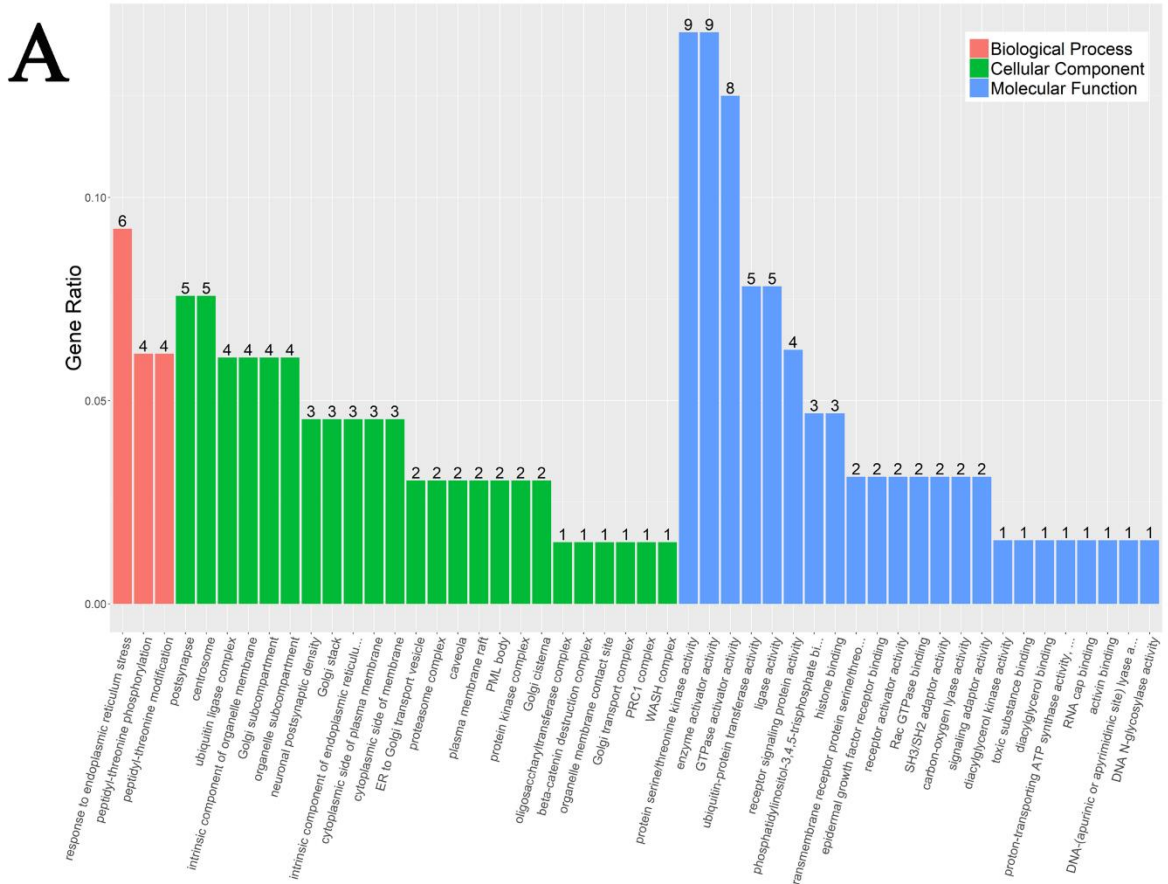


Figure-S1 GO analysis of the parent genes of 74 circRNAs and information of circPHC3 (hsa_circ_0001360) in circBase database. (A) The parent genes of 74 circRNAs were involved in different biological process, cellular component and molecular function. (B) Information of circPHC3 (hsa_circ_0001360) in circBase database.



B

circBase

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organism	position (genome browser link)	strand	circRNA ID	genomic length	spliced length	samples	scores	repeats	annotation	best transcript	gene symbol	circRNA study
hsa	chr 2:169662210-169667032	-	hsa_circ_0001360	3822	258	Hs68_control, Hs68_RNase, adipose, chondrocytes, LCL, MSC, platelets, vena_cava, Wt52, cd_34, HEK293, cerebellum, diencephalon, frontal_cortex, occipital_lobe, parietal_lobe, Sisy_exp1_D0, Sisy_exp1_D2, temporal_lobe, A549, Ag04450, B3, Gm12876, H1hesc, Helas3, Hepg2, Hsmm, Huvec, K562, Mcf7, Nhek, Nhek, Sinosir	45, 1108, 5, 2, 2, 2, 24, 2, 3, 16, 1, 67, 39, 39, 25, 14, 4, 8, 12, 257, 222, 372, 573, 469, 679, 917, 186, 306, 400, 1291, 253, 231, 299	None	ANNOTATED, CDS, coding, INTERNAL, OXCODE, OXEXON	NM_024947	PHC3	Jee-32013, Maass2017, Menszak2013, Rybak2015, Salzman2013

Supplementary material 1: all circRNAs were detected between non-OGD and OGD-treated cells

circRNA_ID	Gene	UTR_regio	hsa_circbase_ID	mouse_cons	Foldchang	PValue	FDR
chr1_100889	CDC14A	.	hsa_circ_0000097	mmu_circ_00	-39.0727	0.138659	0.4295538
chr1_113196	CAPZA1	.	hsa_circ_0000109		-79.0434	0.018242	0.3935075
chr1_114372	PTPN22	.	hsa_circ_0000110		-1.36413	0.871372	0.9822619
chr1_115862	SDF4	.	hsa_circ_0000002		-5.94416	0.376021	0.6561191
chr1_117944	MAN1A2	.	hsa_circ_0000116		-14.2177	0.076952	0.3935075
chr1_117944	MAN1A2	.	hsa_circ_0000117		-2.97293	0.272544	0.5403472
chr1_117944	MAN1A2	.	hsa_circ_0000118	mmu_circ_00	-1.4632	0.609822	0.8818461
chr1_117944	MAN1A2	.	hsa_circ_0000119	mmu_circ_00	1.676936	0.605604	0.8818461
chr1_140574	PRDM2	.	hsa_circ_0005986		-36.0408	0.1373	0.4295538
chr1_154223	UBAP2L	5UTR	hsa_circ_0004717		-123.766	0.053369	0.3935075
chr1_155408	ASH1L	5UTR	hsa_circ_0000137	mmu_circ_00	-1.36856	0.878763	0.9822619
chr1_155644	YY1AP1	.	hsa_circ_0003608		-2.6752	0.559965	0.851147
chr1_155646	YY1AP1	.	hsa_circ_0014606		-2.66199	0.524672	0.8194134
chr1_155691	DAP3	.	hsa_circ_0014613		-58.9457	0.069147	0.3935075
chr1_155823	GON4L	.	hsa_circ_0000139		-5.0758	0.355614	0.6334373
chr1_155874	RIT1	.	hsa_circ_0006575		-38.2111	0.148771	0.4295538
chr1_158607	DNAJC16	5UTR	hsa_circ_0000018		-12.3405	0.267414	0.5346369
chr1_158629	DNAJC16	.	hsa_circ_0002898		-35.4775	0.150388	0.4295538
chr1_171492	PRRC2C	.	hsa_circ_0015211		-18.9029	0.246608	0.5174221
chr1_172011	DNM3	.	hsa_circ_0111153	mmu_circ_00	-7.57207	0.310886	0.5700968
chr1_172011	DNM3	.	hsa_circ_0111154	mmu_circ_00	4.263436	0.468547	0.7594459
chr1_172037	DNM3	.	NA		-44.8877	0.111336	0.4295538
chr1_172520	SUCO	5UTR	hsa_circ_0000160		-1.00741	0.997111	1
chr1_173585	GNB1	5UTR	hsa_circ_0009353		-1.96081	0.779057	0.9500998
chr1_185183	SWT1	.	hsa_circ_0004689		-43.0213	0.087019	0.3994683
chr1_197611	DENND1B	5UTR	hsa_circ_0006324	mmu_circ_00	2.126393	0.714326	0.9239673
chr1_205585	ELK4	.	hsa_circ_0000175		-3.33002	0.40319	0.6842438
chr1_210762	HP1BP3	.	hsa_circ_0000023		-1.45028	0.874531	0.9822619
chr1_210836	HP1BP3	.	hsa_circ_0000024		1.395606	0.850731	0.9809982
chr1_210974	HP1BP3	.	hsa_circ_0005782		-1.38002	0.836492	0.9751426
chr1_212313	EIF4G3	3UTR,5UT	hsa_circ_0111887		-48.5515	0.093475	0.4114913
chr1_212679	EIF4G3	.	hsa_circ_0010474		-3.84861	0.516776	0.8128058
chr1_213292	EIF4G3	5UTR	hsa_circ_0007227		-92.9021	0.042315	0.3935075
chr1_213773	EIF4G3	5UTR	hsa_circ_0000026		-48.078	0.071086	0.3935075
chr1_220179	EPRS	.	hsa_circ_0007739		-1.31026	0.879608	0.9822619
chr1_229422	RAB4A	.	hsa_circ_0112310		-57.1545	0.135789	0.4295538
chr1_231090	TTC13	.	hsa_circ_0000195	mmu_circ_00	22.71735	0.078632	0.3935075
chr1_235963	LYST	.	hsa_circ_0017092		-1.77951	0.72983	0.9261669
chr1_243579	SDCCAG8	5UTR	hsa_circ_0017241	mmu_circ_00	1.137503	0.945442	1
chr1_246784	CNST	3UTR	hsa_circ_0017311		-1.2525	0.921464	0.9922398
chr1_247319	ZNF124	5UTR	hsa_circ_0112879		-2.79515	0.569808	0.8565903
chr1_248408	RCAN3	5UTR	hsa_circ_0003553		-6.77984	0.170997	0.436614
chr1_256669	TMEM50A	5UTR	hsa_circ_0000032	mmu_circ_00	11.10218	0.134597	0.4295538
chr1_294812	SRSF4	.	hsa_circ_0006602		1.862664	0.703475	0.9207335
chr1_314652	PUM1	.	hsa_circ_0000043	mmu_circ_00	22.30435	0.060786	0.3935075
chr1_323814	PTP4A2	.	hsa_circ_0007364		-73.2599	0.079833	0.3935075
chr1_334138	RNF19B	.	hsa_circ_0000048		-13.9638	0.234479	0.498086
chr1_337605	ZNF362	.	hsa_circ_0009027		-74.9041	0.057241	0.3935075
chr1_415362	SCMH1	5UTR	hsa_circ_0000061	mmu_circ_00	-48.0386	0.052997	0.3935075
chr1_461058	GPBP1L1	5UTR	hsa_circ_0008774		16.31987	0.143378	0.4295538
chr1_518681	EPS15	.	hsa_circ_0005567		-63.5669	0.121833	0.4295538
chr1_522934	NRD1	5UTR	hsa_circ_0009076		-4.3909	0.400521	0.6831823
chr1_591375	MYSM1	5UTR	hsa_circ_0012732		-153.834	0.016666	0.3935075
chr1_598056	FGGY	.	hsa_circ_0006633		51.2901	0.025548	0.3935075
chr1_658303	DNAJC6	.	hsa_circ_0002454	mmu_circ_00	-1.64581	0.63295	0.8889896
chr1_673568	WDR78	.	hsa_circ_0006677		-102.178	0.029226	0.3935075

chr1_674237:MIER1	5UTR	hsa_circ_0113954		-3.61459	0.340477	0.6144762
chr1_686704:CAMTA1	3UTR	hsa_circ_0008737		-44.3704	0.132387	0.4295538
chr1_741178: not_annot.		hsa_circ_0002333		-2.93922	0.536622	0.832311
chr1_783721:VAMP3	.	hsa_circ_0006354		1.305343	0.839895	0.9770202
chr1_860127:RERE	.	hsa_circ_0002158	mmu_circ_00	-44.6352	0.091595	0.409485
chr1_871603:RERE	.	hsa_circ_0114356	mmu_circ_00	1.200656	0.913307	0.9896314
chr1_943601:GCLM	5UTR	hsa_circ_0013222		-25.3506	0.170547	0.436614
chr1_999194:LZIC	.	hsa_circ_0000014		-95.5204	0.054308	0.3935075
chr10_10576:SLK	.	hsa_circ_0000259		-13.5446	0.280949	0.5513093
chr10_11235:SMC3	5UTR	hsa_circ_0000260		-42.7614	0.059512	0.3935075
chr10_12039:UPF2	.	hsa_circ_0000213	mmu_circ_00	-36.2074	0.151678	0.4295538
chr10_12127:RGS10	5UTR	hsa_circ_0005516		-1.63431	0.81736	0.9659961
chr10_12663:ZRANB1	.	hsa_circ_0000268	mmu_circ_00	4.294588	0.446427	0.7393605
chr10_16794:RSU1	5UTR	hsa_circ_0006577		-121.265	0.021631	0.3935075
chr10_17746:STAM	.	hsa_circ_0008311		64.08497	0.022372	0.3935075
chr10_22002:MLLT10	5UTR	hsa_circ_0007084		-45.1582	0.084359	0.3935075
chr10_22593:ZMYND11	.	hsa_circ_0008225	mmu_circ_00	11.52494	0.166487	0.4329925
chr10_22880:PIP4K2A	.	hsa_circ_0003583		-211.666	0.01246	0.3935075
chr10_28872:WAC	.	hsa_circ_0007503	mmu_circ_00	-38.904	0.146001	0.4295538
chr10_32740:CCDC7	.	hsa_circ_0093546		-1.04096	0.977775	1
chr10_32759:CCDC7	3UTR	hsa_circ_0002351		-13.542	0.289506	0.5513093
chr10_32832:CCDC7	3UTR	hsa_circ_0000233		-40.2805	0.004896	0.3935075
chr10_32854:CCDC7	.	hsa_circ_0008679		-113.679	0.01562	0.3935075
chr10_34558:PARD3	.	hsa_circ_0018168		-29.979	0.150876	0.4295538
chr10_48728:AKR1E2	3UTR	hsa_circ_0017523		-11.7621	0.286799	0.5513093
chr10_52193:SGMS1	5UTR	hsa_circ_0018401		88.42128	0.033491	0.3935075
chr10_52220:SGMS1	.	hsa_circ_0018403		-31.5564	0.166424	0.4329925
chr10_52279:SGMS1	.	hsa_circ_0018405		-1.60209	0.836085	0.9751426
chr10_54040:PRKG1	.	hsa_circ_0003030		-11.4279	0.295426	0.5536196
chr10_58368:GDI2	5UTR	hsa_circ_0002665		-40.3599	0.123807	0.4295538
chr10_70218:DNA2	.	hsa_circ_0009172		11.52487	0.166481	0.4329925
chr10_70719:DDX21	.	hsa_circ_0008865		-2.11683	0.691569	0.9195962
chr10_74468:MCU	.	hsa_circ_0000246		-12.3952	0.228815	0.4952837
chr10_78390:ATP5C1	.	hsa_circ_0007292		-81.6462	0.036398	0.3935075
chr10_86177:CCSER2	.	hsa_circ_0006956	mmu_circ_00	-1.79494	0.649154	0.8982026
chr10_86198:CCSER2	.	hsa_circ_0018998		-1.12154	0.948123	1
chr10_86223:CCSER2	.	hsa_circ_0094301		-23.968	0.222326	0.4889731
chr10_93711:BTAF1	.	hsa_circ_0019122		-10.0631	0.298637	0.5550753
chr10_98667:LCOR	3UTR	hsa_circ_0007707		1.112385	0.952872	1
chr11_10804:NPAT	5UTR	hsa_circ_0006208		-3.72906	0.506265	0.7997357
chr11_10809:ATM	.	hsa_circ_0024193	mmu_circ_00	-1.1533	0.949307	1
chr11_11000:ZC3H12C	.	hsa_circ_0005348	mmu_circ_00	-77.4133	0.071859	0.3935075
chr11_11845:ARCN1	.	hsa_circ_0005589		-26.4388	0.149605	0.4295538
chr11_12451:SIAE	5UTR	hsa_circ_0000367		1.886949	0.69988	0.9206109
chr11_12862:FLI1	.	hsa_circ_0000370	mmu_circ_00	-49.9732	0.108166	0.4295538
chr11_12863:FLI1	.	hsa_circ_0024834		-9.3227	0.160489	0.4295538
chr11_13013:ZBTB44	.	hsa_circ_0002484	mmu_circ_00	-68.5445	0.095257	0.4122947
chr11_18312:HPS5	.	hsa_circ_0000280		-1	1	1
chr11_33307:HIPK3	.	hsa_circ_0000284	mmu_circ_00	-2.38779	0.302835	0.5583264
chr11_34978:PDHX	.	hsa_circ_0021712		-33.1816	0.166143	0.4329925
chr11_46098:PHF21A	5UTR	hsa_circ_0000296	mmu_circ_00	2.201257	0.539321	0.834605
chr11_59426:PATL1	5UTR	hsa_circ_0004162		-13.553	0.257757	0.5290163
chr11_61133:TMEM138	5UTR	hsa_circ_0002058		-27.3666	0.124016	0.4295538
chr11_61205:SDHAF2	.	hsa_circ_0000311		1.092754	0.967874	1
chr11_68318:PPP6R3	.	hsa_circ_0007660		-61.1015	0.067274	0.3935075
chr11_72695:FCHSD2	.	hsa_circ_0005918		-38.0684	0.088703	0.4018082
chr11_73418:RAB6A	.	hsa_circ_0000339		1.69713	0.743616	0.9298042
chr11_77394:RSF1	.	hsa_circ_0000344		-22.0382	0.143586	0.4295538

chr11_773961	RSF1	.	hsa_circ_0002290		3.460202	0.527109	0.8212808
chr11_857071	PICALM	5UTR	hsa_circ_0023919		-43.5015	0.082943	0.3935075
chr11_857071	PICALM	5UTR	hsa_circ_0023923		1.952929	0.759433	0.944459
chr11_857181	PICALM	5UTR	hsa_circ_0023936		-5.13564	0.425392	0.7146585
chr11_857221	PICALM	5UTR	hsa_circ_0000347		-7.36574	0.207048	0.4752384
chr11_857331	PICALM	.	hsa_circ_0023942		-1.62537	0.722464	0.9249475
chr12_102431	CCDC53	.	hsa_circ_0002349		-1.97483	0.727517	0.9249475
chr12_109041	CORO1C	.	hsa_circ_0000437		-7.58406	5.10E-17	3.49E-14
chr12_111921	ATXN2	5UTR	hsa_circ_0002273		-17.1471	0.22573	0.4948707
chr12_111941	ATXN2	5UTR	hsa_circ_0002601		-165.402	0.041683	0.3935075
chr12_111991	ATXN2	.	hsa_circ_0002457	mmu_circ_00	-21.0422	0.065872	0.3935075
chr12_112111	BRAP	5UTR	hsa_circ_0006396		-35.4621	0.117882	0.4295538
chr12_112731	not_annot.	.	hsa_circ_0097431		2.809883	0.599694	0.880213
chr12_116661	MED13L	5UTR	hsa_circ_0000443		1.060596	0.954069	1
chr12_120991	RNF10	.	hsa_circ_0028899		-27.8446	0.179143	0.4504914
chr12_121221	SPPL3	.	hsa_circ_0003472		-1.56198	0.742988	0.9298042
chr12_121221	SPPL3	.	hsa_circ_0004479		-52.0065	0.072416	0.3935075
chr12_122211	RHOF	5UTR	hsa_circ_0000450		-1.17274	0.930224	0.9941765
chr12_124071	TMED2	.	hsa_circ_0000458		-50.1977	0.054455	0.3935075
chr12_129291	SLC15A4	3UTR	hsa_circ_0006689		1.637994	0.811537	0.9659961
chr12_207741	PDE3A	.	hsa_circ_0098130		-20.3235	0.233701	0.498086
chr12_271491	TM7SF3	5UTR	hsa_circ_0007683		-121.015	0.013518	0.3935075
chr12_284581	CCDC91	5UTR	hsa_circ_0007723		1.857699	0.623246	0.8845627
chr12_327511	FGD4	.	hsa_circ_0025843		-3.95306	0.364166	0.6435019
chr12_328611	DNM1L	.	hsa_circ_0025850		1.049408	0.980835	1
chr12_328631	DNM1L	.	hsa_circ_0025851		2.826438	0.623332	0.8845627
chr12_426041	YAF2	.	hsa_circ_0000392		-1	1	1
chr12_498901	SPATS2	5UTR	hsa_circ_0026154		-17.1106	0.265131	0.5343684
chr12_508211	LARP4	.	hsa_circ_0026228		2.300576	0.707274	0.9213169
chr12_690441	RAP1B	.	hsa_circ_0027463	mmu_circ_00	-101.459	0.02099	0.3935075
chr12_690441	RAP1B	3UTR	hsa_circ_0027464		-1.18291	0.834434	0.9751426
chr12_690471	RAP1B	.	hsa_circ_0008853		42.29674	0.03747	0.3935075
chr12_699831	CCT2	.	hsa_circ_0000418		-36.9856	0.117225	0.4295538
chr12_701931	RAB3IP	5UTR	hsa_circ_0000419		-1.28325	0.863366	0.9822619
chr12_898601	POC1B	.	hsa_circ_0027702		-1.11823	0.95284	1
chr12_938221	not_annot.	.	hsa_circ_0005616		40.31402	0.055436	0.3935075
chr12_967171	CDK17	.	hsa_circ_0002762		6.502236	0.322738	0.5871082
chr13_114801	RASA3	.	hsa_circ_0004790		-140.705	0.022197	0.3935075
chr13_114801	RASA3	.	hsa_circ_0004096		-59.6787	0.05058	0.3935075
chr13_217351	SKA3	5UTR	hsa_circ_0029696		1.094619	0.960306	1
chr13_269741	CDK8	.	hsa_circ_0003489		-125.374	0.027103	0.3935075
chr13_330911	N4BP2L2	.	hsa_circ_0000471	mmu_circ_00	-1.24442	0.695394	0.9195962
chr13_424391	VWA8	.	hsa_circ_0000478		-17.1181	0.255701	0.5268054
chr13_435281	EPSTI1	.	hsa_circ_0000479		-61.4871	0.042971	0.3935075
chr13_460901	COG3	5UTR	hsa_circ_0006607		-3.07707	0.620668	0.8844525
chr13_610131	TDRD3	.	hsa_circ_0004245		-72.5807	0.060526	0.3935075
chr13_610131	TDRD3	.	hsa_circ_0003441		-1.53356	0.799842	0.9631897
chr13_777001	MYCBP2	.	hsa_circ_0000495	mmu_circ_00	-23.5188	0.227425	0.4952603
chr13_958131	ABCC4	.	hsa_circ_0030586		-46.5023	0.129089	0.4295538
chr13_963751	DNAJC3	.	hsa_circ_0002473		-38.4761	0.066376	0.3935075
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chr13_998901	UBAC2	.	hsa_circ_0030720	mmu_circ_00	-1.55213	0.757929	0.9443053
chr14_102501	DYNC1H1	.	hsa_circ_0002398		-40.8331	0.14204	0.4295538
chr14_105921	not_annot	3UTR	NA		26.09961	0.061473	0.3935075
chr14_233751	RBM23	.	hsa_circ_0031241		-6.89924	0.159803	0.4295538
chr14_233781	RBM23	5UTR	hsa_circ_0000524		-8.60886	0.154624	0.4295538
chr14_311391	SCFD1	.	hsa_circ_0009140		-64.8751	0.044538	0.3935075
chr14_314041	STRN3	.	hsa_circ_0031446	mmu_circ_00	-3.21835	0.548151	0.8462255

chr14_314162STRN3	.	hsa_circ_0031447		-7.92706	0.187582	0.4519305
chr14_353312BAZ1A	5UTR	hsa_circ_0006137		1.178156	0.905896	0.9896314
chr14_396482PNN	.	hsa_circ_0101802		-2.22221	0.463266	0.7562473
chr14_455872FKBP3	.	hsa_circ_0101874		46.30562	0.01971	0.3935075
chr14_501300POLE2	.	hsa_circ_0008002		-15.3315	0.265004	0.5343684
chr14_501362POLE2	.	hsa_circ_0004904		-66.4667	0.09584	0.4122947
chr14_502922NEMF	.	hsa_circ_0101960		-1.58752	0.846792	0.9783882
chr14_506162SOS2	.	hsa_circ_0007695		-1.24035	0.915465	0.9896314
chr14_530032TXNDC16	.	hsa_circ_0031940		-23.9161	0.185209	0.4519305
chr14_597302DAAM1	.	hsa_circ_0102241		-8.40861	0.134496	0.4295538
chr14_660282FUT8	5UTR	hsa_circ_0003028	mmu_circ_00	-1.29923	0.812316	0.9659961
chr14_660822FUT8	5UTR	hsa_circ_0102436		-52.1413	0.075272	0.3935075
chr14_681512RDH11	.	hsa_circ_0006278		-75.7962	0.065278	0.3935075
chr14_911552TTC7B	.	NA		1.213767	0.937923	0.9985712
chr14_919472SMEK1	5UTR	hsa_circ_0003045		-1.05397	0.978822	1
chr14_972992VRK1	3UTR,5UT	hsa_circ_0000566		142.7664	0.004438	0.3935075
chr14_997232BCL11B	3UTR,5UT	hsa_circ_0033144	mmu_circ_00	1.909846	0.708498	0.9213169
chr14_999242SETD3	5UTR	hsa_circ_0000567		-3.44356	0.374635	0.6553708
chr15_256502UBE3A	5UTR	hsa_circ_0000586	mmu_circ_00	-81.5362	0.021824	0.3935075
chr15_256502UBE3A	.	hsa_circ_0005147		-15.5177	0.265622	0.5343684
chr15_292872APBA2	.	hsa_circ_0103250		-2.06675	0.687759	0.9188024
chr15_328192WHAMMF	.	NA		-46.2905	0.065153	0.3935075
chr15_419612MGA	.	hsa_circ_0000591	mmu_circ_00	-8.21659	0.283653	0.5513093
chr15_431202TTBK2	.	hsa_circ_0008319		-1.0084	0.996708	1
chr15_440462PDIA3	.	hsa_circ_0002151		-21.658	0.233979	0.498086
chr15_446202CASC4	.	hsa_circ_0035051		3.971939	0.468222	0.7594459
chr15_446242CASC4	5UTR	hsa_circ_0000596		-2.41157	0.652002	0.8982026
chr15_495282GALK2	.	hsa_circ_0008488		-1.47552	0.726171	0.9249475
chr15_592042SLTM	.	hsa_circ_0003713		-42.777	0.06215	0.3935075
chr15_592042SLTM	.	hsa_circ_0000605	mmu_circ_00	-2.83005	0.346236	0.6232246
chr15_599632BNIP2	.	hsa_circ_0104034		-33.1625	0.154278	0.4295538
chr15_622992VPS13C	.	hsa_circ_0000607		-2.66181	0.613257	0.8818461
chr15_638452USP3	.	hsa_circ_0008153	mmu_circ_00	-43.6735	0.11958	0.4295538
chr15_647912ZNF609	.	hsa_circ_0000615	mmu_circ_00	7.927642	0.220501	0.4865252
chr15_660442DENND4A	.	hsa_circ_0035957	mmu_circ_00	-5.90324	0.39921	0.6826499
chr15_684342PIAS1	.	hsa_circ_0008378	mmu_circ_00	-4.04902	0.485669	0.7804243
chr15_684672PIAS1	.	hsa_circ_0104358		-54.7016	0.116152	0.4295538
chr15_761522UBE2Q2	.	hsa_circ_0104568		-4.96952	0.439594	0.7298115
chr15_765662ETFA	5UTR	hsa_circ_0000638		-35.9869	0.133775	0.4295538
chr15_765802ETFA	.	hsa_circ_0000639		5.701165	0.438818	0.7298115
chr15_765842ETFA	.	hsa_circ_0003620		-1.12144	0.938715	0.9985712
chr15_775442PEAK1	5UTR	hsa_circ_0104613		-13.5419	0.289901	0.5513093
chr15_803902ZFAND6	3UTR	hsa_circ_0000642		1.897117	0.742207	0.9298042
chr15_804122ZFAND6	.	hsa_circ_0000643	mmu_circ_00	-28.7468	0.024059	0.3935075
chr15_852232SEC11A	.	hsa_circ_0000647		29.84823	0.027182	0.3935075
chr15_896562ABHD2	.	hsa_circ_0007099	mmu_circ_00	1.253862	0.818413	0.9659961
chr16_150912PDXDC1	.	hsa_circ_0038005		-25.0075	0.15643	0.4295538
chr16_162182ABCC1	.	hsa_circ_0000679		-3.79932	0.450781	0.744768
chr16_188092ARL6IP1	.	hsa_circ_0004833		21.24031	0.132266	0.4295538
chr16_223602CDR2	.	hsa_circ_0004682		-33.9568	0.144065	0.4295538
chr16_239992PRKCB	.	hsa_circ_0000681	mmu_circ_00	-1.23761	0.882257	0.9822619
chr16_240432PRKCB	.	hsa_circ_0000682	mmu_circ_00	-12.2449	0.22808	0.4952603
chr16_304952ITGAL	.	hsa_circ_0000690		-7.85164	0.139793	0.4295538
chr16_311022VKORC1	.	hsa_circ_0006719		27.80445	0.079396	0.3935075
chr16_475312PHKB	.	hsa_circ_0000698	mmu_circ_00	-59.5383	0.036087	0.3935075
chr16_475312PHKB	.	hsa_circ_0004791	mmu_circ_00	-1.27817	0.882321	0.9822619
chr16_532882CHD9	.	hsa_circ_0000702		-1.20924	0.91729	0.9896314
chr16_539072FTO	.	hsa_circ_0005941	mmu_circ_00	-67.2153	0.065516	0.3935075

chr16_67644:CTCF	.	hsa_circ_0002122		-1.92763	0.77358	0.9500998
chr16_67662:CTCF	5UTR	hsa_circ_0008272		-12.3363	0.271215	0.539276
chr16_68155:NFATC3	3UTR	hsa_circ_0000711	mmu_circ_00	4.364003	0.379562	0.6606121
chr16_69404:TERF2	.	hsa_circ_0105829	mmu_circ_00	-33.4193	0.146007	0.4295538
chr16_69703:NFAT5	5UTR	hsa_circ_0105838		-1.99304	0.777455	0.9500998
chr16_85667:GSE1	5UTR	hsa_circ_0000722	mmu_circ_00	-11.8411	0.002315	0.3935075
chr16_88008:BANP	.	hsa_circ_0040809	mmu_circ_00	1.628433	0.804561	0.9659961
chr16_90091:USP7	.	hsa_circ_0005152		-45.3282	0.058315	0.3935075
chr17_16004:NCOR1	5UTR	hsa_circ_0042174		-10.7633	0.266645	0.5346369
chr17_20107:SPECC1	.	hsa_circ_0000745	mmu_circ_00	1.28866	0.873265	0.9822619
chr17_22973:MNT	.	hsa_circ_0106416	mmu_circ_00	-2.64637	0.606166	0.8818461
chr17_26449:NLK	5UTR	hsa_circ_0002103		-52.652	0.118584	0.4295538
chr17_26490:NLK	5UTR	hsa_circ_0003638		-158.107	0.00529	0.3935075
chr17_35310:AATF	.	hsa_circ_0004751		-52.7476	0.053773	0.3935075
chr17_40879:EZH1	.	hsa_circ_0043898		-6.93911	0.290163	0.5513093
chr17_45438:EFCAB13	.	hsa_circ_0106983		-1.12999	0.923478	0.9922398
chr17_45479:EFCAB13	.	hsa_circ_0000778		-21.8439	0.027085	0.3935075
chr17_47388:ZNF652	.	hsa_circ_0003258		-1	1	1
chr17_48814:LUC7L3	5UTR	hsa_circ_0107040	mmu_circ_00	-13.9092	0.287071	0.5513093
chr17_49118:SPAG9	.	hsa_circ_0002605	mmu_circ_00	-1.78023	0.779345	0.9500998
chr17_49340:UTP18	.	hsa_circ_0002789		-3.96922	0.392608	0.6781403
chr17_54926:DGKE	.	hsa_circ_0000786		-1.90748	0.683807	0.9184392
chr17_57430:YPEL2	.	hsa_circ_0005600		-27.6811	0.092282	0.4098774
chr17_57808:VMP1	.	hsa_circ_0006508	mmu_circ_00	3.044731	0.59975	0.880213
chr17_58711:PPM1D	.	hsa_circ_0004958		-14.6758	0.243207	0.5150268
chr17_60106:MED13	.	hsa_circ_0045096		-14.713	0.2681	0.5346369
chr17_60111:MED13	.	hsa_circ_0004273		2.121065	0.668216	0.9122953
chr17_80521:FOXK2	5UTR	hsa_circ_0000816		2.851114	0.650128	0.8982026
chr18_12999:CEP192	.	hsa_circ_0000831		3.359712	0.589953	0.8753315
chr18_18562:ROCK1	.	hsa_circ_0107998		-18.9146	0.213782	0.4809695
chr18_19345:MIB1	5UTR	hsa_circ_0000835		-92.1054	0.044808	0.3935075
chr18_21644:TTC39C	.	hsa_circ_0000839		1.023531	0.989972	1
chr18_29691:RNF138	.	hsa_circ_0005729		-176.951	0.01759	0.3935075
chr18_39607:PIK3C3	.	hsa_circ_0007765		-2.79542	0.482002	0.7775685
chr18_45391:SMAD2	.	hsa_circ_0003694		-1.31792	0.908929	0.9896314
chr18_46889:DYM	5UTR	hsa_circ_0000849	mmu_circ_00	-7.68967	0.299475	0.5551237
chr18_51804:POLI	.	hsa_circ_0003428		-26.0486	0.182123	0.4519305
chr18_54423:WDR7	.	hsa_circ_0000852		-1	1	1
chr18_60206:ZCCHC2	5UTR	hsa_circ_0000854		-53.608	0.061874	0.3935075
chr18_67231:DOK6	.	hsa_circ_0108824		-13.5542	0.254944	0.5268054
chr18_67562:CD226	.	NA		3.637589	0.436446	0.72812
chr18_74561:ZNF236	.	hsa_circ_0004979		-4.63157	0.397257	0.681575
chr18_76886:ATP9B	.	hsa_circ_0007955		-1	1	1
chr18_77488:CTDP1	.	hsa_circ_0008435		1.606365	0.811685	0.9659961
chr18_91823:ANKRD12	3UTR	hsa_circ_0000826	mmu_circ_00	-1.36632	0.723246	0.9249475
chr18_95245:RALBP1	.	hsa_circ_0005158		-8.06071	0.183407	0.4519305
chr19_10274:DNMT1	.	hsa_circ_0109002		-9.9831	0.289958	0.5513093
chr19_13039:FARSA	.	hsa_circ_0000896	mmu_circ_00	-8.21087	0.292028	0.5522313
chr19_19603:GATAD2A	.	hsa_circ_0006804		4.156529	0.516916	0.8128058
chr19_21216:ZNF430	.	hsa_circ_0008838		1.679711	0.782052	0.950131
chr19_30476:URI1	5UTR	hsa_circ_0000921		-2.76647	0.502695	0.7977798
chr19_34921:UBA2	5UTR	hsa_circ_0005325		2.512101	0.624988	0.8850764
chr19_41089:SHKBP1	.	hsa_circ_0000936		-2.73898	0.599931	0.880213
chr19_47767:CCDC9	.	hsa_circ_0000944		2.38352	0.671145	0.9144683
chr19_50474:KDM4B	.	hsa_circ_0002926		-10.7351	0.288953	0.5513093
chr19_50902:POLD1	.	hsa_circ_0052012		6.470095	0.336649	0.6091742
chr19_55420:NCR1	5UTR	hsa_circ_0052166		-9.87676	0.321929	0.5871082
chr19_56045:SAFB2	.	hsa_circ_0000880		-2.60284	0.557369	0.851147

chr19_85202	HNRNPM	5UTR	hsa_circ_0006382		-58.5416	0.052325	0.3935075
chr2_101874	CNOT11	.	hsa_circ_0002401		-26.2345	0.18015	0.451366
chr2_106761	UXS1	.	hsa_circ_0004029		-1.82342	0.772571	0.9500998
chr2_109388	RANBP2	5UTR	hsa_circ_0006965		-2.08383	0.66464	0.9092269
chr2_114697	ACTR3	3UTR,5UT	hsa_circ_0008712		-1.47957	0.87138	0.9822619
chr2_120684	PTPN4	.	hsa_circ_0056247		-13.5467	0.274655	0.542873
chr2_144966	GTDC1	.	hsa_circ_0001072		-2.01327	0.711587	0.9235783
chr2_148653	ACVR2A	.	hsa_circ_0001073	mmu_circ_00	-242.517	0.000275	0.0626301
chr2_148730	ORC4	5UTR	hsa_circ_0001074		-2.01988	0.598178	0.880213
chr2_156290	NBAS	5UTR	hsa_circ_0000978		-7.79448	0.362847	0.6433345
chr2_156916	NBAS	.	hsa_circ_0003287		-30.6567	0.102096	0.4295538
chr2_168920	STK39	.	hsa_circ_0005882	mmu_circ_00	-3.92056	0.505988	0.7997357
chr2_169018	STK39	5UTR	hsa_circ_0001079	mmu_circ_00	3.027066	0.557972	0.851147
chr2_171884	TLK1	.	hsa_circ_0004442		-2.55848	0.559423	0.851147
chr2_171902	TLK1	.	hsa_circ_0004813		74.49171	0.032718	0.3935075
chr2_172782	HAT1	3UTR	hsa_circ_0008032		-1.40281	0.844237	0.9783882
chr2_183600	DNAJC10	3UTR,5UT	hsa_circ_0057256		11.18192	0.139408	0.4295538
chr2_191523	NAB1	5UTR	hsa_circ_0002024	mmu_circ_00	-93.2577	0.07684	0.3935075
chr2_201721	CLK1	.	hsa_circ_0004001		-1.31877	0.866307	0.9822619
chr2_202010	CFLAR	.	hsa_circ_0001092		-31.2923	0.105928	0.4295538
chr2_203329	BMPR2	3UTR	hsa_circ_0003218	mmu_circ_00	-92.7483	0.020718	0.3935075
chr2_206992	NDUFS1	5UTR	hsa_circ_0002431		-25.1512	0.187111	0.4519305
chr2_224758	WDFY1	.	hsa_circ_0001102		37.1688	0.06588	0.3935075
chr2_225400	CUL3	.	hsa_circ_0008309	mmu_circ_00	-54.756	0.075807	0.3935075
chr2_227729	RHBDD1	.	hsa_circ_0058493	mmu_circ_00	-96.1517	0.03539	0.3935075
chr2_227729	RHBDD1	.	hsa_circ_0058495		-1.27144	0.881884	0.9822619
chr2_227771	RHBDD1	.	hsa_circ_0058497	mmu_circ_00	-1.20925	0.892123	0.9842126
chr2_231120	SP140	.	NA		1.855121	0.744931	0.9298042
chr2_231307	SP100	3UTR	hsa_circ_0005116		66.16305	0.038199	0.3935075
chr2_231307	SP100	.	hsa_circ_0003922		-25.1642	0.175974	0.4457995
chr2_234296	DGKD	5UTR	hsa_circ_0001112	mmu_circ_00	-9.58849	0.073276	0.3935075
chr2_234296	DGKD	.	NA		-124.403	0.025573	0.3935075
chr2_239090	ILKAP	5UTR	hsa_circ_0001116		-41.7149	0.075711	0.3935075
chr2_240461	ATAD2B	5UTR	hsa_circ_0003828		-20.8688	0.153736	0.4295538
chr2_240929	NDUFA10	5UTR	hsa_circ_0001118		1.961491	0.724398	0.9249475
chr2_241035	ATAD2B	5UTR	hsa_circ_0052963	mmu_circ_00	6.811964	0.386795	0.6697913
chr2_241811	UBXN2A	5UTR	hsa_circ_0005970		2.903784	0.582998	0.8687817
chr2_241811	UBXN2A	.	hsa_circ_0052967		-17.1123	0.262964	0.533731
chr2_243579	FAM228B	.	hsa_circ_0007270	mmu_circ_00	1.385218	0.888539	0.9829606
chr2_243579	FAM228B	.	hsa_circ_0000982		-6.9895	0.187644	0.4519305
chr2_247867	NCOA1	.	hsa_circ_0000983		-31.7859	0.164717	0.4329925
chr2_264862	HADHB	3UTR	hsa_circ_0008257		46.75459	0.032035	0.3935075
chr2_307484	LCLAT1	.	hsa_circ_0000987		-58.799	0.109762	0.4295538
chr2_321429	MEMO1	.	hsa_circ_0007385		-8.5717	0.118338	0.4295538
chr2_333598	LTBP1	.	NA		-19.1593	0.182798	0.4519305
chr2_333598	LTBP1	.	NA		-61.8664	0.081575	0.3935075
chr2_334825	LTBP1	5UTR	hsa_circ_0053916		-2.03107	0.774163	0.9500998
chr2_375433	PRKD3	.	hsa_circ_0000992		-21.3038	0.066743	0.3935075
chr2_388127	HNRNPLL	.	hsa_circ_0054144		-51.2249	0.107805	0.4295538
chr2_406556	SLC8A1	5UTR	hsa_circ_0000994		-1.3715	0.868838	0.9822619
chr2_552096	RTN4	.	hsa_circ_0001006		-93.268	0.041277	0.3935075
chr2_583112	VRK2	.	hsa_circ_0120479	mmu_circ_00	-3.53035	0.464362	0.7562473
chr2_584257	FANCL	.	hsa_circ_0004435	mmu_circ_00	-3.07782	0.613682	0.8818461
chr2_584490	FANCL	.	hsa_circ_0001009		-5.06021	0.139665	0.4295538
chr2_617497	XPO1	.	hsa_circ_0001016		-3.2183	0.370631	0.6500306
chr2_617497	XPO1	.	hsa_circ_0001017	mmu_circ_00	-2.74394	0.171071	0.436614
chr2_640834	UGP2	.	hsa_circ_0001020		-41.1928	0.12023	0.4295538
chr2_648000	AFTPH	3UTR	hsa_circ_0006037		-2.07153	0.719667	0.9249475

chr2_687173%APLF .	hsa_circ_0055019		-68.5656	0.093849	0.4114913
chr2_729452%EXOC6B .	hsa_circ_0009043	mmu_circ_00	-29.2293	0.090352	0.4065857
chr2_834207%not_annot	hsa_circ_0121061	5UTR	-3.05155	0.561619	0.8517682
chr2_869921%RMND5A .	hsa_circ_0121121		-1.98957	0.780195	0.9500998
chr2_902814%MBOAT2 .	hsa_circ_0008847	mmu_circ_00	-5.0312	0.380569	0.6606837
chr2_904875%MBOAT2 .	hsa_circ_0000972	mmu_circ_00	-2.54555	0.301291	0.5569807
chr2_907994%MBOAT2 .	hsa_circ_0000973		-3.48782	0.354808	0.6334373
chr2_908331%MBOAT2 .	hsa_circ_0007334	mmu_circ_00	2.155117	0.453759	0.746084
chr2_992719%MGAT4A	NA	5UTR	-2.87785	0.582335	0.8687817
chr2_997860%MITD1	hsa_circ_0001050	5UTR	1.426482	0.766955	0.9500998
chr20_19359%not_annot.	NA		11.5328	0.16726	0.4329925
chr20_21319%XRN2 .	hsa_circ_0001134		-12.7395	0.157705	0.4295538
chr20_29449%PTPRA .	hsa_circ_0006117	mmu_circ_00	-5.63063	0.20357	0.4688269
chr20_34300%RBM39 .	hsa_circ_0008143		-1.58885	0.816635	0.9659961
chr20_34302%RBM39 .	hsa_circ_0004870		-58.2114	0.064713	0.3935075
chr20_34309%RBM39	hsa_circ_0001148	5UTR	-64.2225	0.071715	0.3935075
chr20_34317%RBM39	hsa_circ_0008817	5UTR	-23.5299	0.214032	0.4809695
chr20_34430%PHF20	hsa_circ_0005163	5UTR	-38.6819	0.139697	0.4295538
chr20_35695%RBL1	hsa_circ_0060238	3UTR	-1.45744	0.836855	0.9751426
chr20_39258%RNF24 .	hsa_circ_0005736		-56.6266	0.109521	0.4295538
chr20_39721%TOP1 .	hsa_circ_0115215		-2.34089	0.580305	0.8685526
chr20_45874%ZMYND8 .	hsa_circ_0005996		-36.1839	0.109145	0.4295538
chr20_47708%CSE1L .	hsa_circ_0008707		-48.7774	0.095308	0.4122947
chr20_57014%VAPB	hsa_circ_0001173	3UTR,5UT	-1.53553	0.662201	0.907706
chr20_58755%LOC28475	hsa_circ_0001174	5UTR	1.737156	0.725884	0.9249475
chr21_16340%NRIP1 .	hsa_circ_0001177		-34.7933	0.145889	0.4295538
chr21_16363%NRIP1 .	hsa_circ_0002711		1.884152	0.661475	0.907706
chr21_16386%NRIP1	hsa_circ_0004771	5UTR	-3.76342	0.050299	0.3935075
chr21_17135%USP25 .	hsa_circ_0001178		-1.27587	0.870404	0.9822619
chr21_17205%USP25	hsa_circ_0005238	5UTR	-17.1159	0.258321	0.5290163
chr21_34065%SYNJ1 .	hsa_circ_0007585		-36.0288	0.149367	0.4295538
chr21_36206%RUNX1	hsa_circ_0002360	5UTR	-3.72343	0.397585	0.681575
chr21_37711%MORC3 .	hsa_circ_0001189	mmu_circ_00	-1.50294	0.69264	0.9195962
chr21_38792%DYRK1A .	hsa_circ_0001190		-1.10002	0.956104	1
chr21_38792%DYRK1A	hsa_circ_0005955	5UTR	-12.3143	0.293877	0.5522313
chr21_40578%BRWD1 .	hsa_circ_0116009		15.3271	0.125408	0.4295538
chr21_46275%PTTG1IP .	hsa_circ_0001200		-5.1776	0.365027	0.6435019
chr21_46548%ADARB1 .	hsa_circ_0005037		3.138728	0.550541	0.8462255
chr21_47768%PCNT .	hsa_circ_0002903		-5.27186	0.289127	0.5513093
chr22_21288%CRKL .	hsa_circ_0001206	mmu_circ_00	-133.076	0.040304	0.3935075
chr22_22160%MAPK1 .	hsa_circ_0008870	mmu_circ_00	-23.5547	0.189484	0.4531704
chr22_29120%CHEK2 .	hsa_circ_0002931		2.750228	0.612663	0.8818461
chr22_32874%FBXO7 .	hsa_circ_0008832		1.680192	0.734299	0.9298042
chr22_46125%ATXN10 .	hsa_circ_0001247	mmu_circ_00	-1.37936	0.875492	0.9822619
chr3_101389%ZBTB11 .	hsa_circ_0003179	mmu_circ_00	-1	1	1
chr3_107429%BBX .	hsa_circ_0001324	mmu_circ_00	-21.46	0.156836	0.4295538
chr3_119219%TIMMDC1	hsa_circ_0001329	5UTR	-3.33361	0.427108	0.7146585
chr3_119219%TIMMDC1 .	hsa_circ_0006884		-18.7464	0.217513	0.4837091
chr3_119582%GSK3B .	hsa_circ_0008797		-151.147	0.019175	0.3935075
chr3_121563%EAF2 .	hsa_circ_0066970		-20.3463	0.20996	0.4803088
chr3_124996%ZNF148 .	hsa_circ_0006095	mmu_circ_00	-43.3509	0.128901	0.4295538
chr3_129599%TMCC1 .	hsa_circ_0001340		2.56596	0.649226	0.8982026
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chr3_138289%CEP70 .	hsa_circ_0004524		-50.6958	0.073092	0.3935075
chr3_141272%ASA2 .	hsa_circ_0005372	mmu_circ_00	-57.996	0.07442	0.3935075
chr3_142144%XRN1	hsa_circ_0067620	5UTR	-63.5229	0.073676	0.3935075
chr3_143513%SLC9A9 .	hsa_circ_0122311	mmu_circ_00	-34.9673	0.153501	0.4295538

chr3_1437043C3orf58	.	hsa_circ_0006731		4.591456	0.51852	0.8134576
chr3_1495637RNF13	.	hsa_circ_0067716		-1	1	1
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chr3_1521327MBNL1	5UTR	hsa_circ_0001349	mmu_circ_00	-1.04088	0.981719	1
chr3_1578398RSRC1	.	hsa_circ_0001355	mmu_circ_00	-1.64427	0.687729	0.9188024
chr3_1696947SEC62	.	hsa_circ_0001358		-1.53944	0.807122	0.9659961
chr3_1698542PHC3	3UTR	hsa_circ_0001359		-65.0442	0.042447	0.3935075
chr3_1698632PHC3	5UTR	hsa_circ_0001360		69.58975	0.032355	0.3935075
chr3_1719658FNDC3B	.	hsa_circ_0006156		-30.825	0.146918	0.4295538
chr3_1789213PIK3CA	.	hsa_circ_0122803		34.57404	0.06566	0.3935075
chr3_1791311GNB4	.	hsa_circ_0001364		-47.3961	0.082777	0.3935075
chr3_1794817USP13	5UTR	hsa_circ_0007541		-3.35257	0.62798	0.8874755
chr3_1829236MCF2L2	.	hsa_circ_0122934		2.467347	0.492769	0.7838459
chr3_1933748OPA1	5UTR	NA		2.023621	0.743027	0.9298042
chr3_1950633ACAP2	.	hsa_circ_0005400		1.371235	0.896252	0.9871765
chr3_1951017ACAP2	.	hsa_circ_0007331	mmu_circ_00	-157.474	0.036814	0.3935075
chr3_1961188UBXN7	5UTR	hsa_circ_0001380		-1.05146	0.92406	0.9922398
chr3_1962142RNF168	5UTR	hsa_circ_0123217		-1.22305	0.87985	0.9822619
chr3_1968317DLG1	.	hsa_circ_0008500		-29.9758	0.153216	0.4295538
chr3_1975417LRCH3	.	hsa_circ_0002266	mmu_circ_00	-15.3383	0.245861	0.5174221
chr3_1999229RAB5A	3UTR	hsa_circ_0123297		-1.09223	0.961058	1
chr3_3161788STT3B	.	hsa_circ_0001278	mmu_circ_00	-74.2419	0.034669	0.3935075
chr3_3182193TRNT1	.	hsa_circ_0123488		5.198549	0.489477	0.7804243
chr3_3717058LRRFIP2	.	hsa_circ_0003264		-114.975	0.050632	0.3935075
chr3_4359121ANO10	.	hsa_circ_0009084		-40.1011	0.142412	0.4295538
chr3_4713942SETD2	5UTR	hsa_circ_0001290		2.745426	0.531671	0.8265062
chr3_4937249USP4	.	hsa_circ_0001301		2.245857	0.564263	0.8538852
chr3_5010248RBM6	5UTR	hsa_circ_0006531		-1.17253	0.915009	0.9896314
chr3_5244682PHF7	.	hsa_circ_0004912		-1.7895	0.695074	0.9195962
chr3_5660062CCDC66	.	hsa_circ_0001312		-1.23341	0.887397	0.9829606
chr3_5662699CCDC66	5UTR	hsa_circ_0001313		-1.31728	0.883174	0.9822619
chr3_5666108FAM208A	.	hsa_circ_0001314		-24.2743	0.186541	0.4519305
chr3_5670372FAM208A	5UTR	hsa_circ_0001316		16.17603	0.063793	0.3935075
chr3_5677121ARHGEF3	.	hsa_circ_0124321		-113.605	0.051765	0.3935075
chr3_5787578SLMAP	.	hsa_circ_0002693	mmu_circ_00	-5.78523	0.363051	0.6433345
chr3_7109047FOXP1	.	hsa_circ_0008234	mmu_circ_00	-1	1	1
chr3_7173918EIF4E3	.	hsa_circ_0066535	mmu_circ_00	-94.446	0.075097	0.3935075
chr4_1036358MANBA	.	hsa_circ_0001432		-1.56454	0.806635	0.9659961
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chr4_1063678PPA2	5UTR	hsa_circ_0007477	mmu_circ_00	-6.99468	0.23121	0.498086
chr4_1104122SEC24B	.	hsa_circ_0001436		-17.1153	0.261159	0.5316451
chr4_1108621EGF	.	NA		-162.619	0.034284	0.3935075
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chr4_1205178PDE5A	3UTR	hsa_circ_0002474		-47.5086	0.105833	0.4295538
chr4_1289958LARP1B	.	hsa_circ_0001438		-42.0357	0.062448	0.3935075
chr4_1299133SCLT1	5UTR	hsa_circ_0001439	mmu_circ_00	-1.31021	0.643482	0.8982026
chr4_1400587ELF2	5UTR	hsa_circ_0007466		-53.1653	0.098264	0.4200782
chr4_1408108MAML3	.	hsa_circ_0125392	mmu_circ_00	-58.7471	0.083062	0.3935075
chr4_1444648SMARCA5	.	hsa_circ_0001445		-1.56698	0.063757	0.3935075
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chr4_1533322FBXW7	.	hsa_circ_0001451		-4.13231	0.285585	0.5513093
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chr4_362302(ARAP2 .	hsa_circ_0069399		-214.183	0.007	0.3935075
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chr4_424875(ATP8A1 .	hsa_circ_0069608		-12.3149	0.293077	0.5522313
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chr4_486866(FRYL .	hsa_circ_0002021	mmu_circ_0(-32.8672	0.119192	0.4295538
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chr4_562777(TMEM165 .	hsa_circ_0001414		1.733675	0.704011	0.9207335
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chr5_112321(DCP2 .	hsa_circ_0001520		-12.3568	0.25409	0.5268054
chr5_122881(CSNK1G3 3UTR	hsa_circ_0001522	mmu_circ_0(-1.86384	0.652641	0.8982026
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chr5_132227(AFF4 5UTR	hsa_circ_0001529		-45.9626	0.137297	0.4295538
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chr5_142264(ARHGAP2 .	hsa_circ_0074362	mmu_circ_0(-49.2491	0.083441	0.3935075
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chr5_167915(RARS 5UTR	hsa_circ_0001550		-1.47274	0.71729	0.9239673
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chr5_652844(ERBB2IP .	hsa_circ_0001492	mmu_circ_0(-4.1686	0.118555	0.4295538
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chr5_942040	MCTP1	.	hsa_circ_0006639		-15.5223	0.260361	0.5316027
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chr5_950910	RHOBTB3	.	hsa_circ_0007444		-5.5135	0.214467	0.4809695
chr6_111208	AMD1	.	hsa_circ_0005954		1.508622	0.738463	0.9298042
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chr6_129932	ARHGAP1	.	hsa_circ_0006887		-2.43327	0.697526	0.9195962
chr6_130505	SAMD3	.	hsa_circ_0008833		1.328141	0.878977	0.9822619
chr6_134301	TBPL1	.	hsa_circ_0077892	mmu_circ_00	1.059621	0.981125	1
chr6_135796	SIRT5	.	hsa_circ_0007218		2.214158	0.679601	0.9184392
chr6_136326	RANBP9	5UTR	hsa_circ_0001577	mmu_circ_00	-2.13335	0.599221	0.880213
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chr6_137015	MAP3K5	.	hsa_circ_0006554		-36.0762	0.110175	0.4295538
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chr6_139264	REPS1	.	hsa_circ_0004368		-2.53875	0.585326	0.8703548
chr6_144858	UTRN	5UTR	hsa_circ_0001647		-3.25502	0.488153	0.7804243
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chr6_146209	SHPRH	.	hsa_circ_0001649		-1	1	1
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chr6_157357	ARID1B	.	hsa_circ_0001658		-16.9716	0.192725	0.4566855
chr6_158994	TMEM181	.	hsa_circ_0004587		-60.7944	0.104103	0.4295538
chr6_159001	TMEM181	5UTR	hsa_circ_0001661		-65.7585	0.041877	0.3935075
chr6_159004	TMEM181	.	hsa_circ_0001663		-6.50252	0.24536	0.5174221
chr6_160467	IGF2R	3UTR,5UTR	hsa_circ_0131235		-1.13409	0.956855	1
chr6_163876	QKI	.	hsa_circ_0005328	mmu_circ_00	-1.98498	0.674707	0.9174939
chr6_163876	QKI	.	hsa_circ_0131264	mmu_circ_00	-1.26576	0.916397	0.9896314
chr6_182366	DEK	.	hsa_circ_0075796		-5.42305	0.189446	0.4531704
chr6_244166	MRS2	.	hsa_circ_0075835		1.674778	0.819119	0.9659961
chr6_307699	RIPK1	.	hsa_circ_0001571		-48.4082	0.057139	0.3935075
chr6_364831	STK38	.	hsa_circ_0131676		-1.72984	0.816049	0.9659961
chr6_426309	UBR2	.	hsa_circ_0002906		-1.65261	0.828696	0.9739313
chr6_474710	CD2AP	.	hsa_circ_0007936		-19.2998	0.211986	0.4809695
chr6_489194	CDYL	.	hsa_circ_0008285	mmu_circ_00	-1.55296	0.715012	0.9239673
chr6_622226	F13A1	5UTR	hsa_circ_0132015		7.797188	0.282974	0.5513093
chr6_730378	SSR1	5UTR	hsa_circ_0002947		1.171288	0.947071	1
chr6_744329	CD109	.	hsa_circ_0002465		-42.78	0.126979	0.4295538
chr6_763312	SENAP6	.	hsa_circ_0077078	mmu_circ_00	-2.72878	0.616775	0.8831459
chr6_764123	SENAP6	.	hsa_circ_0001614		-1.51773	0.779521	0.9500998
chr6_829205	IBTK	.	hsa_circ_0002041		11.41872	0.1568	0.4295538
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chr6_862676	SNX14	5UTR	hsa_circ_0001617		-39.5899	0.145587	0.4295538
chr6_879256	ZNF292	.	hsa_circ_0004058	mmu_circ_00	-21.6487	0.066704	0.3935075
chr7_101870	CUX1	.	hsa_circ_0006501		-1.11781	0.935456	0.9982091
chr7_102398	FAM185A	5UTR	hsa_circ_0007520		21.27721	0.057264	0.3935075
chr7_102962	DNAJC2	.	hsa_circ_0081751		-1.34643	0.881066	0.9822619
chr7_128655	TNPO3	.	hsa_circ_0001741	mmu_circ_00	-46.6857	0.058945	0.3935075
chr7_129760	KLHDC10	.	hsa_circ_0002190		-2.30468	0.682039	0.9184392
chr7_131060	MKLN1	.	hsa_circ_0001746	mmu_circ_00	-3.87592	0.572444	0.8586661
chr7_131113	MKLN1	.	hsa_circ_0082415		-22.4871	0.196238	0.4566855
chr7_138951	UBN2	5UTR	hsa_circ_0005594		-42.1464	0.139409	0.4295538
chr7_139415	HIPK2	.	hsa_circ_0001756	mmu_circ_00	-1.10306	0.952645	1
chr7_152007	KMT2C	.	hsa_circ_0001769		-2.91529	0.201613	0.4658897
chr7_152480	ACTR3B	.	hsa_circ_0006890	mmu_circ_00	-3.49448	0.613327	0.8818461
chr7_155465	RBM33	.	hsa_circ_0001772		-3.62016	0.185628	0.4519305
chr7_158552	ESYT2	.	hsa_circ_0001776		-4.68425	0.153858	0.4295538

chr7_158566(ESYT2 .	hsa_circ_0083220		-2.32278	0.684801	0.9184392
chr7_158580(ESYT2 .	hsa_circ_0001777	mmu_circ_00	-106.086	0.017826	0.3935075
chr7_162980(ISPD 5UTR	hsa_circ_0079480		1.138523	0.927019	0.9926685
chr7_179080(SNX13 5UTR	hsa_circ_0005519		1.763378	0.793356	0.9571512
chr7_236507(CCDC126 .	hsa_circ_0001684		-33.2046	0.160591	0.4295538
chr7_357070(HERPUD2 5UTR	hsa_circ_0001696	mmu_circ_00	-27.7978	0.166707	0.4329925
chr7_485417(not_annot.	hsa_circ_0001707		-19.2715	0.196295	0.4566855
chr7_507715(GRB10 .	hsa_circ_0134429		-20.3243	0.232743	0.498086
chr7_568078(RNF216 5UTR	hsa_circ_0079284		-14.8464	0.029336	0.3935075
chr7_593991(CCZ1 .	NA		-1.03206	0.989136	1
chr7_596301(CCZ1 5UTR	hsa_circ_0007177		75.59622	0.031721	0.3935075
chr7_640040(ZNF680 .	hsa_circ_0002566		11.4194	0.156858	0.4295538
chr7_684057(CCZ1B .	hsa_circ_0007135		1.379146	0.827247	0.9739015
chr7_685439(CCZ1B .	hsa_circ_0003943		-21.9581	0.192717	0.4566855
chr7_686371(CCZ1B .	NA		-1.91854	0.780638	0.9500998
chr7_770061(GSAP .	hsa_circ_0080831		-12.9946	0.254766	0.5268054
chr7_772003(PTPN12 .	hsa_circ_0008901		-29.8497	0.118702	0.4295538
chr7_772003(PTPN12 .	hsa_circ_0080835		-9.15047	0.297377	0.5550753
chr7_772107(PTPN12 .	hsa_circ_0008139	mmu_circ_00	-2.06508	0.636068	0.8915378
chr7_772107(PTPN12 5UTR	hsa_circ_0002458		1.745828	0.736109	0.9298042
chr7_772148(PTPN12 5UTR	hsa_circ_0003764		-1.04848	0.972331	1
chr7_825793(ICA1 .	hsa_circ_0079422	mmu_circ_00	4.470339	0.4163	0.7030842
chr7_919242(ANKIB1 .	hsa_circ_0135062	mmu_circ_00	22.05897	0.053064	0.3935075
chr7_996210(ZKSCAN1 .	hsa_circ_0001727	mmu_circ_00	-60.0724	0.067885	0.3935075
chr8_100286(VPS13B .	hsa_circ_0004366	mmu_circ_00	-26.0586	0.184469	0.4519305
chr8_101299(RNF19A .	hsa_circ_0085128		37.64538	0.052586	0.3935075
chr8_103372(UBR5 .	hsa_circ_0001819	mmu_circ_00	-37.7239	0.084188	0.3935075
chr8_106431(ZFPM2 .	hsa_circ_0003380	mmu_circ_00	-2.61175	0.569374	0.8565903
chr8_109462(EMC2 3UTR,5UT	hsa_circ_0135459		-72.291	0.08018	0.3935075
chr8_110422(PKHD1L1 .	NA		-1.07087	0.96674	1
chr8_110424(PKHD1L1 .	NA		-35.0066	0.128838	0.4295538
chr8_124346(ATAD2 .	hsa_circ_0085458		-17.1237	0.249121	0.5207801
chr8_124349(ATAD2 .	hsa_circ_0085465		1.383149	0.854788	0.9809982
chr8_125597(MTSS1 .	hsa_circ_0135681	mmu_circ_00	-1.31793	0.908912	0.9896314
chr8_131164(ASAP1 3UTR,5UT	hsa_circ_0001824		-124.059	0.014896	0.3935075
chr8_131164(ASAP1 3UTR,5UT	hsa_circ_0008934		2.098609	0.550455	0.8462255
chr8_141874(PTK2 5UTR	hsa_circ_0002483	mmu_circ_00	-3.6973	0.404144	0.6842438
chr8_142264(SLC45A4 3UTR	hsa_circ_0001829	mmu_circ_00	-5.38783	0.31947	0.5842717
chr8_171234(VPS37A .	hsa_circ_0136018		-62.3584	0.04181	0.3935075
chr8_178298(PCM1 .	hsa_circ_0136059		-5.70804	0.293798	0.5522313
chr8_178687(PCM1 .	hsa_circ_0083465		-2.20088	0.682741	0.9184392
chr8_186568(PSD3 .	hsa_circ_0004458	mmu_circ_00	-4.08011	0.48845	0.7804243
chr8_223324(PPP3CC .	hsa_circ_0083619	mmu_circ_00	2.632222	0.68008	0.9184392
chr8_280134(ELP3 .	hsa_circ_0001785	mmu_circ_00	-1.44482	0.853712	0.9809982
chr8_299594(LEPROTL1 .	hsa_circ_0007353		1.200968	0.90447	0.9896314
chr8_376230(PROSC .	hsa_circ_0001788		-2.58335	0.47526	0.7685055
chr8_377346(RAB11FIP1 .	hsa_circ_0001789		-1.58688	0.843571	0.9783882
chr8_379717(ASH2L .	hsa_circ_0001790		-5.42885	0.350338	0.6273067
chr8_379717(ASH2L .	hsa_circ_0006302		-2.50051	0.607111	0.8818461
chr8_427613(HOOK3 5UTR	hsa_circ_0084143		-1.22325	0.871661	0.9822619
chr8_427806(HOOK3 5UTR	hsa_circ_0005376		-2.11546	0.701875	0.9207335
chr8_483089(SPIDR .	hsa_circ_0001798		-26.087	0.133765	0.4295538
chr8_527582(PCMTD1 3UTR	hsa_circ_0136721	mmu_circ_00	4.56946	0.427332	0.7146585
chr8_527734(PCMTD1 .	hsa_circ_0001801	mmu_circ_00	-12.2109	7.30E-06	0.002495
chr8_568544(LYN .	hsa_circ_0084546		-23.5486	0.194905	0.4566855
chr8_625315(ASPH 5UTR	hsa_circ_0084606		1.065971	0.972335	1
chr8_710717(NCOA2 5UTR	hsa_circ_0001810		-181.192	0.031312	0.3935075
chr8_711261(NCOA2 5UTR	hsa_circ_0137069	mmu_circ_00	-1.23277	0.773023	0.9500998

chr8_745853:STAU2	.	hsa_circ_0001811	mmu_circ_00	-84.395	0.012153	0.3935075
chr8_997186:STK3	.	hsa_circ_0004592		-73.1137	0.08457	0.3935075
chr9_102677:STX17	.	hsa_circ_0004825	mmu_circ_00	-14.2457	0.17206	0.4375053
chr9_110062:RAD23B	.	hsa_circ_0008812		-65.0665	0.08869	0.4018082
chr9_111812:TMEM245	.	hsa_circ_0087905		-1.65727	0.793428	0.9571512
chr9_114148:KIAA0368	5UTR	hsa_circ_0001882		-113.037	0.024337	0.3935075
chr9_114840:SUSD1	5UTR	hsa_circ_0088036		1.081302	0.974643	1
chr9_114842:SUSD1	.	hsa_circ_0088042		-133.386	0.045034	0.3935075
chr9_123924:CNTRL	.	hsa_circ_0001885		-1.05002	0.983739	1
chr9_123924:CNTRL	.	hsa_circ_0088333		-2.26872	0.629813	0.8882316
chr9_172262:CNTRLN	.	hsa_circ_0138339	mmu_circ_00	23.17125	0.10971	0.4295538
chr9_209236:FOCAD	.	hsa_circ_0008678		-53.9669	0.126126	0.4295538
chr9_332711:CHMP5	.	hsa_circ_0003575		11.46597	0.160942	0.4295538
chr9_339532:UBAP2	5UTR	hsa_circ_0001847		1.681857	0.778398	0.9500998
chr9_339867:UBAP2	5UTR	hsa_circ_0086735		-23.738	0.193907	0.4566855
chr9_371263:ZCCHC7	.	hsa_circ_0138744		-39.5888	0.143921	0.4295538
chr9_374248:GRHPR	.	hsa_circ_0001861		1.459899	0.853845	0.9809982
chr9_482354:RCL1	5UTR	hsa_circ_0006134		-13.5564	0.249731	0.5207801
chr9_486012:RCL1	.	hsa_circ_0007592		-37.9922	0.146474	0.4295538
chr9_642091:UHRF2	.	hsa_circ_0002359	mmu_circ_00	-6.22963	0.275405	0.542873
chr9_688001:KDM4C	.	hsa_circ_0001839	mmu_circ_00	1.193564	0.910654	0.9896314
chr9_776311:C9orf41	.	hsa_circ_0004189		-22.485	0.201509	0.4658897
chr9_798292:VPS13A	.	hsa_circ_0087243		-2.15977	0.691869	0.9195962
chr9_799968:VPS13A	.	hsa_circ_0008075		-3.71709	0.327758	0.594659
chr9_804093:GNAQ	.	hsa_circ_0006459		70.98372	0.011998	0.3935075
chr9_804093:GNAQ	5UTR	hsa_circ_0087264	mmu_circ_00	-27.896	0.121819	0.4295538
chr9_862978:UBQLN1	5UTR	hsa_circ_0005142		-2.18994	0.600964	0.880213
chr9_882338:AGTPBP1	.	hsa_circ_0001868	mmu_circ_00	-3.61835	0.524712	0.8194134
chr9_882843:AGTPBP1	.	hsa_circ_0087391	mmu_circ_00	-2.53011	0.648147	0.8982026
chr9_889180:ZCCHC6	.	hsa_circ_0007037		-3.59066	0.553418	0.8487399
chr9_889201:ZCCHC6	.	hsa_circ_0001869		-4.23062	0.460389	0.7533643
chr9_889579:ZCCHC6	.	hsa_circ_0139266		-18.7462	0.21769	0.4837091
chr9_962334:FAM120A	3UTR,5UT	hsa_circ_0001875	mmu_circ_00	-21.9721	0.181688	0.4519305
chr9_992206:HABP4	.	hsa_circ_0087630		-41.3809	0.14027	0.4295538
chr9_992206:HABP4	.	hsa_circ_0087631		2.259548	0.683207	0.9184392
chrUn_gl0002:not_annot.		NA		3.799334	0.141397	0.4295538
chrUn_gl0002:not_annot.		NA		2.960745	0.29815	0.5550753
chrUn_gl0002:not_annot.		NA		7.90209	0.310605	0.5700968
chrX_113858:not_annot.		NA		-143.885	0.010649	0.3935075
chrX_117788:DOCK11	5UTR	hsa_circ_0007733		-12.3659	0.219674	0.4862685
chrX_138897:ATP11C	.	hsa_circ_0002372	mmu_circ_00	-1	1	1
chrX_171519:REPS2	.	hsa_circ_0089973		-11.7576	0.212665	0.4809695
chrX_536414:HUWE1	.	hsa_circ_0004396		23.09318	0.10315	0.4295538
chrX_536414:HUWE1	.	hsa_circ_0007817		-48.3712	0.053311	0.3935075
chrX_769076:ATRX	.	hsa_circ_0001932		-77.6717	0.029077	0.3935075
chrX_799629:BRWD3	.	hsa_circ_0001936		-31.7607	0.161397	0.4295538
chrX_843221:APOOL	.	hsa_circ_0140676		-1.06224	0.975022	1
chrY_217490:TXLNGY	.	hsa_circ_0009024		-1.16669	0.927361	0.9926685