7.75752052	8.66E-15	6.29E-14	Down
circRNA_0933 Chr1:253134538_253148277_-	17.1080085	87.6069996	0.17212165	-2.53849949	-7.74929977	9.24E-15	6.69E-14	Down
circRNA_6701 Chr5:7763385_7798747_-	72.6278533	178.452887	0.35871909	-1.47907358	-7.74306582	9.70E-15	7.01E-14	Down
circRNA_8359 Chr8:21663861_21664122_+	19.4358847	91.9076782	0.18639205	-2.42358779	-7.73035321	1.07E-14	7.71E-14	Down
circRNA_4024 Chr18:15319799_15325412_+	28.6707013	108.67796	0.23252609	-2.10453547	-7.71446084	1.21E-14	8.71E-14	Down
circRNA_7638 Chr6:91938501_91945956_-	133.009804	30.0302332	3.90391009	1.96491983	7.66410318	1.80E-14	1.29E-13	Up
circRNA_6628 Chr4:180711145_180722357_-	59.9926871	158.281937	0.33407334	-1.58176324	-7.66102631	1.84E-14	1.32E-13	Down
circRNA_6187 Chr4:28488037_28495139_+	343.118853	146.985431	2.05752514	1.04091006	7.65389468	1.95E-14	1.39E-13	Up
circRNA_8384 Chr8:25644050_25651193_-	219.184927	74.6257392	2.58879045	1.37227819	7.61441244	2.65E-14	1.88E-13	Up
circRNA_2594 Chr13:90652781_90653666_-	181.247549	54.2365893	2.94547018	1.55849795	7.61396322	2.66E-14	1.88E-13	Up
circRNA_0144 Chr1:46959021_46968866_-	107.412569	224.098708	0.42246488	-1.24309669	-7.59720086	3.03E-14	2.13E-13	Down
circRNA_0575 Chr1:185306404_185307538_+	36.2218094	119.714725	0.26668429	-1.90679527	-7.5917162	3.16E-14	2.22E-13	Down
circRNA_4242 Chr18:77477060_77489468_-	17.1080085	85.2020387	0.17698006	-2.4983413	-7.57381742	3.62E-14	2.54E-13	Down
circRNA_1435 Chr10:62566642_62581037_+	218.137711	74.6142632	2.57681805	1.36559067	7.56794611	3.79E-14	2.66E-13	Up
circRNA_7626 Chr6:80306621_80307306_-	44.7758136	133.125625	0.29645357	-1.75412193	-7.56214329	3.96E-14	2.77E-13	Down
circRNA_4295 Chr19:17294202_17298165_+	17.1080085	84.9555742	0.17749349	-2.49416196	-7.5556734	4.17E-14	2.90E-13	Down
circRNA_4637 Chr2:34574151_34576926_+	38.2276017	122.449583	0.27516589	-1.86162644	-7.5549768	4.19E-14	2.91E-13	Down
circRNA_0321 Chr1:127881908_127887913_+	168.101246	48.1794204	3.07527685	1.62071629	7.54356483	4.57E-14	3.17E-13	Up
circRNA_5815 Chr3:104375097_104394775_-	145.961123	37.3054526	3.44857553	1.78600056	7.52734974	5.18E-14	3.58E-13	Up
circRNA_0706 Chr1:209710668_209711353_-	56.7518087	0	100.042506	6.64446929	7.52387517	5.32E-14	3.67E-13	Up
circRNA_8668 Chr8:79639632_79648500_+	56.7518087	0	100.042506	6.64446929	7.52387517	5.32E-14	3.67E-13	Up
circRNA_4209 Chr18:69943105_69944476_-	17.1653372	84.627699	0.17877824	-2.48375692	-7.52317212	5.35E-14	3.67E-13	Down
circRNA_6179 Chr4:27549175_27563899_+	56.4297248	0	99.474734	6.63625823	7.50389267	6.20E-14	4.25E-13	Up
circRNA_1355 Chr10:48452001_48522898_+	17.1080085	83.9403636	0.17964018	-2.47681806	-7.48061538	7.40E-14	5.05E-13	Down
circRNA_2683 Chr13:111138406_111159973_+	55.6576941	0	98.1137925	6.61638406	7.45569879	8.94E-14	6.08E-13	Up
circRNA_3050 Chr15:907065_977590_+	55.6576941	0	98.1137925	6.61638406	7.45569879	8.94E-14	6.08E-13	Up
circRNA_4737 Chr2:62377060_62387024_+	103.070973	18.4756461	4.91712896	2.29781619	7.4473391	9.52E-14	6.44E-13	Up
circRNA_2056 Chr11:87953458_87953999_+	55.5198447	0	97.8707907	6.61280645	7.44704909	9.55E-14	6.43E-13	Up
circRNA_6691 Chr5:7725207_7764306_-	55.5198447	0	97.8707907	6.61280645	7.44704909	9.55E-14	6.43E-13	Up
circRNA_4554 Chr2:23762646_23770766_+	55.4625161	0	97.7697314	6.61131598	7.44344785	9.81E-14	6.59E-13	Up

circRNA_6447 Chr4:127663314_127709016_-	107.053188	20.183117	4.67504962	2.22498168	7.44261979	9.87E-14	6.61E-13	Up
circRNA_6396 Chr4:115636561_115643263_+	18.3973011	85.818048	0.1889515	-2.40391213	-7.43451775	1.05E-13	7.02E-13	Down
circRNA_4611 Chr2:33252541_33258660_-	258.080402	99.1714215	2.29373555	1.19769907	7.43291551	1.06E-13	7.09E-13	Up
circRNA_1077 Chr1:278580846_278661960_+	65.4331974	162.221978	0.3555194	-1.4919998	-7.43036149	1.08E-13	7.21E-13	Down
circRNA_2541 Chr13:76979427_77051919_+	55.1977609	0	97.3030189	6.60441266	7.42678596	1.11E-13	7.38E-13	Up
circRNA_4216 Chr18:71136036_71221192_+	55.1977609	0	97.3030189	6.60441266	7.42678596	1.11E-13	7.38E-13	Up
circRNA_4394 Chr19:34292209_34305849_+	54.998523	0	96.9518008	6.59919579	7.41421387	1.22E-13	8.09E-13	Up
circRNA_1063 Chr1:276295100_276296247_-	38.5496856	120.733444	0.28142852	-1.82915955	-7.41260161	1.24E-13	8.15E-13	Down
circRNA_3138 Chr15:37011829_37015530_-	54.9411943	0	96.8507415	6.59769119	7.41059104	1.26E-13	8.26E-13	Up
circRNA_6621 Chr4:180472371_180493153_-	52.6133181	142.613821	0.32516885	-1.62073904	-7.40096281	1.35E-13	8.84E-13	Down
circRNA_2896 Chr14:69819129_69863668_+	54.6191105	0	96.2829697	6.58920873	7.39019259	1.47E-13	9.53E-13	Up
circRNA_3209 Chr15:54430708_54444565_-	54.6191105	0	96.2829697	6.58920873	7.39019259	1.47E-13	9.53E-13	Up
circRNA_0517 Chr1:174970502_174971441_-	54.4812611	0	96.0399678	6.58556302	7.38143894	1.57E-13	1.01E-12	Up
circRNA_7992 Chr7:47885038_47889037_-	54.4812611	0	96.0399678	6.58556302	7.38143894	1.57E-13	1.01E-12	Up
circRNA_4203 Chr18:69634006_69647714_-	17.1080085	82.5748762	0.18261077	-2.45315625	-7.37883225	1.60E-13	1.03E-12	Down
circRNA_0550 Chr1:178941217_178955232_-	54.4239325	0	95.9389085	6.58404412	7.37779435	1.61E-13	1.03E-12	Up
circRNA_3094 Chr15:19979328_19993685_-	54.4239325	0	95.9389085	6.58404412	7.37779435	1.61E-13	1.03E-12	Up
circRNA_1405 Chr10:57627261_57634588_-	36.5438932	116.881529	0.27557752	-1.85946989	-7.37540192	1.64E-13	1.05E-12	Down
circRNA_5819 Chr3:107229486_107246956_+	261.810303	102.327732	2.25511265	1.1731995	7.36450826	1.78E-13	1.13E-12	Up
circRNA_7461 Chr6:27858538_27881618_+	118.596269	25.9279456	4.03160318	2.01135364	7.34856472	2.00E-13	1.27E-12	Up
circRNA_2045 Chr11:86824053_86831108_+	182.960189	58.0143597	2.77968737	1.47492263	7.34524838	2.05E-13	1.30E-12	Up
circRNA_7819 Chr6:129657501_129660096_+	215.3556	75.7986115	2.50420442	1.32435233	7.3447543	2.06E-13	1.30E-12	Up
circRNA_0187 Chr1:78808552_78808927_+	53.7092304	0	94.6790264	6.56497297	7.33215269	2.26E-13	1.43E-12	Up
circRNA_4079 Chr18:28042792_28048198_+	53.7092304	0	94.6790264	6.56497297	7.33215269	2.26E-13	1.43E-12	Up
circRNA_4791 Chr2:110186521_110187022_-	53.7092304	0	94.6790264	6.56497297	7.33215269	2.26E-13	1.43E-12	Up
circRNA_6455 Chr4:130390407_130403303_+	53.7092304	0	94.6790264	6.56497297	7.33215269	2.26E-13	1.43E-12	Up
circRNA_5137 Chr2:219382723_219427368_-	262.721275	103.436671	2.23869829	1.16266011	7.32440455	2.40E-13	1.50E-12	Up
circRNA_1088 Chr1:278731694_278773472_+	47.5511282	133.532244	0.3138698	-1.67176185	-7.32184461	2.45E-13	1.53E-12	Down
circRNA_0123 Chr1:40433889_40459139_+	19.1138009	85.4875301	0.19706938	-2.34322448	-7.30932921	2.68E-13	1.67E-12	Down
circRNA_0212 Chr1:84418344_84431239_+	28.6707013	102.59839	0.24630466	-2.02148417	-7.30414034	2.79E-13	1.73E-12	Down
circRNA_1215 Chr10:16724062_16731902_-	53.1919686	0	93.7671934	6.55101135	7.29887941	2.90E-13	1.80E-12	Up
circRNA_8805 Chr8:117140355_117143566_+	17.1653372	81.5353222	0.18555874	-2.43005217	-7.29231925	3.05E-13	1.88E-12	Down

circRNA_1484 Chr10:67363508_67364610_+	18.9186229	84.7698257	0.19670848	-2.34586892	-7.2834566	3.25E-13	2.01E-12	Down
circRNA_3181 Chr15:48268665_48284550_-	214.613364	76.1527718	2.48396748	1.31264629	7.2820344	3.29E-13	2.02E-12	Up
circRNA_4090 Chr18:29457228_29458435_+	100.279104	18.4756461	4.78393936	2.2581991	7.26886272	3.63E-13	2.23E-12	Up
circRNA_8479 Chr8:57791873_57797597_-	97.3746069	17.2852971	4.96527981	2.31187502	7.26517852	3.73E-13	2.28E-12	Up
circRNA_1939 Chr11:67672962_67674360_-	52.6706468	0	92.8482035	6.53680209	7.26513711	3.73E-13	2.28E-12	Up
circRNA_7861 Chr6:137924572_137936007_+	127.40278	243.33787	0.46147062	-1.11568928	-7.26390004	3.76E-13	2.29E-12	Down
circRNA_6105 Chr4:5644287_5652694_+	57.9855703	148.118347	0.3450531	-1.5351097	-7.25076243	4.14E-13	2.52E-12	Down
circRNA_3329 Chr16:2138232_2171786_-	250.659607	97.7066761	2.26117916	1.1770753	7.2248987	5.01E-13	3.04E-12	Up
circRNA_3983 Chr18:2022082_2047808_+	19.1138009	84.1867476	0.20011433	-2.32110363	-7.2126247	5.49E-13	3.32E-12	Down
circRNA_0719 Chr1:215905137_215918638_-	103.3678	20.183117	4.51410746	2.17444076	7.21013214	5.59E-13	3.37E-12	Up
circRNA_4065 Chr18:27261576_27278436_-	96.1713073	17.2852971	4.90392173	2.29393595	7.18642874	6.65E-13	3.99E-12	Up
circRNA_2486 Chr13:57308610_57315386_+	96.142643	17.2852971	4.90246009	2.29350589	7.18454596	6.74E-13	4.03E-12	Up
circRNA_4719 Chr2:57320683_57321619_+	25.6620128	95.5790886	0.23664792	-2.07918586	-7.17893103	7.03E-13	4.19E-12	Down
circRNA_0747 Chr1:218838080_218844420_-	164.85156	50.2133502	2.89366814	1.53289947	7.17386913	7.29E-13	4.33E-12	Up
circRNA_1169 Chr10:10811936_10814828_+	99.1997461	18.6560843	4.68667591	2.22856503	7.17149646	7.42E-13	4.39E-12	Up
circRNA_2126 Chr12:5733574_5773035_-	53.3871465	139.885745	0.33638615	-1.57180979	-7.16907772	7.55E-13	4.46E-12	Down
circRNA_4638 Chr2:35086861_35104742_-	191.447545	64.6008274	2.61208063	1.38519943	7.16721117	7.65E-13	4.52E-12	Up
circRNA_0186 Chr1:78518319_78522187_-	25.6620128	95.3905324	0.2371157	-2.07633693	-7.16555583	7.75E-13	4.56E-12	Down
circRNA_5489 Chr3:1981290_2008447_-	98.5640139	18.4756461	4.70211887	2.23331101	7.15781305	8.20E-13	4.82E-12	Up
circRNA_5693 Chr3:56199666_56213623_+	18.9186229	83.0764735	0.200718	-2.31675808	-7.15687757	8.25E-13	4.84E-12	Down
circRNA_9580 ChrX:135406401_135428629_-	66.9276199	159.483046	0.36988415	-1.43485463	-7.15570058	8.32E-13	4.87E-12	Down
circRNA_1030 Chr1:265714699_265724208_-	70.4519659	164.426903	0.37765488	-1.40485968	-7.15096455	8.62E-13	5.03E-12	Down
circRNA_8552 Chr8:65282796_65283243_-	102.034187	20.0201555	4.49213832	2.16740235	7.14899502	8.74E-13	5.10E-12	Up
circRNA_6445 Chr4:127663314_127682607_-	175.61308	56.2026211	2.75407109	1.4615658	7.14759906	8.83E-13	5.14E-12	Up
circRNA_2000 Chr11:72245130_72274521_-	138.352687	36.9512922	3.30014349	1.72252876	7.1462538	8.92E-13	5.18E-12	Up
circRNA_4187 Chr18:63098146_63108006_+	56.2304869	143.557776	0.3452391	-1.53433221	-7.13560032	9.64E-13	5.59E-12	Down
circRNA_1907 Chr11:53511143_53519258_-	19.4358847	83.6898402	0.20469462	-2.28845489	-7.13038156	1.00E-12	5.79E-12	Down
circRNA_7589 Chr6:73742698_73744458_+	143.913658	40.040311	3.1679581	1.66355326	7.11123679	1.15E-12	6.64E-12	Up
circRNA_0107 Chr1:29457380_29462756_+	17.1080085	79.0424738	0.19077163	-2.39008145	-7.11095788	1.15E-12	6.64E-12	Down
circRNA_4624 Chr2:34373875_34404958_+	119.717018	230.104765	0.45856947	-1.12478779	-7.10997886	1.16E-12	6.68E-12	Down
circRNA_6710 Chr5:7830490_7872679_-	151.865167	270.953002	0.49401378	-1.01737681	-7.10975929	1.16E-12	6.67E-12	Down
circRNA_0279 Chr1:102638885_102660697_-	97.9532573	18.6642023	4.62577291	2.20969444	7.08909766	1.35E-12	7.73E-12	Up

circRNA_2963 Chr14:88724076_88725530_-	136.979046	251.652654	0.4797638	-1.05960378	-7.08416809	1.40E-12	8.00E-12	Down
circRNA_7130 Chr5:147358172_147368505_-	100.7497	20.183117	4.39977412	2.13742946	7.04209589	1.89E-12	1.08E-11	Up
circRNA_2651 Chr13:102731643_102745681_-	100.626375	20.183117	4.3943885	2.13566242	7.0341198	2.01E-12	1.14E-11	Up
circRNA_9469 ChrX:53416067_53421284_+	208.617629	75.8079703	2.42555426	1.27831445	7.03352646	2.01E-12	1.14E-11	Up
circRNA_7142 Chr5:148844953_148847692_+	19.4358847	82.052444	0.2087794	-2.2599487	-7.00686273	2.44E-12	1.38E-11	Down
circRNA_8416 Chr8:36673405_36682424_+	17.1653372	77.5154411	0.19518164	-2.35711071	-6.98458279	2.86E-12	1.61E-11	Down
circRNA_6679 Chr5:6082465_6083085_-	29.1538271	98.8007103	0.26008204	-1.94296131	-6.98364243	2.88E-12	1.62E-11	Down
circRNA_3099 Chr15:23792824_23801848_+	158.732727	48.9307598	2.85929771	1.51566084	6.98112242	2.93E-12	1.64E-11	Up
circRNA_4357 Chr19:32214551_32215127_+	116.496562	27.9841265	3.66924078	1.87548158	6.95302299	3.58E-12	1.99E-11	Up
circRNA_3912 Chr17:83502435_83539887_+	111.822664	25.9279456	3.80133885	1.92650763	6.93584194	4.04E-12	2.25E-11	Up
circRNA_8140 Chr7:95149972_95166554_+	95.1404523	18.4756461	4.53879361	2.18230889	6.93280391	4.13E-12	2.29E-11	Up
circRNA_0520 Chr1:175171303_175218889_-	120.573397	30.2746755	3.51032122	1.81160306	6.90877631	4.89E-12	2.71E-11	Up
circRNA_4865 Chr2:128562842_128636580_-	94.7801725	18.6560843	4.47787387	2.16281389	6.88105704	5.94E-12	3.28E-11	Up
circRNA_7704 Chr6:104844523_104864968_+	17.1080085	75.9709318	0.19848462	-2.33290086	-6.8723975	6.31E-12	3.47E-11	Down
circRNA_1127 Chr10:1413338_1419399_-	25.6620128	91.2175247	0.24796323	-2.01180187	-6.86562829	6.62E-12	3.63E-11	Down
circRNA_7841 Chr6:135234357_135235783_-	17.1653372	75.9642157	0.19916735	-2.32794695	-6.86339037	6.72E-12	3.68E-11	Down
circRNA_0545 Chr1:177569617_177569872_+	131.001982	35.9494994	3.21188419	1.68341987	6.84214348	7.80E-12	4.26E-11	Up
circRNA_3437 Chr16:26755422_26767549_+	27.5959516	93.7753029	0.25937718	-1.94687656	-6.81279353	9.57E-12	5.19E-11	Down
circRNA_5648 Chr3:44500847_44522988_-	137.321126	245.977129	0.49205935	-1.02309577	-6.80542675	1.01E-11	5.45E-11	Down
circRNA_6400 Chr4:115820712_115833021_+	89.7358618	184.304171	0.42914666	-1.22045734	-6.79074551	1.12E-11	6.00E-11	Down
circRNA_1533 Chr10:72171107_72179123_-	93.329838	18.6560843	4.40935305	2.140567	6.78407311	1.17E-11	6.27E-11	Up
circRNA_1740 Chr10:106264856_106265494_+	80.2665984	171.313696	0.41296917	-1.27589401	-6.77896704	1.21E-11	6.48E-11	Down
circRNA_2527 Chr13:74485162_74513464_-	132.183799	37.1317305	3.13767458	1.64969573	6.77473097	1.25E-11	6.66E-11	Up
circRNA_6236 Chr4:49413414_49426775_-	96.1790359	20.0201555	4.23436052	2.08214411	6.767054	1.31E-11	7.01E-11	Up
circRNA_7449 Chr6:25903936_25912817_-	114.478748	216.049212	0.46703244	-1.09840534	-6.75861259	1.39E-11	7.42E-11	Down
circRNA_4804 Chr2:113322714_113345579_-	112.511152	27.7134692	3.57832295	1.8392836	6.74333443	1.55E-11	8.16E-11	Up
circRNA_3207 Chr15:52636357_52638595_+	96.081447	20.183117	4.19590992	2.06898371	6.73621495	1.63E-11	8.55E-11	Up
circRNA_6196 Chr4:31220330_31283358_+	112.827111	27.9841265	3.55366571	1.82930798	6.72779254	1.72E-11	9.03E-11	Up
circRNA_2698 Chr14:2924636_2991160_+	92.4563562	18.6560843	4.36808555	2.12700111	6.72525004	1.75E-11	9.17E-11	Up
circRNA_9418 ChrX:33498876_33500582_-	92.4129348	18.6560843	4.36603411	2.1263234	6.72231769	1.79E-11	9.34E-11	Up
circRNA_7440 Chr6:22373412_22407626_+	123.065284	226.129375	0.47968201	-1.05984975	-6.71652991	1.86E-11	9.70E-11	Down
circRNA_4002 Chr18:5059054_5061806_-	182.41403	64.7752649	2.48212643	1.3115766	6.7092801	1.96E-11	1.02E-10	Up

circRNA_0148 Chr1:47915029_47916946_-	64.2333395	147.775652	0.38311793	-1.38413956	-6.70322474	2.04E-11	1.06E-10	Down
circRNA_4771 Chr2:93575111_93581750_-	144.861769	44.4035917	2.87548126	1.52380344	6.69547484	2.15E-11	1.11E-10	Up
circRNA_3851 Chr17:79335091_79352484_-	28.3779343	93.448844	0.26765891	-1.90153242	-6.6949277	2.16E-11	1.12E-10	Down
circRNA_2615 Chr13:96986684_97023051_-	118.83236	219.929083	0.47624115	-1.07023581	-6.6766755	2.44E-11	1.26E-10	Down
circRNA_7518 Chr6:44055353_44060029_+	200.568356	75.556276	2.33973531	1.22634533	6.67597077	2.46E-11	1.26E-10	Up
circRNA_3301 Chr15:109120332_109141568_+	136.670588	40.366234	2.98422584	1.57735672	6.66977942	2.56E-11	1.31E-10	Up
circRNA_3738 Chr17:38026513_38080864_+	222.706537	88.9710708	2.20627176	1.1416105	6.64561975	3.02E-11	1.54E-10	Up
circRNA_4224 Chr18:72593000_72597936_+	90.8424712	18.4756461	4.33375308	2.11561696	6.64370694	3.06E-11	1.56E-10	Up
circRNA_3733 Chr17:36113611_36121325_-	91.2203323	18.6642023	4.30781531	2.1069564	6.64021536	3.13E-11	1.59E-10	Up
circRNA_1670 Chr10:92424212_92432295_-	110.602948	27.7134692	3.51763414	1.81460544	6.62446627	3.49E-11	1.76E-10	Up
circRNA_1357 Chr10:48460656_48470732_+	212.241168	83.0879495	2.25147145	1.17086818	6.62018837	3.59E-11	1.81E-10	Up
circRNA_7378 Chr6:19003638_19033483_+	42.7700213	115.000091	0.32780543	-1.60908835	-6.61144922	3.81E-11	1.92E-10	Down
circRNA_8091 Chr7:73684650_73698020_-	110.259737	27.7134692	3.50671859	1.81012166	6.60296497	4.03E-11	2.02E-10	Up
circRNA_6321 Chr4:67449579_67455064_-	90.6405164	18.6560843	4.28229649	2.09838469	6.60194864	4.06E-11	2.03E-10	Up
circRNA_7991 Chr7:47865531_47889037_-	146.882086	46.4597726	2.78654853	1.47847928	6.59305478	4.31E-11	2.16E-10	Up
circRNA_3801 Chr17:65713487_65718285_-	164.23713	55.9581789	2.58691782	1.37123423	6.58731	4.48E-11	2.24E-10	Up
circRNA_4518 Chr2:5639643_5640909_+	17.1080085	72.2974991	0.20856962	-2.26139909	-6.57972847	4.71E-11	2.35E-10	Down
circRNA_5513 Chr3:3785953_3786880_+	144.309753	45.2694236	2.8097364	1.49043479	6.57427297	4.89E-11	2.42E-10	Up
circRNA_8495 Chr8:60059164_60076960_-	46.5145745	119.68913	0.34253835	-1.54566258	-6.55064298	5.73E-11	2.83E-10	Down
circRNA_1115 Chr10:805713_835214_+	175.788261	62.8792379	2.46409506	1.30105792	6.54539068	5.93E-11	2.93E-10	Up
circRNA_7195 Chr5:157690578_157712883_+	86.4610936	17.2852971	4.40878311	2.14038051	6.52929338	6.61E-11	3.26E-10	Up
circRNA_7256 Chr5:167547693_167558250_+	181.448852	66.2941796	2.41242423	1.27048363	6.52817948	6.66E-11	3.28E-10	Up
circRNA_0296 Chr1:114597220_114599418_+	147.708517	47.5599725	2.73740339	1.45280805	6.52574705	6.77E-11	3.32E-10	Up
circRNA_4541 Chr2:22038220_22044780_-	18.3973011	73.9322276	0.21932856	-2.18883443	-6.52169253	6.95E-11	3.40E-10	Down
circRNA_1810 Chr11:24491881_24498116_-	92.3144469	20.183117	4.03140373	2.01128227	6.48319739	8.98E-11	4.38E-10	Up
circRNA_3866 Chr17:79373151_79396859_-	92.2518928	20.183117	4.02867197	2.01030434	6.47894704	9.24E-11	4.49E-10	Up
circRNA_9563 ChrX:119208336_119213196_-	45.4859428	116.992043	0.3426855	-1.54504293	-6.47450965	9.51E-11	4.62E-10	Down
circRNA_4858 Chr2:127855809_127869951_+	88.6972782	18.6560843	4.19048852	2.06711844	6.46843595	9.90E-11	4.80E-10	Up
circRNA_4744 Chr2:62955690_62973365_+	117.740369	214.233329	0.48441013	-1.04569907	-6.4659997	1.01E-10	4.87E-10	Down
circRNA_3977 Chr18:2005294_2013322_+	156.716983	53.2266785	2.59514455	1.3758149	6.4510907	1.11E-10	5.35E-10	Up
circRNA_1541 Chr10:72359922_72371397_-	91.7477784	20.183117	4.00665712	2.00239905	6.44463453	1.16E-10	5.57E-10	Up
circRNA_3447 Chr16:32120310_32121085_-	63.3698441	142.028787	0.39326122	-1.34644018	-6.43449306	1.24E-10	5.94E-10	Down

circRNA_7328 Chr6:3328492_3345418_-	107.543815	27.7134692	3.42034098	1.77414016	6.43148311	1.26E-10	6.05E-10	Up
circRNA_2196 Chr12:22237823_22238433_-	19.4358847	74.6082625	0.22961077	-2.12273781	-6.42680093	1.30E-10	6.23E-10	Down
circRNA_2240 Chr12:25226326_25234184_+	54.418707	129.205728	0.3712285	-1.42962063	-6.42300892	1.34E-10	6.37E-10	Down
circRNA_0838 Chr1:238998947_239014340_-	248.303067	107.659942	2.03283814	1.02349535	6.42128218	1.35E-10	6.44E-10	Up
circRNA_2073 Chr11:89328437_89332868_-	38.0324237	104.885581	0.31960464	-1.64563975	-6.41664666	1.39E-10	6.62E-10	Down
circRNA_8606 Chr8:70535555_70547228_+	90.9205422	20.0201555	4.00285104	2.00102793	6.41264435	1.43E-10	6.79E-10	Up
circRNA_0429 Chr1:154405931_154425509_+	120.248805	216.138025	0.49037063	-1.02805553	-6.40465749	1.51E-10	7.14E-10	Down
circRNA_0676 Chr1:204773090_204780713_-	195.014408	75.8079703	2.26739241	1.18103409	6.38963302	1.66E-10	7.87E-10	Up
circRNA_0096 Chr1:25716606_25787662_-	128.40935	38.6762398	2.9263567	1.54910564	6.38041153	1.77E-10	8.33E-10	Up
circRNA_0962 Chr1:256710536_256734892_-	90.3211495	20.0201555	3.97646229	1.99148549	6.37151897	1.87E-10	8.81E-10	Up
circRNA_3664 Chr17:10096739_10107746_+	178.726134	66.6603663	2.36317141	1.24072428	6.35996485	2.02E-10	9.49E-10	Up
circRNA_6422 Chr4:119077003_119083375_-	19.1138009	73.0893478	0.23049835	-2.11717165	-6.35048494	2.15E-10	1.01E-09	Down
circRNA_5387 Chr20:22822066_22856689_-	86.9726568	18.6642023	4.10722185	2.03816288	6.34728607	2.19E-10	1.03E-09	Up
circRNA_5373 Chr20:14335985_14342412_-	110.875719	30.0302332	3.25426265	1.70233069	6.34450129	2.23E-10	1.04E-09	Up
circRNA_4425 Chr19:39543248_39545672_+	61.8119687	138.365509	0.39374911	-1.34465142	-6.34449182	2.23E-10	1.04E-09	Down
circRNA_3255 Chr15:61826710_61827008_+	162.553001	57.651531	2.48518661	1.31335419	6.340102	2.30E-10	1.07E-09	Up
circRNA_1949 Chr11:68745884_68750272_-	220.795172	91.8935596	2.11777276	1.08254779	6.33925434	2.31E-10	1.07E-09	Up
circRNA_8277 Chr7:132867046_132873732_+	102.29305	25.9279456	3.47738583	1.79800315	6.33063808	2.44E-10	1.13E-09	Up
circRNA_2811 Chr14:37251286_37254001_-	83.6330582	17.2852971	4.26457727	2.09240274	6.33008668	2.45E-10	1.13E-09	Up
circRNA_7349 Chr6:8257474_8261060_+	38.0324237	103.518151	0.32382648	-1.62670715	-6.32204856	2.58E-10	1.19E-09	Down
circRNA_7084 Chr5:139401645_139421497_+	89.6025853	20.0201555	3.94482692	1.979962	6.32201359	2.58E-10	1.19E-09	Up
circRNA_0666 Chr1:203272587_203286711_+	204.238794	82.1305667	2.19183711	1.13214059	6.32165609	2.59E-10	1.19E-09	Up
circRNA_0060 Chr1:15545013_15551204_+	19.4358847	73.2293573	0.23393433	-2.09582453	-6.31579336	2.69E-10	1.23E-09	Down
circRNA_7983 Chr7:41167312_41178782_+	83.3109744	17.2852971	4.24815373	2.08683597	6.30715835	2.84E-10	1.30E-09	Up
circRNA_3227 Chr15:56804970_56818325_-	80.7505886	163.408254	0.43555857	-1.19906135	-6.30540542	2.87E-10	1.31E-09	Down
circRNA_8026 Chr7:60397574_60401897_-	17.1653372	68.7704771	0.22000126	-2.18441634	-6.28201424	3.34E-10	1.52E-09	Down
circRNA_9581 ChrX:135406401_135436054_-	85.6176879	18.4756461	4.08449829	2.03015888	6.28162266	3.35E-10	1.52E-09	Up
circRNA_0476 Chr1:165366392_165367044_-	100.743097	188.776774	0.47037214	-1.08812547	-6.26962307	3.62E-10	1.64E-09	Down
circRNA_4786 Chr2:104882050_104908155_+	42.8273499	109.693171	0.34412519	-1.53899457	-6.25128528	4.07E-10	1.84E-09	Down
circRNA_6529 Chr4:152465373_152468818_-	85.5835519	18.6560843	4.04338102	2.01556216	6.25100679	4.08E-10	1.84E-09	Up
circRNA_8160 Chr7:102723273_102724348_+	72.8785622	151.726455	0.42336343	-1.24003143	-6.23896619	4.40E-10	1.98E-09	Down
circRNA_8343 Chr8:6135492_6161740_-	19.1138009	71.7023246	0.23495716	-2.08953038	-6.23762446	4.44E-10	1.99E-09	Down

circRNA_1796 Chr11:10020678_10022991_+	125.692916	38.6843578	2.86385001	1.51795593	6.21910647	5.00E-10	2.23E-09	Up
circRNA_8442 Chr8:48582552_48597919_-	83.5725341	165.501281	0.44507897	-1.16786677	-6.21407933	5.16E-10	2.30E-09	Down
circRNA_3776 Chr17:55367271_55376891_-	104.696647	27.9841265	3.29758408	1.72140944	6.21368654	5.18E-10	2.31E-09	Up
circRNA_4445 Chr19:43120530_43124021_-	147.324952	50.4577925	2.57349258	1.36372762	6.21283031	5.20E-10	2.31E-09	Up
circRNA_3325 Chr16:2121549_2126628_-	100.489039	25.9279456	3.41605963	1.77233316	6.21255786	5.21E-10	2.31E-09	Up
circRNA_9401 ChrX:20517911_20536573_+	233.402805	101.406099	2.02869544	1.0205523	6.21087252	5.27E-10	2.34E-09	Up
circRNA_9167 Chr9:73766839_73805835_-	114.837191	205.390744	0.49280664	-1.02090639	-6.20764023	5.38E-10	2.38E-09	Down
circRNA_3377 Chr16:8416756_8421217_+	104.599764	27.9841265	3.29453258	1.72007379	6.20742836	5.39E-10	2.38E-09	Up
circRNA_9511 ChrX:79925629_80009757_+	44.7039602	111.745994	0.35260535	-1.50387374	-6.20316514	5.53E-10	2.44E-09	Down
circRNA_3390 Chr16:11046372_11051389_+	59.9640228	133.229273	0.39670344	-1.3338672	-6.18723447	6.12E-10	2.70E-09	Down
circRNA_2599 Chr13:95003382_95013012_+	87.6173031	20.183117	3.82627784	1.93594164	6.15939846	7.30E-10	3.21E-09	Up
circRNA_9358 Chr9:119805160_119807029_-	36.0266314	97.9469749	0.32419588	-1.62506235	-6.14509819	7.99E-10	3.50E-09	Down
circRNA_9304 Chr9:112023471_112027242_-	62.944047	136.605738	0.4061258	-1.30000142	-6.14202812	8.15E-10	3.56E-09	Down
circRNA_2502 Chr13:69016108_69031223_+	73.3958241	150.398041	0.43013426	-1.21714106	-6.12116296	9.29E-10	4.05E-09	Down
circRNA_8688 Chr8:85436186_85452774_+	222.598531	96.0099658	2.04352915	1.03106282	6.11671152	9.55E-10	4.16E-09	Up
circRNA_0816 Chr1:233570084_233581182_+	17.1653372	66.6428896	0.22702484	-2.13907794	-6.10348587	1.04E-09	4.50E-09	Down
circRNA_0555 Chr1:184008119_184055555_+	17.1653372	66.5607885	0.22730487	-2.13729951	-6.09653224	1.08E-09	4.69E-09	Down
circRNA_3795 Chr17:63847963_63879166_-	120.528178	37.1317305	2.86100266	1.51652084	6.08574172	1.16E-09	5.01E-09	Up
circRNA_5262 Chr2:251887045_251889238_+	35.5053096	96.1796434	0.32537561	-1.61982197	-6.0752804	1.24E-09	5.33E-09	Down
circRNA_5432 Chr20:32513668_32523997_+	111.171647	198.067045	0.49471682	-1.01532515	-6.06848641	1.29E-09	5.54E-09	Down
circRNA_7264 Chr5:169145996_169147320_+	29.1538271	86.2362124	0.29797564	-1.74673371	-6.06842809	1.29E-09	5.54E-09	Down
circRNA_1563 Chr10:73854212_73857079_-	17.1080085	66.0356187	0.2283474	-2.13069775	-6.06060564	1.36E-09	5.80E-09	Down
circRNA_1507 Chr10:70579708_70584317_+	82.8942303	18.6642023	3.91462107	1.96887266	6.05831717	1.38E-09	5.87E-09	Up
circRNA_7342 Chr6:7623900_7698590_-	34.216017	93.8446873	0.32136207	-1.63772842	-6.04861899	1.46E-09	6.23E-09	Down
circRNA_8066 Chr7:70688610_70697117_+	61.6886442	133.213037	0.40816274	-1.29278361	-6.03914514	1.55E-09	6.59E-09	Down
circRNA_8800 Chr8:117106575_117109692_+	54.6764391	123.451376	0.39037244	-1.3570769	-6.03515415	1.59E-09	6.75E-09	Down
circRNA_8255 Chr7:126282121_126283984_+	82.4138215	18.6642023	3.8919341	1.96048728	6.02375528	1.70E-09	7.22E-09	Up
circRNA_3744 Chr17:47419445_47421071_+	81.8818025	18.4756461	3.90627323	1.96579286	6.01499629	1.80E-09	7.61E-09	Up
circRNA_0303 Chr1:116593695_116610544_+	36.6012219	96.9431598	0.33277698	-1.58737247	-6.01086805	1.85E-09	7.80E-09	Down
circRNA_5525 Chr3:8548854_8553003_+	82.1777306	18.6560843	3.88247355	1.9569761	6.00800225	1.88E-09	7.92E-09	Up
circRNA_1331 Chr10:48022762_48039001_-	54.418707	122.601068	0.391227	-1.35392215	-6.00363224	1.93E-09	8.13E-09	Down
circRNA_2048 Chr11:87529218_87535394_+	82.0917376	18.6560843	3.87841082	1.95546563	6.00179386	1.95E-09	8.21E-09	Up

circRNA_0583 Chr1:186077651_186114868_+	18.3973011	67.4064059	0.24056243	-2.05551675	-5.98459722	2.17E-09	9.10E-09	Down
circRNA_4778 Chr2:94716330_94720889_-	79.7079451	156.128751	0.44998039	-1.15206597	-5.9702081	2.37E-09	9.91E-09	Down
circRNA_4641 Chr2:38074255_38110573_-	56.7497787	125.158847	0.39964785	-1.32319878	-5.95993926	2.52E-09	1.05E-08	Down
circRNA_8434 Chr8:46728894_46730691_-	27.5959516	82.3042188	0.29552766	-1.75863493	-5.95655615	2.58E-09	1.07E-08	Down
circRNA_9388 ChrX:13905156_13930670_+	66.5038871	138.227754	0.42405935	-1.23766192	-5.94600579	2.75E-09	1.14E-08	Down
circRNA_4957 Chr2:178247960_178249289_-	17.1653372	64.7671469	0.23359978	-2.09788918	-5.94338705	2.79E-09	1.16E-08	Down
circRNA_9483 ChrX:63552834_63602914_+	17.1653372	64.7671469	0.23359978	-2.09788918	-5.94338705	2.79E-09	1.16E-08	Down
circRNA_3955 Chr17:90409044_90424571_-	17.1080085	64.6123034	0.23337756	-2.09926226	-5.93874999	2.87E-09	1.19E-08	Down
circRNA_1902 Chr11:47165426_47169764_+	152.073725	55.9581789	2.39533064	1.26022482	5.93867337	2.87E-09	1.19E-08	Up
circRNA_4855 Chr2:127770379_127780222_-	37.315924	96.9175651	0.33936462	-1.55909193	-5.93200047	2.99E-09	1.23E-08	Down
circRNA_8078 Chr7:71326796_71331115_+	182.702457	74.0830227	2.17370474	1.12015599	5.92804196	3.07E-09	1.26E-08	Up
circRNA_0649 Chr1:200648164_200658087_-	100.202642	27.9841265	3.15603838	1.65811475	5.91992355	3.22E-09	1.32E-08	Up
circRNA_2819 Chr14:37552177_37584371_+	53.9026107	120.544888	0.3941267	-1.34326859	-5.91714287	3.28E-09	1.34E-08	Down
circRNA_1916 Chr11:60383243_60388137_+	102.686335	184.536422	0.49046206	-1.02778656	-5.91661159	3.29E-09	1.34E-08	Down
circRNA_3808 Chr17:65826669_65857795_-	118.074948	37.3121687	2.78921587	1.4798596	5.91533243	3.31E-09	1.35E-08	Up
circRNA_4930 Chr2:157066595_157105004_-	189.635553	78.441919	2.13081827	1.09140755	5.91387466	3.34E-09	1.36E-08	Up
circRNA_3076 Chr15:10416533_10434205_-	25.7480057	78.6990741	0.28836917	-1.79401114	-5.90548498	3.52E-09	1.42E-08	Down
circRNA_3499 Chr16:60310912_60317529_+	80.0520555	18.4756461	3.81898287	1.93318845	5.8819047	4.06E-09	1.63E-08	Up
circRNA_3755 Chr17:51972801_51981081_+	78.4186525	152.712162	0.45260631	-1.14367138	-5.87002648	4.36E-09	1.75E-08	Down
circRNA_6319 Chr4:67399951_67412670_-	18.3973011	66.0356187	0.2455561	-2.02587545	-5.86807752	4.41E-09	1.77E-08	Down
circRNA_7706 Chr6:104862169_104864968_+	89.2432043	166.47887	0.47248812	-1.08165004	-5.85920225	4.65E-09	1.86E-08	Down
circRNA_4515 Chr2:5570780_5576549_-	171.774331	68.3625374	2.21470022	1.14711143	5.85888603	4.66E-09	1.86E-08	Up
circRNA_8527 Chr8:63730622_63756315_-	17.1653372	63.6548506	0.23768167	-2.07289744	-5.84720621	5.00E-09	1.99E-08	Down
circRNA_0624 Chr1:197981834_197983858_-	55.979778	122.250266	0.4036047	-1.30898512	-5.84137305	5.18E-09	2.05E-08	Down
circRNA_2466 Chr13:53175100_53186162_-	19.4358847	67.4986473	0.25379561	-1.97826099	-5.84128945	5.18E-09	2.05E-08	Down
circRNA_0675 Chr1:204761727_204780713_-	116.86782	37.3121687	2.7607006	1.46503444	5.84104701	5.19E-09	2.05E-08	Up
circRNA_8566 Chr8:67801800_67809889_-	84.3283954	159.81428	0.46508584	-1.10443109	-5.83852201	5.27E-09	2.08E-08	Down
circRNA_2480 Chr13:56991070_56993049_-	165.594448	64.9354188	2.24770331	1.16845162	5.83790398	5.29E-09	2.08E-08	Up
circRNA_9595 ChrX:143419760_143443355_-	79.7879528	18.6560843	3.76956889	1.91439954	5.83408593	5.41E-09	2.12E-08	Up
circRNA_1144 Chr10:4183171_4191496_-	79.3999075	18.4756461	3.78787134	1.92138733	5.83405553	5.41E-09	2.12E-08	Up
circRNA_5455 Chr20:44890495_44931228_+	76.4845203	17.2852971	3.90006242	1.96349721	5.80889079	6.29E-09	2.46E-08	Up
circRNA_2721 Chr14:6612028_6622491_-	135.562369	47.8965862	2.49464899	1.31883683	5.80846713	6.30E-09	2.46E-08	Up

circRNA_8686 Chr8:85278854_85285823_+	42.8273499	103.245472	0.36561588	-1.45159937	-5.80766331	6.34E-09	2.47E-08	Down
circRNA_0757 Chr1:220032746_220034697_-	154.874508	59.0223183	2.31280243	1.20964203	5.80321411	6.51E-09	2.53E-08	Up
circRNA_4509 Chr2:4961753_5031767_+	28.6707013	81.8894825	0.30859227	-1.69622616	-5.79299577	6.91E-09	2.69E-08	Down
circRNA_5406 Chr20:27538479_27544812_-	45.0978975	106.271202	0.37403786	-1.4187438	-5.79167419	6.97E-09	2.71E-08	Down
circRNA_9196 Chr9:81204850_81208345_-	74.2517246	145.631194	0.44939371	-1.15394815	-5.77352373	7.76E-09	3.01E-08	Down
circRNA_3226 Chr15:56804970_56808138_-	18.3973011	64.7671469	0.25036534	-1.99789324	-5.75903127	8.46E-09	3.27E-08	Down
circRNA_4336 Chr19:25861153_25886887_-	61.8692973	128.847494	0.42322768	-1.24049411	-5.75100641	8.87E-09	3.42E-08	Down
circRNA_8435 Chr8:47303909_47306590_-	25.6620128	76.1527718	0.29701601	-1.7513874	-5.713185	1.11E-08	4.25E-08	Down
circRNA_3862 Chr17:79367996_79383074_-	84.6504792	157.848318	0.47267684	-1.08107392	-5.70281885	1.18E-08	4.50E-08	Down
circRNA_5492 Chr3:2021173_2025998_-	96.8959613	27.9963034	3.0505619	1.60907501	5.69746259	1.22E-08	4.63E-08	Up
circRNA_1718 Chr10:96264760_96266403_-	167.447121	67.7537802	2.17830662	1.12320704	5.68758066	1.29E-08	4.88E-08	Up
circRNA_2600 Chr13:95098506_95128782_-	92.9040408	167.87861	0.48776889	-1.03573035	-5.67901441	1.35E-08	5.11E-08	Down
circRNA_5176 Chr2:227293654_227302440_-	111.695033	35.9413814	2.73913826	1.45372209	5.67733468	1.37E-08	5.15E-08	Up
circRNA_4443 Chr19:43118177_43119064_-	137.174224	50.2133502	2.40784303	1.26774134	5.66648345	1.46E-08	5.46E-08	Up
circRNA_8377 Chr8:23851919_23884848_+	163.747668	65.7911764	2.19372573	1.13338317	5.66535112	1.47E-08	5.49E-08	Up
circRNA_3927 Chr17:84872804_84904355_+	100.223805	30.0302332	2.94162318	1.55661245	5.6567512	1.54E-08	5.76E-08	Up
circRNA_0163 Chr1:57709952_57712920_+	18.9186229	64.4237472	0.25883226	-1.94991068	-5.6526047	1.58E-08	5.88E-08	Down
circRNA_3451 Chr16:46839592_46850408_+	18.9186229	64.4237472	0.25883226	-1.94991068	-5.6526047	1.58E-08	5.88E-08	Down
circRNA_3013 Chr14:110683107_110691731_+	74.1123238	17.2852971	3.7791005	1.91804288	5.62989556	1.80E-08	6.68E-08	Up
circRNA_6539 Chr4:152937981_152938845_+	44.7612888	103.443387	0.38139475	-1.39064311	-5.62825733	1.82E-08	6.74E-08	Down
circRNA_5232 Chr2:247642373_247661088_-	38.0324237	93.7490879	0.35757061	-1.48369995	-5.6251167	1.85E-08	6.85E-08	Down
circRNA_4731 Chr2:61301866_61319541_+	37.8372457	93.4265929	0.35696354	-1.48615136	-5.62232165	1.88E-08	6.94E-08	Down
circRNA_9408 ChrX:21542111_21552121_+	76.9041932	18.6560843	3.63332613	1.86129087	5.62027435	1.91E-08	7.01E-08	Up
circRNA_0580 Chr1:186006551_186009525_+	112.9247	37.1398484	2.6799314	1.42219607	5.61530031	1.96E-08	7.20E-08	Up
circRNA_5803 Chr3:94710549_94724521_-	91.612472	25.9279456	3.11430651	1.63891094	5.61356732	1.98E-08	7.26E-08	Up
circRNA_5062 Chr2:198827042_198827471_+	112.726361	37.1317305	2.67580929	1.4199753	5.60376208	2.10E-08	7.66E-08	Up
circRNA_2886 Chr14:60581951_60586776_-	166.211329	68.0244375	2.15362717	1.10676851	5.59954965	2.15E-08	7.84E-08	Up
circRNA_2765 Chr14:17407714_17408515_-	46.3191642	105.164286	0.38821052	-1.3650889	-5.59532702	2.20E-08	8.01E-08	Down
circRNA_0423 Chr1:152902904_152910824_-	73.3384954	141.094907	0.45813716	-1.12614851	-5.57276141	2.51E-08	9.09E-08	Down
circRNA_6215 Chr4:42969247_42979647_-	90.9626003	25.9279456	3.09221454	1.62864042	5.56846917	2.57E-08	9.29E-08	Up
circRNA_3173 Chr15:45437783_45445017_+	54.9411943	116.285339	0.41643574	-1.26383421	-5.54377094	2.96E-08	1.06E-07	Down
circRNA_3389 Chr16:10920598_10925471_-	188.016481	82.1305667	2.01774351	1.0127428	5.53914833	3.04E-08	1.09E-07	Up

circRNA_5405 Chr20:27535432_27544812_-	146.387399	56.9714477	2.26475536	1.17935522	5.52963737	3.21E-08	1.15E-07	Up
circRNA_1307 Chr10:43227922_43231708_+	72.7300152	17.2852971	3.70861447	1.8908803	5.52410346	3.31E-08	1.18E-07	Up
circRNA_5067 Chr2:199909254_199920591_-	127.121609	45.9481011	2.43852197	1.28600697	5.51599336	3.47E-08	1.23E-07	Up
circRNA_5113 Chr2:210725271_210808107_-	94.2014876	27.9841265	2.96702267	1.56901595	5.51598637	3.47E-08	1.23E-07	Up
circRNA_7785 Chr6:125538240_125553497_-	144.607479	56.1244984	2.27097912	1.18331444	5.51058231	3.58E-08	1.26E-07	Up
circRNA_3564 Chr16:79729199_79747761_-	157.081603	63.6548506	2.17504717	1.12104669	5.50017484	3.79E-08	1.33E-07	Up
circRNA_4951 Chr2:177947848_177973555_-	97.8386001	30.0302332	2.87161612	1.5218629	5.4972667	3.86E-08	1.36E-07	Up
circRNA_8790 Chr8:114879150_114881851_+	75.1852758	18.6642023	3.55057117	1.82805113	5.48939457	4.03E-08	1.42E-07	Up
circRNA_0611 Chr1:193255702_193268499_-	75.0935788	18.6560843	3.54778395	1.82691816	5.48372242	4.16E-08	1.46E-07	Up
circRNA_1080 Chr1:278656261_278731755_+	54.9411943	115.238988	0.4202169	-1.2507939	-5.47418496	4.40E-08	1.54E-07	Down
circRNA_2432 Chr13:44907813_44937796_+	162.357591	67.1619637	2.13070866	1.09133334	5.47168302	4.46E-08	1.56E-07	Up
circRNA_5714 Chr3:60610877_60624155_-	127.155745	46.4719496	2.41168151	1.2700394	5.46333311	4.67E-08	1.63E-07	Up
circRNA_8543 Chr8:64724416_64749357_+	180.859084	78.6990741	2.0255621	1.01832231	5.45733181	4.83E-08	1.68E-07	Up
circRNA_4982 Chr2:185599195_185617434_+	88.6633884	158.539092	0.49292724	-1.02055339	-5.45221987	4.97E-08	1.73E-07	Down
circRNA_3966 Chr18:1337228_1354828_-	90.5399986	160.866011	0.49607924	-1.01135752	-5.45128392	5.00E-08	1.73E-07	Down
circRNA_1654 Chr10:89402919_89409533_-	74.576317	18.6560843	3.523346	1.81694616	5.44437378	5.20E-08	1.80E-07	Up
circRNA_1104 Chr10:590904_593608_-	44.7039602	100.708539	0.39125019	-1.35383665	-5.44096671	5.30E-08	1.83E-07	Down
circRNA_5286 Chr2:258977695_258991212_+	133.331183	50.294831	2.33659389	1.22440701	5.43624964	5.44E-08	1.87E-07	Up
circRNA_2371 Chr12:51494918_51495425_-	73.9171458	18.4756461	3.52630938	1.81815905	5.42273681	5.87E-08	2.01E-07	Up
circRNA_8524 Chr8:63689729_63707726_-	92.7732146	27.9963034	2.92076605	1.5463468	5.4161551	6.09E-08	2.09E-07	Up
circRNA_5591 Chr3:21721366_21756744_+	73.7344627	18.4756461	3.51759425	1.81458908	5.40874205	6.35E-08	2.17E-07	Up
circRNA_5023 Chr2:189226433_189230967_-	129.114907	48.1672435	2.36265033	1.24040613	5.40449513	6.50E-08	2.22E-07	Up
circRNA_5526 Chr3:8562492_8564186_+	46.3191642	102.417951	0.39862037	-1.32691266	-5.40298347	6.55E-08	2.23E-07	Down
circRNA_3934 Chr17:84888802_84922765_+	168.021044	71.5218864	2.07061606	1.05006007	5.39424166	6.88E-08	2.33E-07	Up
circRNA_8635 Chr8:73720946_73729461_+	73.4758318	18.4756461	3.50525594	1.80951979	5.38889595	7.09E-08	2.39E-07	Up
circRNA_2855 Chr14:44447026_44456717_+	73.3746614	18.4756461	3.50042948	1.80753194	5.38112198	7.40E-08	2.49E-07	Up
circRNA_5894 Chr3:122965449_122966421_+	91.7357965	27.9841265	2.88936188	1.53075091	5.34589567	9.00E-08	3.01E-07	Up
circRNA_7481 Chr6:29032002_29074704_+	72.6938491	136.537759	0.46926672	-1.09151996	-5.34543191	9.02E-08	3.02E-07	Down
circRNA_6778 Chr5:36043415_36046665_+	45.5432715	100.52809	0.39931135	-1.32441403	-5.34513324	9.04E-08	3.02E-07	Down
circRNA_3701 Chr17:24036947_24045965_-	73.2131409	18.6642023	3.45743851	1.78970359	5.33864666	9.36E-08	3.12E-07	Up
circRNA_7147 Chr5:149062724_149065190_+	28.6707013	76.1412958	0.33188904	-1.59122711	-5.33641133	9.48E-08	3.15E-07	Down
circRNA_9242 Chr9:92859987_92880445_+	47.813819	103.262949	0.40811614	-1.29294833	-5.31756796	1.05E-07	3.49E-07	Down

circRNA_6079 Chr3:175422379_175423144_-	75.5435257	20.0201555	3.32586535	1.73372976	5.30454855	1.13E-07	3.73E-07	Up
circRNA_0247 Chr1:91671407_91673515_+	79.8166171	144.877833	0.48558609	-1.04220101	-5.30261947	1.14E-07	3.77E-07	Down
circRNA_3736 Chr17:37911319_37913118_+	91.1236422	27.9963034	2.86883279	1.52046388	5.30166549	1.15E-07	3.78E-07	Up
circRNA_5093 Chr2:206563072_206570833_-	123.420798	45.9481011	2.36753081	1.2433832	5.29392051	1.20E-07	3.94E-07	Up
circRNA_3339 Chr16:2578902_2581762_-	54.8158399	112.33781	0.43008567	-1.21730402	-5.29073687	1.22E-07	4.01E-07	Down
circRNA_7854 Chr6:136081574_136093254_+	28.6707013	75.5440991	0.33451271	-1.57986705	-5.28789354	1.24E-07	4.06E-07	Down
circRNA_1364 Chr10:48659695_48684279_-	107.942558	37.3121687	2.54986431	1.35042048	5.27819934	1.30E-07	4.28E-07	Up
circRNA_3591 Chr17:718534_728329_+	29.1538271	76.1412958	0.33748165	-1.56711902	-5.27756397	1.31E-07	4.29E-07	Down
circRNA_7510 Chr6:43306391_43309313_+	17.1653372	57.151886	0.26472602	-1.91742809	-5.26488737	1.40E-07	4.58E-07	Down
circRNA_4868 Chr2:128599095_128636580_-	72.1638601	18.6560843	3.40936986	1.76950512	5.25880757	1.45E-07	4.73E-07	Up
circRNA_5927 Chr3:133012095_133050098_-	89.9597041	27.7134692	2.86109305	1.51656642	5.25774254	1.46E-07	4.75E-07	Up
circRNA_6056 Chr3:163592872_163594186_+	121.606123	45.2694236	2.36769271	1.24348186	5.25518204	1.48E-07	4.81E-07	Up
circRNA_6093 Chr4:632256_642336_+	55.4625161	112.146681	0.43590114	-1.19792713	-5.21958632	1.79E-07	5.79E-07	Down
circRNA_1510 Chr10:71297308_71306105_+	136.051164	54.2365893	2.21097967	1.14468576	5.20529788	1.94E-07	6.24E-07	Up
circRNA_0498 Chr1:169534353_169534828_-	36.6012219	86.0066042	0.37509273	-1.41468081	-5.19899918	2.00E-07	6.44E-07	Down
circRNA_4626 Chr2:34396320_34434762_+	101.758488	34.5705942	2.59441029	1.37540665	5.19703451	2.02E-07	6.51E-07	Up
circRNA_1165 Chr10:6858307_6858582_-	74.0590551	20.0201555	3.26051032	1.70509779	5.19112473	2.09E-07	6.69E-07	Up
circRNA_8360 Chr8:22509215_22513080_+	73.79024	20.0201555	3.24867551	1.69985165	5.17045032	2.34E-07	7.45E-07	Up
circRNA_1036 Chr1:266020777_266021582_+	28.3779343	73.246834	0.34148118	-1.550122	-5.13523755	2.82E-07	8.94E-07	Down
circRNA_1801 Chr11:15457479_15474826_+	139.585782	57.1344092	2.15336822	1.10659504	5.13079673	2.89E-07	9.14E-07	Up
circRNA_9281 Chr9:100065134_100067342_-	34.216017	81.7090443	0.36909162	-1.43794913	-5.13005691	2.90E-07	9.17E-07	Down
circRNA_0357 Chr1:137247124_137296230_+	73.2131409	20.0201555	3.22326826	1.68852426	5.12592387	2.96E-07	9.36E-07	Up
circRNA_8405 Chr8:33279134_33335423_+	70.3573057	18.6560843	3.32401949	1.73292884	5.11756598	3.10E-07	9.76E-07	Up
circRNA_6211 Chr4:38838812_38873762_-	92.1210666	30.0302332	2.70380341	1.43499026	5.10601488	3.29E-07	1.04E-06	Up
circRNA_3192 Chr15:51915280_51944899_-	110.259737	40.2032725	2.41729918	1.27339604	5.09788116	3.43E-07	1.08E-06	Up
circRNA_0632 Chr1:198965547_198972343_+	88.2046207	27.9841265	2.778142	1.47412034	5.09784718	3.44E-07	1.08E-06	Up
circRNA_3466 Chr16:49634130_49663240_-	102.686335	35.9413814	2.51821465	1.33240126	5.09527112	3.48E-07	1.09E-06	Up
circRNA_5852 Chr3:112825170_112832390_-	84.2942593	25.9279456	2.86552862	1.5188013	5.09500926	3.49E-07	1.09E-06	Up
circRNA_9351 Chr9:119615345_119617261_-	107.037251	38.4958016	2.45073547	1.29321477	5.08351206	3.71E-07	1.16E-06	Up
circRNA_4968 Chr2:183520240_183535861_-	19.4358847	58.8593568	0.29104736	-1.78067418	-5.0808832	3.76E-07	1.17E-06	Down
circRNA_6189 Chr4:28488037_28520904_+	157.791732	68.9509153	2.01706116	1.01225483	5.07236403	3.93E-07	1.22E-06	Up
circRNA_4226 Chr18:72593000_72611211_+	138.818004	57.4952857	2.12808229	1.08955394	5.05277094	4.35E-07	1.35E-06	Up

circRNA_4218 Chr18:71790177_71796719_-	36.5438932	83.9403636	0.38372388	-1.38185955	-5.0456208	4.52E-07	1.40E-06	Down
circRNA_3937 Chr17:85009878_85057912_-	146.977878	62.5668976	2.07053325	1.05000237	5.04489535	4.54E-07	1.40E-06	Up
circRNA_4279 Chr19:11455327_11456247_+	91.0949779	30.0302332	2.67368714	1.41883066	5.03439743	4.79E-07	1.48E-06	Up
circRNA_1831 Chr11:31974630_31979720_+	29.1538271	73.0731119	0.35165179	-1.50778054	-5.02578371	5.01E-07	1.54E-06	Down
circRNA_4565 Chr2:24125860_24161334_+	90.9284642	30.0302332	2.66879988	1.41619113	5.02273362	5.09E-07	1.56E-06	Up
circRNA_0746 Chr1:218836671_218844420_-	72.0492028	20.183117	3.14641353	1.6537083	5.01030256	5.43E-07	1.66E-06	Up
circRNA_9590 ChrX:137709443_137733342_-	101.027942	35.7609432	2.49004616	1.31617249	5.00645941	5.54E-07	1.69E-06	Up
circRNA_4767 Chr2:93460344_93495152_-	109.073505	40.366234	2.38163879	1.25195462	5.00356492	5.63E-07	1.72E-06	Up
circRNA_4391 Chr19:34270069_34298610_+	108.326543	40.040311	2.38458222	1.25373653	4.99195696	5.98E-07	1.82E-06	Up
circRNA_1686 Chr10:93464374_93483645_+	90.4453384	30.0302332	2.65461987	1.40850529	4.9888255	6.07E-07	1.85E-06	Up
circRNA_8459 Chr8:50468661_50469347_+	18.3973011	56.1244984	0.28891927	-1.79126169	-4.98178668	6.30E-07	1.91E-06	Down
circRNA_5830 Chr3:111513948_111523935_+	103.04778	37.3054526	2.43467607	1.28372984	4.95943316	7.07E-07	2.13E-06	Up
circRNA_0780 Chr1:221347566_221349792_-	102.330115	36.9512922	2.44089271	1.28740888	4.95313695	7.30E-07	2.20E-06	Up
circRNA_1972 Chr11:70130510_70156430_-	86.1008137	27.9841265	2.71187932	1.43929298	4.94745594	7.52E-07	2.26E-06	Up
circRNA_0543 Chr1:177521072_177569872_+	136.962876	57.5034036	2.09934674	1.06994047	4.94532641	7.60E-07	2.28E-06	Up
circRNA_2821 Chr14:37579854_37584371_+	75.6663716	133.615747	0.49913741	-1.00249105	-4.93212806	8.13E-07	2.43E-06	Down
circRNA_7420 Chr6:21942755_21944809_-	81.9784926	25.9279456	2.78680563	1.47861238	4.92576516	8.40E-07	2.51E-06	Up
circRNA_5453 Chr20:44854295_44866267_+	100.154228	35.9494994	2.45556423	1.29605456	4.9257126	8.41E-07	2.51E-06	Up
circRNA_6660 Chr4:183491269_183537970_-	36.279138	81.8720058	0.39056776	-1.35635524	-4.91276117	8.98E-07	2.67E-06	Down
circRNA_5597 Chr3:21834215_21904269_-	120.217177	47.7336247	2.21981597	1.15044008	4.91270032	8.98E-07	2.67E-06	Up
circRNA_3322 Chr16:2117271_2126628_-	65.4329651	120.464743	0.47875299	-1.06264659	-4.91263211	8.99E-07	2.67E-06	Down
circRNA_3968 Chr18:1655301_1680976_+	133.291821	55.6073766	2.1127395	1.0791149	4.91261076	8.99E-07	2.67E-06	Up
circRNA_6860 Chr5:75990187_76002878_-	25.6620128	66.5526705	0.33986003	-1.5569874	-4.91078035	9.07E-07	2.69E-06	Down
circRNA_5381 Chr20:19767793_19780300_-	51.4386828	102.347326	0.44298416	-1.17467299	-4.90926455	9.14E-07	2.71E-06	Down
circRNA_5767 Chr3:80670138_80732927_+	102.168174	37.3054526	2.4138939	1.27136227	4.90113785	9.53E-07	2.81E-06	Up
circRNA_3792 Chr17:63700912_63716786_+	44.7758136	93.2669895	0.42314614	-1.24077208	-4.89374221	9.89E-07	2.92E-06	Down
circRNA_1660 Chr10:90749189_90749801_-	130.6064	54.2365893	2.12249633	1.08576206	4.88718925	1.02E-06	3.01E-06	Up
circRNA_7479 Chr6:28727428_28733354_-	25.6620128	66.0356187	0.3425211	-1.54573525	-4.86579355	1.14E-06	3.34E-06	Down
circRNA_4250 Chr18:79525398_79532387_-	69.8359839	20.0201555	3.07458616	1.62039224	4.86135536	1.17E-06	3.41E-06	Up
circRNA_1492 Chr10:67705142_67711884_+	25.6620128	65.9797326	0.34281122	-1.54451378	-4.86091946	1.17E-06	3.41E-06	Down
circRNA_6883 Chr5:86427115_86450640_-	69.8073196	20.0201555	3.07332419	1.61979996	4.85907971	1.18E-06	3.44E-06	Up
circRNA_3979 Chr18:2005294_2038143_+	19.1138009	55.9440602	0.30113964	-1.73149545	-4.8578732	1.19E-06	3.46E-06	Down

circRNA_1825 Chr11:31727378_31733245_-	135.11493	57.3148474	2.07783501	1.0550811	4.85612158	1.20E-06	3.48E-06	Up
circRNA_2688 Chr13:113832448_113844645_-	47.5893242	96.4988503	0.43467259	-1.20199897	-4.8547725	1.21E-06	3.50E-06	Down
circRNA_0030 Chr1:6810305_6829781_-	66.664929	18.4756461	3.18033335	1.66917799	4.85151049	1.23E-06	3.56E-06	Up
circRNA_8944 Chr9:16047755_16051380_+	136.185852	58.0265367	2.06861753	1.04866693	4.85108078	1.23E-06	3.56E-06	Up
circRNA_2214 Chr12:24505864_24511621_-	64.2116984	17.2852971	3.2742525	1.71116558	4.84578874	1.26E-06	3.65E-06	Up
circRNA_8311 Chr7:141824553_141832801_+	38.8717694	84.4439027	0.4057335	-1.30139565	-4.83297658	1.35E-06	3.88E-06	Down
circRNA_8178 Chr7:114445792_114457012_-	83.8302662	27.7134692	2.66615141	1.41475871	4.81901306	1.44E-06	4.15E-06	Up
circRNA_2422 Chr13:41696246_41699674_-	63.8750896	17.2852971	3.2570883	1.70358283	4.81798029	1.45E-06	4.17E-06	Up
circRNA_0921 Chr1:251461620_251485480_+	84.3283954	27.9963034	2.65489899	1.40865697	4.81755581	1.45E-06	4.17E-06	Up
circRNA_3036 Chr14:115183821_115184780_+	19.4358847	55.9440602	0.3062141	-1.70738736	-4.81028994	1.51E-06	4.31E-06	Down
circRNA_0652 Chr1:200671013_200672411_-	66.1456372	18.4756461	3.15555989	1.65789601	4.80930729	1.51E-06	4.33E-06	Up
circRNA_7619 Chr6:78285568_78353348_+	25.7480057	65.4525406	0.34673042	-1.52811367	-4.80368466	1.56E-06	4.44E-06	Down
circRNA_9405 ChrX:20952577_20987315_+	63.6944365	17.2852971	3.24787652	1.69949679	4.80302222	1.56E-06	4.45E-06	Up
circRNA_4145 Chr18:49891333_49891588_-	103.276335	38.8473193	2.3432284	1.22849758	4.79701108	1.61E-06	4.58E-06	Up
circRNA_2729 Chr14:9201456_9202798_+	38.8717694	83.7841182	0.40892858	-1.2900792	-4.78156447	1.74E-06	4.93E-06	Down
circRNA_1384 Chr10:55419844_55436069_-	118.563777	48.1672435	2.16957712	1.11741387	4.76593933	1.88E-06	5.32E-06	Up
circRNA_4711 Chr2:56451097_56461055_+	83.0170763	27.7134692	2.64028858	1.40069563	4.75949744	1.94E-06	5.49E-06	Up
circRNA_8464 Chr8:53075010_53143722_-	64.0165204	116.196135	0.48559615	-1.0421711	-4.74865573	2.05E-06	5.78E-06	Down
circRNA_0337 Chr1:129142521_129149837_+	27.5959516	67.4986473	0.36035053	-1.47252713	-4.74624505	2.07E-06	5.84E-06	Down
circRNA_1342 Chr10:48165219_48200848_-	102.146533	38.6762398	2.32784599	1.21899562	4.74160048	2.12E-06	5.97E-06	Up
circRNA_4275 Chr19:10788035_10789787_-	25.6620128	64.6041854	0.35011033	-1.51411848	-4.74022477	2.13E-06	6.01E-06	Down
circRNA_0751 Chr1:219353460_219354165_+	116.744496	47.5599725	2.16356365	1.11340957	4.71555405	2.41E-06	6.76E-06	Up
circRNA_6358 Chr4:95892497_95912787_+	101.7228	38.6762398	2.31818943	1.21299846	4.71337188	2.44E-06	6.83E-06	Up
circRNA_9302 Chr9:111690153_111756949_+	54.418707	103.277067	0.46442884	-1.10647053	-4.70041553	2.60E-06	7.26E-06	Down
circRNA_5772 Chr3:80732031_80732927_+	82.6306406	27.9841265	2.60258081	1.37994296	4.69490838	2.67E-06	7.44E-06	Up
circRNA_0579 Chr1:185878823_185902595_+	62.2632347	17.2852971	3.17489736	1.66670995	4.68367491	2.82E-06	7.85E-06	Up
circRNA_2682 Chr13:110837569_110856315_-	62.2632347	17.2852971	3.17489736	1.66670995	4.68367491	2.82E-06	7.85E-06	Up
circRNA_9343 Chr9:117583609_117585639_+	64.9791562	18.6642023	3.06859443	1.61757798	4.68339842	2.82E-06	7.85E-06	Up
circRNA_6862 Chr5:75990187_76032992_-	64.7546613	18.6560843	3.05932347	1.61321265	4.66621228	3.07E-06	8.52E-06	Up
circRNA_7575 Chr6:72418120_72430205_-	101.256497	38.8392013	2.29788063	1.20030386	4.66358948	3.11E-06	8.63E-06	Up
circRNA_0884 Chr1:245926333_245937626_-	111.526736	44.9987663	2.184506	1.12730707	4.65526749	3.24E-06	8.97E-06	Up
circRNA_3336 Chr16:2297907_2304875_+	113.306177	46.1110626	2.16582476	1.11491652	4.65066268	3.31E-06	9.16E-06	Up

circRNA_3137 Chr15:36934315_36940208_+	57.5317614	106.337849	0.47686413	-1.06834982	-4.63576501	3.56E-06	9.82E-06	Down
circRNA_0848 Chr1:241126635_241139602_-	81.7650808	27.9963034	2.57419852	1.36412332	4.62938704	3.67E-06	1.01E-05	Up
circRNA_3997 Chr18:4217010_4246828_-	126.80565	54.5907496	2.04736089	1.03376543	4.62643547	3.72E-06	1.03E-05	Up
circRNA_0121 Chr1:37988341_37990001_-	64.1760109	18.6560843	3.03198522	1.60026272	4.61837878	3.87E-06	1.06E-05	Up
circRNA_0246 Chr1:91560398_91562180_-	54.6764391	102.433486	0.47047129	-1.08782141	-4.61717664	3.89E-06	1.07E-05	Down
circRNA_7667 Chr6:99935678_99947953_+	122.182744	51.8558912	2.07676152	1.05433556	4.61519638	3.93E-06	1.08E-05	Up
circRNA_4017 Chr18:14654702_14663398_+	128.337018	55.7097726	2.03046458	1.02180986	4.61000388	4.03E-06	1.10E-05	Up
circRNA_9141 Chr9:69859846_69868399_-	25.6620128	63.0596761	0.35868552	-1.47920861	-4.60300205	4.16E-06	1.14E-05	Down
circRNA_2604 Chr13:95167819_95196402_-	63.622583	18.4756461	3.03519445	1.60178895	4.60158996	4.19E-06	1.15E-05	Up
circRNA_2012 Chr11:79309778_79361614_-	84.8115212	30.2746755	2.46916558	1.30402359	4.5543074	5.26E-06	1.43E-05	Up
circRNA_7528 Chr6:49198513_49249731_-	111.301342	46.1110626	2.12750274	1.08916099	4.52299532	6.10E-06	1.65E-05	Up
circRNA_1388 Chr10:56008810_56009454_-	65.6283754	20.0201555	2.88934276	1.53074136	4.52159742	6.14E-06	1.66E-05	Up
circRNA_2543 Chr13:77000105_77051919_+	62.65128	18.6560843	2.95994956	1.56557259	4.49118238	7.08E-06	1.90E-05	Up
circRNA_8500 Chr8:60441497_60471827_-	108.133163	44.58403	2.13773783	1.09608493	4.4811139	7.43E-06	1.99E-05	Up
circRNA_7003 Chr5:126796181_126803679_+	57.6634864	104.293694	0.48732389	-1.03704714	-4.48071317	7.44E-06	1.99E-05	Down
circRNA_3314 Chr15:110234718_110265737_+	91.2243923	34.5705942	2.32583549	1.21774906	4.47730529	7.56E-06	2.02E-05	Up
circRNA_7825 Chr6:132439038_132439743_+	75.7025376	25.9279456	2.57345862	1.36370858	4.45341523	8.45E-06	2.25E-05	Up
circRNA_5194 Chr2:233693356_233713662_-	42.7700213	84.7873024	0.44461438	-1.16937348	-4.45221479	8.50E-06	2.26E-05	Down
circRNA_4249 Chr18:79516977_79532387_-	114.057045	48.5058794	2.07253843	1.05139885	4.44892283	8.63E-06	2.29E-05	Up
circRNA_8748 Chr8:103954818_103965378_+	64.6973327	20.0201555	2.84835285	1.51012788	4.44480207	8.80E-06	2.33E-05	Up
circRNA_7029 Chr5:128959422_128973060_+	29.1538271	66.2160569	0.38806736	-1.365621	-4.44116401	8.95E-06	2.36E-05	Down
circRNA_7982 Chr7:41167312_41167751_+	92.9117165	35.9413814	2.2785081	1.1880895	4.43118885	9.37E-06	2.47E-05	Up
circRNA_5160 Chr2:225359048_225371154_-	56.2304869	101.735916	0.48716088	-1.03752982	-4.42711327	9.55E-06	2.51E-05	Down
circRNA_5330 Chr20:5851258_5853847_-	82.5412059	30.0302332	2.42262928	1.27657366	4.41932946	9.90E-06	2.60E-05	Up
circRNA_3969 Chr18:1664670_1680976_+	34.2733457	72.9950697	0.41384511	-1.27283717	-4.41660467	1.00E-05	2.63E-05	Down
circRNA_7624 Chr6:80149001_80150524_-	28.3779343	64.7752649	0.38614146	-1.37279861	-4.41017687	1.03E-05	2.70E-05	Down
circRNA_8452 Chr8:50223084_50223234_+	82.4031243	30.0302332	2.41857651	1.27415818	4.40912139	1.04E-05	2.71E-05	Up
circRNA_7813 Chr6:129629703_129632684_+	99.6489821	40.2032725	2.18467239	1.12741695	4.40072334	1.08E-05	2.80E-05	Up
circRNA_0450 Chr1:162451867_162454337_+	94.4580886	37.3121687	2.23132854	1.15790295	4.37723326	1.20E-05	3.10E-05	Up
circRNA_8971 Chr9:30099113_30122634_-	109.124463	46.1891153	2.08236729	1.05822456	4.37472562	1.22E-05	3.13E-05	Up
circRNA_4844 Chr2:123576589_123600232_+	44.7039602	86.2362124	0.45691055	-1.13001635	-4.36867093	1.25E-05	3.21E-05	Down
circRNA_8837 Chr8:122024123_122038442_+	38.8717694	78.2789575	0.43768749	-1.19202694	-4.34370326	1.40E-05	3.57E-05	Down

circRNA_8943 Chr9:16045490_16046478_+	105.507294	44.58403	2.08582574	1.06061863	4.30954822	1.64E-05	4.15E-05	Up
circRNA_3385 Chr16:10782168_10789158_-	62.944047	20.0201555	2.77116302	1.47049158	4.2985127	1.72E-05	4.36E-05	Up
circRNA_7499 Chr6:38637079_38641066_+	63.1731147	20.183117	2.7587917	1.46403653	4.29222257	1.77E-05	4.48E-05	Up
circRNA_5254 Chr2:248779402_248781144_-	36.08396	73.9444046	0.43011415	-1.21720848	-4.29213487	1.77E-05	4.48E-05	Down
circRNA_6509 Chr4:150781208_150803194_-	102.847377	43.2132427	2.09773788	1.06883442	4.28173309	1.85E-05	4.68E-05	Up
circRNA_6229 Chr4:49207203_49232570_+	93.037071	37.3054526	2.19815633	1.13629399	4.27910378	1.88E-05	4.73E-05	Up
circRNA_5365 Chr20:13032443_13033377_+	92.2550883	36.9512922	2.20057187	1.13787849	4.26585208	1.99E-05	5.01E-05	Up
circRNA_1187 Chr10:13938652_13944844_+	62.291899	20.0201555	2.74245167	1.4554662	4.24352713	2.20E-05	5.50E-05	Up
circRNA_6013 Chr3:152966158_152973518_-	62.291899	20.0201555	2.74245167	1.4554662	4.24352713	2.20E-05	5.50E-05	Up
circRNA_5425 Chr20:31723610_31736111_-	92.4522963	37.3121687	2.18394687	1.12693776	4.23737565	2.26E-05	5.63E-05	Up
circRNA_5840 Chr3:112288444_112291953_-	89.8380237	35.7609432	2.21424709	1.14681622	4.23609485	2.27E-05	5.66E-05	Up
circRNA_5124 Chr2:211605377_211618826_-	35.5053096	72.3877182	0.43231796	-1.20983533	-4.22638565	2.37E-05	5.89E-05	Down
circRNA_5242 Chr2:247858119_247894081_-	36.5438932	73.6615703	0.43726901	-1.19340699	-4.21750963	2.47E-05	6.11E-05	Down
circRNA_1837 Chr11:33952127_33953096_+	38.2276017	75.8807127	0.44403838	-1.17124371	-4.21724039	2.47E-05	6.11E-05	Down
circRNA_8624 Chr8:72221714_72261300_-	55.1404322	97.4447571	0.49875418	-1.00359917	-4.2157561	2.49E-05	6.14E-05	Down
circRNA_3546 Chr16:71828773_71874158_+	109.03847	47.7336247	2.0134006	1.00963425	4.20748811	2.58E-05	6.37E-05	Up
circRNA_1382 Chr10:55349536_55362785_+	92.1658999	37.4684141	2.16810252	1.11643298	4.19900649	2.68E-05	6.61E-05	Up
circRNA_4872 Chr2:128619074_128668115_-	75.8656095	27.9841265	2.38950561	1.25671215	4.1853072	2.85E-05	6.98E-05	Up
circRNA_8541 Chr8:64635064_64648503_+	72.2484408	25.9279456	2.45603884	1.29633337	4.1842499	2.86E-05	7.00E-05	Up
circRNA_7607 Chr6:76576170_76608864_-	36.5438932	73.0663958	0.44083086	-1.18170288	-4.16768546	3.08E-05	7.51E-05	Down
circRNA_6405 Chr4:117036343_117049564_-	93.7535708	38.8392013	2.12761178	1.08923493	4.15136967	3.30E-05	8.04E-05	Up
circRNA_3212 Chr15:55100386_55104181_-	51.4386828	91.7305981	0.49425432	-1.01667452	-4.13418607	3.56E-05	8.63E-05	Down
circRNA_3962 Chr18:1318740_1325294_-	61.224651	20.183117	2.67370162	1.41883847	4.12725847	3.67E-05	8.88E-05	Up
circRNA_6871 Chr5:76711755_76753032_-	90.189903	36.9512922	2.15131075	1.10521593	4.12001505	3.79E-05	9.12E-05	Up
circRNA_4365 Chr19:32497327_32528958_-	38.0324237	74.433825	0.45035867	-1.15085367	-4.11865133	3.81E-05	9.17E-05	Down
circRNA_2748 Chr14:10877146_10878137_+	92.8678748	38.6587631	2.11734882	1.08225896	4.11021737	3.95E-05	9.50E-05	Up
circRNA_5481 Chr20:55272272_55286373_+	55.5198447	17.2852971	2.83104161	1.50133296	4.09975112	4.14E-05	9.91E-05	Up
circRNA_3780 Chr17:58006111_58023915_+	38.5496856	74.6782672	0.4549896	-1.13609454	-4.0829322	4.45E-05	0.00010614	Down
circRNA_2013 Chr11:79309778_79399831_-	54.9411943	17.2852971	2.80153535	1.48621769	4.04785859	5.17E-05	0.00012209	Up
circRNA_3357 Chr16:7126591_7138308_+	57.4683084	18.6560843	2.71508091	1.44099519	4.04551978	5.22E-05	0.00012312	Up
circRNA_1951 Chr11:68894558_68900825_-	89.5371024	37.3202866	2.11462286	1.08040039	4.03019933	5.57E-05	0.0001308	Up
circRNA_1777 Chr10:110651174_110653361_+	56.9469867	18.4756461	2.71672683	1.44186951	4.02896096	5.60E-05	0.00013139	Up

circRNA_7107 Chr5:144539229_144547479_-	91.0952101	38.6762398	2.0759943	1.05380248	3.98335745	6.79E-05	0.00015748	Up
circRNA_4925 Chr2:155894648_155956589_+	38.3545076	73.0893478	0.4625271	-1.1123902	-3.97126217	7.15E-05	0.00016441	Down
circRNA_6941 Chr5:106553499_106557722_+	25.6620128	56.1326164	0.40294919	-1.31133015	-3.96359438	7.38E-05	0.00016965	Down
circRNA_3250 Chr15:61634455_61651842_-	93.172856	40.2032725	2.04269187	1.0304716	3.9552982	7.64E-05	0.00017524	Up
circRNA_5727 Chr3:63896574_63899788_-	56.4297248	18.6560843	2.66601319	1.41468392	3.95358456	7.70E-05	0.00017637	Up
circRNA_3665 Chr17:10096739_10124159_+	86.2024627	35.9413814	2.11397461	1.07995805	3.95311857	7.71E-05	0.00017657	Up
circRNA_4240 Chr18:77466020_77489468_-	93.329838	40.366234	2.0378731	1.02706422	3.94786982	7.88E-05	0.00018035	Up
circRNA_6026 Chr3:155308522_155317713_+	53.7092304	17.2852971	2.73871563	1.45349947	3.93636552	8.27E-05	0.00018892	Up
circRNA_0406 Chr1:150830996_150866642_+	83.6118956	34.5705942	2.13174908	1.09203763	3.92857714	8.54E-05	0.00019469	Up
circRNA_6999 Chr5:124588622_124594190_-	55.7150227	18.4756461	2.65795446	1.41031638	3.91930418	8.88E-05	0.00020156	Up
circRNA_5735 Chr3:67719259_67755221_-	55.6576941	18.4756461	2.65521952	1.40883114	3.91416909	9.07E-05	0.00020574	Up
circRNA_1915 Chr11:57955724_57965693_-	55.5198447	18.4756461	2.64864325	1.40525354	3.90180964	9.55E-05	0.00021571	Up
circRNA_4088 Chr18:29409770_29412096_+	90.1525714	38.8392013	2.04589192	1.03272993	3.89765994	9.71E-05	0.00021911	Up
circRNA_6184 Chr4:28474639_28495139_+	55.7150227	18.6560843	2.63224721	1.39629499	3.88977827	0.00010034	0.00022532	Up
circRNA_5765 Chr3:80670138_80677335_+	82.9888905	34.5705942	2.11586509	1.08124764	3.88249391	0.00010339	0.00023183	Up
circRNA_3935 Chr17:84900262_84922765_+	85.0622301	35.9413814	2.08601226	1.06074764	3.8698954	0.00010888	0.00024359	Up
circRNA_7596 Chr6:75959532_75965681_-	92.1658999	40.366234	2.01245831	1.0089589	3.86612649	0.00011058	0.00024701	Up
circRNA_8530 Chr8:64141721_64145423_-	91.610442	40.040311	2.01661222	1.01193369	3.86383018	0.00011162	0.00024859	Up
circRNA_7772 Chr6:124625936_124629605_-	71.727119	27.9841265	2.2591574	1.17578479	3.86125698	0.00011281	0.00025104	Up
circRNA_5568 Chr3:13510410_13602354_+	82.6990523	34.5705942	2.10847544	1.07620022	3.86099119	0.00011293	0.00025112	Up
circRNA_2870 Chr14:45851180_45859905_-	28.6707013	58.8593568	0.42933635	-1.21981976	-3.83583952	0.00012514	0.00027661	Down
circRNA_5563 Chr3:13270114_13288615_-	84.190546	35.7609432	2.07505312	1.05314827	3.82746981	0.00012947	0.00028575	Up
circRNA_8180 Chr7:114466514_114468769_-	74.9898655	30.2746755	2.18322219	1.12645896	3.81494753	0.00013621	0.0002993	Up
circRNA_4404 Chr19:34750936_34752697_-	36.6012219	68.9509153	0.46787561	-1.09580307	-3.81061115	0.00013862	0.00030325	Down
circRNA_7712 Chr6:105694451_105703335_+	54.4812611	18.4756461	2.59909632	1.3780101	3.80814482	0.00014001	0.00030584	Up
circRNA_0035 Chr1:6834244_6853903_-	25.6620128	54.4251455	0.41559085	-1.26676421	-3.79943393	0.00014503	0.00031609	Down
circRNA_1135 Chr10:3172084_3207076_+	81.6991194	34.5705942	2.08298139	1.05864995	3.78649387	0.00015279	0.00033203	Up
circRNA_2999 Chr14:108078799_108093840_+	29.1538271	58.6789186	0.4379135	-1.19128218	-3.75889704	0.00017066	0.00036737	Down
circRNA_1537 Chr10:72329605_72332113_-	36.5438932	68.187399	0.47237352	-1.08199999	-3.75068111	0.00017635	0.00037852	Down
circRNA_0534 Chr1:177123077_177130995_+	66.469751	25.9279456	2.25959603	1.17606487	3.71775457	0.000201	0.00042894	Up
circRNA_8720 Chr8:94283953_94317785_-	37.315924	68.7704771	0.47826326	-1.06412312	-3.71594471	0.00020245	0.0004314	Down
circRNA_3886 Chr17:79625911_79635212_-	72.8230313	30.0302332	2.13739557	1.09585394	3.67673245	0.00023624	0.00049839	Up

circRNA_3119 Chr15:27768657_27769399_-	55.7150227	20.0201555	2.45289933	1.29448802	3.67035171	0.00024222	0.00051027	Up
circRNA_3327 Chr16:2138232_2142317_-	53.1919686	18.6560843	2.51304592	1.32943704	3.66086509	0.00025137	0.00052767	Up
circRNA_1365 Chr10:48670421_48684279_-	81.6564088	35.9413814	2.00249006	1.00179508	3.61767203	0.00029726	0.00061963	Up
circRNA_3598 Chr17:1395222_1416266_+	29.1538271	57.151886	0.44961404	-1.153241	-3.61495473	0.0003004	0.00062529	Down
circRNA_3211 Chr15:55046518_55060167_+	28.6707013	56.1244984	0.45025724	-1.15117863	-3.577186	0.00034731	0.00071789	Down
circRNA_2405 Chr13:35579757_35608096_-	54.4239325	20.0201555	2.39605803	1.26066285	3.55355401	0.00038006	0.00077987	Up
circRNA_4031 Chr18:16472884_16475633_-	54.4239325	20.0201555	2.39605803	1.26066285	3.55355401	0.00038006	0.00077987	Up
circRNA_5527 Chr3:8585788_8589420_+	53.7092304	20.0201555	2.36459268	1.24159169	3.48824894	0.0004862	0.00097767	Up
circRNA_5723 Chr3:62666948_62696889_+	65.9504592	27.7134692	2.09749912	1.06867021	3.42825042	0.00060748	0.00119719	Up

Supplementary table 5: The comparison between high-dose EWH treated and the control female SHR for identified DE-miRNA

miRNA_id	BaseMean_DESeq2_unpaired	BaseMean_control_C	BaseMean_case_H	FoldChange	log2FoldChange	p-value	q-value	Regulation
rno-miR-1-3p	15049.4346	9544.834	20554.0352	2.15340187	1.10661758	0.00333411	0.01972007	Up
rno-miR-1188-5p	4.42137214	0	8.84274429	48.211413	5.59130281	0.00064159	0.00565768	Up
rno-miR-1224	2.16512732	0.48508356	3.84517108	7.82351264	2.9678165	0.01089526	0.04892781	Up
rno-miR-124-3p	21.5933268	4.49748598	38.6891676	8.62100036	3.10785529	0.00029698	0.0035131	Up
rno-miR-127-3p	2960.11862	1250.40751	4669.82972	3.73476591	1.90101782	0.00063145	0.00565768	Up
rno-miR-127-5p	12.8910583	6.82609788	18.9560186	2.80397278	1.48747234	0.00903914	0.04215367	Up
rno-miR-129-5p	793.693993	233.413385	1353.9746	5.80079963	2.53625179	0.00368693	0.02128765	Up
rno-miR-134-5p	223.557253	87.7524975	359.362009	4.09682188	2.03450517	5.66E-05	0.00130735	Up
rno-miR-135b-5p	64.0995835	126.624663	1.57450357	0.01266716	-6.30276295	1.77E-06	0.00021417	Down
rno-miR-136-3p	79.8709355	45.2513816	114.490489	2.53305823	1.34088024	0.00237157	0.01513438	Up
rno-miR-137-3p	9.07962423	1.3198208	16.8394277	12.7504183	3.67247267	0.00854321	0.04134563	Up
rno-miR-137-5p	5.57040444	1.36181438	9.7789945	7.31686558	2.87122576	0.00388409	0.02216218	Up
rno-miR-138-2-3p	7.6375301	2.30413064	12.9709296	5.64980733	2.49820167	0.00328476	0.01966801	Up
rno-miR-138-5p	30.5232735	8.27218107	52.7743659	6.38650391	2.67502639	0.00106083	0.00791543	Up
rno-miR-141-3p	38.3414748	71.8882949	4.79465475	0.06661696	-3.90796673	8.64E-05	0.00153434	Down
rno-miR-17-5p	226.479324	353.056042	99.9026064	0.28296719	-1.82129331	8.86E-05	0.00153434	Down
rno-miR-18a-5p	15.3875018	25.6008227	5.17418097	0.20275805	-2.30216891	0.00427302	0.02382087	Down
rno-miR-200a-3p	418.201665	706.596376	129.806955	0.18372431	-2.44438552	0.00032601	0.00362174	Down
rno-miR-200b-3p	1573.73673	2980.29468	167.17877	0.05609923	-4.15587531	8.37E-06	0.00036893	Down
rno-miR-200b-5p	18.8854435	34.9510852	2.81980175	0.07989683	-3.64571799	0.00010524	0.00159034	Down
rno-miR-200c-3p	101.154966	170.963771	31.3461608	0.18358713	-2.44546314	0.00101143	0.00771381	Down
rno-miR-204-3p	89.5454171	45.1584983	133.932336	2.96919553	1.5700721	0.00041621	0.00420542	Up
rno-miR-204-5p	4598.70814	2373.01764	6824.39865	2.87595119	1.52403919	3.53E-05	0.0009513	Up
rno-miR-20a-5p	452.861054	706.294192	199.427916	0.28238301	-1.8242748	2.71E-05	0.00077329	Down
rno-miR-21-3p	14.843771	23.2383156	6.44922642	0.27752453	-1.8493128	7.76E-06	0.00036893	Down
rno-miR-23a-5p	11.0444156	14.9595426	7.12928851	0.47486971	-1.07439636	0.00842763	0.04134563	Down
rno-miR-298-5p	27.809833	11.1196999	44.4999662	4.01044999	2.00376412	0.00015311	0.00200695	Up
rno-miR-300-3p	94.6339576	40.5457758	148.722139	3.67194837	1.87654577	0.00012087	0.00171624	Up

rno-miR-3065-3p	35.404201	21.5110758	49.2973263	2.29700134	1.1997517	0.01049737	0.04803041	Up
rno-miR-3099	12.414956	3.40727144	21.4226406	6.36532803	2.67023486	0.0005839	0.00544603	Up
rno-miR-323-3p	365.917872	90.9728467	640.862898	7.0461494	2.81683507	3.00E-06	0.00027081	Up
rno-miR-323-5p	13.3445112	0.6859265	26.0030959	38.6525231	5.27249068	3.94E-06	0.00027327	Up
rno-miR-325-5p	135.284171	53.3079788	217.260364	4.07929069	2.02831832	8.11E-06	0.00036893	Up
rno-miR-329-3p	17.1720652	6.74531561	27.5988148	4.09996193	2.03561051	0.00173908	0.01171464	Up
rno-miR-338-3p	1393.29485	667.449831	2119.13987	3.17531451	1.6668995	1.00E-04	0.00159034	Up
rno-miR-338-5p	1817.90146	841.808686	2793.99424	3.31926923	1.73086565	1.74E-05	0.00056146	Up
rno-miR-341	16.0724728	4.87206277	27.2728829	5.63568475	2.49459091	0.00101791	0.00771381	Up
rno-miR-344b-1-3p	4.01924401	0.49046691	7.54802111	15.2455595	3.93031719	0.00147694	0.01038138	Up
rno-miR-3543	265.957707	127.466061	404.449352	3.17476151	1.66664822	0.00071699	0.00610073	Up
rno-miR-3557-3p	369.099765	592.078363	146.121167	0.24670574	-2.01913683	0.0107316	0.04864324	Down
rno-miR-3576	5.78184123	0.6611339	10.9025486	16.5280755	4.04684684	0.00033031	0.00362174	Up
rno-miR-3578	37.9457009	14.7467513	61.1446504	4.15456126	2.05469613	0.00068094	0.00589741	Up
rno-miR-363-3p	87.047403	49.8941899	124.200616	2.49295889	1.31785909	0.00949443	0.04385522	Up
rno-miR-369-3p	46.1152209	17.2589199	74.9715218	4.35143057	2.12148978	0.00010821	0.00159034	Up
rno-miR-369-5p	108.751442	43.7566638	173.746219	3.97536697	1.99108804	0.00013897	0.00187229	Up
rno-miR-370-3p	193.324168	66.710945	319.93739	4.79717568	2.26218527	0.00010591	0.00159034	Up
rno-miR-370-5p	2.27899647	0.32498298	4.23300996	11.9405505	3.57779745	0.00101267	0.00771381	Up
rno-miR-375-3p	580.95202	125.651375	1036.25266	8.24804577	3.04405234	0.00260744	0.01621291	Up
rno-miR-376b-3p	9.03638193	3.31032985	14.762434	4.47702271	2.16253964	0.0048667	0.02569639	Up
rno-miR-376b-5p	43.7214465	22.7413012	64.7015918	2.85025365	1.51109032	0.00492735	0.02569639	Up
rno-miR-379-3p	178.477269	100.371795	256.582744	2.5587705	1.35545075	0.00054969	0.0052911	Up
rno-miR-379-5p	1032.43471	548.454612	1516.41481	2.76523849	1.46740391	0.00119322	0.00863748	Up
rno-miR-380-3p	30.2592652	6.13434327	54.3841872	8.87509195	3.14976207	1.47E-05	0.0005494	Up
rno-miR-380-5p	24.4054757	6.25654973	42.5544017	6.80396449	2.76637561	0.00049657	0.00491498	Up
rno-miR-382-5p	361.971704	123.486888	600.456519	4.86374274	2.28206692	2.38E-05	0.00072289	Up
rno-miR-384-3p	55.4918481	21.6753227	89.3083735	4.12768632	2.04533334	9.78E-05	0.00159034	Up
rno-miR-384-5p	97.7838519	32.369276	163.198428	5.04687365	2.33538997	4.36E-05	0.00105727	Up
rno-miR-409a-3p	19.2864416	4.92189928	33.650984	6.89376336	2.78529178	7.78E-05	0.00145948	Up
rno-miR-409a-5p	34.4598918	11.2948572	57.6249265	5.10981523	2.35327112	0.00250835	0.01579932	Up
rno-miR-409b	1629.48944	394.53945	2864.43943	7.26043471	2.86005593	2.38E-07	0.0001154	Up

rno-miR-410-3p	53.4900503	20.4914701	86.4886305	4.22448962	2.07877705	0.00060405	0.00552758	Up
rno-miR-411-5p	392.596183	230.618275	554.57409	2.40577288	1.26650045	0.0018345	0.01218811	Up
rno-miR-412-5p	4.83806648	0.6859265	8.99020647	13.4662039	3.75127131	0.00084783	0.00695022	Up
rno-miR-431	41.0908816	14.7783761	67.4033871	4.57007716	2.19221852	0.00086498	0.00695022	Up
rno-miR-433-3p	242.604413	63.9500721	421.258754	6.58962152	2.72019561	1.10E-05	0.00044642	Up
rno-miR-433-5p	2.3408158	0.49652798	4.18510361	8.49784685	3.08709734	0.00352955	0.02062448	Up
rno-miR-434-3p	576.72647	271.014677	882.438263	3.25680505	1.70345736	0.00033604	0.00362174	Up
rno-miR-434-5p	448.973027	166.01824	731.927814	4.40960097	2.14064811	7.25E-05	0.00145948	Up
rno-miR-484	126.07511	170.57639	81.5738302	0.47825827	-1.06413819	0.00030751	0.00355103	Down
rno-miR-485-3p	67.1070864	25.7557269	108.458446	4.21739963	2.07635373	3.85E-05	0.00098347	Up
rno-miR-485-5p	43.8411458	12.9419764	74.7403153	5.78276387	2.53175919	0.00016908	0.00215801	Up
rno-miR-487b-3p	64.2813058	24.8724258	103.690186	4.17136259	2.06051872	0.00077089	0.00644627	Up
rno-miR-490-3p	18.9977828	7.11982522	30.8757403	4.34766626	2.1202412	0.00857082	0.04134563	Up
rno-miR-490-5p	18.8919245	4.17116875	33.6126803	8.07474604	3.01341689	0.00266216	0.0162833	Up
rno-miR-493-5p	73.6207562	21.8028034	125.438709	5.75956101	2.52595886	0.00012385	0.00171624	Up
rno-miR-495	160.906855	50.5456294	271.268081	5.37015569	2.42496392	8.75E-07	0.00014996	Up
rno-miR-496-3p	7.55885744	2.99603518	12.1216797	4.08575207	2.03060166	0.00870164	0.04137546	Up
rno-miR-539-5p	26.107594	11.2616111	40.953577	3.64702145	1.86671869	0.00157745	0.01092947	Up
rno-miR-540-3p	25.0643417	6.66842376	43.4602596	6.53682794	2.70859072	0.00039151	0.00412784	Up
rno-miR-541-5p	408.442118	203.48021	613.404026	3.01542327	1.59236053	0.00162959	0.0111317	Up
rno-miR-543-3p	48.5842633	15.2766188	81.8919079	5.3676785	2.42429826	7.82E-05	0.00145948	Up
rno-miR-592	6.1418348	11.6728142	0.61085542	0.05448136	-4.19809338	0.00861012	0.04134563	Down
rno-miR-6331	52.5801347	11.3655655	93.7947039	8.26996856	3.04788185	9.28E-07	0.00014996	Up
rno-miR-666-5p	1.35879632	0	2.71759264	14.9059495	3.89781637	0.00452494	0.02465839	Up
rno-miR-667-3p	2.47625754	0	4.95251508	27.1795942	4.76445201	0.00040038	0.00413162	Up
rno-miR-667-5p	1.74910588	0.16573523	3.33247653	13.1975751	3.72220097	0.0014733	0.01038138	Up
rno-miR-758-3p	11.1456236	1.9780137	20.3132336	10.2695214	3.36029704	6.68E-05	0.00145948	Up
rno-miR-7b	362.420203	36.6329079	688.207498	18.7864886	4.23162353	6.56E-06	0.00036893	Up
rno-miR-9a-3p	181.416514	108.671985	254.161044	2.33992373	1.2264615	0.00473608	0.02552224	Up
rno-miR-9a-5p	3711.34857	1557.23007	5865.46707	3.76672078	1.91330909	3.35E-06	0.00027081	Up