

## SUPPLEMENTARY MATERIAL

### ***LncIRS1* controls muscle atrophy via sponging miR-15 family to activate IGF1-PI3K/AKT pathway**

Journal name: Journal of Cachexia, Sarcopenia and Muscle

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**Table S1. Differential expression analysis of lncRNAs in breast muscle between hypertrophic and leaner broilers.**

Transcript_id	Locus	WRR-FPKM	XH-FPKM	Log2(WRR/XH)	q value
TCONS_00001714	1:133447394-133448018	0	20.3823	-5	0.00065227
TCONS_00001934	1:168787042-168796284	0	13.8781	-5	0.00065227
TCONS_00003147	1:78236353-78240171	0	13.4177	-5	0.00065227
TCONS_00028370	13:15349797-15351419	0	23.8278	-5	0.00065227
TCONS_00039385	2:45686578-45708665	0	35.5296	-5	0.00065227
TCONS_00056274	21:2569093-2570533	0	13.4858	-5	0.00065227
TCONS_00064342	3:91425576-91442751	0	52.8614	-5	0.00065227
TCONS_00075810	4:48734892-48748585	0	30.3253	-5	0.00065227
TCONS_00075876	4:52554346-52557441	0	33.9589	-5	0.00065227
TCONS_00092129	6:24654609-24655893	0	30.6196	-5	0.00065227
TCONS_00092802	6:31454808-31489231	0	101.693	-5	0.00065227
TCONS_00097707	7:35811781-35812860	0	14.6875	-5	0.00065227
TCONS_00045553	2:40454398-40457644	2.0953	16.8451	-3.007100268	0.00065227
TCONS_00091420	5:54103495-54105791	3.54081	17.8504	-2.333805067	0.00065227
TCONS_00040147	2:129038942-129055865	29.2494	146.362	-2.323062099	0.00065227
TCONS_00092559	6:19317132-19330281	10.2362	44.4051	-2.117045141	0.00065227
TCONS_00039409	2:47688331-47711788	8.00685	31.8777	-1.993240857	0.00065227
TCONS_00012640	1:94456175-94460691	7.2516	28.8383	-1.991614868	0.00065227
TCONS_00022108	10:10437509-10440564	7.83267	30.5995	-1.965931997	0.00065227
TCONS_00012708	1:95369162-95373029	3.91098	14.1338	-1.853547336	0.00065227
TCONS_00057772	23:2106201-2106706	21326.7	76934.5	-1.850969949	0.00065227
TCONS_00046750	2:53053026-53055471	5.92657	20.679	-1.802897129	0.00065227
TCONS_00013296	1:105247815-105249854	5.78851	19.577	-1.75789576	0.00065227
TCONS_00012643	1:94463449-94467909	6.23131	20.6642	-1.729526116	0.00065227
TCONS_00012642	1:94461122-94463207	5.63648	18.2606	-1.695867788	0.00065227
TCONS_00010966	1:74538575-74540632	6.57829	20.5863	-1.645900041	0.00065227
TCONS_00076040	4:62696168-62704356	46.4583	135.168	-1.540745376	0.00065227
TCONS_00012639	1:94453496-94456124	9.42448	26.357	-1.483701245	0.00065227
TCONS_00116213	Z:34651878-34654238	8.86948	24.5128	-1.466613857	0.00065227
TCONS_00098001	7:2732526-2734854	10.2772	27.9447	-1.443127428	0.00065227
TCONS_00020312	10:18750221-18758012	16.0844	43.084	-1.421490079	0.00065227
TCONS_00100717	7:31026394-31029288	7.29788	19.4095	-1.41121362	0.00065227
TCONS_00048903	2:78579218-78581542	11.7928	31.3091	-1.408675735	0.00065227
TCONS_00040214	2:138981856-138988220	12.0901	31.7766	-1.394138591	0.00065227
TCONS_00091422	5:54106543-54110251	9.70363	25.2372	-1.378955409	0.00065227
TCONS_00015768	1:132322951-132327679	7.50805	18.7743	-1.322248955	0.00065227
TCONS_00077197	4:13268226-13274310	14.1637	35.1917	-1.313037016	0.00065227
TCONS_00021334	10:4296715-4299955	7.86986	18.7209	-1.250239917	0.00065227
TCONS_00022107	10:10425915-10437436	13.8641	32.3627	-1.22297801	0.00065227
TCONS_00047722	2:61711059-61713716	9.55594	22.0874	-1.208753903	0.00065227
TCONS_00082792	4:80097656-80100214	13.5483	31.2816	-1.207202468	0.00065227
TCONS_00073069	3:96802239-96811392	9.65156	22.1572	-1.198941528	0.00065227
TCONS_00091413	5:54092923-54097296	5.98185	13.4878	-1.17299141	0.00065227
TCONS_00071234	3:64038625-64044855	10.5643	23.6336	-1.161642229	0.00065227
TCONS_00066428	3:17582310-17588625	6.59451	14.4875	-1.135471291	0.00065227
TCONS_00007863	1:40771818-40773905	15.8108	34.4929	-1.125389061	0.00065227
TCONS_00047731	2:61725498-61727893	15.7687	33.5939	-1.091135565	0.00065227
TCONS_00071229	3:64029160-64031551	14.8508	31.2254	-1.072179403	0.00065227

TCONS_00100715	7:31021988-31025508	8.14788	16.8193	-1.045621026	0.00065227
TCONS_00022125	10:10464408-10466795	18.023	37.1244	-1.042528536	0.00065227
TCONS_00047466	2:60371745-60374147	13.0703	26.8866	-1.040595072	0.00065227
TCONS_00082794	4:80100959-80105153	18.2293	37.1506	-1.027126348	0.00065227
TCONS_00107385	9:13809491-13811576	137.17	68.2505	1.007053469	0.00065227
TCONS_00088472	5:26481763-26484148	40.8437	20.3073	1.008115129	0.00065227
TCONS_00071898	3:74674452-74678587	29.5629	14.6796	1.009975142	0.00065227
TCONS_00081794	4:65825315-65828271	40.7184	20.1848	1.012411581	0.00065227
TCONS_00029163	13:11412692-11416181	26.1836	12.9231	1.018711282	0.00065227
TCONS_00007441	1:35407529-35409671	30.191	14.8311	1.025492939	0.00065227
TCONS_00054193	20:5869976-5871379	1407.73	687.927	1.033043269	0.00065227
TCONS_00056423	21:6331517-6334048	31.1614	15.2161	1.034161419	0.00065227
TCONS_00066041	3:14899896-14903022	20.7313	10.098	1.037741004	0.00065227
TCONS_00017879	1:168621477-168626503	19.9329	9.69345	1.040069488	0.00065227
TCONS_00071899	3:74678701-74681412	31.5742	15.2997	1.045242816	0.00065227
TCONS_00085527	5:54126627-54130471	26.8778	13.0151	1.046228659	0.00065227
TCONS_00083497	4:89638013-89640720	29.5313	14.2964	1.046592962	0.00065227
TCONS_00055774	20:13382833-13388413	25.8374	12.5061	1.046828942	0.00065227
TCONS_00009662	1:62391576-62398205	30.044	14.4353	1.057475813	0.00065227
TCONS_00015418	1:129672876-129676736	79.3531	38.1047	1.058317627	0.00065227
TCONS_00061513	28:4073140-4075199	61.3744	29.3988	1.061879747	0.00065227
TCONS_00037703	19:1673233-1675500	38.4036	18.3291	1.067105609	0.00065227
TCONS_00067971	3:33222053-33224498	102.2	48.353	1.079717889	0.00065227
TCONS_00037642	19:1496009-1499607	29.0958	13.7318	1.083290164	0.00065227
TCONS_00102021	8:10993026-11000630	106.051	49.9454	1.086334509	0.00065227
TCONS_00025630	12:1729166-1731126	56.1246	26.402	1.087986037	0.00065227
TCONS_00077616	4:17993187-17995659	30.455	14.2722	1.093471367	0.00065227
TCONS_00071902	3:74688000-74690349	27.5107	12.8805	1.094804251	0.00065227
TCONS_00051479	2:113123703-113130486	16.6008	7.76324	1.096521973	0.00065227
TCONS_00107581	9:15529769-15532200	21.7449	10.1308	1.10192897	0.00065227
TCONS_00067025	3:24327977-24331109	217.549	100.556	1.113341218	0.00065227
TCONS_00077460	4:16441346-16443607	34.0984	15.6603	1.122592195	0.00065227
TCONS_00088383	5:25781662-25794102	61.9947	28.4105	1.125720661	0.00065227
TCONS_00037697	19:1623839-1629335	30.3747	13.8805	1.129810623	0.00065227
TCONS_00099988	7:23125694-23127781	48.8302	22.2197	1.135934349	0.00065227
TCONS_00087905	5:22798009-22801063	20.3211	9.22293	1.139681445	0.00065227
TCONS_00058537	23:4105511-4107767	29.2805	13.2872	1.139903071	0.00065227
TCONS_00002892	1:56879781-56881810	30.8816	13.9662	1.144807964	0.00065227
TCONS_00073874	4:535842-541963	27.755	12.5188	1.148651415	0.00065227
TCONS_00092803	6:31527603-31533239	20.8802	9.41174	1.149602159	0.00065227
TCONS_00086276	5:7537127-7540608	191.655	86.19	1.152919238	0.00065227
TCONS_00037648	19:1518583-1521566	18.7287	8.41953	1.153439157	0.00065227
TCONS_00088564	5:26887963-26891749	28.7617	12.8745	1.159632547	0.00065227
TCONS_00086268	5:7522823-7525077	224.515	100.473	1.160003976	0.00065227
TCONS_00107235	9:11925653-11929043	16.1492	7.22613	1.160167584	0.00065227
TCONS_00066855	3:22413449-22416445	39.5926	17.6038	1.169343924	0.00065227
TCONS_00063889	3:43380263-43383295	24.0259	10.6354	1.17571618	0.00065227
TCONS_00009389	1:61007888-61011443	20.4289	9.03648	1.176778713	0.00065227
TCONS_00001532	1:118583864-118590832	281.185	124.35	1.177113127	0.00065227
TCONS_00037041	19:6581553-6584552	30.3968	13.3563	1.186399049	0.00065227
TCONS_00025658	12:2467156-2477661	48.2642	21.1417	1.190862078	0.00065227

TCONS_00099995	7:23278513-23284020	18.9931	8.20594	1.210734887	0.00065227
TCONS_00054544	20:5721041-5727697	36.7898	15.8322	1.216444091	0.00065227
TCONS_00061933	3:3063921-3074212	37.5793	16.1068	1.222268297	0.00065227
TCONS_00102850	8:4914899-4917686	22.8321	9.77165	1.224389463	0.00065227
TCONS_00086274	5:7532980-7536413	170.751	71.943	1.246967802	0.00065227
TCONS_00004225	1:194456699-194464717	123.16	51.5558	1.256327128	0.00065227
TCONS_00098189	7:3506688-3512405	41.3761	17.2955	1.258400945	0.00065227
TCONS_00085395	5:44319599-44322066	157.972	65.7808	1.263930409	0.00065227
TCONS_00106010	9:22229361-22235930	53.3725	22.0086	1.278029213	0.00065227
TCONS_00037696	19:1620802-1623778	23.3492	9.6157	1.279909329	0.00065227
TCONS_00056652	21:2274873-2277844	26.1065	10.7377	1.281724051	0.00065227
TCONS_00031421	14:9908485-9910624	75.5902	31.0737	1.28250517	0.00065227
TCONS_00086267	5:7519716-7522685	212.826	87.1596	1.287942929	0.00065227
TCONS_00074758	4:59479351-59483950	46.6367	18.9838	1.296696901	0.00065227
TCONS_00052512	2:126041841-126044595	19.1652	7.78908	1.298964213	0.00065227
TCONS_00085551	5:54982261-54984487	55.5963	22.5381	1.302622974	0.00065227
TCONS_00014571	1:119930329-119934679	81.6373	33.0739	1.303535294	0.00065227
TCONS_00077869	4:19404194-19408293	21.6685	8.7445	1.309151486	0.00065227
TCONS_00009382	1:60995664-61000440	29.2358	11.7533	1.314670187	0.00065227
TCONS_00007326	1:33946374-33949471	16.3522	6.55724	1.318324142	0.00065227
TCONS_00059565	25:1621891-1624206	26.1878	10.4916	1.319660156	0.00065227
TCONS_00101056	7:34822766-34825959	21.843	8.7259	1.32379517	0.00065227
TCONS_00112672	Z:51016813-51019180	126.588	50.5031	1.325696798	0.00065227
TCONS_00055778	20:13392145-13396357	30.3276	12.0447	1.332232873	0.00065227
TCONS_00022958	10:19504931-19507759	22.453	8.8992	1.335160665	0.00065227
TCONS_00021439	10:4476168-4478975	33.0566	13.0975	1.335646883	0.00065227
TCONS_00037645	19:1507505-1510022	32.4087	12.8305	1.336803759	0.00065227
TCONS_00028738	13:7751127-7755021	24.7528	9.78763	1.33856026	0.00065227
TCONS_00064325	3:90401590-90404984	92.1425	36.3473	1.342018542	0.00065227
TCONS_00066080	3:15320719-15322987	24.7522	9.75945	1.342685008	0.00065227
TCONS_00055769	20:13358958-13364917	32.5242	12.6609	1.361133609	0.00065227
TCONS_00019791	1:194450903-194456630	42.0528	16.3461	1.363255397	0.00065227
TCONS_00062363	3:29654729-29660420	82.8033	32.0963	1.367281269	0.00065227
TCONS_00092666	6:22548584-22553836	97.3945	37.7355	1.367917913	0.00065227
TCONS_00088565	5:26891821-26897168	16.2833	6.29188	1.371830047	0.00065227
TCONS_00097167	7:5994305-5999446	120.87	46.6941	1.372144035	0.00065227
TCONS_00076466	4:553552-557171	20.2034	7.77185	1.378268141	0.00065227
TCONS_00104873	8:26803225-26805460	72.252	27.7886	1.37854437	0.00065227
TCONS_00053513	2:141709435-141711780	36.5029	14.0367	1.378807284	0.00065227
TCONS_00059257	24:5635243-5640097	26.1176	10.0275	1.381060365	0.00065227
TCONS_00008384	1:49507845-49511816	16.21	6.22013	1.381867453	0.00065227
TCONS_00105002	8:27405808-27410512	34.5337	13.1577	1.392097591	0.00065227
TCONS_00055773	20:13370441-13382770	42.7021	16.171	1.400898124	0.00065227
TCONS_00013520	1:106569457-106571516	30.0984	11.3774	1.403515891	0.00065227
TCONS_00102615	8:2149963-2153284	15.6765	5.8974	1.410452538	0.00065227
TCONS_00053520	2:141722156-141724699	37.7327	14.1376	1.416278108	0.00065227
TCONS_00086271	5:7527488-7530641	232.726	86.0222	1.435851463	0.00065227
TCONS_00021800	10:7319362-7321535	34.8226	12.805	1.443316672	0.00065227
TCONS_00083337	4:84903291-84905550	69.0715	25.2827	1.449940014	0.00065227
TCONS_00040094	2:126037325-126041087	45.4284	16.4646	1.464227031	0.00065227
TCONS_00008501	1:50503605-50506075	24.6292	8.88655	1.470674428	0.00065227

TCONS_00029380	13:15060792-15063753	66.2238	23.6615	1.484808262	0.00065227
TCONS_00013525	1:106574813-106577039	29.4489	10.4838	1.49005201	0.00065227
TCONS_00055766	20:13352950-13355752	30.4794	10.7695	1.500883232	0.00065227
TCONS_00037691	19:1606481-1609805	22.4706	7.93589	1.501574714	0.00065227
TCONS_00102729	8:3633259-3635479	21.1136	7.43025	1.50668993	0.00065227
TCONS_00108098	9:22881532-22886161	33.6891	11.8126	1.511955345	0.00065227
TCONS_00056642	21:2115105-2117147	48.9336	17.079	1.518601919	0.00065227
TCONS_00028446	13:485553-488442	26.7116	9.24387	1.530897519	0.00065227
TCONS_00016255	1:137985256-137988266	23.8493	8.24307	1.532693271	0.00065227
TCONS_00059418	25:1219524-1222839	39.5438	13.6139	1.538371097	0.00065227
TCONS_00098714	7:7678970-7681073	17.9377	6.13754	1.54726249	0.00065227
TCONS_00098190	7:3512472-3515444	63.9259	21.6184	1.564140815	0.00065227
TCONS_00057956	23:200262-202140	584.124	197.287	1.565978768	0.00065227
TCONS_00083336	4:84880657-84889031	40.4709	13.6142	1.571772723	0.00065227
TCONS_00037618	19:1455679-1459154	14.6177	4.9097	1.574009552	0.00065227
TCONS_00084896	5:15998006-16000132	53.6619	17.9478	1.580091124	0.00065227
TCONS_00057327	22:2160855-2162522	35.477	11.7388	1.595599082	0.00065227
TCONS_00037693	19:1610647-1613119	26.4826	8.71658	1.603210668	0.00065227
TCONS_00009388	1:61005654-61007815	32.9007	10.7821	1.609480084	0.00065227
TCONS_00093337	6:7515366-7517594	314.978	102.785	1.615621326	0.00065227
TCONS_00040224	2:139422382-139426688	23.8611	7.77219	1.618267478	0.00065227
TCONS_00088566	5:26897221-26900584	20.181	6.55342	1.622677764	0.00065227
TCONS_00055771	20:13366697-13368978	33.5353	10.7122	1.646425707	0.00065227
TCONS_00058565	23:4869327-4871557	32.8076	10.4135	1.655575016	0.00065227
TCONS_00027797	13:910083-921920	43.1275	13.6649	1.658133187	0.00065227
TCONS_00056854	21:3965015-3967405	15.7964	4.96961	1.668391263	0.00065227
TCONS_00028445	13:482393-485131	31.4428	9.87547	1.67080838	0.00065227
TCONS_00066572	3:19448019-19450220	30.0993	9.16721	1.715175308	0.00065227
TCONS_00028367	13:15133197-15137794	49.1918	14.5421	1.758182225	0.00065227
TCONS_00031118	14:6364910-6367091	18.0296	5.31093	1.76333097	0.00065227
TCONS_00020377	10:351251-353457	25.4937	7.4824	1.768567775	0.00065227
TCONS_00055448	20:8136606-8139349	12.7638	3.73711	1.772062973	0.00065227
TCONS_00086277	5:7541554-7543816	40.2472	11.7619	1.774767289	0.00065227
TCONS_00040485	2:15723496-15733389	40.2425	11.7594	1.774905482	0.00065227
TCONS_00053510	2:141702224-141705216	43.6012	12.5854	1.792616771	0.00065227
TCONS_00030106	14:1132626-1133627	91.6641	26.3147	1.800487869	0.00065227
TCONS_00098715	7:7681607-7684048	21.3889	6.10353	1.809146511	0.00065227
TCONS_00039424	2:49605509-49606518	49.5254	14.0064	1.822082433	0.00065227
TCONS_00038772	19:9392705-9396906	22.5777	6.32077	1.836726301	0.00065227
TCONS_00056871	21:4002655-4004972	22.9047	6.34432	1.852106221	0.00065227
TCONS_00063467	3:14714982-14716438	386.976	105.646	1.87300595	0.00065227
TCONS_00107444	9:14217264-14226430	24.4142	6.54715	1.898781567	0.00065227
TCONS_00088130	5:24259416-24262045	28.4694	7.58554	1.908088296	0.00065227
TCONS_00029092	13:10607579-10609594	22.9055	5.8829	1.961094637	0.00065227
TCONS_00068724	3:42415488-42417595	22.9118	5.79068	1.984286125	0.00065227
TCONS_00101117	7:35799201-35802365	22.4102	5.48328	2.031044473	0.00065227
TCONS_00058406	23:2022865-2025107	22.1576	5.33184	2.055096231	0.00065227
TCONS_00003366	1:100380619-100382122	2839.86	661.693	2.101585887	0.00065227
TCONS_00020829	10:374974-379795	37.5693	8.70813	2.109119385	0.00065227
TCONS_00013527	1:106577581-106579923	34.0586	7.7709	2.131865532	0.00065227
TCONS_00093346	6:7657965-7660695	20.3814	4.55	2.163314703	0.00065227

TCONS_00026670	12:8832595-8835338	16.3183	3.63184	2.167718217	0.00065227
TCONS_00005666	1:14352253-14354396	107.496	23.6192	2.186250972	0.00065227
TCONS_00028442	13:476196-478619	51.5242	11.0487	2.221373569	0.00065227
TCONS_00020082	10:7482326-7483015	1313.45	272.579	2.268614958	0.00065227
TCONS_00091453	5:54313244-54315289	51.3785	10.6376	2.271992077	0.00065227
TCONS_00107450	9:14253307-14256999	113.261	23.0323	2.297920782	0.00065227
TCONS_00105857	9:13779712-13795306	38.8656	7.88303	2.301671618	0.00065227
TCONS_00020068	10:7321740-7326057	26.0711	5.20942	2.323256793	0.00065227
TCONS_00059278	25:264244-269456	16.1346	3.20235	2.332954911	0.00065227
TCONS_00028728	13:7733038-7735780	25.9564	5.0879	2.350948083	0.00065227
TCONS_00003367	1:100384415-100388332	12651.2	2473.58	2.35460177	0.00065227
TCONS_00104489	8:22842596-22845136	103.06	19.2702	2.419041047	0.00065227
TCONS_00062863	3:67422995-67426027	57.3983	10.6343	2.432282937	0.00065227
TCONS_00028729	13:7736047-7738630	21.0019	3.83473	2.453322944	0.00065227
TCONS_00059312	25:743611-744765	1208.07	220.41	2.454442467	0.00065227
TCONS_00105326	9:12148115-12153759	22.2158	4.0145	2.468293876	0.00065227
TCONS_00028217	13:7832897-7842980	161.733	28.2837	2.515571309	0.00065227
TCONS_00028340	13:13632133-13632710	447.537	75.7875	2.561975139	0.00065227
TCONS_00105769	9:8434006-8452868	527.599	85.8592	2.619397195	0.00065227
TCONS_00061016	27:4381234-4383860	22.8146	3.65607	2.641591762	0.00065227
TCONS_00076534	4:1765900-1770017	87.4409	13.7493	2.66895008	0.00065227
TCONS_00059438	25:1298489-1299373	1019	160.184	2.669352095	0.00065227
TCONS_00090985	5:49555130-49559188	43.3977	6.59905	2.71728833	0.00065227
TCONS_00074529	4:38964469-38966954	52.536	7.84763	2.742977432	0.00065227
TCONS_00084705	5:7431546-7462146	20.8728	3.04411	2.777531748	0.00065227
TCONS_00028868	13:9699796-9703272	25.3254	3.65309	2.793395853	0.00065227
TCONS_00023407	11:1178587-1180369	284.05	40.9104	2.795605355	0.00065227
TCONS_00106665	9:4686765-4689146	25.3911	3.29355	2.94660754	0.00065227
TCONS_00090984	5:49552969-49555068	61.7675	6.0976	3.340534521	0.00065227
TCONS_00058534	23:4039755-4042142	46.7196	4.41757	3.402703022	0.00065227
TCONS_00054104	20:799718-804474	80.4489	4.79283	4.069123021	0.00065227
TCONS_00105746	9:7826654-7829890	36.2668	0	5	0.00065227
TCONS_00038920	2:4080590-4119075	30.7021	0	5	0.00065227
TCONS_00028187	13:7140395-7143900	30.5135	0	5	0.00065227
TCONS_00059983	26:4011189-4013183	25.6665	0	5	0.00065227
TCONS_00112894	Z:81435055-81436154	24.0587	0	5	0.00065227
TCONS_00034407	17:10449648-10450259	21.2321	0	5	0.00065227
TCONS_00023522	11:6516795-6522881	16.4437	0	5	0.00065227

**Table S2. Differential expression analysis of genes in breast muscle between hypertrophic and leaner broilers.**

Gene	WRR-FPKM	XH-FPKM	Log2(WRR/XH)	q value	Significant	Regulation <sup>a</sup>
GBE1	11.5682	111.898	-3.273947945	0.00016231	yes	Down
DNAJA4	4.35933	27.0897	-2.635566092	0.00016231	yes	Down
HSPA8	75.6842	422.686	-2.481522272	0.00016231	yes	Down
KLHL40	22.4113	115.289	-2.362956627	0.00016231	yes	Down
NEXN	73.1294	372.192	-2.347523616	0.00016231	yes	Down
ATF3	21.6204	101.446	-2.230246861	0.00016231	yes	Down
BBS5	3.84471	16.7128	-2.12000677	0.00016231	yes	Down
SEC11C	4.22006	18.1469	-2.1043877	0.00016231	yes	Down
FHL2	3.07079	12.9763	-2.079197319	0.00016231	yes	Down
HSP90B1	12.235	48.3257	-1.981776529	0.00016231	yes	Down
P37NB	2.87202	10.7025	-1.897810135	0.00016231	yes	Down
MAP3K7CL	4.11341	14.8941	-1.856334166	0.00016231	yes	Down
CCDC141	4.75283	16.6129	-1.805445232	0.00016231	yes	Down
OSF-2	31.231	108.134	-1.791769544	0.00016231	yes	Down
INSIG1	30.6869	105.105	-1.776136485	0.00016231	yes	Down
DNAJB4	32.2587	109.333	-1.76096871	0.00016231	yes	Down
MBSP	7.25562	24.0682	-1.729957446	0.00016231	yes	Down
LUM	26.7256	86.9958	-1.702723415	0.00016231	yes	Down
GADL1	20.5135	66.7093	-1.701314238	0.00016231	yes	Down
GSTA	3.86603	11.983	-1.632064401	0.00016231	yes	Down
SERPINE2	6.46527	19.8455	-1.618029385	0.00016231	yes	Down
LETM1	10.3994	31.2408	-1.586931104	0.00016231	yes	Down
HSPH1	3.64664	10.9266	-1.583204864	0.00016231	yes	Down
HSP90AA1	456.504	1336.44	-1.549695662	0.00016231	yes	Down
SUB1	6.3898	18.6081	-1.542088074	0.00016231	yes	Down
Protein	13.4084	38.0796	-1.505881231	0.00016231	yes	Down
FAM13B	8.2073	23.1809	-1.497956986	0.00016231	yes	Down
ACSBG2	13.4884	38.0428	-1.495904209	0.00016231	yes	Down
PNRC2	6.9864	19.5883	-1.487371046	0.00016231	yes	Down
ECM2	7.94558	21.8542	-1.459686127	0.00016231	yes	Down
ANXA5	14.9776	40.9834	-1.45223321	0.00016231	yes	Down
C12orf5	13.9282	38.0312	-1.449174637	0.00016231	yes	Down
CKAP4	6.53584	17.7989	-1.445343512	0.00016231	yes	Down
PPIG	6.79152	18.4631	-1.442838402	0.00016231	yes	Down
DPT	6.19382	16.7869	-1.438434473	0.00016231	yes	Down
GIPC2	5.10963	13.8431	-1.437876323	0.00016231	yes	Down
HERC4	8.51321	22.8434	-1.424002273	0.00016231	yes	Down
OGN	15.0823	40.4188	-1.422170038	0.00016231	yes	Down
TPPP	3.7568	10.0241	-1.415896493	0.00016231	yes	Down
PDGFRL	4.28855	11.4279	-1.413998471	0.00016231	yes	Down
DAP	4.30479	11.4128	-1.406638018	0.00016231	yes	Down
HNRNPA3	6.80745	18.0362	-1.405709027	0.00016231	yes	Down
IL18	4.12763	10.9085	-1.402067175	0.00016231	yes	Down
ANXA1	7.4926	19.557	-1.384146742	0.00016231	yes	Down
ACTC1	34.0831	88.9522	-1.383973727	0.00016231	yes	Down
ATRX	6.13736	15.9346	-1.376472689	0.00016231	yes	Down
PSIP1	7.63403	19.6797	-1.366191467	0.00016231	yes	Down
GOLIM4	6.88334	17.7087	-1.363277629	0.00016231	yes	Down
HSPA5	13.7934	35.2541	-1.353812933	0.00016231	yes	Down

GOLGA4	5.28505	13.4586	-1.348539319	0.00016231	yes	Down
TRIP11	4.70797	11.8021	-1.325866555	0.00016231	yes	Down
NOP58	6.42281	16.0813	-1.324107513	0.00016231	yes	Down
RCN1	5.73383	14.3278	-1.321246068	0.00016231	yes	Down
RANBP1	4.86426	12.154	-1.321138947	0.000721449	yes	Down
LRRFIP2	22.1577	55.09	-1.313982327	0.00016231	yes	Down
CCDC127	12.0349	29.7917	-1.307686296	0.00016231	yes	Down
GATM	30.2175	74.2115	-1.296258462	0.00016231	yes	Down
PDP1	9.34808	22.8925	-1.292133037	0.00016231	yes	Down
STX2	6.33642	15.4706	-1.28778928	0.000850638	yes	Down
BMS1	4.28697	10.4532	-1.28591443	0.00016231	yes	Down
XIRP1	55.4534	133.685	-1.269489774	0.00016231	yes	Down
ASNS	15.2846	36.7465	-1.265528047	0.00016231	yes	Down
HEBP2	4.21146	10.0259	-1.251339381	0.00016231	yes	Down
FGL2	11.3225	26.6764	-1.236371448	0.00016231	yes	Down
EIF1AY	45.342	106.04	-1.225688642	0.00016231	yes	Down
NPM1	51.3031	119.934	-1.225122797	0.00016231	yes	Down
avenaII	9.35469	21.8656	-1.224901186	0.00016231	yes	Down
DCUN1D5	14.6026	34.1085	-1.223906046	0.00016231	yes	Down
XPO1	15.2124	35.4973	-1.222461515	0.00016231	yes	Down
SLC25A25	4.46225	10.4111	-1.222279258	0.00016231	yes	Down
ABRA	68.5353	159.453	-1.218212078	0.00016231	yes	Down
FRA10AC1	7.19846	16.6971	-1.213837351	0.00016231	yes	Down
OC3	12.4873	28.9545	-1.213326012	0.00016231	yes	Down
AOX1	9.66584	22.2846	-1.205080046	0.00016231	yes	Down
DCN	93.3672	214.873	-1.202496488	0.00016231	yes	Down
SPCS3	17.3236	39.5436	-1.190705452	0.00016231	yes	Down
RAP1B	4.66868	10.6201	-1.185710739	0.00016231	yes	Down
EMILIN2	6.47564	14.6395	-1.176771591	0.00016231	yes	Down
SMC3	6.5056	14.6922	-1.175296415	0.00016231	yes	Down
CCDC25	20.8343	47.0206	-1.17433232	0.00016231	yes	Down
BOD1L1	4.69206	10.5814	-1.173237153	0.00016231	yes	Down
SEL1L	5.81898	13.1144	-1.172313611	0.00016231	yes	Down
MYLK4	74.76	168.484	-1.172273119	0.00016231	yes	Down
ABI3BP	10.8021	24.255	-1.16697037	0.00016231	yes	Down
hsp70	297.179	665.097	-1.162232591	0.00016231	yes	Down
ABLIM2	5.11152	11.419	-1.159612044	0.00016231	yes	Down
FAM129A	5.49809	12.1854	-1.148151182	0.00016231	yes	Down
DNAJC2	32.1435	71.186	-1.147066509	0.00016231	yes	Down
GNB1	8.30324	18.3398	-1.143231602	0.00016231	yes	Down
LMNB2	8.63363	19.0617	-1.142637619	0.00016231	yes	Down
ARL5B	4.65906	10.2645	-1.139552538	0.00016231	yes	Down
ADAL	4.82513	10.6203	-1.138184802	0.00016231	yes	Down
LEPROT	4.74396	10.4079	-1.133515255	0.00016231	yes	Down
CDKN1A	12.577	27.5674	-1.132175371	0.00016231	yes	Down
UBE2V2	12.8914	28.1908	-1.128815471	0.00016231	yes	Down
SEPT7	30.9083	67.4513	-1.125851943	0.00016231	yes	Down
ARHGAP5	9.52823	20.7222	-1.120897033	0.00016231	yes	Down
CETN2	9.09383	19.6713	-1.113132363	0.00016231	yes	Down
MFAP5	14.6307	31.4861	-1.105716274	0.00016231	yes	Down
ITGA6	10.0755	21.6048	-1.100500441	0.00016231	yes	Down
FAM133B	25.6715	55.0215	-1.099827875	0.00016231	yes	Down
LRPAP1	15.3615	32.8848	-1.098101799	0.00016231	yes	Down
EXOC1	6.03515	12.9023	-1.096166734	0.00016231	yes	Down



PGD	5.26557	11.2304	-1.092747697	0.00016231	yes	Down
ND6	70.4743	150.145	-1.091187284	0.00016231	yes	Down
COL5A2	22.4483	47.8186	-1.090965698	0.00016231	yes	Down
SEC62	6.27578	13.3639	-1.090474408	0.00016231	yes	Down
RNF7	20.2362	43.053	-1.089175367	0.00016231	yes	Down
COL1A2	124.212	262.943	-1.081945533	0.00016231	yes	Down
COL6A2	75.0892	158.899	-1.081432719	0.00016231	yes	Down
VAPB	11.1896	23.6654	-1.080620843	0.00016231	yes	Down
ERCC5	5.79791	12.2514	-1.079341775	0.00016231	yes	Down
SERPINF1	66.3539	140.206	-1.079294921	0.00016231	yes	Down
PODN	39.1305	82.4682	-1.075544374	0.00016231	yes	Down
CD99	33.7427	70.8671	-1.070540594	0.00016231	yes	Down
ROCK2	50.0104	104.56	-1.064030997	0.00016231	yes	Down
PKD2L2	13.1313	27.3409	-1.058050984	0.00016231	yes	Down
HNRNPM	8.13862	16.9291	-1.056649183	0.00016231	yes	Down
UFM1	10.1407	21.0747	-1.055354851	0.00016231	yes	Down
APP	9.48344	19.6984	-1.054596073	0.00016231	yes	Down
FBN1	26.6076	54.9951	-1.047464696	0.00016231	yes	Down
UBXN2A	32.3066	66.7242	-1.046381176	0.00016231	yes	Down
DDX24	5.9493	12.2839	-1.045976838	0.00016231	yes	Down
VPS13A	10.4392	21.5342	-1.044618572	0.00016231	yes	Down
F13A1	8.57505	17.6821	-1.044072637	0.00016231	yes	Down
SSB	16.4135	33.6963	-1.037707275	0.00016231	yes	Down
TNNC1	4059.89	8301.71	-1.031967897	0.00016231	yes	Down
MBP	8.87528	18.127	-1.03027564	0.00016231	yes	Down
CALM	927.015	1882	-1.02160204	0.00016231	yes	Down
SLC35F5	8.15139	16.5146	-1.018624028	0.00016231	yes	Down
SUV420H1	7.31529	14.8195	-1.01850981	0.00016231	yes	Down
AFAP1	5.24484	10.6248	-1.018465017	0.00016231	yes	Down
SRSF4	5.14871	10.426	-1.017902847	0.00016231	yes	Down
HNRNPH3	17.512	35.4095	-1.015792613	0.00016231	yes	Down
GSTA3	5.00835	10.1217	-1.015044328	0.00016231	yes	Down
KDELC2	6.62525	13.3644	-1.012348269	0.00016231	yes	Down
EBNA1BP2	9.43622	18.9794	-1.008153425	0.00016231	yes	Down
VASH2	7.33012	14.702	-1.004103705	0.00016231	yes	Down
FKBP14	7.40675	14.8415	-1.002724362	0.00016231	yes	Down
HSPD1	37.1698	74.4062	-1.001291915	0.00016231	yes	Down
TMCC1	25.5803	12.7855	1.000524603	0.00016231	yes	Up
SIRT6	12.3673	6.17919	1.001040929	0.00016231	yes	Up
CERS1	15.3619	7.67398	1.001309753	0.00016231	yes	Up
PBDC1	72.8786	36.3944	1.001778765	0.00016231	yes	Up
FLII	74.3005	37.0582	1.003579111	0.00016231	yes	Up
KLF10	27.7166	13.8179	1.004211916	0.00016231	yes	Up
MIEF2	21.1603	10.5363	1.005991752	0.00016231	yes	Up
NT5DC3	13.5258	6.73235	1.00653184	0.00016231	yes	Up
ARHGEF10L	10.3729	5.1618	1.006873143	0.00016231	yes	Up
PCIF1	18.6351	9.26413	1.008295158	0.00016231	yes	Up
ATP13A1	11.325	5.61858	1.011233585	0.00016231	yes	Up
CDC34	14.8006	7.33206	1.013365165	0.00016231	yes	Up
KLHL21	78.884	39.0583	1.014103551	0.00016231	yes	Up
TNFAIP8L3	29.1548	14.4299	1.014672124	0.00016231	yes	Up
HSCB	16.0144	7.92254	1.015334803	0.00016231	yes	Up
DPP7	32.7715	16.2107	1.015495319	0.00016231	yes	Up
IDH3G	71.7539	35.4835	1.015908928	0.00016231	yes	Up

PSAP	243.581	120.376	1.01685382	0.00016231	yes	Up
MAN2A2	33.9835	16.7863	1.017550175	0.00016231	yes	Up
DDX54	13.7061	6.76871	1.017865306	0.00016231	yes	Up
HK2	22.7912	11.2475	1.01887252	0.00016231	yes	Up
SSR2	94.7838	46.7296	1.020303814	0.00016231	yes	Up
CLTB	131.538	64.8079	1.021238048	0.00016231	yes	Up
SCN4A	46.0901	22.6725	1.023513418	0.00016231	yes	Up
HAGH	85.1495	41.8761	1.023870971	0.00016231	yes	Up
NUMA1	58.2776	28.634	1.025212245	0.00016231	yes	Up
MVP	10.588	5.19693	1.026698568	0.00016231	yes	Up
RPRD2	23.7272	11.6408	1.027351652	0.00016231	yes	Up
skTmod	10.064	4.93525	1.028008755	0.000310285	yes	Up
GYLTL1B	18.1728	8.90892	1.028458268	0.00016231	yes	Up
CISH	114.328	55.985	1.030066532	0.00016231	yes	Up
UHRF1BP1	22.0843	10.793	1.032925175	0.00016231	yes	Up
CRIP2	11.7934	5.76349	1.032965118	0.00016231	yes	Up
ETV3	30.0884	14.7028	1.033116463	0.00016231	yes	Up
PRDX6	216.177	105.632	1.033166088	0.00016231	yes	Up
USP39	11.4669	5.60108	1.033698482	0.00016231	yes	Up
YBX3	892.248	435.59	1.034473928	0.00016231	yes	Up
RPL9	1060.11	517.483	1.034630597	0.00016231	yes	Up
FOXO1	18.5233	9.02954	1.036616745	0.00016231	yes	Up
NAA40	24.4644	11.9225	1.036997118	0.00016231	yes	Up
ROR1	20.7457	10.1095	1.037100692	0.00016231	yes	Up
TRIB1	19.8524	9.6717	1.037472028	0.00016231	yes	Up
RPS10	1434.76	698.664	1.03813872	0.00016231	yes	Up
ENOPH1	18.9813	9.24187	1.038322102	0.00016231	yes	Up
AMFR	73.1764	35.5885	1.039967316	0.00016231	yes	Up
RHPN1	23.1758	11.2562	1.041899272	0.00016231	yes	Up
SYDE2	13.1015	6.3583	1.043019003	0.00016231	yes	Up
EIF4E3	11.3358	5.50082	1.043167609	0.00016231	yes	Up
GOT1	140.404	68.0002	1.045973143	0.00016231	yes	Up
SYPL2	439.239	212.487	1.047631577	0.00016231	yes	Up
PEF1	16.9809	8.21371	1.047807008	0.00016231	yes	Up
ERAL1	13.2013	6.38332	1.048301128	0.00016231	yes	Up
UTS2R	16.7144	8.06601	1.051164468	0.00016231	yes	Up
MAF1	117.128	56.5044	1.05165088	0.00016231	yes	Up
MED19	42.6245	20.5396	1.053274825	0.00016231	yes	Up
HINT2	12.0982	5.82448	1.054591257	0.000451409	yes	Up
RPL35A	349.298	168.063	1.05545624	0.00016231	yes	Up
TMED4	233.132	112.058	1.056901395	0.00016231	yes	Up
COX6A1	144.487	69.4144	1.057632809	0.00016231	yes	Up
MED28	28.1675	13.4958	1.061521024	0.00016231	yes	Up
WDR24	24.2933	11.6382	1.061690535	0.00016231	yes	Up
POMP	144.085	68.997	1.062314611	0.00016231	yes	Up
SCN4B	12.3897	5.93072	1.062862089	0.00016231	yes	Up
MPI	45.739	21.8787	1.063897806	0.00016231	yes	Up
ABCC5	18.0863	8.62963	1.06752669	0.00016231	yes	Up
USP31	12.5615	5.98806	1.068848168	0.00016231	yes	Up
SYNGR1	55.8315	26.573	1.071118205	0.00016231	yes	Up
CA9	36.243	17.1928	1.075897859	0.00016231	yes	Up
RPS11	574.231	272.224	1.076836953	0.00016231	yes	Up
BRD2	45.2098	21.383	1.08017126	0.00016231	yes	Up
ME3	10.1785	4.81228	1.080732475	0.00016231	yes	Up

ALDH6A1	43.5612	20.5924	1.080931714	0.00016231	yes	Up
CSNK1G2	50.0588	23.6306	1.082967446	0.00016231	yes	Up
OGDH	168.901	79.7197	1.083169684	0.00016231	yes	Up
SPSB3	21.7994	10.285	1.083746633	0.00016231	yes	Up
ADCY9	96.6021	45.5592	1.084312137	0.00016231	yes	Up
ANAPC16	96.833	45.6373	1.08528535	0.00016231	yes	Up
FCGBP	22.04	10.3811	1.086164902	0.00016231	yes	Up
ALDH3A2	16.4885	7.76062	1.087216339	0.00016231	yes	Up
H3F3C	169.501	79.7675	1.087420817	0.00016231	yes	Up
STIM1	16.2788	7.65704	1.088135656	0.00016231	yes	Up
MRPS21	80.7309	37.9009	1.090888868	0.00016231	yes	Up
PM20D2	167.924	78.7972	1.091592167	0.00016231	yes	Up
ENG	23.5023	11.025	1.092023294	0.00016231	yes	Up
CDK9	13.5511	6.35482	1.092486799	0.00016231	yes	Up
TAF11	13.4895	6.31715	1.09449114	0.00016231	yes	Up
FNBP4	15.6086	7.30451	1.095481739	0.00016231	yes	Up
RAMP1	24.9474	11.6668	1.096480558	0.00016231	yes	Up
PTGDS	184.281	86.0167	1.099218643	0.00016231	yes	Up
UBQLN4	15.3718	7.17266	1.09970596	0.00016231	yes	Up
UCP	661.692	308.624	1.10030958	0.00016231	yes	Up
PSMD13	118.944	55.4746	1.100383233	0.00016231	yes	Up
ABHD17A	34.854	16.2511	1.100786861	0.00016231	yes	Up
ARHGEF11	17.761	8.27655	1.101611388	0.00016231	yes	Up
ARID5A	18.9821	8.8429	1.102048128	0.00016231	yes	Up
OTUD1	54.4932	25.3752	1.102657019	0.00016231	yes	Up
ASB11	42.2596	19.676	1.102842152	0.00016231	yes	Up
MFG8	35.5333	16.4831	1.108184081	0.00016231	yes	Up
HBXIP	34.4428	15.9749	1.10839553	0.00016231	yes	Up
KLF9	92.8131	43.0242	1.109180081	0.00016231	yes	Up
PTP4A3	759.374	351.829	1.1099362	0.00016231	yes	Up
EMC1	21.7187	10.0617	1.110063671	0.00016231	yes	Up
DUSP8	17.9613	8.31334	1.111391652	0.00016231	yes	Up
PTRH2	44.7112	20.6791	1.112462869	0.00016231	yes	Up
TBC1D16	11.7223	5.41964	1.112986736	0.00016231	yes	Up
RPL12	597.593	276.157	1.113674552	0.00016231	yes	Up
RPS6KB2	26.2366	12.1107	1.115298518	0.00016231	yes	Up
SMIM12	16.3472	7.53423	1.117511567	0.00016231	yes	Up
DAP3	81.0325	37.3306	1.118141954	0.00016231	yes	Up
PPM1J	15.0543	6.9315	1.118936131	0.00016231	yes	Up
PLBD2	31.1769	14.3491	1.119517233	0.00016231	yes	Up
RBM24	180.272	82.9118	1.120525988	0.00016231	yes	Up
SBF1	21.0585	9.6787	1.121517487	0.00016231	yes	Up
RPS4X	617.635	283.237	1.124744768	0.00016231	yes	Up
TCF25	35.9336	16.4685	1.125624323	0.00016231	yes	Up
CTSB	121.327	55.3581	1.132034309	0.00016231	yes	Up
HINTW	128.513	58.5894	1.133202725	0.00016231	yes	Up
ST3GAL3	27.8428	12.685	1.134180783	0.00016231	yes	Up
COX5A	31.1833	14.2001	1.134872521	0.00016231	yes	Up
MN1	51.1796	23.2701	1.137091461	0.00016231	yes	Up
SPCS1	47.9419	21.7914	1.1375282	0.00016231	yes	Up
FOXO3	237.178	107.708	1.138844786	0.00016231	yes	Up
CCDC86	19.1264	8.67313	1.140940714	0.00016231	yes	Up
PRKAB2	195.695	88.7356	1.141021972	0.00016231	yes	Up
AHCYL2	26.693	12.0942	1.142146116	0.00016231	yes	Up

RBX1	152.073	68.8918	1.142359852	0.00016231	yes	Up
ARHGAP35	21.5276	9.73655	1.144704919	0.00016231	yes	Up
MAPRE2	88.9765	40.2294	1.145174128	0.00016231	yes	Up
FAM134A	41.159	18.6002	1.145889797	0.00016231	yes	Up
PRKAB1	22.2788	10.062	1.146754432	0.00016231	yes	Up
FBXO48	11.4122	5.15348	1.146958058	0.00016231	yes	Up
C19orf70	20.8004	9.39152	1.147180693	0.00016231	yes	Up
CDK2AP1	41.3719	18.6736	1.14765113	0.00016231	yes	Up
BCL2L1	23.7219	10.7042	1.14804259	0.00016231	yes	Up
PIIB	147.059	66.3263	1.148742127	0.00016231	yes	Up
SEMA7A	23.4429	10.57	1.149175672	0.00016231	yes	Up
FDFT1	27.6235	12.4458	1.150237158	0.00016231	yes	Up
SCYL3	44.2791	19.9482	1.150367326	0.00016231	yes	Up
SMCR8	68.3574	30.7539	1.15232815	0.00016231	yes	Up
EGFL7	10.3914	4.67346	1.152827086	0.00016231	yes	Up
ABCA3	36.9528	16.5846	1.155839468	0.00016231	yes	Up
MAP1S	17.9886	8.07197	1.156090193	0.00016231	yes	Up
ASB4	79.1743	35.4876	1.157717198	0.00016231	yes	Up
PIGT	18.0359	8.07837	1.158735286	0.00016231	yes	Up
TGIF1	11.6257	5.20682	1.158843147	0.00016231	yes	Up
RAB40B	11.8084	5.28659	1.159404149	0.00016231	yes	Up
TAZ	23.2457	10.4022	1.160075189	0.00016231	yes	Up
XPNPEP3	14.4156	6.44948	1.160376135	0.00016231	yes	Up
DTX2	22.0623	9.87017	1.160436362	0.00016231	yes	Up
DBNL	14.2902	6.38924	1.16130987	0.00016231	yes	Up
SIRT2	23.9712	10.6962	1.164203786	0.00016231	yes	Up
RNF214	14.8695	6.63188	1.164866329	0.00016231	yes	Up
GNB2L1	658.058	293.456	1.16507054	0.00016231	yes	Up
CHRND	37.5264	16.7331	1.16520115	0.00016231	yes	Up
FAM117A	27.7614	12.3725	1.165943282	0.00016231	yes	Up
OTUD5	56.5973	25.2206	1.166130632	0.00016231	yes	Up
FOS	13.2273	5.88745	1.167803796	0.00016231	yes	Up
rad9	108.006	48.0542	1.168377025	0.00016231	yes	Up
ZBTB42	15.7169	6.99129	1.168686104	0.00016231	yes	Up
DCPS	19.5024	8.64645	1.173471848	0.00016231	yes	Up
TINAGL1	25.1069	11.126	1.174148896	0.00016231	yes	Up
NAIF1	30.984	13.7268	1.174528064	0.00016231	yes	Up
NXN	14.3391	6.33233	1.179146129	0.000850638	yes	Up
RAI2	24.9875	11.0344	1.179198382	0.00016231	yes	Up
MYO18A	49.0793	21.6669	1.179621918	0.00016231	yes	Up
ERI3	12.8404	5.66264	1.181143426	0.00016231	yes	Up
RBFOX2	175.251	77.2247	1.18228841	0.00016231	yes	Up
MAP2K2	22.2612	9.79286	1.184729199	0.00016231	yes	Up
HS6ST2	15.2445	6.70497	1.18498605	0.00016231	yes	Up
LINGO1	224.286	98.5926	1.185788297	0.00016231	yes	Up
PDRG1	60.3505	26.4978	1.18749314	0.00016231	yes	Up
CUTA	96.0161	42.1552	1.187565734	0.00016231	yes	Up
B2M	584.889	256.284	1.190419444	0.00016231	yes	Up
PWWP2B	28.7707	12.5915	1.192150164	0.00016231	yes	Up
YBEY	13.7813	6.01777	1.195411112	0.00016231	yes	Up
PEX6	17.6695	7.71445	1.195626007	0.00016231	yes	Up
CASKIN2	13.1438	5.73164	1.19736253	0.00016231	yes	Up
SLC25A29	12.731	5.55104	1.197515751	0.00016231	yes	Up
SNX17	37.7933	16.4641	1.198806846	0.00016231	yes	Up

CTK-1	16.8207	7.32536	1.199266178	0.00016231	yes	Up
DDX28	11.6166	5.05761	1.199660178	0.00016231	yes	Up
GPX3	1352.74	588.922	1.199736103	0.00016231	yes	Up
C1orf131	20.3244	8.83984	1.201120601	0.00016231	yes	Up
SNRPC	115.74	50.3341	1.201279526	0.00016231	yes	Up
OTUB1	19.629	8.51915	1.204205279	0.00016231	yes	Up
MARS	50.8745	22.079	1.204267879	0.00016231	yes	Up
NDUFS7	275.99	119.757	1.204506008	0.00016231	yes	Up
FRS3	10.8401	4.70092	1.205363031	0.00016231	yes	Up
NDUFS5	48.5402	21.0283	1.20684783	0.00016231	yes	Up
CTSD	113.83	49.2763	1.207914993	0.00016231	yes	Up
ILK	19.9585	8.63833	1.208178961	0.00016231	yes	Up
RGS5	100.758	43.6087	1.208206502	0.00016231	yes	Up
NDUFA8	60.7627	26.2906	1.20863891	0.00016231	yes	Up
FLOT2	23.3419	10.0952	1.209252507	0.00016231	yes	Up
ACOT11	13.0094	5.62528	1.209557612	0.00016231	yes	Up
DCTN2	16.1644	6.98881	1.209701227	0.00016231	yes	Up
HGS	22.5387	9.74322	1.209933758	0.00016231	yes	Up
ACOT8	12.6889	5.47979	1.211374496	0.00016231	yes	Up
C15orf59	11.5489	4.98148	1.213109109	0.00016231	yes	Up
FARSA	27.2028	11.714	1.215521357	0.00016231	yes	Up
CCNL1	30.6763	13.2045	1.21609481	0.00016231	yes	Up
KANSL1	13.1302	5.64766	1.217163748	0.00016231	yes	Up
ENPP4	21.8359	9.39092	1.217363589	0.00016231	yes	Up
FSD1	15.1469	6.49751	1.221063704	0.00016231	yes	Up
CCDC101	67.6035	28.9681	1.222632878	0.00016231	yes	Up
ST6GALNAC6	42.782	18.278	1.22689571	0.00016231	yes	Up
QPCTL	12.8964	5.50136	1.229108178	0.00016231	yes	Up
MTO1	25.8033	10.9917	1.231141051	0.00016231	yes	Up
DYSF	34.9633	14.8838	1.23209845	0.00016231	yes	Up
RALY	61.0258	25.974	1.232351096	0.00016231	yes	Up
NPRL2	23.8268	10.1271	1.234364104	0.00016231	yes	Up
RXRA	58.7086	24.9276	1.235827865	0.00016231	yes	Up
M2.	21.5471	9.13632	1.237808625	0.00016231	yes	Up
NDUFB8	149.488	63.3688	1.238185077	0.00016231	yes	Up
CD99L2	88.3846	37.4334	1.239468927	0.00016231	yes	Up
NUDT16L1	118.968	50.2882	1.24228175	0.00016231	yes	Up
THAP1	14.9125	6.30093	1.242885451	0.00016231	yes	Up
POLR2H	28.0605	11.8498	1.243678006	0.00016231	yes	Up
NDUFA2	132.967	56.1273	1.244293674	0.00016231	yes	Up
ZDHHC5	10.5734	4.45897	1.245656968	0.00016231	yes	Up
SCMH1	12.1055	5.09797	1.24766788	0.00016231	yes	Up
SLC25A28	58.0104	24.4157	1.248502426	0.00016231	yes	Up
AMOTL1	58.0717	24.3905	1.251515935	0.00016231	yes	Up
MRPL51	23.0841	9.68782	1.252655521	0.00016231	yes	Up
SPTB	54.5549	22.8743	1.253981187	0.00016231	yes	Up
PSMC5	140.982	59.0581	1.255304129	0.00016231	yes	Up
HTRA2	18.1934	7.60472	1.258448145	0.00016231	yes	Up
IBA57	12.4955	5.22259	1.258571277	0.00016231	yes	Up
APOA1	970.244	405.17	1.25982025	0.00016231	yes	Up
MGST3	35.2217	14.6819	1.262425863	0.00016231	yes	Up
RDH5	16.0303	6.67317	1.264357263	0.00016231	yes	Up
POLR2E	87.5784	36.3957	1.266807081	0.00016231	yes	Up
SNRB'	13.2467	5.49825	1.268588591	0.00016231	yes	Up

SP1	23.1637	9.61165	1.269009697	0.00016231	yes	Up
ZBTB48	15.3015	6.34432	1.270135641	0.00016231	yes	Up
FAM78A	25.2244	10.4459	1.271883155	0.00016231	yes	Up
CSRP1	22.8377	9.45262	1.272631199	0.00016231	yes	Up
DVL3	11.3959	4.71477	1.273255568	0.00016231	yes	Up
TAGLN	19.8846	8.22572	1.273437672	0.00016231	yes	Up
EEF2	836.945	346.008	1.274327424	0.00016231	yes	Up
PTPMT1	39.0053	16.1252	1.274353115	0.00016231	yes	Up
ATP5D	565.137	233.492	1.275227526	0.00016231	yes	Up
THAP4	48.9376	20.1985	1.276695192	0.00016231	yes	Up
LRRC47	14.9463	6.15396	1.280201414	0.00016231	yes	Up
SDHC	604.309	248.737	1.280665302	0.00016231	yes	Up
ALDH4A1	26.8845	11.0607	1.281331948	0.00016231	yes	Up
STIP1	49.9394	20.5312	1.282360536	0.00016231	yes	Up
BCAS2	50.0005	20.5513	1.282712865	0.00016231	yes	Up
DIRC2	52.0867	21.3661	1.285591443	0.00016231	yes	Up
SUN2	16.148	6.62376	1.285633186	0.00016231	yes	Up
MYLK2	261.892	107.399	1.28599143	0.00016231	yes	Up
CHCHD10	247.353	101.371	1.286926409	0.00016231	yes	Up
ATP5B	684.852	280.598	1.287287522	0.00016231	yes	Up
ZNF319	12.6157	5.16003	1.2897689	0.00016231	yes	Up
SCN2B	25.0519	10.235	1.291408923	0.00016231	yes	Up
ST6GALNAC4	81.1566	33.143	1.292004229	0.00016231	yes	Up
MMP15	75.2329	30.7133	1.292500171	0.00016231	yes	Up
FAM173A	42.75	17.4522	1.292515508	0.00016231	yes	Up
ZNF335	27.9512	11.3888	1.295294479	0.00016231	yes	Up
MVD	13.2565	5.39813	1.296168297	0.00016231	yes	Up
RPL15	224.742	91.4757	1.296809306	0.00016231	yes	Up
RPL18A	555.294	226.013	1.29684605	0.00016231	yes	Up
CSTF2	11.2024	4.55878	1.297088154	0.00016231	yes	Up
LAMTOR2	132.238	53.7964	1.297555273	0.00016231	yes	Up
LIMD1	23.6402	9.6134	1.298123572	0.00016231	yes	Up
NCOA1	11.8492	4.81143	1.300252014	0.00016231	yes	Up
SERINC2	13.3439	5.41797	1.300356072	0.00016231	yes	Up
JADE2	33.3321	13.5182	1.302009149	0.00016231	yes	Up
TRMT61B	10.1753	4.12603	1.302245114	0.00016231	yes	Up
RPLP0	516.896	209.418	1.303488587	0.00016231	yes	Up
SARS	69.8154	28.2724	1.304150947	0.00016231	yes	Up
FAM96B	40.3215	16.3077	1.305995987	0.00016231	yes	Up
C1H21ORF59	15.6074	6.30838	1.30688875	0.00016231	yes	Up
FHL1	34.3607	13.886	1.307128351	0.00016231	yes	Up
TMEM52	61.1805	24.723	1.30721808	0.00016231	yes	Up
METTL11A	42.2786	17.0532	1.309885121	0.00016231	yes	Up
JUN	93.5169	37.6863	1.311186947	0.00016231	yes	Up
DNTTIP1	67.2243	27.0659	1.312506466	0.00016231	yes	Up
POLH	14.8742	5.97143	1.316663711	0.00016231	yes	Up
PSMF1	46.5688	18.6541	1.31987095	0.00016231	yes	Up
SPRY3	11.9256	4.77422	1.320724899	0.00016231	yes	Up
EIF3K	90.697	36.2835	1.321741203	0.00016231	yes	Up
TNPO3	40.712	16.2849	1.321919236	0.00016231	yes	Up
RPS17L	2625.91	1049.93	1.322524325	0.00016231	yes	Up
PNRC1	249.671	99.7301	1.323927356	0.00016231	yes	Up
EF1A	4500.4	1796.35	1.324984764	0.00016231	yes	Up
NELFE	14.7167	5.86842	1.326410172	0.00016231	yes	Up

RNF121	14.5995	5.82082	1.326624651	0.00016231	yes	Up
BTC	11.4178	4.55205	1.326696387	0.000721449	yes	Up
EIF2B4	12.2384	4.87803	1.327044422	0.00016231	yes	Up
PRKAG3	62.6976	24.9826	1.32748659	0.00016231	yes	Up
C8H1ORF52	10.5379	4.19246	1.32971847	0.00016231	yes	Up
CNOT11	53.3998	21.2181	1.331538864	0.00016231	yes	Up
G6PC3	14.6733	5.82315	1.33332168	0.00016231	yes	Up
AP1B1	12.1798	4.8199	1.337415324	0.00016231	yes	Up
NOL9	33.5955	13.283	1.338686982	0.00016231	yes	Up
CHURC1	1218.35	481.479	1.339383861	0.00016231	yes	Up
MRPL16	100.069	39.5363	1.339745348	0.00016231	yes	Up
QARS	29.4624	11.6307	1.340937028	0.00016231	yes	Up
MRPL38	22.7878	8.97868	1.343686381	0.00016231	yes	Up
CISD3	11.813	4.652	1.344452393	0.00016231	yes	Up
USP2	163.812	64.4287	1.346265655	0.00016231	yes	Up
CYB561A3	19.2865	7.58418	1.346526245	0.00016231	yes	Up
KANSL3	36.5775	14.3661	1.34828801	0.00016231	yes	Up
LYRM1	36.7897	14.4445	1.348781646	0.00016231	yes	Up
ATP1B4	447.193	175.544	1.349064919	0.00016231	yes	Up
MCL1	51.5653	20.2401	1.349184137	0.00016231	yes	Up
FBXO32	103.023	40.3665	1.351736049	0.00016231	yes	Up
RILP	26.7792	10.4874	1.352455808	0.00016231	yes	Up
CDKN1B	67.5216	26.4149	1.353997142	0.00016231	yes	Up
HYAL2	11.5106	4.50231	1.354225737	0.00016231	yes	Up
CHMP6	117.421	45.909	1.354841536	0.00016231	yes	Up
NDUFB4	127.043	49.665	1.355015469	0.00016231	yes	Up
R3HDM4	13.2476	5.17568	1.355910691	0.00016231	yes	Up
CHTOP	44.0229	17.1484	1.360180211	0.00016231	yes	Up
NFE2L1	60.3305	23.4946	1.360558333	0.00016231	yes	Up
PTTG1IP	10.1721	3.96095	1.360699155	0.00016231	yes	Up
OSR2	10.2045	3.97297	1.36091569	0.00016231	yes	Up
H2A-VIII	15.338	5.95809	1.364188553	0.000587908	yes	Up
SMO	22.219	8.62163	1.365761332	0.00016231	yes	Up
MRPL55	32.3753	12.5434	1.367965105	0.00016231	yes	Up
SHARPIN	16.3782	6.34217	1.368728356	0.00016231	yes	Up
FURIN	31.082	12.0201	1.37063044	0.00016231	yes	Up
DES	3461.61	1336.32	1.373177671	0.00016231	yes	Up
CENPV	182.444	70.4139	1.37352155	0.00016231	yes	Up
COQ4	28.9065	11.1504	1.374298473	0.00016231	yes	Up
ZBTB17	25.7502	9.91933	1.376269055	0.00016231	yes	Up
FKBP8	53.9386	20.7686	1.376914108	0.00016231	yes	Up
CIRH1A	10.2443	3.93546	1.380217226	0.00016231	yes	Up
THAP7	76.8955	29.5325	1.380595683	0.00016231	yes	Up
C1orf43	60.4256	23.1799	1.382285551	0.00016231	yes	Up
NKIRAS2	92.875	35.577	1.384345444	0.00016231	yes	Up
GNG7	38.7929	14.8397	1.386330703	0.00016231	yes	Up
SMG5	21.1786	8.10124	1.386392571	0.00016231	yes	Up
GMPPA	18.5573	7.09481	1.387150866	0.00016231	yes	Up
PLCD4	19.374	7.38097	1.392239515	0.00016231	yes	Up
NPLOC4	44.7473	17.0468	1.39229969	0.00016231	yes	Up
CTSA	46.5942	17.726	1.394283362	0.00016231	yes	Up
CACNB1	31.5892	12.0056	1.395723895	0.00016231	yes	Up
MRPL54	133.316	50.5792	1.398233813	0.00016231	yes	Up
PLEKHH3	13.3328	5.05598	1.398917129	0.00016231	yes	Up

NIT1	11.4315	4.32699	1.401579029	0.00016231	yes	Up
FGFR4	19.6196	7.42557	1.401721949	0.00016231	yes	Up
PGP	81.4477	30.824	1.401819868	0.00016231	yes	Up
PAM16	115.845	43.7513	1.404797987	0.00016231	yes	Up
MAP1LC3A	240.564	90.8421	1.404987799	0.00016231	yes	Up
TRIM63	407.704	153.376	1.410449361	0.00016231	yes	Up
P2RY2	38.7136	14.5604	1.410790481	0.00016231	yes	Up
SRF	18.4847	6.94797	1.411668199	0.00016231	yes	Up
TARS2	14.0006	5.24095	1.417588405	0.00016231	yes	Up
GMEB2	20.284	7.58159	1.419769834	0.00016231	yes	Up
NEURL2	17.5294	6.54483	1.421348992	0.00016231	yes	Up
NDUFS2	46.9102	17.4573	1.426071207	0.00016231	yes	Up
PITHD1	34.4061	12.7954	1.42703912	0.00016231	yes	Up
BCAR1	19.2763	7.16596	1.427596264	0.00016231	yes	Up
NUDCD3	62.3788	23.0842	1.434150064	0.00016231	yes	Up
NDUFA1	428.628	158.573	1.43457895	0.00016231	yes	Up
SNTA1	227.884	84.1129	1.437900653	0.00016231	yes	Up
BRD4	49.9931	18.4069	1.441482314	0.00016231	yes	Up
H2AFV	51.1084	18.8175	1.441485456	0.00016231	yes	Up
ARRDC1	13.553	4.98329	1.443441794	0.00016231	yes	Up
SESN1	622.095	228.65	1.443993992	0.00016231	yes	Up
TFEB	34.6616	12.7219	1.4460241	0.00016231	yes	Up
SSBP3	24.3683	8.9378	1.447013941	0.00016231	yes	Up
TFG	52.9517	19.4136	1.44760933	0.00016231	yes	Up
CHAC1	60.1542	22.0271	1.449385903	0.00016231	yes	Up
RGCC	34.376	12.5702	1.451394078	0.00016231	yes	Up
RNF123	50.115	18.2866	1.454455621	0.00016231	yes	Up
BYSL	25.4545	9.27866	1.455932352	0.00016231	yes	Up
MLLT6	12.204	4.44456	1.457241577	0.00016231	yes	Up
KAT5	10.4785	3.81607	1.457272669	0.00016231	yes	Up
NDUFV1	106.888	38.8408	1.460455074	0.00016231	yes	Up
TMUB1	24.2247	8.79437	1.461826663	0.00016231	yes	Up
CACTIN	36.129	13.0534	1.468731691	0.00016231	yes	Up
NDUFS8	135.067	48.7731	1.469517656	0.00016231	yes	Up
TMBIM1	74.0812	26.6734	1.473705734	0.00016231	yes	Up
JPH2	177.677	63.9478	1.474290307	0.00016231	yes	Up
MYF6	55.0523	19.8064	1.474836158	0.00016231	yes	Up
ALDOC	25.8286	9.26983	1.47835466	0.00016231	yes	Up
TUSC2	31.4388	11.2576	1.481646859	0.00016231	yes	Up
NT5C3B	17.6605	6.32156	1.482173661	0.00016231	yes	Up
SQSTM1	197.24	70.2256	1.489883207	0.00016231	yes	Up
CTDSP1	54.6877	19.4228	1.493465193	0.00016231	yes	Up
ZNF710	17.4999	6.21075	1.494507276	0.00016231	yes	Up
TWF2	74.0246	26.2624	1.495006026	0.00016231	yes	Up
KLF15	91.8229	32.5318	1.497003347	0.00016231	yes	Up
CCNT1	13.8952	4.92288	1.497012122	0.00016231	yes	Up
RNF41	90.2843	31.9446	1.498903057	0.00016231	yes	Up
C17orf53	16.7247	5.91001	1.500747856	0.00016231	yes	Up
MRPL10	59.1922	20.9148	1.500882876	0.00016231	yes	Up
ZNF740	16.389	5.7893	1.501267005	0.00016231	yes	Up
FAM195A	114.386	40.3797	1.50220839	0.00016231	yes	Up
APH1A	15.2603	5.38207	1.503550264	0.00016231	yes	Up
RRP12	24.7757	8.72324	1.505989831	0.00016231	yes	Up
WDR73	24.0968	8.47239	1.508000667	0.00016231	yes	Up



BDH1	52.4232	18.3978	1.510672161	0.00016231	yes	Up
ACYP1	28.0098	9.8267	1.511152765	0.00016231	yes	Up
PFKM	3121.55	1090.98	1.51663792	0.00016231	yes	Up
PMEPA1	10.6419	3.70473	1.522315444	0.00016231	yes	Up
VPS37C	65.7379	22.8599	1.523906278	0.00016231	yes	Up
BTBD2	64.7698	22.4942	1.52576823	0.00016231	yes	Up
NDUFB6	230.377	79.9892	1.526119562	0.00016231	yes	Up
B4GALT2	86.7804	30.0469	1.530153083	0.00016231	yes	Up
PDLIM7	10.888	3.76665	1.531385084	0.00016231	yes	Up
SCAMP3	25.3824	8.77368	1.532574494	0.00016231	yes	Up
PATL1	34.3382	11.8535	1.534501307	0.00016231	yes	Up
HYAL1	10.4367	3.59785	1.536458671	0.00016231	yes	Up
FZD8	12.1101	4.16917	1.538378673	0.00016231	yes	Up
EMC4	41.7038	14.3449	1.539640935	0.00016231	yes	Up
ATG9A	33.3237	11.46	1.539941551	0.00016231	yes	Up
PPAPDC3	244.247	83.9484	1.540766108	0.00016231	yes	Up
WIPF2	15.4454	5.30733	1.541119073	0.00016231	yes	Up
AAAS	37.9114	12.9673	1.547753615	0.00016231	yes	Up
HPS6	22.0041	7.52506	1.547997374	0.00016231	yes	Up
cVg1	14.5205	4.96458	1.548347555	0.00016231	yes	Up
PEO1	23.3525	7.97383	1.550232253	0.00016231	yes	Up
SLC43A2	63.2063	21.5685	1.551142518	0.00016231	yes	Up
RAB5B	34.0505	11.616	1.551562625	0.00016231	yes	Up
RAB24	24.5799	8.37755	1.552878749	0.00016231	yes	Up
BCL7B	18.8037	6.40336	1.554115542	0.00016231	yes	Up
ZNF593	157.969	53.617	1.558879066	0.00016231	yes	Up
SHC1	20.08	6.80621	1.560835699	0.00016231	yes	Up
EIF4B	46.9258	15.8925	1.562035252	0.00016231	yes	Up
TIMM8A	18.1584	6.14587	1.562947931	0.00016231	yes	Up
SGCA	51.8815	17.5555	1.563297105	0.00016231	yes	Up
FAM96A	11.8979	4.024	1.564004748	0.000721449	yes	Up
ASB2	1336.71	451.786	1.564975036	0.00016231	yes	Up
MON1A	29.2496	9.85745	1.569130503	0.00016231	yes	Up
TESK1	18.7929	6.32658	1.570689983	0.00016231	yes	Up
KANSL2	15.4261	5.19152	1.571144463	0.00016231	yes	Up
NFKB2	24.1028	8.09046	1.574907115	0.00016231	yes	Up
FAAH2	10.2284	3.41765	1.581503922	0.00016231	yes	Up
APOPT1	44.6523	14.8477	1.588495023	0.00016231	yes	Up
SPRYD3	18.3144	6.08782	1.588980829	0.00016231	yes	Up
GRHPR	12.4735	4.14346	1.589958435	0.00016231	yes	Up
WNT5B	43.9591	14.5896	1.59122152	0.00016231	yes	Up
LAMTOR1	219.192	72.4017	1.598099667	0.00016231	yes	Up
GCH1	15.9471	5.26141	1.599772709	0.00016231	yes	Up
SPSB1	27.4066	9.02063	1.603223262	0.00016231	yes	Up
CBFA2T2	21.8448	7.18698	1.603832321	0.00016231	yes	Up
DGUOK	11.5486	3.78652	1.608773515	0.00016231	yes	Up
TIMM10	19.3536	6.34499	1.608912154	0.00016231	yes	Up
GIT1	22.7048	7.43946	1.609727518	0.00016231	yes	Up
RPS26	562.804	183.532	1.616600954	0.00016231	yes	Up
RARA	21.5165	7.00515	1.618955571	0.00016231	yes	Up
ZNF511	24.1775	7.82413	1.627662828	0.00016231	yes	Up
MT4	20.1102	6.50178	1.629020784	0.00016231	yes	Up
SPATS2	20.014	6.44225	1.635372981	0.00016231	yes	Up
OSBP	46.1973	14.8514	1.6372096	0.00016231	yes	Up

WDR83OS	29.0744	9.33441	1.639118677	0.00016231	yes	Up
LSM10	11.5061	3.68643	1.642102646	0.00016231	yes	Up
MIEN1	20.9892	6.71825	1.643489792	0.00016231	yes	Up
TAP2	11.3773	3.63708	1.645305661	0.00016231	yes	Up
RPS28	379.06	120.94	1.648134741	0.00016231	yes	Up
UCKL1	44.5739	14.2039	1.649912087	0.00016231	yes	Up
CREB3	11.5438	3.67166	1.652613835	0.00016231	yes	Up
MTG1	21.8425	6.936	1.654962187	0.00016231	yes	Up
ZNF609	25.9132	8.22592	1.655438237	0.00016231	yes	Up
DKK3	28.5309	9.03812	1.65843064	0.00016231	yes	Up
PPAPDC2	21.6645	6.83196	1.664961507	0.00016231	yes	Up
KLHL38	26.584	8.36788	1.66762413	0.00016231	yes	Up
NR2F6	49.9972	15.7188	1.669356218	0.00016231	yes	Up
AIP	14.1563	4.44438	1.671390161	0.00016231	yes	Up
PHPT1	18.3824	5.76713	1.672399688	0.00016231	yes	Up
CRTC1	11.0389	3.46226	1.672810444	0.00016231	yes	Up
GOT2	227.843	71.4575	1.672882701	0.00016231	yes	Up
ECHS1	59.7832	18.7303	1.674366115	0.00016231	yes	Up
PSMB3	128.131	40.084	1.676521175	0.00016231	yes	Up
PSMD11	97.6796	30.484	1.680005072	0.00016231	yes	Up
BFIV21	177.333	55.3306	1.68031156	0.00016231	yes	Up
TSC22D3	188.872	58.8417	1.682498007	0.00016231	yes	Up
MAFA	207.582	64.3924	1.688719022	0.00016231	yes	Up
BHLHE40	36.8113	11.4009	1.691000983	0.00016231	yes	Up
COASY	22.8916	7.08106	1.692781057	0.00016231	yes	Up
FASTK	92.8685	28.6281	1.697757409	0.00016231	yes	Up
PIK3IP1	75.5491	23.159	1.70584161	0.00016231	yes	Up
Six2	157.234	48.091	1.709074386	0.00016231	yes	Up
C19orf25	24.6806	7.54695	1.709411846	0.00016231	yes	Up
MRPS12	50.1178	15.3196	1.709944458	0.00016231	yes	Up
TIMM13	131.378	40.09	1.712409386	0.00016231	yes	Up
CRYAB	293.575	89.4807	1.71408067	0.00016231	yes	Up
DUSP23	40.9594	12.4835	1.714172103	0.00016231	yes	Up
C12H3ORF37	10.4757	3.19218	1.714432741	0.00016231	yes	Up
KIFC3	24.2868	7.39332	1.715878152	0.00016231	yes	Up
C5H14ORF169	28.2196	8.58922	1.716098509	0.00016231	yes	Up
FGF1	15.5345	4.72759	1.716298979	0.00016231	yes	Up
MPV17L2	20.7641	6.31014	1.718347422	0.00016231	yes	Up
FAM47E-STBD1	261.168	79.3156	1.719301587	0.00016231	yes	Up
CYBA	15.0611	4.57199	1.719932989	0.00016231	yes	Up
USP36	20.5161	6.2191	1.721978788	0.00016231	yes	Up
RFC5	17.522	5.3032	1.724232394	0.00016231	yes	Up
SEMA6B	24.2224	7.32594	1.725256027	0.00016231	yes	Up
NOB1	36.6911	11.0958	1.725416469	0.00016231	yes	Up
MRPL2	98.0437	29.6001	1.72782288	0.00016231	yes	Up
THRA	61.5849	18.5677	1.729781542	0.00016231	yes	Up
TPN	20.1098	6.04666	1.733688369	0.00016231	yes	Up
USF1	64.5321	19.373	1.735969595	0.00016231	yes	Up
KCNN3	26.8552	8.04757	1.73857634	0.00016231	yes	Up
PLEKHM2	145.749	43.6471	1.739528278	0.00016231	yes	Up
SESN2	77.4711	23.1162	1.744753967	0.00016231	yes	Up
TM2D2	16.8719	5.02484	1.747472885	0.00016231	yes	Up
GNMT	10.2744	3.04486	1.754606346	0.00016231	yes	Up
HIC1	16.3567	4.84554	1.755152353	0.00016231	yes	Up

WDR13	19.8225	5.87005	1.755694229	0.00016231	yes	Up
C16ORF5	93.4794	27.6306	1.758381583	0.00016231	yes	Up
PSMD2	52.9282	15.6171	1.760910012	0.00016231	yes	Up
SNX21	28.2945	8.34511	1.761518672	0.00016231	yes	Up
MEX3D	12.0299	3.54358	1.763345125	0.00016231	yes	Up
DUSP26	17.1292	5.0261	1.768946493	0.00016231	yes	Up
SUV39H1	17.4086	5.08548	1.77534433	0.00016231	yes	Up
FZD1	12.9956	3.79491	1.775885668	0.00016231	yes	Up
SRSF2	22.0181	6.40417	1.78160647	0.00016231	yes	Up
ATP6V0B	22.3803	6.49435	1.784972332	0.00016231	yes	Up
IRS1	129.587	37.5296	1.787820177	0.00016231	yes	Up
GLUL	61.1258	17.6932	1.788586444	0.00016231	yes	Up
RUSC1	16.5607	4.78528	1.791088407	0.00016231	yes	Up
ABCB6	14.1713	4.06858	1.800374846	0.00016231	yes	Up
CORO6	254.711	72.766	1.807524853	0.00016231	yes	Up
ERBB2	14.0351	4.00709	1.808412525	0.00016231	yes	Up
NHP2	34.8992	9.93225	1.813001485	0.00016231	yes	Up
DECR2	31.5319	8.93873	1.818670329	0.00016231	yes	Up
TMEM115	43.0024	12.1874	1.819026799	0.00016231	yes	Up
ZNF142	16.1629	4.56766	1.823158904	0.00016231	yes	Up
DTX4	16.5867	4.68391	1.824241624	0.00016231	yes	Up
PHC2	18.4828	5.20564	1.828035881	0.00016231	yes	Up
GPATCH4	12.2597	3.45005	1.829234501	0.00016231	yes	Up
ATRAID	10.0183	2.80989	1.83405216	0.00016231	yes	Up
IRF2BP2	162.342	45.4908	1.835389581	0.00016231	yes	Up
IL17RC	22.209	6.19871	1.841104519	0.00016231	yes	Up
SFXN3	27.7928	7.73254	1.84569689	0.00016231	yes	Up
IER5	84.9594	23.5908	1.848549234	0.00016231	yes	Up
TCF15	14.8548	4.09588	1.858683828	0.00016231	yes	Up
MYOD1	218.804	60.1403	1.863235143	0.00016231	yes	Up
GTF3C2	15.9482	4.38347	1.863248323	0.00016231	yes	Up
SKIV2L	14.4612	3.96743	1.865910599	0.00016231	yes	Up
ASNA1	49.5161	13.5577	1.868785236	0.00016231	yes	Up
TPP1	47.3478	12.7897	1.888314969	0.00016231	yes	Up
HSPBP1	12.8388	3.46233	1.890695223	0.00016231	yes	Up
FAM160A2	56.578	15.1462	1.901285295	0.00016231	yes	Up
NPTXR	10.3258	2.76367	1.901596296	0.00016231	yes	Up
PFDN2	55.013	14.718	1.902190939	0.00016231	yes	Up
DNAJB2	381.93	101.957	1.905347417	0.00016231	yes	Up
CSTA	22.4575	5.99358	1.905707438	0.00016231	yes	Up
BNIP3	372.402	99.3671	1.906020655	0.00016231	yes	Up
UBALD1	149.053	39.7321	1.90744846	0.00016231	yes	Up
FAM136A	11.6395	3.09549	1.910789382	0.00016231	yes	Up
IDH2	171.705	45.5786	1.913503534	0.00016231	yes	Up
TMEM203	79.2859	21.0048	1.916345274	0.00016231	yes	Up
TFAP4	12.2593	3.2386	1.920434407	0.00016231	yes	Up
GADD45B	27.213	7.18052	1.92213578	0.00016231	yes	Up
C15orf61	72.1244	19.0252	1.922575792	0.00016231	yes	Up
LLGL1	20.5999	5.4305	1.923480392	0.00016231	yes	Up
ZBTB16	10.2733	2.69697	1.929488301	0.000721449	yes	Up
MRPL24	72.7324	19.0814	1.930431157	0.00016231	yes	Up
TMEM161A	13.125	3.43647	1.933318153	0.00016231	yes	Up
MRPL17	59.2759	15.4913	1.935987445	0.00016231	yes	Up
MKNK2	114.513	29.8116	1.941565676	0.00016231	yes	Up

CDC26	29.1456	7.58201	1.942625837	0.00016231	yes	Up
Stat5	274.319	70.5471	1.959195866	0.00016231	yes	Up
CS	91.9748	23.6299	1.96062511	0.00016231	yes	Up
SYNGR2	153.163	39.28	1.963200989	0.00016231	yes	Up
NAA38	45.0539	11.534	1.965759068	0.00016231	yes	Up
NPB	20.872	5.31979	1.972127648	0.00016231	yes	Up
PSMB4	307.977	78.1618	1.978287016	0.00016231	yes	Up
IPO13	26.2641	6.66231	1.978997758	0.00016231	yes	Up
COMMD4	17.0631	4.31553	1.983270121	0.00016231	yes	Up
HES4	11.8442	2.99129	1.985341068	0.00016231	yes	Up
LDHD	17.574	4.43528	1.986345509	0.00016231	yes	Up
SHF	28.8073	7.21759	1.996845351	0.00016231	yes	Up
UCH-L1	27.4969	6.82465	2.010442014	0.00016231	yes	Up
Wpkci	15.9893	3.96427	2.011979649	0.00016231	yes	Up
RABIF	10.4291	2.58282	2.013595654	0.00016231	yes	Up
ADM	16.7993	4.13757	2.021545494	0.00016231	yes	Up
SNRNP25	16.635	4.08773	2.024850054	0.00016231	yes	Up
GAMT	99.2742	24.3689	2.0263777	0.00016231	yes	Up
BAHCC1	12.7814	3.13007	2.029779043	0.00016231	yes	Up
DNAJC30	23.6905	5.78252	2.034538392	0.00016231	yes	Up
PARS2	10.127	2.46225	2.040157701	0.00016231	yes	Up
ARNT	81.1077	19.3149	2.070124676	0.00016231	yes	Up
PURA	37.3771	8.76602	2.092160763	0.00016231	yes	Up
NUDT8	11.8143	2.76606	2.094629796	0.00016231	yes	Up
C7orf55	13.41	3.12918	2.099452683	0.00016231	yes	Up
PGF	14.4258	3.3447	2.108702607	0.00016231	yes	Up
SAMD11	14.3125	3.31517	2.110120935	0.00016231	yes	Up
SPATA2L	21.408	4.93511	2.116995874	0.00016231	yes	Up
CYP27A1	29.5147	6.76133	2.12605471	0.00016231	yes	Up
CRELD1	77.9738	17.7951	2.131509405	0.00016231	yes	Up
ARRDC2	60.1042	13.5774	2.14625857	0.00016231	yes	Up
PDK4	74.8254	16.862	2.149752422	0.00016231	yes	Up
JTB	167.46	37.6116	2.154566945	0.00016231	yes	Up
TOMM40L	89.2559	19.9899	2.158676282	0.00016231	yes	Up
LAMB2	42.0385	9.37466	2.16487292	0.00016231	yes	Up
PSMD3	180.697	40.0189	2.174819137	0.00016231	yes	Up
LZTS2	32.6438	7.19894	2.180952609	0.00016231	yes	Up
POLR3K	104.343	22.658	2.203241392	0.00016231	yes	Up
SLC35F6	20.5077	4.3955	2.222066508	0.00016231	yes	Up
GPR157	52.3412	10.9796	2.253121505	0.00016231	yes	Up
DOHH	58.7952	12.3297	2.253560682	0.00016231	yes	Up
ST3GAL2	16.0206	3.33973	2.262124802	0.00016231	yes	Up
SIX1	246.477	51.3729	2.262373607	0.00016231	yes	Up
S100A10	2609.83	535.523	2.284935392	0.00016231	yes	Up
TMEM167B	91.4136	18.7572	2.284964333	0.00016231	yes	Up
C22orf39	16.885	3.35876	2.329741563	0.00016231	yes	Up
SLC25A39	36.4504	7.18652	2.342569412	0.00016231	yes	Up
NOG2	12.6583	2.43663	2.377124564	0.00016231	yes	Up
SPEG	136.799	26.1857	2.385206607	0.00016231	yes	Up
CPN1	17.6639	3.34408	2.401122643	0.00016231	yes	Up
SMPD1	57.7743	10.9062	2.405279358	0.00016231	yes	Up
TBC1D25	12.9105	2.42926	2.409956062	0.00016231	yes	Up
MPP1	83.8075	15.0893	2.473553478	0.00016231	yes	Up
RAD23A	436.3	76.7493	2.507094976	0.00016231	yes	Up

AIFM2	13.2314	2.26844	2.544193314	0.00016231	yes	Up
CDK5	13.2684	2.26375	2.551207864	0.00016231	yes	Up
IRS2	14.5185	2.42436	2.582216557	0.00016231	yes	Up
OCLN	12.9102	2.03253	2.667162799	0.00016231	yes	Up
CEBPB	92.563	14.1096	2.713758535	0.00016231	yes	Up
ZNF638	18.8467	2.52932	2.897490456	0.00016231	yes	Up
FAM43A	32.6733	4.36329	2.904623905	0.00016231	yes	Up
ANKRD9	139.75	17.737	2.978014362	0.00016231	yes	Up
ACACB	13.6302	1.67215	3.027030556	0.00016231	yes	Up
FZD2	119.752	14.639	3.03216084	0.00016231	yes	Up
HYAL3	11.6801	1.31964	3.145836307	0.00016231	yes	Up
pvalb1	28.115	1.16183	4.596869154	0.00016231	yes	Up
<small>"Up" means gene was up-regulated in hypertrophic broiler compared to leaner broiler. "Down" means gene was down-regulated in hypertrophic broiler compared to leaner broiler.</small>						

**Table S3. Differential expression analysis of miRNAs in breast muscle between hypertrophic and leaner broilers.**

miRNA	WRR-FPKM	XH-FPKM	log2(WRR/XH)	q value	Regulation <sup>a</sup>
gga-miR-24-3p	18037.72	29569.61	-0.703531782	0	Down
gga-miR-454-3p	26265.61	42837.71	-0.696139826	0	Down
gga-miR-130b-3p	6614.13	10662.16	-0.679309987	1.30E-203	Down
gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	Down
gga-miR-215-5p	14382.9	20757.1	-0.519683861	6.37E-245	Down
gga-miR-206	26129.24	36261.21	-0.463195462	0	Down
gga-miR-146c-5p	1018926.72	1409369.85	-0.458433516	0	Down
gga-miR-34a-5p	3063.87	4134.98	-0.422958824	1.67E-34	Down
gga-miR-19b-3p	61345.53	77980.92	-0.336596508	0	Down
gga-miR-20b-5p	6200.47	7875.37	-0.335403686	2.62E-42	Down
gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	Down
gga-miR-30c-5p	450797.58	568867.75	-0.326047081	0	Down
gga-miR-30a-3p	161784.91	204077.2	-0.325471516	0	Down
gga-miR-106-5p	15701.18	19647.31	-0.313892371	1.17E-91	Down
gga-miR-23b-3p	83219.9	103843.03	-0.309837482	0	Down
gga-miR-30d-5p	3872505.2	4800290.23	-0.300288016	0	Down
gga-miR-126-3p	186591.32	227736.18	-0.27791519	0	Down
gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	Down
gga-miR-1b-3p	311723.47	376965.31	-0.264598543	0	Down
gga-miR-1a-3p	362868.23	438537.85	-0.263689173	0	Down
gga-miR-499-5p	3477.53	4200.74	-0.263014091	5.47E-15	Down
gga-miR-196-5p	9318.88	11221.16	-0.258426903	6.42E-37	Down
gga-miR-30b-5p	70087.1	84269.7	-0.256298615	5.43E-265	Down
gga-miR-183-5p	1050.08	1257.76	-0.250790974	6.63E-05	Down
gga-miR-3523	8246.08	9848.32	-0.246602739	7.18E-30	Down
gga-miR-190a-5p	4073.03	4858.39	-0.244809421	4.22E-15	Down
gga-miR-17-5p	23906.35	28303.64	-0.234027283	1.05E-75	Down
gga-miR-181b-5p	104412.41	123095.75	-0.227921315	0	Down
gga-miR-30a-5p	5516178.95	6501640.5	-0.227568083	0	Down
gga-miR-20a-5p	17755.88	20913.29	-0.226556733	6.19E-53	Down
gga-let-7i	271147.69	318697.47	-0.223542244	0	Down
gga-miR-222a	31511.46	36959.96	-0.220520153	5.73E-88	Down
gga-miR-10a-3p	2368.36	2753.91	-0.208026576	6.49E-07	Down
gga-miR-126-5p	636020.61	736626.19	-0.202292733	0	Down
gga-miR-140-5p	3682.1	4258.29	-0.200178953	1.83E-09	Down
gga-miR-146a-5p	56313.33	64523.74	-0.186787156	3.80E-111	Down
gga-miR-455-5p	2386.54	2712.81	-0.175301048	3.23E-05	Down
gga-miR-30e-5p	3635178.24	4124439.17	-0.172605412	0	Down
gga-miR-18a-5p	2800.21	3123.84	-0.148219094	0.000162346	Down
gga-miR-128-3p	99089.28	110172.91	-0.143402193	1.43E-113	Down
gga-miR-193a-3p	27315.69	30161.5	-0.13341187	6.28E-28	Down
gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	Down
gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	Down
gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	Down
gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	Down
gga-miR-146b-5p	107962.67	113674.9	-0.064814731	1.40E-25	Down

gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	Down
gga-miR-107-3p	57663.43	59591.36	-0.037880075	1.61E-05	Down
gga-miR-26a-5p	5512392.3	5684205.49	-0.034713704	0	Down
gga-miR-133a-3p	16177058.89	16418961.92	-0.011847135	4.63E-144	Down
gga-miR-133c-3p	15232674.15	15445951.44	-0.010493064	1.69E-105	Down
gga-miR-133b-3p	15123175	15329185.58	-0.009953553	3.00E-94	Down
gga-miR-92-3p	543713.66	539248.81	0.021462429	2.80E-14	Up
gga-let-7g-5p	161712.18	156890.77	0.053234308	7.39E-25	Up
gga-miR-140-3p	142165.25	137391.43	0.058843291	1.51E-26	Up
gga-miR-22-3p	6060606.31	5856904.53	0.058890194	0	Up
gga-miR-456-3p	20001.51	19170.51	0.070786644	2.93E-06	Up
gga-miR-221-3p	50108.32	48024.93	0.070833101	4.73E-14	Up
gga-miR-2188-5p	39066.58	37420.32	0.07167951	1.91E-11	Up
gga-miR-181a-5p	2087579.9	1996273.67	0.074088345	0	Up
gga-miR-214	34825.35	33293.56	0.074461152	4.80E-11	Up
gga-let-7f-5p	1810554.5	1701629.77	0.099080869	0	Up
gga-miR-365-3p	27974.83	26158.05	0.10644081	3.39E-17	Up
gga-miR-27b-3p	494682.7	459171.63	0.117036382	0	Up
gga-let-7j-5p	1933522.85	1763522.91	0.142337939	0	Up
gga-miR-148a-3p	1311848.77	1183894.35	0.157627517	0	Up
gga-miR-1662	2863.85	2581.28	0.159435729	9.78E-05	Up
gga-miR-1416-5p	6400.48	5680.46	0.181738783	1.39E-11	Up
gga-let-7b-5p	372600.78	329030.81	0.188974455	0	Up
gga-miR-451	129168.82	113880.42	0.191304584	2.73E-233	Up
gga-miR-146c-5p	4691.26	4126.76	0.194532365	7.10E-10	Up
gga-miR-101-3p	474140.24	401158.63	0.250707448	0	Up
gga-miR-1729-5p	1368.28	1150.89	0.259179981	1.59E-05	Up
gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	Up
gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	Up
gga-miR-2964	75060.2	62386.38	0.276383478	2.63E-274	Up
gga-let-7c-5p	1103087.6	913460.21	0.281700016	0	Up
gga-miR-199-3p	765589.46	619391.76	0.31528522	0	Up
gga-miR-10a-5p	4289804.8	3459316.03	0.319991626	0	Up
gga-miR-10b-5p	4144516.59	3278815.61	0.347595509	0	Up
gga-miR-153-3p	2145.62	1644.13	0.393636657	2.22E-16	Up
gga-miR-1559-5p	6850.52	4924.16	0.485902305	6.64E-73	Up
gga-miR-199-5p	157089.1	112030.78	0.497254361	0	Up
gga-miR-142-3p	10428.06	7423.23	0.499918257	4.44E-116	Up
gga-miR-125b-5p	404462.27	285609.43	0.511527957	0	Up
gga-miR-9-5p	1495.57	1035.8	0.539516416	3.95E-20	Up
gga-miR-1744-3p	2359.27	1586.58	0.581986708	1.80E-35	Up
gga-miR-223	6027.73	3904.8	0.635932582	1.00E-103	Up
gga-miR-204	4336.69	2762.13	0.66037954	4.14E-80	Up
gga-miR-211	4336.69	2762.13	0.66037954	4.14E-80	Up
gga-miR-144-3p	3209.33	1972.95	0.711484191	8.31E-68	Up
gga-miR-458a-3p	2745.66	1660.57	0.735040888	1.59E-61	Up
gga-miR-99a-5p	350453.66	211155.16	0.740486631	0	Up
gga-miR-146b-5p	3582.09	2153.81	0.743477041	1.88E-81	Up
gga-miR-100-5p	464966.83	276139.26	0.761298226	0	Up
gga-miR-21-5p	489673.23	288873.02	0.770950304	0	Up
gga-miR-489-3p	6582.31	3822.59	0.793609947	3.09E-166	Up

gga-miR-218-5p	6523.22	3337.58	0.97634831	1.72E-233	Up
gga-miR-142-5p	108462.71	54058.88	1.014162038	0	Up
gga-miR-205a	4900.37	2137.36	1.206627201	2.97E-247	Up
gga-miR-155	5204.94	1759.22	1.574512065	0	Up
<small><sup>a</sup>"Up" means miRNA was up-regulated in hypertrophic broiler compared to leaner broiler. "Down" means miRNA was down-regulated in hypertrophic broiler compared to leaner broiler.</small>					



**Table S4. Differentially expressed miRNAs and their corresponding target genes with differential expression in hypertrophic broiler compared with leaner broiler.**

miRNA	WRR-FKPM	XH-FKPM	log2(WRR/XH)	q value	Gene	WRR-FKPM	XH-FKPM	log2(WRR/XH)	q value	Correlation <sup>a</sup>
gga-miR-133a-3p	16177058.89	16418961.92	-0.011847135	4.63E-144	VAPB	11.1896	23.6654	-1.080620843	0.00016231	Postive
gga-miR-133c-3p	15232674.15	15445951.44	-0.010493064	1.69E-105	VAPB	11.1896	23.6654	-1.080620843	0.00016231	Postive
gga-miR-133b-3p	15123175	15329185.58	-0.009953553	3.00E-94	VAPB	11.1896	23.6654	-1.080620843	0.00016231	Postive
gga-miR-22-3p	6060606.31	5856904.53	0.058890194	0	PRKAB1	22.2788	10.062	1.146754432	0.00016231	Postive
gga-miR-22-3p	6060606.31	5856904.53	0.058890194	0	FURIN	31.082	12.0201	1.37063044	0.00016231	Postive
gga-miR-22-3p	6060606.31	5856904.53	0.058890194	0	C19orf70	20.8004	9.39152	1.147180693	0.00016231	Postive
gga-miR-22-3p	6060606.31	5856904.53	0.058890194	0	SRF	18.4847	6.94797	1.411668199	0.00016231	Postive
gga-miR-22-3p	6060606.31	5856904.53	0.058890194	0	MED19	42.6245	20.5396	1.053274825	0.00016231	Postive
gga-miR-30a-5p	5516178.95	6501640.5	-0.227568083	0	XPO1	15.2124	35.4973	-1.222461515	0.00016231	Postive
gga-miR-30a-5p	5516178.95	6501640.5	-0.227568083	0	ACTC1	34.0831	88.9522	-1.383973727	0.00016231	Postive
gga-miR-30a-5p	5516178.95	6501640.5	-0.227568083	0	UBE2V2	12.8914	28.1908	-1.128815471	0.00016231	Postive
gga-miR-30a-5p	5516178.95	6501640.5	-0.227568083	0	GOLGA4	5.28505	13.4586	-1.348539319	0.00016231	Postive
gga-miR-30a-5p	5516178.95	6501640.5	-0.227568083	0	RAP1B	4.66868	10.6201	-1.185710739	0.00016231	Postive
gga-miR-30a-5p	5516178.95	6501640.5	-0.227568083	0	HSPA5	13.7934	35.2541	-1.353812933	0.00016231	Postive
gga-miR-26a-5p	5512392.3	5684205.49	-0.034713704	0	COL1A2	124.212	262.943	-1.081945533	0.00016231	Postive
gga-miR-26a-5p	5512392.3	5684205.49	-0.034713704	0	HSPA8	75.6842	422.686	-2.481522272	0.00016231	Postive
gga-miR-26a-5p	5512392.3	5684205.49	-0.034713704	0	ARL5B	4.65906	10.2645	-1.139552538	0.00016231	Postive
gga-miR-26a-5p	5512392.3	5684205.49	-0.034713704	0	PPIG	6.79152	18.4631	-1.442838402	0.00016231	Postive
gga-miR-26a-5p	5512392.3	5684205.49	-0.034713704	0	TPPP	3.7568	10.0241	-1.415896493	0.00016231	Postive
gga-miR-10a-5p	4289804.8	3459316.03	0.319991626	0	SMCR8	68.3574	30.7539	1.15232815	0.00016231	Postive
gga-miR-10a-5p	4289804.8	3459316.03	0.319991626	0	SDK1	3.11991	0.916462	1.767357445	0.00016231	Postive
gga-miR-10b-5p	4144516.59	3278815.61	0.347595509	0	SMCR8	68.3574	30.7539	1.15232815	0.00016231	Postive
gga-miR-10b-5p	4144516.59	3278815.61	0.347595509	0	SDK1	3.11991	0.916462	1.767357445	0.00016231	Postive
gga-miR-30d-5p	3872505.2	4800290.23	-0.300288016	0	XPO1	15.2124	35.4973	-1.222461515	0.00016231	Postive
gga-miR-30d-5p	3872505.2	4800290.23	-0.300288016	0	ACTC1	34.0831	88.9522	-1.383973727	0.00016231	Postive
gga-miR-30d-5p	3872505.2	4800290.23	-0.300288016	0	UBE2V2	12.8914	28.1908	-1.128815471	0.00016231	Postive
gga-miR-30d-5p	3872505.2	4800290.23	-0.300288016	0	GOLGA4	5.28505	13.4586	-1.348539319	0.00016231	Postive
gga-miR-30d-5p	3872505.2	4800290.23	-0.300288016	0	RAP1B	4.66868	10.6201	-1.185710739	0.00016231	Postive
gga-miR-30d-5p	3872505.2	4800290.23	-0.300288016	0	HSPA5	13.7934	35.2541	-1.353812933	0.00016231	Postive
gga-miR-30e-5p	3635178.24	4124439.17	-0.172605412	0	XPO1	15.2124	35.4973	-1.222461515	0.00016231	Postive
gga-miR-30e-5p	3635178.24	4124439.17	-0.172605412	0	ACTC1	34.0831	88.9522	-1.383973727	0.00016231	Postive
gga-miR-30e-5p	3635178.24	4124439.17	-0.172605412	0	UBE2V2	12.8914	28.1908	-1.128815471	0.00016231	Postive
gga-miR-30e-5p	3635178.24	4124439.17	-0.172605412	0	GOLGA4	5.28505	13.4586	-1.348539319	0.00016231	Postive
gga-miR-30e-5p	3635178.24	4124439.17	-0.172605412	0	RAP1B	4.66868	10.6201	-1.185710739	0.00016231	Postive
gga-miR-30e-5p	3635178.24	4124439.17	-0.172605412	0	HSPA5	13.7934	35.2541	-1.353812933	0.00016231	Postive
gga-miR-181a-5p	2087579.9	1996273.67	0.074088345	0	BHLHE40	36.8113	11.4009	1.691000983	0.00016231	Postive
gga-miR-181a-5p	2087579.9	1996273.67	0.074088345	0	GOT2	227.843	71.4575	1.672882701	0.00016231	Postive
gga-miR-181a-5p	2087579.9	1996273.67	0.074088345	0	IRS2	14.5185	2.42436	2.582216557	0.00016231	Postive
gga-miR-181a-5p	2087579.9	1996273.67	0.074088345	0	TMCC1	25.5803	12.7855	1.000524603	0.00016231	Postive
gga-miR-181a-5p	2087579.9	1996273.67	0.074088345	0	FOS	13.2273	5.88745	1.167803796	0.00016231	Postive
gga-miR-181a-5p	2087579.9	1996273.67	0.074088345	0	ADM	16.7993	4.13757	2.021545494	0.00016231	Postive
gga-miR-181a-5p	2087579.9	1996273.67	0.074088345	0	ADCY9	96.6021	45.5592	1.084312137	0.00016231	Postive
gga-let-7j-5p	1933522.85	1763522.91	0.142337939	0	ABCC5	18.0863	8.62963	1.06752669	0.00016231	Postive
gga-let-7j-5p	1933522.85	1763522.91	0.142337939	0	IRS2	14.5185	2.42436	2.582216557	0.00016231	Postive
gga-let-7j-5p	1933522.85	1763522.91	0.142337939	0	FBXO32	103.023	40.3665	1.351736049	0.00016231	Postive
gga-let-7j-5p	1933522.85	1763522.91	0.142337939	0	RBFOX2	175.251	77.2247	1.18228841	0.00016231	Postive

gga-let-7j-5p	1933522.85	1763522.91	0.142337939	0	KLF9	92.8131	43.0242	1.109180081	0.00016231	Postive
gga-let-7j-5p	1933522.85	1763522.91	0.142337939	0	TRIB1	19.8524	9.6717	1.037472028	0.00016231	Postive
gga-let-7j-5p	1933522.85	1763522.91	0.142337939	0	SCYL3	44.2791	19.9482	1.150367326	0.00016231	Postive
gga-let-7f-5p	1810554.5	1701629.77	0.099080869	0	ABCC5	18.0863	8.62963	1.06752669	0.00016231	Postive
gga-let-7f-5p	1810554.5	1701629.77	0.099080869	0	IRS2	14.5185	2.42436	2.582216557	0.00016231	Postive
gga-let-7f-5p	1810554.5	1701629.77	0.099080869	0	FBXO32	103.023	40.3665	1.351736049	0.00016231	Postive
gga-let-7f-5p	1810554.5	1701629.77	0.099080869	0	RBFOX2	175.251	77.2247	1.18228841	0.00016231	Postive
gga-let-7f-5p	1810554.5	1701629.77	0.099080869	0	KLF9	92.8131	43.0242	1.109180081	0.00016231	Postive
gga-let-7f-5p	1810554.5	1701629.77	0.099080869	0	TRIB1	19.8524	9.6717	1.037472028	0.00016231	Postive
gga-let-7f-5p	1810554.5	1701629.77	0.099080869	0	SCYL3	44.2791	19.9482	1.150367326	0.00016231	Postive
gga-miR-148a-3p	1311848.77	1183894.35	0.157627517	0	RBM24	180.272	82.9118	1.120525988	0.00016231	Postive
gga-miR-148a-3p	1311848.77	1183894.35	0.157627517	0	EIF4E3	11.3358	5.50082	1.043167609	0.00016231	Postive
gga-miR-148a-3p	1311848.77	1183894.35	0.157627517	0	CDKN1B	67.5216	26.4149	1.353997142	0.00016231	Postive
gga-miR-148a-3p	1311848.77	1183894.35	0.157627517	0	RBFOX2	175.251	77.2247	1.18228841	0.00016231	Postive
gga-miR-148a-3p	1311848.77	1183894.35	0.157627517	0	FLOT2	23.3419	10.0952	1.209252507	0.00016231	Postive
gga-let-7c-5p	1103087.6	913460.21	0.281700016	0	ABCC5	18.0863	8.62963	1.06752669	0.00016231	Postive
gga-let-7c-5p	1103087.6	913460.21	0.281700016	0	IRS2	14.5185	2.42436	2.582216557	0.00016231	Postive
gga-let-7c-5p	1103087.6	913460.21	0.281700016	0	FBXO32	103.023	40.3665	1.351736049	0.00016231	Postive
gga-let-7c-5p	1103087.6	913460.21	0.281700016	0	RBFOX2	175.251	77.2247	1.18228841	0.00016231	Postive
gga-let-7c-5p	1103087.6	913460.21	0.281700016	0	KLF9	92.8131	43.0242	1.109180081	0.00016231	Postive
gga-let-7c-5p	1103087.6	913460.21	0.281700016	0	TRIB1	19.8524	9.6717	1.037472028	0.00016231	Postive
gga-let-7c-5p	1103087.6	913460.21	0.281700016	0	SCYL3	44.2791	19.9482	1.150367326	0.00016231	Postive
gga-miR-92-3p	543713.66	539248.81	0.021462429	2.80E-14	TGIF1	11.6257	5.20682	1.158843147	0.00016231	Postive
gga-miR-92-3p	543713.66	539248.81	0.021462429	2.80E-14	RBFOX2	175.251	77.2247	1.18228841	0.00016231	Postive
gga-miR-92-3p	543713.66	539248.81	0.021462429	2.80E-14	CDKN1B	67.5216	26.4149	1.353997142	0.00016231	Postive
gga-miR-92-3p	543713.66	539248.81	0.021462429	2.80E-14	IRS2	14.5185	2.42436	2.582216557	0.00016231	Postive
gga-miR-92-3p	543713.66	539248.81	0.021462429	2.80E-14	FBXO32	103.023	40.3665	1.351736049	0.00016231	Postive
gga-miR-92-3p	543713.66	539248.81	0.021462429	2.80E-14	PMEP1	10.6419	3.70473	1.522315444	0.00016231	Postive
gga-miR-92-3p	543713.66	539248.81	0.021462429	2.80E-14	ZDHHC5	10.5734	4.45897	1.245656968	0.00016231	Postive
gga-miR-92-3p	543713.66	539248.81	0.021462429	2.80E-14	SSBP3	24.3683	8.9378	1.447013941	0.00016231	Postive
gga-miR-92-3p	543713.66	539248.81	0.021462429	2.80E-14	TMCC1	25.5803	12.7855	1.000524603	0.00016231	Postive
gga-miR-27b-3p	494682.7	459171.63	0.117036382	0	ZBTB42	15.7169	6.99129	1.168686104	0.00016231	Postive
gga-miR-27b-3p	494682.7	459171.63	0.117036382	0	FAM78A	25.2244	10.4459	1.271883155	0.00016231	Postive
gga-miR-27b-3p	494682.7	459171.63	0.117036382	0	SEMA7A	23.4429	10.57	1.149175672	0.00016231	Postive
gga-miR-27b-3p	494682.7	459171.63	0.117036382	0	TMCC1	25.5803	12.7855	1.000524603	0.00016231	Postive
gga-miR-27b-3p	494682.7	459171.63	0.117036382	0	MN1	51.1796	23.2701	1.137091461	0.00016231	Postive
gga-miR-27b-3p	494682.7	459171.63	0.117036382	0	ROR1	20.7457	10.1095	1.037100692	0.00016231	Postive
gga-miR-27b-3p	494682.7	459171.63	0.117036382	0	IRS1	129.587	37.5296	1.787820177	0.00016231	Postive
gga-miR-21-5p	489673.23	288873.02	0.770950304	0	DUSP8	17.9613	8.31334	1.111391652	0.00016231	Postive
gga-miR-101-3p	474140.24	401158.63	0.250707448	0	CBFA2T2	21.8448	7.18698	1.603832321	0.00016231	Postive
gga-miR-101-3p	474140.24	401158.63	0.250707448	0	KLF9	92.8131	43.0242	1.109180081	0.00016231	Postive
gga-miR-101-3p	474140.24	401158.63	0.250707448	0	FOS	13.2273	5.88745	1.167803796	0.00016231	Postive
gga-miR-101-3p	474140.24	401158.63	0.250707448	0	TGIF1	11.6257	5.20682	1.158843147	0.00016231	Postive
gga-miR-101-3p	474140.24	401158.63	0.250707448	0	CASKIN2	13.1438	5.73164	1.19736253	0.00016231	Postive
gga-miR-101-3p	474140.24	401158.63	0.250707448	0	AHCYL2	26.693	12.0942	1.142146116	0.00016231	Postive
gga-miR-101-3p	474140.24	401158.63	0.250707448	0	NCOA1	11.8492	4.81143	1.300252014	0.00016231	Postive
gga-miR-101-3p	474140.24	401158.63	0.250707448	0	RXRA	58.7086	24.9276	1.235827865	0.00016231	Postive
gga-miR-100-5p	464966.83	276139.26	0.761298226	0	FZD8	12.1101	4.16917	1.538378673	0.00016231	Postive
gga-miR-30c-5p	450797.58	568867.75	-0.326047081	0	XPO1	15.2124	35.4973	-1.222461515	0.00016231	Postive
gga-miR-30c-5p	450797.58	568867.75	-0.326047081	0	ACTC1	34.0831	88.9522	-1.383973727	0.00016231	Postive
gga-miR-30c-5p	450797.58	568867.75	-0.326047081	0	UBE2V2	12.8914	28.1908	-1.128815471	0.00016231	Postive

gga-miR-30c-5p	450797.58	568867.75	-0.326047081	0	GOLGA4	5.28505	13.4586	-1.348539319	0.00016231	Postive
gga-miR-30c-5p	450797.58	568867.75	-0.326047081	0	RAP1B	4.66868	10.6201	-1.185710739	0.00016231	Postive
gga-miR-30c-5p	450797.58	568867.75	-0.326047081	0	HSPA5	13.7934	35.2541	-1.353812933	0.00016231	Postive
gga-miR-125b-5p	404462.27	285609.43	0.511527957	0	RBM24	180.272	82.9118	1.120525988	0.00016231	Postive
gga-let-7b-5p	372600.78	329030.81	0.188974455	0	ABCC5	18.0863	8.62963	1.06752669	0.00016231	Postive
gga-let-7b-5p	372600.78	329030.81	0.188974455	0	IRS2	14.5185	2.42436	2.582216557	0.00016231	Postive
gga-let-7b-5p	372600.78	329030.81	0.188974455	0	FBXO32	103.023	40.3665	1.351736049	0.00016231	Postive
gga-let-7b-5p	372600.78	329030.81	0.188974455	0	RBFOX2	175.251	77.2247	1.18228841	0.00016231	Postive
gga-let-7b-5p	372600.78	329030.81	0.188974455	0	KLF9	92.8131	43.0242	1.109180081	0.00016231	Postive
gga-let-7b-5p	372600.78	329030.81	0.188974455	0	TRIB1	19.8524	9.6717	1.037472028	0.00016231	Postive
gga-let-7b-5p	372600.78	329030.81	0.188974455	0	SCYL3	44.2791	19.9482	1.150367326	0.00016231	Postive
gga-miR-1a-3p	362868.23	438537.85	-0.263689173	0	HSP90B1	12.235	48.3257	-1.981776529	0.00016231	Postive
gga-miR-1a-3p	362868.23	438537.85	-0.263689173	0	SEC62	6.27578	13.3639	-1.090474408	0.00016231	Postive
gga-miR-1a-3p	362868.23	438537.85	-0.263689173	0	HSPD1	37.1698	74.4062	-1.001291915	0.00016231	Postive
gga-miR-1a-3p	362868.23	438537.85	-0.263689173	0	HNRNPA3	6.80745	18.0362	-1.405709027	0.00016231	Postive
gga-miR-1a-3p	362868.23	438537.85	-0.263689173	0	RAP1B	4.66868	10.6201	-1.185710739	0.00016231	Postive
gga-miR-99a-5p	350453.66	211155.16	0.740486631	0	FZD8	12.1101	4.16917	1.538378673	0.00016231	Postive
gga-miR-1b-3p	311723.47	376965.31	-0.264598543	0	HSP90B1	12.235	48.3257	-1.981776529	0.00016231	Postive
gga-miR-1b-3p	311723.47	376965.31	-0.264598543	0	SEC62	6.27578	13.3639	-1.090474408	0.00016231	Postive
gga-miR-1b-3p	311723.47	376965.31	-0.264598543	0	HSPD1	37.1698	74.4062	-1.001291915	0.00016231	Postive
gga-miR-1b-3p	311723.47	376965.31	-0.264598543	0	HNRNPA3	6.80745	18.0362	-1.405709027	0.00016231	Postive
gga-miR-1b-3p	311723.47	376965.31	-0.264598543	0	RAP1B	4.66868	10.6201	-1.185710739	0.00016231	Postive
gga-let-7i	271147.69	318697.47	-0.223542244	0	COL1A2	124.212	262.943	-1.081945533	0.00016231	Postive
gga-let-7i	271147.69	318697.47	-0.223542244	0	COL5A2	22.4483	47.8186	-1.090965698	0.00016231	Postive
gga-let-7i	271147.69	318697.47	-0.223542244	0	VASH2	7.33012	14.702	-1.004103705	0.00016231	Postive
gga-miR-30a-3p	161784.91	204077.2	-0.325471516	0	SUV420H1	7.31529	14.8195	-1.01850981	0.00016231	Postive
gga-miR-30a-3p	161784.91	204077.2	-0.325471516	0	LMNB2	8.63363	19.0617	-1.142637619	0.00016231	Postive
gga-miR-30a-3p	161784.91	204077.2	-0.325471516	0	ROCK2	50.0104	104.56	-1.064030997	0.00016231	Postive
gga-miR-30a-3p	161784.91	204077.2	-0.325471516	0	DCUN1D5	14.6026	34.1085	-1.223906046	0.00016231	Postive
gga-let-7g-5p	161712.18	156890.77	0.053234308	7.39E-25	ABCC5	18.0863	8.62963	1.06752669	0.00016231	Postive
gga-let-7g-5p	161712.18	156890.77	0.053234308	7.39E-25	IRS2	14.5185	2.42436	2.582216557	0.00016231	Postive
gga-let-7g-5p	161712.18	156890.77	0.053234308	7.39E-25	FBXO32	103.023	40.3665	1.351736049	0.00016231	Postive
gga-let-7g-5p	161712.18	156890.77	0.053234308	7.39E-25	RBFOX2	175.251	77.2247	1.18228841	0.00016231	Postive
gga-let-7g-5p	161712.18	156890.77	0.053234308	7.39E-25	KLF9	92.8131	43.0242	1.109180081	0.00016231	Postive
gga-let-7g-5p	161712.18	156890.77	0.053234308	7.39E-25	TRIB1	19.8524	9.6717	1.037472028	0.00016231	Postive
gga-let-7g-5p	161712.18	156890.77	0.053234308	7.39E-25	SCYL3	44.2791	19.9482	1.150367326	0.00016231	Postive
gga-miR-199-5p	157089.1	112030.78	0.497254361	0	USP31	12.5615	5.98806	1.068848168	0.00016231	Postive
gga-miR-199-5p	157089.1	112030.78	0.497254361	0	ZBTB42	15.7169	6.99129	1.168686104	0.00016231	Postive
gga-miR-199-5p	157089.1	112030.78	0.497254361	0	CCNL1	30.6763	13.2045	1.21609481	0.00016231	Postive
gga-miR-199-5p	157089.1	112030.78	0.497254361	0	MN1	51.1796	23.2701	1.137091461	0.00016231	Postive
gga-miR-199-5p	157089.1	112030.78	0.497254361	0	RBM24	180.272	82.9118	1.120525988	0.00016231	Postive
gga-miR-199-5p	157089.1	112030.78	0.497254361	0	PURA	37.3771	8.76602	2.092160763	0.00016231	Postive
gga-miR-142-5p	108462.71	54058.88	1.014162038	0	RBM24	180.272	82.9118	1.120525988	0.00016231	Postive
gga-miR-142-5p	108462.71	54058.88	1.014162038	0	FOXO3	237.178	107.708	1.138844786	0.00016231	Postive
gga-miR-181b-5p	104412.41	123095.75	-0.227921315	0	RAP1B	4.66868	10.6201	-1.185710739	0.00016231	Postive
gga-miR-181b-5p	104412.41	123095.75	-0.227921315	0	ROCK2	50.0104	104.56	-1.064030997	0.00016231	Postive
gga-miR-181b-5p	104412.41	123095.75	-0.227921315	0	FAM13B	8.2073	23.1809	-1.497956986	0.00016231	Postive
gga-miR-181b-5p	104412.41	123095.75	-0.227921315	0	HSP90B1	12.235	48.3257	-1.981776529	0.00016231	Postive
gga-miR-181b-5p	104412.41	123095.75	-0.227921315	0	AFAP1	5.24484	10.6248	-1.018465017	0.00016231	Postive
gga-miR-181b-5p	104412.41	123095.75	-0.227921315	0	HSPA5	13.7934	35.2541	-1.353812933	0.00016231	Postive
gga-miR-181b-5p	104412.41	123095.75	-0.227921315	0	SLC25A25	4.46225	10.4111	-1.222279258	0.00016231	Postive

gga-miR-128-3p	99089.28	110172.91	-0.143402193	1.43E-113	RAP1B	4.66868	10.6201	-1.185710739	0.00016231	Postive
gga-miR-128-3p	99089.28	110172.91	-0.143402193	1.43E-113	FAM133B	25.6715	55.0215	-1.099827875	0.00016231	Postive
gga-miR-128-3p	99089.28	110172.91	-0.143402193	1.43E-113	CKAP4	6.53584	17.7989	-1.445343512	0.00016231	Postive
gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	INSIG1	30.6869	105.105	-1.776136485	0.00016231	Postive
gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	HSPA8	75.6842	422.686	-2.481522272	0.00016231	Postive
gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	CMPK1	3.72517	8.30612	-1.15686845	0.00016231	Postive
gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	SUV420H1	7.31529	14.8195	-1.01850981	0.00016231	Postive
gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	ROCK2	50.0104	104.56	-1.064030997	0.00016231	Postive
gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	ATRX	6.13736	15.9346	-1.376472689	0.00016231	Postive
gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	INSIG1	30.6869	105.105	-1.776136485	0.00016231	Postive
gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	HSPA8	75.6842	422.686	-2.481522272	0.00016231	Postive
gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	CMPK1	3.72517	8.30612	-1.15686845	0.00016231	Postive
gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	SUV420H1	7.31529	14.8195	-1.01850981	0.00016231	Postive
gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	ROCK2	50.0104	104.56	-1.064030997	0.00016231	Postive
gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	ATRX	6.13736	15.9346	-1.376472689	0.00016231	Postive
gga-miR-23b-3p	83219.9	103843.03	-0.309837482	0	ARHGAP5	9.52823	20.7222	-1.120897033	0.00016231	Postive
gga-miR-23b-3p	83219.9	103843.03	-0.309837482	0	FBN1	26.6076	54.9951	-1.047464696	0.00016231	Postive
gga-miR-23b-3p	83219.9	103843.03	-0.309837482	0	SUV420H1	7.31529	14.8195	-1.01850981	0.00016231	Postive
gga-miR-23b-3p	83219.9	103843.03	-0.309837482	0	RAP1B	4.66868	10.6201	-1.185710739	0.00016231	Postive
gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	MYLK4	74.76	168.484	-1.172273119	0.00016231	Postive
gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	ARHGAP5	9.52823	20.7222	-1.120897033	0.00016231	Postive
gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	FAM133B	25.6715	55.0215	-1.099827875	0.00016231	Postive
gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	LRRFP2	22.1577	55.09	-1.313982327	0.00016231	Postive
gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	VAPB	11.1896	23.6654	-1.080620843	0.00016231	Postive
gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	CMPK1	3.72517	8.30612	-1.15686845	0.00016231	Postive
gga-miR-2964	75060.2	62386.38	0.276383478	2.63E-274	SRSF2	22.0181	6.40417	1.78160647	0.00016231	Postive
gga-miR-2964	75060.2	62386.38	0.276383478	2.63E-274	SMCR8	68.3574	30.7539	1.15232815	0.00016231	Postive
gga-miR-30b-5p	70087.1	84269.7	-0.256298615	5.43E-265	XPO1	15.2124	35.4973	-1.222461515	0.00016231	Postive
gga-miR-30b-5p	70087.1	84269.7	-0.256298615	5.43E-265	ACTC1	34.0831	88.9522	-1.383973727	0.00016231	Postive
gga-miR-30b-5p	70087.1	84269.7	-0.256298615	5.43E-265	UBE2V2	12.8914	28.1908	-1.128815471	0.00016231	Postive
gga-miR-30b-5p	70087.1	84269.7	-0.256298615	5.43E-265	GOLGA4	5.28505	13.4586	-1.348539319	0.00016231	Postive
gga-miR-30b-5p	70087.1	84269.7	-0.256298615	5.43E-265	RAP1B	4.66868	10.6201	-1.185710739	0.00016231	Postive
gga-miR-30b-5p	70087.1	84269.7	-0.256298615	5.43E-265	HSPA5	13.7934	35.2541	-1.353812933	0.00016231	Postive
gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	MYLK4	74.76	168.484	-1.172273119	0.00016231	Postive
gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	ARHGAP5	9.52823	20.7222	-1.120897033	0.00016231	Postive
gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	FAM133B	25.6715	55.0215	-1.099827875	0.00016231	Postive
gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	LRRFP2	22.1577	55.09	-1.313982327	0.00016231	Postive
gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	VAPB	11.1896	23.6654	-1.080620843	0.00016231	Postive
gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	CMPK1	3.72517	8.30612	-1.15686845	0.00016231	Postive
gga-miR-19b-3p	61345.53	77980.92	-0.336596508	0	RAP1B	4.66868	10.6201	-1.185710739	0.00016231	Postive
gga-miR-19b-3p	61345.53	77980.92	-0.336596508	0	INSIG1	30.6869	105.105	-1.776136485	0.00016231	Postive
gga-miR-19b-3p	61345.53	77980.92	-0.336596508	0	ARHGAP5	9.52823	20.7222	-1.120897033	0.00016231	Postive
gga-miR-19b-3p	61345.53	77980.92	-0.336596508	0	ATRX	6.13736	15.9346	-1.376472689	0.00016231	Postive
gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	RAP1B	4.66868	10.6201	-1.185710739	0.00016231	Postive
gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	INSIG1	30.6869	105.105	-1.776136485	0.00016231	Postive
gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	ARHGAP5	9.52823	20.7222	-1.120897033	0.00016231	Postive
gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	ATRX	6.13736	15.9346	-1.376472689	0.00016231	Postive
gga-miR-107-3p	57663.43	59591.36	-0.037880075	1.61E-05	ARHGAP5	9.52823	20.7222	-1.120897033	0.00016231	Postive
gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	MYLK4	74.76	168.484	-1.172273119	0.00016231	Postive
gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	ARHGAP5	9.52823	20.7222	-1.120897033	0.00016231	Postive
gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	FAM133B	25.6715	55.0215	-1.099827875	0.00016231	Postive

gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	LRRFIP2	22.1577	55.09	-1.313982327	0.00016231	Postive
gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	VAPB	11.1896	23.6654	-1.080620843	0.00016231	Postive
gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	CMPK1	3.72517	8.30612	-1.15686845	0.00016231	Postive
gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	MYLK4	74.76	168.484	-1.172273119	0.00016231	Postive
gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	ARHGAP5	9.52823	20.7222	-1.120897033	0.00016231	Postive
gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	FAM133B	25.6715	55.0215	-1.099827875	0.00016231	Postive
gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	LRRFIP2	22.1577	55.09	-1.313982327	0.00016231	Postive
gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	VAPB	11.1896	23.6654	-1.080620843	0.00016231	Postive
gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	CMPK1	3.72517	8.30612	-1.15686845	0.00016231	Postive
gga-miR-221-3p	50108.32	48024.93	0.070833101	4.73E-14	CDKN1B	67.5216	26.4149	1.353997142	0.00016231	Postive
gga-miR-221-3p	50108.32	48024.93	0.070833101	4.73E-14	FOS	13.2273	5.88745	1.167803796	0.00016231	Postive
gga-miR-221-3p	50108.32	48024.93	0.070833101	4.73E-14	TMCC1	25.5803	12.7855	1.000524603	0.00016231	Postive
gga-miR-221-3p	50108.32	48024.93	0.070833101	4.73E-14	RBM24	180.272	82.9118	1.120525988	0.00016231	Postive
gga-miR-221-3p	50108.32	48024.93	0.070833101	4.73E-14	SRSF2	22.0181	6.40417	1.78160647	0.00016231	Postive
gga-miR-221-3p	50108.32	48024.93	0.070833101	4.73E-14	FOXO3	237.178	107.708	1.138844786	0.00016231	Postive
gga-miR-2188-5p	39066.58	37420.32	0.07167951	1.91E-11	JUN	93.5169	37.6863	1.311186947	0.00016231	Postive
gga-miR-2188-5p	39066.58	37420.32	0.07167951	1.91E-11	PURA	37.3771	8.76602	2.092160763	0.00016231	Postive
gga-miR-222a	31511.46	36959.96	-0.220520153	5.73E-88	VAPB	11.1896	23.6654	-1.080620843	0.00016231	Postive
gga-miR-222a	31511.46	36959.96	-0.220520153	5.73E-88	PNRC2	6.9864	19.5883	-1.487371046	0.00016231	Postive
gga-miR-365-3p	27974.83	26158.05	0.10644081	3.39E-17	ADM	16.7993	4.13757	2.021545494	0.00016231	Postive
gga-miR-454-3p	26265.61	42837.71	-0.696139826	0	INSIG1	30.6869	105.105	-1.776136485	0.00016231	Postive
gga-miR-454-3p	26265.61	42837.71	-0.696139826	0	CMPK1	3.72517	8.30612	-1.15686845	0.00016231	Postive
gga-miR-454-3p	26265.61	42837.71	-0.696139826	0	SUV420H1	7.31529	14.8195	-1.01850981	0.00016231	Postive
gga-miR-454-3p	26265.61	42837.71	-0.696139826	0	ROCK2	50.0104	104.56	-1.064030997	0.00016231	Postive
gga-miR-454-3p	26265.61	42837.71	-0.696139826	0	ATRX	6.13736	15.9346	-1.376472689	0.00016231	Postive
gga-miR-206	26129.24	36261.21	-0.463195462	0	HSP90B1	12.235	48.3257	-1.981776529	0.00016231	Postive
gga-miR-206	26129.24	36261.21	-0.463195462	0	SEC62	6.27578	13.3639	-1.090474408	0.00016231	Postive
gga-miR-206	26129.24	36261.21	-0.463195462	0	HSPD1	37.1698	74.4062	-1.001291915	0.00016231	Postive
gga-miR-206	26129.24	36261.21	-0.463195462	0	HNRNPA3	6.80745	18.0362	-1.405709027	0.00016231	Postive
gga-miR-206	26129.24	36261.21	-0.463195462	0	RAP1B	4.66868	10.6201	-1.185710739	0.00016231	Postive
gga-miR-17-5p	23906.35	28303.64	-0.234027283	1.05E-75	TRIP11	4.70797	11.8021	-1.325866555	0.00016231	Postive
gga-miR-17-5p	23906.35	28303.64	-0.234027283	1.05E-75	FAM129A	5.49809	12.1854	-1.148151182	0.00016231	Postive
gga-miR-17-5p	23906.35	28303.64	-0.234027283	1.05E-75	VASH2	7.33012	14.702	-1.004103705	0.00016231	Postive
gga-miR-17-5p	23906.35	28303.64	-0.234027283	1.05E-75	CMPK1	3.72517	8.30612	-1.15686845	0.00016231	Postive
gga-miR-17-5p	23906.35	28303.64	-0.234027283	1.05E-75	TPPP	3.7568	10.0241	-1.415896493	0.00016231	Postive
gga-miR-24-3p	18037.72	29569.61	-0.703531782	0	RAP1B	4.66868	10.6201	-1.185710739	0.00016231	Postive
gga-miR-24-3p	18037.72	29569.61	-0.703531782	0	INSIG1	30.6869	105.105	-1.776136485	0.00016231	Postive
gga-miR-20a-5p	17755.88	20913.29	-0.226556733	6.19E-53	TRIP11	4.70797	11.8021	-1.325866555	0.00016231	Postive
gga-miR-20a-5p	17755.88	20913.29	-0.226556733	6.19E-53	VASH2	7.33012	14.702	-1.004103705	0.00016231	Postive
gga-miR-20a-5p	17755.88	20913.29	-0.226556733	6.19E-53	FAM129A	5.49809	12.1854	-1.148151182	0.00016231	Postive
gga-miR-20a-5p	17755.88	20913.29	-0.226556733	6.19E-53	CMPK1	3.72517	8.30612	-1.15686845	0.00016231	Postive
gga-miR-20a-5p	17755.88	20913.29	-0.226556733	6.19E-53	TPPP	3.7568	10.0241	-1.415896493	0.00016231	Postive
gga-miR-106-5p	15701.18	19647.31	-0.313892371	1.17E-91	TRIP11	4.70797	11.8021	-1.325866555	0.00016231	Postive
gga-miR-106-5p	15701.18	19647.31	-0.313892371	1.17E-91	FAM129A	5.49809	12.1854	-1.148151182	0.00016231	Postive
gga-miR-106-5p	15701.18	19647.31	-0.313892371	1.17E-91	VASH2	7.33012	14.702	-1.004103705	0.00016231	Postive
gga-miR-106-5p	15701.18	19647.31	-0.313892371	1.17E-91	CMPK1	3.72517	8.30612	-1.15686845	0.00016231	Postive
gga-miR-106-5p	15701.18	19647.31	-0.313892371	1.17E-91	TPPP	3.7568	10.0241	-1.415896493	0.00016231	Postive
gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	MAPRE2	88.9765	40.2294	1.145174128	0.00016231	Postive
gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	FOS	13.2273	5.88745	1.167803796	0.00016231	Postive
gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	USP31	12.5615	5.98806	1.068848168	0.00016231	Postive
gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	FOXO3	237.178	107.708	1.138844786	0.00016231	Postive

gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	MAPRE2	88.9765	40.2294	1.145174128	0.00016231	Postive
gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	FOS	13.2273	5.88745	1.167803796	0.00016231	Postive
gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	USP31	12.5615	5.98806	1.068848168	0.00016231	Postive
gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	FOXO3	237.178	107.708	1.138844786	0.00016231	Postive
gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	MYLK4	74.76	168.484	-1.172273119	0.00016231	Postive
gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	ARHGAP5	9.52823	20.7222	-1.120897033	0.00016231	Postive
gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	FAM133B	25.6715	55.0215	-1.099827875	0.00016231	Postive
gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	LRRFIP2	22.1577	55.09	-1.313982327	0.00016231	Postive
gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	VAPB	11.1896	23.6654	-1.080620843	0.00016231	Postive
gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	CMPK1	3.72517	8.30612	-1.15686845	0.00016231	Postive
gga-miR-142-3p	10428.06	7423.23	0.499918257	4.44E-116	DIRC2	52.0867	21.3661	1.285591443	0.00016231	Postive
gga-miR-142-3p	10428.06	7423.23	0.499918257	4.44E-116	TFG	52.9517	19.4136	1.44760933	0.00016231	Postive
gga-miR-196-5p	9318.88	11221.16	-0.258426903	6.42E-37	COL1A2	124.212	262.943	-1.081945533	0.00016231	Postive
gga-miR-1559-5p	6850.52	4924.16	0.485902305	6.64E-73	RBM24	180.272	82.9118	1.120525988	0.00016231	Postive
gga-miR-130b-3p	6614.13	10662.16	-0.679309987	1.30E-203	INSIG1	30.6869	105.105	-1.776136485	0.00016231	Postive
gga-miR-130b-3p	6614.13	10662.16	-0.679309987	1.30E-203	CMPK1	3.72517	8.30612	-1.15686845	0.00016231	Postive
gga-miR-130b-3p	6614.13	10662.16	-0.679309987	1.30E-203	SUV420H1	7.31529	14.8195	-1.01850981	0.00016231	Postive
gga-miR-130b-3p	6614.13	10662.16	-0.679309987	1.30E-203	ROCK2	50.0104	104.56	-1.064030997	0.00016231	Postive
gga-miR-130b-3p	6614.13	10662.16	-0.679309987	1.30E-203	ATRX	6.13736	15.9346	-1.376472689	0.00016231	Postive
gga-miR-489-3p	6582.31	3822.59	0.793609947	3.09E-166	USP31	12.5615	5.98806	1.068848168	0.00016231	Postive
gga-miR-489-3p	6582.31	3822.59	0.793609947	3.09E-166	RBM24	180.272	82.9118	1.120525988	0.00016231	Postive
gga-miR-218-5p	6523.22	3337.58	0.97634831	1.72E-233	USP31	12.5615	5.98806	1.068848168	0.00016231	Postive
gga-miR-218-5p	6523.22	3337.58	0.97634831	1.72E-233	SPSB1	27.4066	9.02063	1.603223262	0.00016231	Postive
gga-miR-218-5p	6523.22	3337.58	0.97634831	1.72E-233	PURA	37.3771	8.76602	2.092160763	0.00016231	Postive
gga-miR-218-5p	6523.22	3337.58	0.97634831	1.72E-233	KLF9	92.8131	43.0242	1.109180081	0.00016231	Postive
gga-miR-1416-5p	6400.48	5680.46	0.181738783	1.39E-11	SRSF2	22.0181	6.40417	1.78160647	0.00016231	Postive
gga-miR-20b-5p	6200.47	7875.37	-0.335403686	2.62E-42	TRIP11	4.70797	11.8021	-1.325866555	0.00016231	Postive
gga-miR-20b-5p	6200.47	7875.37	-0.335403686	2.62E-42	FAM129A	5.49809	12.1854	-1.148151182	0.00016231	Postive
gga-miR-20b-5p	6200.47	7875.37	-0.335403686	2.62E-42	VASH2	7.33012	14.702	-1.004103705	0.00016231	Postive
gga-miR-20b-5p	6200.47	7875.37	-0.335403686	2.62E-42	CMPK1	3.72517	8.30612	-1.15686845	0.00016231	Postive
gga-miR-20b-5p	6200.47	7875.37	-0.335403686	2.62E-42	TPPP	3.7568	10.0241	-1.415896493	0.00016231	Postive
gga-miR-223	6027.73	3904.8	0.635932582	1.00E-103	FOXO3	237.178	107.708	1.138844786	0.00016231	Postive
gga-miR-223	6027.73	3904.8	0.635932582	1.00E-103	EIF4E3	11.3358	5.50082	1.043167609	0.00016231	Postive
gga-miR-155	5204.94	1759.22	1.574512065	0	CEBPB	92.563	14.1096	2.713758535	0.00016231	Postive
gga-miR-155	5204.94	1759.22	1.574512065	0	FOS	13.2273	5.88745	1.167803796	0.00016231	Postive
gga-miR-155	5204.94	1759.22	1.574512065	0	RNF123	50.115	18.2866	1.454455621	0.00016231	Postive
gga-miR-205a	4900.37	2137.36	1.206627201	2.97E-247	SSBP3	24.3683	8.9378	1.447013941	0.00016231	Postive
gga-miR-205a	4900.37	2137.36	1.206627201	2.97E-247	GPX3	1352.74	588.922	1.199736103	0.00016231	Postive
gga-miR-204	4336.69	2762.13	0.66037954	4.14E-80	DVL3	11.3959	4.71477	1.273255568	0.00016231	Postive
gga-miR-204	4336.69	2762.13	0.66037954	4.14E-80	RBM24	180.272	82.9118	1.120525988	0.00016231	Postive
gga-miR-204	4336.69	2762.13	0.66037954	4.14E-80	IRF2BP2	162.342	45.4908	1.835389581	0.00016231	Postive
gga-miR-204	4336.69	2762.13	0.66037954	4.14E-80	MAPRE2	88.9765	40.2294	1.145174128	0.00016231	Postive
gga-miR-211	4336.69	2762.13	0.66037954	4.14E-80	DVL3	11.3959	4.71477	1.273255568	0.00016231	Postive
gga-miR-211	4336.69	2762.13	0.66037954	4.14E-80	RBM24	180.272	82.9118	1.120525988	0.00016231	Postive
gga-miR-211	4336.69	2762.13	0.66037954	4.14E-80	IRF2BP2	162.342	45.4908	1.835389581	0.00016231	Postive
gga-miR-211	4336.69	2762.13	0.66037954	4.14E-80	MAPRE2	88.9765	40.2294	1.145174128	0.00016231	Postive
gga-miR-190a-5p	4073.03	4858.39	-0.244809421	4.22E-15	ROCK1	3.97387	12.3142	-1.631706323	0.00016231	Postive
gga-miR-190a-5p	4073.03	4858.39	-0.244809421	4.22E-15	FBN1	26.6076	54.9951	-1.047464696	0.00016231	Postive
gga-miR-190a-5p	4073.03	4858.39	-0.244809421	4.22E-15	VAPB	11.1896	23.6654	-1.080620843	0.00016231	Postive
gga-miR-190a-5p	4073.03	4858.39	-0.244809421	4.22E-15	XPO1	15.2124	35.4973	-1.222461515	0.00016231	Postive
gga-miR-140-5p	3682.1	4258.29	-0.200178953	1.83E-09	HNRNP3	17.512	35.4095	-1.015792613	0.00016231	Postive

gga-miR-140-5p	3682.1	4258.29	-0.200178953	1.83E-09	DCUN1D5	14.6026	34.1085	-1.223906046	0.00016231	Postive
gga-miR-499-5p	3477.53	4200.74	-0.263014091	5.47E-15	UBE2V2	12.8914	28.1908	-1.128815471	0.00016231	Postive
gga-miR-144-3p	3209.33	1972.95	0.711484191	8.31E-68	CBFA2T2	21.8448	7.18698	1.603832321	0.00016231	Postive
gga-miR-144-3p	3209.33	1972.95	0.711484191	8.31E-68	KLF9	92.8131	43.0242	1.109180081	0.00016231	Postive
gga-miR-144-3p	3209.33	1972.95	0.711484191	8.31E-68	FOS	13.2273	5.88745	1.167803796	0.00016231	Postive
gga-miR-144-3p	3209.33	1972.95	0.711484191	8.31E-68	TGIF1	11.6257	5.20682	1.158843147	0.00016231	Postive
gga-miR-144-3p	3209.33	1972.95	0.711484191	8.31E-68	CASKIN2	13.1438	5.73164	1.19736253	0.00016231	Postive
gga-miR-144-3p	3209.33	1972.95	0.711484191	8.31E-68	AHCYL2	26.693	12.0942	1.142146116	0.00016231	Postive
gga-miR-144-3p	3209.33	1972.95	0.711484191	8.31E-68	NCOA1	11.8492	4.81143	1.300252014	0.00016231	Postive
gga-miR-144-3p	3209.33	1972.95	0.711484191	8.31E-68	RXRA	58.7086	24.9276	1.235827865	0.00016231	Postive
gga-miR-458a-3p	2745.66	1660.57	0.735040888	1.59E-61	PURA	37.3771	8.76602	2.092160763	0.00016231	Postive
gga-miR-1744-3p	2359.27	1586.58	0.581986708	1.80E-35	IRS1	129.587	37.5296	1.787820177	0.00016231	Postive
gga-miR-1744-3p	2359.27	1586.58	0.581986708	1.80E-35	BHLHE40	36.8113	11.4009	1.691000983	0.00016231	Postive
gga-miR-1744-3p	2359.27	1586.58	0.581986708	1.80E-35	TMCC1	25.5803	12.7855	1.000524603	0.00016231	Postive
gga-miR-153-3p	2145.62	1644.13	0.393636657	2.22E-16	PURA	37.3771	8.76602	2.092160763	0.00016231	Postive
gga-miR-153-3p	2145.62	1644.13	0.393636657	2.22E-16	IRS2	14.5185	2.42436	2.582216557	0.00016231	Postive
gga-miR-153-3p	2145.62	1644.13	0.393636657	2.22E-16	USP31	12.5615	5.98806	1.068848168	0.00016231	Postive
gga-miR-153-3p	2145.62	1644.13	0.393636657	2.22E-16	FOXO3	237.178	107.708	1.138844786	0.00016231	Postive
gga-miR-153-3p	2145.62	1644.13	0.393636657	2.22E-16	SSBP3	24.3683	8.9378	1.447013941	0.00016231	Postive
gga-miR-153-3p	2145.62	1644.13	0.393636657	2.22E-16	MAFA	207.582	64.3924	1.688719022	0.00016231	Postive
gga-miR-9-5p	1495.57	1035.8	0.539516416	3.95E-20	EIF4E3	11.3358	5.50082	1.043167609	0.00016231	Postive
gga-miR-9-5p	1495.57	1035.8	0.539516416	3.95E-20	GOT1	140.404	68.0002	1.045973143	0.00016231	Postive
gga-miR-9-5p	1495.57	1035.8	0.539516416	3.95E-20	RBFOX2	175.251	77.2247	1.18228841	0.00016231	Postive
gga-miR-9-5p	1495.57	1035.8	0.539516416	3.95E-20	PURA	37.3771	8.76602	2.092160763	0.00016231	Postive
gga-miR-9-5p	1495.57	1035.8	0.539516416	3.95E-20	RAB40B	11.8084	5.28659	1.159404149	0.00016231	Postive
gga-miR-9-5p	1495.57	1035.8	0.539516416	3.95E-20	FAM117A	27.7614	12.3725	1.165943282	0.00016231	Postive
gga-miR-9-5p	1495.57	1035.8	0.539516416	3.95E-20	AMOTL1	58.0717	24.3905	1.251515935	0.00016231	Postive
gga-miR-9-5p	1495.57	1035.8	0.539516416	3.95E-20	RBM24	180.272	82.9118	1.120525988	0.00016231	Postive
gga-miR-9-5p	1495.57	1035.8	0.539516416	3.95E-20	SRF	18.4847	6.94797	1.411668199	0.00016231	Postive
gga-miR-1729-5p	1368.28	1150.89	0.259179981	1.59E-05	RBM24	180.272	82.9118	1.120525988	0.00016231	Postive
gga-miR-1729-5p	1368.28	1150.89	0.259179981	1.59E-05	IRF2BP2	162.342	45.4908	1.835389581	0.00016231	Postive
gga-miR-1729-5p	1368.28	1150.89	0.259179981	1.59E-05	DVL3	11.3959	4.71477	1.273255568	0.00016231	Postive
gga-miR-1729-5p	1368.28	1150.89	0.259179981	1.59E-05	PMEP1	10.6419	3.70473	1.522315444	0.00016231	Postive
gga-miR-183-5p	1050.08	1257.76	-0.250790974	6.63E-05	VAPB	11.1896	23.6654	-1.080620843	0.00016231	Postive
gga-miR-183-5p	1050.08	1257.76	-0.250790974	6.63E-05	SEPT7	30.9083	67.4513	-1.125851943	0.00016231	Postive
gga-miR-183-5p	1050.08	1257.76	-0.250790974	6.63E-05	INSIG1	30.6869	105.105	-1.776136485	0.00016231	Postive
gga-miR-183-5p	1050.08	1257.76	-0.250790974	6.63E-05	GNB1	8.30324	18.3398	-1.143231602	0.00016231	Postive
gga-miR-133a-3p	16177058.89	16418961.92	-0.011847135	4.63E-144	SRSF2	22.0181	6.40417	1.78160647	0.00016231	Negative
gga-miR-133c-3p	15232674.15	15445951.44	-0.010493064	1.69E-105	SRSF2	22.0181	6.40417	1.78160647	0.00016231	Negative
gga-miR-133b-3p	15123175	15329185.58	-0.009953553	3.00E-94	SRSF2	22.0181	6.40417	1.78160647	0.00016231	Negative
gga-miR-22-3p	6060606.31	5856904.53	0.058890194	0	HNRNPA3	6.80745	18.0362	-1.405709027	0.00016231	Negative
gga-miR-30a-5p	5516178.95	6501640.5	-0.227568083	0	TMCC1	25.5803	12.7855	1.000524603	0.00016231	Negative
gga-miR-30a-5p	5516178.95	6501640.5	-0.227568083	0	KLF10	27.7166	13.8179	1.004211916	0.00016231	Negative
gga-miR-30a-5p	5516178.95	6501640.5	-0.227568083	0	PGP	81.4477	30.824	1.401819868	0.00016231	Negative
gga-miR-30a-5p	5516178.95	6501640.5	-0.227568083	0	FOXO3	237.178	107.708	1.138844786	0.00016231	Negative
gga-miR-30a-5p	5516178.95	6501640.5	-0.227568083	0	MEX3D	12.0299	3.54358	1.763345125	0.00016231	Negative
gga-miR-30a-5p	5516178.95	6501640.5	-0.227568083	0	IRS1	129.587	37.5296	1.787820177	0.00016231	Negative
gga-miR-30a-5p	5516178.95	6501640.5	-0.227568083	0	SSBP3	24.3683	8.9378	1.447013941	0.00016231	Negative
gga-miR-30a-5p	5516178.95	6501640.5	-0.227568083	0	IRS2	14.5185	2.42436	2.582216557	0.00016231	Negative
gga-miR-30a-5p	5516178.95	6501640.5	-0.227568083	0	IER5	84.9594	23.5908	1.848549234	0.00016231	Negative

gga-miR-26a-5p	5512392.3	5684205.49	-0.034713704	0	RBM24	180.272	82.9118	1.120525988	0.00016231	Negative
gga-miR-26a-5p	5512392.3	5684205.49	-0.034713704	0	CDK2AP1	41.3719	18.6736	1.14765113	0.00016231	Negative
gga-miR-26a-5p	5512392.3	5684205.49	-0.034713704	0	PMEPA1	10.6419	3.70473	1.522315444	0.00016231	Negative
gga-miR-26a-5p	5512392.3	5684205.49	-0.034713704	0	PURA	37.3771	8.76602	2.092160763	0.00016231	Negative
gga-miR-26a-5p	5512392.3	5684205.49	-0.034713704	0	LINGO1	224.286	98.5926	1.185788297	0.00016231	Negative
gga-miR-26a-5p	5512392.3	5684205.49	-0.034713704	0	BHLHE40	36.8113	11.4009	1.691000983	0.00016231	Negative
gga-miR-26a-5p	5512392.3	5684205.49	-0.034713704	0	TMCC1	25.5803	12.7855	1.000524603	0.00016231	Negative
gga-miR-30d-5p	3872505.2	4800290.23	-0.300288016	0	TMCC1	25.5803	12.7855	1.000524603	0.00016231	Negative
gga-miR-30d-5p	3872505.2	4800290.23	-0.300288016	0	KLF10	27.7166	13.8179	1.004211916	0.00016231	Negative
gga-miR-30d-5p	3872505.2	4800290.23	-0.300288016	0	PGP	81.4477	30.824	1.401819868	0.00016231	Negative
gga-miR-30d-5p	3872505.2	4800290.23	-0.300288016	0	FOXO3	237.178	107.708	1.138844786	0.00016231	Negative
gga-miR-30d-5p	3872505.2	4800290.23	-0.300288016	0	MEX3D	12.0299	3.54358	1.763345125	0.00016231	Negative
gga-miR-30d-5p	3872505.2	4800290.23	-0.300288016	0	IRS1	129.587	37.5296	1.787820177	0.00016231	Negative
gga-miR-30d-5p	3872505.2	4800290.23	-0.300288016	0	SSBP3	24.3683	8.9378	1.447013941	0.00016231	Negative
gga-miR-30d-5p	3872505.2	4800290.23	-0.300288016	0	IRS2	14.5185	2.42436	2.582216557	0.00016231	Negative
gga-miR-30d-5p	3872505.2	4800290.23	-0.300288016	0	IER5	84.9594	23.5908	1.848549234	0.00016231	Negative
gga-miR-30e-5p	3635178.24	4124439.17	-0.172605412	0	TMCC1	25.5803	12.7855	1.000524603	0.00016231	Negative
gga-miR-30e-5p	3635178.24	4124439.17	-0.172605412	0	KLF10	27.7166	13.8179	1.004211916	0.00016231	Negative
gga-miR-30e-5p	3635178.24	4124439.17	-0.172605412	0	PGP	81.4477	30.824	1.401819868	0.00016231	Negative
gga-miR-30e-5p	3635178.24	4124439.17	-0.172605412	0	FOXO3	237.178	107.708	1.138844786	0.00016231	Negative
gga-miR-30e-5p	3635178.24	4124439.17	-0.172605412	0	MEX3D	12.0299	3.54358	1.763345125	0.00016231	Negative
gga-miR-30e-5p	3635178.24	4124439.17	-0.172605412	0	IRS1	129.587	37.5296	1.787820177	0.00016231	Negative
gga-miR-30e-5p	3635178.24	4124439.17	-0.172605412	0	SSBP3	24.3683	8.9378	1.447013941	0.00016231	Negative
gga-miR-30e-5p	3635178.24	4124439.17	-0.172605412	0	IRS2	14.5185	2.42436	2.582216557	0.00016231	Negative
gga-miR-30e-5p	3635178.24	4124439.17	-0.172605412	0	IER5	84.9594	23.5908	1.848549234	0.00016231	Negative
gga-miR-181a-5p	2087579.9	1996273.67	0.074088345	0	RAP1B	4.66868	10.6201	-1.185710739	0.00016231	Negative
gga-miR-181a-5p	2087579.9	1996273.67	0.074088345	0	ROCK2	50.0104	104.56	-1.064030997	0.00016231	Negative
gga-miR-181a-5p	2087579.9	1996273.67	0.074088345	0	FAM13B	8.2073	23.1809	-1.497956986	0.00016231	Negative
gga-miR-181a-5p	2087579.9	1996273.67	0.074088345	0	HSP90B1	12.235	48.3257	-1.981776529	0.00016231	Negative
gga-miR-181a-5p	2087579.9	1996273.67	0.074088345	0	AFAP1	5.24484	10.6248	-1.018465017	0.00016231	Negative
gga-miR-181a-5p	2087579.9	1996273.67	0.074088345	0	HSPA5	13.7934	35.2541	-1.353812933	0.00016231	Negative
gga-miR-181a-5p	2087579.9	1996273.67	0.074088345	0	SLC25A25	4.46225	10.4111	-1.222279258	0.00016231	Negative
gga-let-7j-5p	1933522.85	1763522.91	0.142337939	0	COL1A2	124.212	262.943	-1.081945533	0.00016231	Negative
gga-let-7j-5p	1933522.85	1763522.91	0.142337939	0	COL5A2	22.4483	47.8186	-1.090965698	0.00016231	Negative
gga-let-7j-5p	1933522.85	1763522.91	0.142337939	0	VASH2	7.33012	14.702	-1.004103705	0.00016231	Negative
gga-let-7f-5p	1810554.5	1701629.77	0.099080869	0	COL1A2	124.212	262.943	-1.081945533	0.00016231	Negative
gga-let-7f-5p	1810554.5	1701629.77	0.099080869	0	COL5A2	22.4483	47.8186	-1.090965698	0.00016231	Negative
gga-let-7f-5p	1810554.5	1701629.77	0.099080869	0	VASH2	7.33012	14.702	-1.004103705	0.00016231	Negative
gga-miR-148a-3p	1311848.77	1183894.35	0.157627517	0	FBN1	26.6076	54.9951	-1.047464696	0.00016231	Negative
gga-miR-148a-3p	1311848.77	1183894.35	0.157627517	0	ROCK1	3.97387	12.3142	-1.631706323	0.00016231	Negative
gga-let-7c-5p	1103087.6	913460.21	0.281700016	0	COL1A2	124.212	262.943	-1.081945533	0.00016231	Negative
gga-let-7c-5p	1103087.6	913460.21	0.281700016	0	COL5A2	22.4483	47.8186	-1.090965698	0.00016231	Negative
gga-let-7c-5p	1103087.6	913460.21	0.281700016	0	VASH2	7.33012	14.702	-1.004103705	0.00016231	Negative
gga-miR-92-3p	543713.66	539248.81	0.021462429	2.80E-14	GOLGA4	5.28505	13.4586	-1.348539319	0.00016231	Negative
gga-miR-92-3p	543713.66	539248.81	0.021462429	2.80E-14	RAP1B	4.66868	10.6201	-1.185710739	0.00016231	Negative
gga-miR-92-3p	543713.66	539248.81	0.021462429	2.80E-14	ACTC1	34.0831	88.9522	-1.383973727	0.00016231	Negative
gga-miR-92-3p	543713.66	539248.81	0.021462429	2.80E-14	ATRX	6.13736	15.9346	-1.376472689	0.00016231	Negative
gga-miR-92-3p	543713.66	539248.81	0.021462429	2.80E-14	COL1A2	124.212	262.943	-1.081945533	0.00016231	Negative
gga-miR-92-3p	543713.66	539248.81	0.021462429	2.80E-14	FAM133B	25.6715	55.0215	-1.099827875	0.00016231	Negative
gga-miR-92-3p	543713.66	539248.81	0.021462429	2.80E-14	SUV420H1	7.31529	14.8195	-1.01850981	0.00016231	Negative
gga-miR-92-3p	543713.66	539248.81	0.021462429	2.80E-14	LRRFP2	22.1577	55.09	-1.313982327	0.00016231	Negative



gga-miR-92-3p	543713.66	539248.81	0.021462429	2.80E-14	TPPP	3.7568	10.0241	-1.415896493	0.00016231	Negative
gga-miR-92-3p	543713.66	539248.81	0.021462429	2.80E-14	SERPINF1	66.3539	140.206	-1.079294921	0.00016231	Negative
gga-miR-92-3p	543713.66	539248.81	0.021462429	2.80E-14	INSIG1	30.6869	105.105	-1.776136485	0.00016231	Negative
gga-miR-27b-3p	494682.7	459171.63	0.117036382	0	FAM133B	25.6715	55.0215	-1.099827875	0.00016231	Negative
gga-miR-27b-3p	494682.7	459171.63	0.117036382	0	CKAP4	6.53584	17.7989	-1.445343512	0.00016231	Negative
gga-miR-27b-3p	494682.7	459171.63	0.117036382	0	SLC25A25	4.46225	10.4111	-1.222279258	0.00016231	Negative
gga-miR-27b-3p	494682.7	459171.63	0.117036382	0	RAP1B	4.66868	10.6201	-1.185710739	0.00016231	Negative
gga-miR-27b-3p	494682.7	459171.63	0.117036382	0	KDEL2	6.62525	13.3644	-1.012348269	0.00016231	Negative
gga-miR-27b-3p	494682.7	459171.63	0.117036382	0	ATRX	6.13736	15.9346	-1.376472689	0.00016231	Negative
gga-miR-27b-3p	494682.7	459171.63	0.117036382	0	XPO1	15.2124	35.4973	-1.222461515	0.00016231	Negative
gga-miR-27b-3p	494682.7	459171.63	0.117036382	0	ATF3	21.6204	101.446	-2.230246861	0.00016231	Negative
gga-miR-27b-3p	494682.7	459171.63	0.117036382	0	SUV420H1	7.31529	14.8195	-1.01850981	0.00016231	Negative
gga-miR-101-3p	474140.24	401158.63	0.250707448	0	GOLGA4	5.28505	13.4586	-1.348539319	0.00016231	Negative
gga-miR-101-3p	474140.24	401158.63	0.250707448	0	AFAP1	5.24484	10.6248	-1.018465017	0.00016231	Negative
gga-miR-101-3p	474140.24	401158.63	0.250707448	0	ROCK2	50.0104	104.56	-1.064030997	0.00016231	Negative
gga-miR-101-3p	474140.24	401158.63	0.250707448	0	FBN1	26.6076	54.9951	-1.047464696	0.00016231	Negative
gga-miR-101-3p	474140.24	401158.63	0.250707448	0	HSPA8	75.6842	422.686	-2.481522272	0.00016231	Negative
gga-miR-101-3p	474140.24	401158.63	0.250707448	0	SEL1L	5.81898	13.1144	-1.172313611	0.00016231	Negative
gga-miR-101-3p	474140.24	401158.63	0.250707448	0	RAP1B	4.66868	10.6201	-1.185710739	0.00016231	Negative
gga-miR-101-3p	474140.24	401158.63	0.250707448	0	APP	9.48344	19.6984	-1.054596073	0.00016231	Negative
gga-miR-101-3p	474140.24	401158.63	0.250707448	0	HNRNPA3	6.80745	18.0362	-1.405709027	0.00016231	Negative
gga-miR-30c-5p	450797.58	568867.75	-0.326047081	0	TMCC1	25.5803	12.7855	1.000524603	0.00016231	Negative
gga-miR-30c-5p	450797.58	568867.75	-0.326047081	0	KLF10	27.7166	13.8179	1.004211916	0.00016231	Negative
gga-miR-30c-5p	450797.58	568867.75	-0.326047081	0	PGP	81.4477	30.824	1.401819868	0.00016231	Negative
gga-miR-30c-5p	450797.58	568867.75	-0.326047081	0	FOXO3	237.178	107.708	1.138844786	0.00016231	Negative
gga-miR-30c-5p	450797.58	568867.75	-0.326047081	0	MEX3D	12.0299	3.54358	1.763345125	0.00016231	Negative
gga-miR-30c-5p	450797.58	568867.75	-0.326047081	0	IRS1	129.587	37.5296	1.787820177	0.00016231	Negative
gga-miR-30c-5p	450797.58	568867.75	-0.326047081	0	SSBP3	24.3683	8.9378	1.447013941	0.00016231	Negative
gga-miR-30c-5p	450797.58	568867.75	-0.326047081	0	IRS2	14.5185	2.42436	2.582216557	0.00016231	Negative
gga-miR-30c-5p	450797.58	568867.75	-0.326047081	0	IER5	84.9594	23.5908	1.848549234	0.00016231	Negative
gga-miR-125b-5p	404462.27	285609.43	0.511527957	0	SEL1L	5.81898	13.1144	-1.172313611	0.00016231	Negative
gga-let-7b-5p	372600.78	329030.81	0.188974455	0	COL1A2	124.212	262.943	-1.081945533	0.00016231	Negative
gga-let-7b-5p	372600.78	329030.81	0.188974455	0	COL5A2	22.4483	47.8186	-1.090965698	0.00016231	Negative
gga-let-7b-5p	372600.78	329030.81	0.188974455	0	VASH2	7.33012	14.702	-1.004103705	0.00016231	Negative
gga-miR-1a-3p	362868.23	438537.85	-0.263689173	0	TMCC1	25.5803	12.7855	1.000524603	0.00016231	Negative
gga-miR-1a-3p	362868.23	438537.85	-0.263689173	0	EIF4E3	11.3358	5.50082	1.043167609	0.00016231	Negative
gga-miR-1b-3p	311723.47	376965.31	-0.264598543	0	TMCC1	25.5803	12.7855	1.000524603	0.00016231	Negative
gga-miR-1b-3p	311723.47	376965.31	-0.264598543	0	EIF4E3	11.3358	5.50082	1.043167609	0.00016231	Negative
gga-let-7i	271147.69	318697.47	-0.223542244	0	ABCC5	18.0863	8.62963	1.06752669	0.00016231	Negative
gga-let-7i	271147.69	318697.47	-0.223542244	0	IRS2	14.5185	2.42436	2.582216557	0.00016231	Negative
gga-let-7i	271147.69	318697.47	-0.223542244	0	FBXO32	103.023	40.3665	1.351736049	0.00016231	Negative
gga-let-7i	271147.69	318697.47	-0.223542244	0	RBFOX2	175.251	77.2247	1.18228841	0.00016231	Negative
gga-let-7i	271147.69	318697.47	-0.223542244	0	KLF9	92.8131	43.0242	1.109180081	0.00016231	Negative
gga-let-7i	271147.69	318697.47	-0.223542244	0	TRIB1	19.8524	9.6717	1.037472028	0.00016231	Negative
gga-let-7i	271147.69	318697.47	-0.223542244	0	SCYL3	44.2791	19.9482	1.150367326	0.00016231	Negative
gga-miR-126-3p	186591.32	227736.18	-0.27791519	0	IRS1	129.587	37.5296	1.787820177	0.00016231	Negative
gga-miR-30a-3p	161784.91	204077.2	-0.325471516	0	CDKN1B	67.5216	26.4149	1.353997142	0.00016231	Negative
gga-let-7g-5p	161712.18	156890.77	0.053234308	7.39E-25	COL1A2	124.212	262.943	-1.081945533	0.00016231	Negative
gga-let-7g-5p	161712.18	156890.77	0.053234308	7.39E-25	COL5A2	22.4483	47.8186	-1.090965698	0.00016231	Negative
gga-let-7g-5p	161712.18	156890.77	0.053234308	7.39E-25	VASH2	7.33012	14.702	-1.004103705	0.00016231	Negative
gga-miR-199-5p	157089.1	112030.78	0.497254361	0	HSPA5	13.7934	35.2541	-1.353812933	0.00016231	Negative

gga-miR-199-5p	157089.1	112030.78	0.497254361	0	ROCK1	3.97387	12.3142	-1.631706323	0.00016231	Negative
gga-miR-142-5p	108462.71	54058.88	1.014162038	0	ARHGAP5	9.52823	20.7222	-1.120897033	0.00016231	Negative
gga-miR-142-5p	108462.71	54058.88	1.014162038	0	ROCK1	3.97387	12.3142	-1.631706323	0.00016231	Negative
gga-miR-181b-5p	104412.41	123095.75	-0.227921315	0	BHLHE40	36.8113	11.4009	1.691000983	0.00016231	Negative
gga-miR-181b-5p	104412.41	123095.75	-0.227921315	0	GOT2	227.843	71.4575	1.672882701	0.00016231	Negative
gga-miR-181b-5p	104412.41	123095.75	-0.227921315	0	IRS2	14.5185	2.42436	2.582216557	0.00016231	Negative
gga-miR-181b-5p	104412.41	123095.75	-0.227921315	0	TMCC1	25.5803	12.7855	1.000524603	0.00016231	Negative
gga-miR-181b-5p	104412.41	123095.75	-0.227921315	0	FOS	13.2273	5.88745	1.167803796	0.00016231	Negative
gga-miR-181b-5p	104412.41	123095.75	-0.227921315	0	ADM	16.7993	4.13757	2.021545494	0.00016231	Negative
gga-miR-181b-5p	104412.41	123095.75	-0.227921315	0	ADCY9	96.6021	45.5592	1.084312137	0.00016231	Negative
gga-miR-128-3p	99089.28	110172.91	-0.143402193	1.43E-113	IRS1	129.587	37.5296	1.787820177	0.00016231	Negative
gga-miR-128-3p	99089.28	110172.91	-0.143402193	1.43E-113	FAM78A	25.2244	10.4459	1.271883155	0.00016231	Negative
gga-miR-128-3p	99089.28	110172.91	-0.143402193	1.43E-113	ZBTB42	15.7169	6.99129	1.168686104	0.00016231	Negative
gga-miR-128-3p	99089.28	110172.91	-0.143402193	1.43E-113	FOXO3	237.178	107.708	1.138844786	0.00016231	Negative
gga-miR-128-3p	99089.28	110172.91	-0.143402193	1.43E-113	MN1	51.1796	23.2701	1.137091461	0.00016231	Negative
gga-miR-128-3p	99089.28	110172.91	-0.143402193	1.43E-113	SEMA7A	23.4429	10.57	1.149175672	0.00016231	Negative
gga-miR-128-3p	99089.28	110172.91	-0.143402193	1.43E-113	TMCC1	25.5803	12.7855	1.000524603	0.00016231	Negative
gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	PMEP1	10.6419	3.70473	1.522315444	0.00016231	Negative
gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	FBXO48	11.4122	5.15348	1.146958058	0.00016231	Negative
gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	TRIB1	19.8524	9.6717	1.037472028	0.00016231	Negative
gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	MEX3D	12.0299	3.54358	1.763345125	0.00016231	Negative
gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	SRSF2	22.0181	6.40417	1.78160647	0.00016231	Negative
gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	BHLHE40	36.8113	11.4009	1.691000983	0.00016231	Negative
gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	EIF4E3	11.3358	5.50082	1.043167609	0.00016231	Negative
gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	RBFOX2	175.251	77.2247	1.18228841	0.00016231	Negative
gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	PMEP1	10.6419	3.70473	1.522315444	0.00016231	Negative
gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	FBXO48	11.4122	5.15348	1.146958058	0.00016231	Negative
gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	TRIB1	19.8524	9.6717	1.037472028	0.00016231	Negative
gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	MEX3D	12.0299	3.54358	1.763345125	0.00016231	Negative
gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	SRSF2	22.0181	6.40417	1.78160647	0.00016231	Negative
gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	BHLHE40	36.8113	11.4009	1.691000983	0.00016231	Negative
gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	EIF4E3	11.3358	5.50082	1.043167609	0.00016231	Negative
gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	RBFOX2	175.251	77.2247	1.18228841	0.00016231	Negative
gga-miR-23b-3p	83219.9	103843.03	-0.309837482	0	PNRC1	249.671	99.7301	1.323927356	0.00016231	Negative
gga-miR-23b-3p	83219.9	103843.03	-0.309837482	0	TRIB1	19.8524	9.6717	1.037472028	0.00016231	Negative
gga-miR-23b-3p	83219.9	103843.03	-0.309837482	0	EIF4E3	11.3358	5.50082	1.043167609	0.00016231	Negative
gga-miR-23b-3p	83219.9	103843.03	-0.309837482	0	IRS2	14.5185	2.42436	2.582216557	0.00016231	Negative
gga-miR-23b-3p	83219.9	103843.03	-0.309837482	0	TGIF1	11.6257	5.20682	1.158843147	0.00016231	Negative
gga-miR-23b-3p	83219.9	103843.03	-0.309837482	0	PURA	37.3771	8.76602	2.092160763	0.00016231	Negative
gga-miR-23b-3p	83219.9	103843.03	-0.309837482	0	NCOA1	11.8492	4.81143	1.300252014	0.00016231	Negative
gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	IRS2	14.5185	2.42436	2.582216557	0.00016231	Negative
gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	SESN1	622.095	228.65	1.443993992	0.00016231	Negative
gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	PURA	37.3771	8.76602	2.092160763	0.00016231	Negative
gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	RAB40B	11.8084	5.28659	1.159404149	0.00016231	Negative
gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	IRS1	129.587	37.5296	1.787820177	0.00016231	Negative
gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	RBM24	180.272	82.9118	1.120525988	0.00016231	Negative
gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	SYDE2	13.1015	6.3583	1.043019003	0.00016231	Negative
gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	TMCC1	25.5803	12.7855	1.000524603	0.00016231	Negative
gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	MAFA	207.582	64.3924	1.688719022	0.00016231	Negative
gga-miR-2964	75060.2	62386.38	0.276383478	2.63E-274	DCUN1D5	14.6026	34.1085	-1.223906046	0.00016231	Negative
gga-miR-2964	75060.2	62386.38	0.276383478	2.63E-274	HNRNPM	8.13862	16.9291	-1.056649183	0.00016231	Negative

gga-miR-2964	75060.2	62386.38	0.276383478	2.63E-274	APP	9.48344	19.6984	-1.054596073	0.00016231	Negative
gga-miR-2964	75060.2	62386.38	0.276383478	2.63E-274	HNRNPA3	6.80745	18.0362	-1.405709027	0.00016231	Negative
gga-miR-2964	75060.2	62386.38	0.276383478	2.63E-274	ARHGAP5	9.52823	20.7222	-1.120897033	0.00016231	Negative
gga-miR-30b-5p	70087.1	84269.7	-0.256298615	5.43E-265	TMCC1	25.5803	12.7855	1.000524603	0.00016231	Negative
gga-miR-30b-5p	70087.1	84269.7	-0.256298615	5.43E-265	KLF10	27.7166	13.8179	1.004211916	0.00016231	Negative
gga-miR-30b-5p	70087.1	84269.7	-0.256298615	5.43E-265	PGP	81.4477	30.824	1.401819868	0.00016231	Negative
gga-miR-30b-5p	70087.1	84269.7	-0.256298615	5.43E-265	FOXO3	237.178	107.708	1.138844786	0.00016231	Negative
gga-miR-30b-5p	70087.1	84269.7	-0.256298615	5.43E-265	MEX3D	12.0299	3.54358	1.763345125	0.00016231	Negative
gga-miR-30b-5p	70087.1	84269.7	-0.256298615	5.43E-265	IRS1	129.587	37.5296	1.787820177	0.00016231	Negative
gga-miR-30b-5p	70087.1	84269.7	-0.256298615	5.43E-265	SSBP3	24.3683	8.9378	1.447013941	0.00016231	Negative
gga-miR-30b-5p	70087.1	84269.7	-0.256298615	5.43E-265	IRS2	14.5185	2.42436	2.582216557	0.00016231	Negative
gga-miR-30b-5p	70087.1	84269.7	-0.256298615	5.43E-265	IER5	84.9594	23.5908	1.848549234	0.00016231	Negative
gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	IRS2	14.5185	2.42436	2.582216557	0.00016231	Negative
gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	SESN1	622.095	228.65	1.443993992	0.00016231	Negative
gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	PURA	37.3771	8.76602	2.092160763	0.00016231	Negative
gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	RAB40B	11.8084	5.28659	1.159404149	0.00016231	Negative
gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	IRS1	129.587	37.5296	1.787820177	0.00016231	Negative
gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	RBM24	180.272	82.9118	1.120525988	0.00016231	Negative
gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	SYDE2	13.1015	6.3583	1.043019003	0.00016231	Negative
gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	TMCC1	25.5803	12.7855	1.000524603	0.00016231	Negative
gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	MAFA	207.582	64.3924	1.688719022	0.00016231	Negative
gga-miR-19b-3p	61345.53	77980.92	-0.336596508	0	PMEP1	10.6419	3.70473	1.522315444	0.00016231	Negative
gga-miR-19b-3p	61345.53	77980.92	-0.336596508	0	KLF10	27.7166	13.8179	1.004211916	0.00016231	Negative
gga-miR-19b-3p	61345.53	77980.92	-0.336596508	0	PNRC1	249.671	99.7301	1.323927356	0.00016231	Negative
gga-miR-19b-3p	61345.53	77980.92	-0.336596508	0	SPSB1	27.4066	9.02063	1.603223262	0.00016231	Negative
gga-miR-19b-3p	61345.53	77980.92	-0.336596508	0	OTUD1	54.4932	25.3752	1.102657019	0.00016231	Negative
gga-miR-19b-3p	61345.53	77980.92	-0.336596508	0	FBXO32	103.023	40.3665	1.351736049	0.00016231	Negative
gga-miR-19b-3p	61345.53	77980.92	-0.336596508	0	TGIF1	11.6257	5.20682	1.158843147	0.00016231	Negative
gga-miR-19b-3p	61345.53	77980.92	-0.336596508	0	CCNL1	30.6763	13.2045	1.21609481	0.00016231	Negative
gga-miR-19b-3p	61345.53	77980.92	-0.336596508	0	DIRC2	52.0867	21.3661	1.285591443	0.00016231	Negative
gga-miR-19b-3p	61345.53	77980.92	-0.336596508	0	MN1	51.1796	23.2701	1.137091461	0.00016231	Negative
gga-miR-19b-3p	61345.53	77980.92	-0.336596508	0	USP31	12.5615	5.98806	1.068848168	0.00016231	Negative
gga-miR-19b-3p	61345.53	77980.92	-0.336596508	0	RBFOX2	175.251	77.2247	1.18228841	0.00016231	Negative
gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	PMEP1	10.6419	3.70473	1.522315444	0.00016231	Negative
gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	KLF10	27.7166	13.8179	1.004211916	0.00016231	Negative
gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	PNRC1	249.671	99.7301	1.323927356	0.00016231	Negative
gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	SPSB1	27.4066	9.02063	1.603223262	0.00016231	Negative
gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	OTUD1	54.4932	25.3752	1.102657019	0.00016231	Negative
gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	FBXO32	103.023	40.3665	1.351736049	0.00016231	Negative
gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	TGIF1	11.6257	5.20682	1.158843147	0.00016231	Negative
gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	CCNL1	30.6763	13.2045	1.21609481	0.00016231	Negative
gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	DIRC2	52.0867	21.3661	1.285591443	0.00016231	Negative
gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	MN1	51.1796	23.2701	1.137091461	0.00016231	Negative
gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	USP31	12.5615	5.98806	1.068848168	0.00016231	Negative
gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	RBFOX2	175.251	77.2247	1.18228841	0.00016231	Negative
gga-miR-107-3p	57663.43	59591.36	-0.037880075	1.61E-05	IRS2	14.5185	2.42436	2.582216557	0.00016231	Negative
gga-miR-107-3p	57663.43	59591.36	-0.037880075	1.61E-05	RAB40B	11.8084	5.28659	1.159404149	0.00016231	Negative
gga-miR-107-3p	57663.43	59591.36	-0.037880075	1.61E-05	RBM24	180.272	82.9118	1.120525988	0.00016231	Negative
gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	IRS2	14.5185	2.42436	2.582216557	0.00016231	Negative
gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	SESN1	622.095	228.65	1.443993992	0.00016231	Negative
gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	PURA	37.3771	8.76602	2.092160763	0.00016231	Negative

gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	RAB40B	11.8084	5.28659	1.159404149	0.00016231	Negative
gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	IRS1	129.587	37.5296	1.787820177	0.00016231	Negative
gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	RBM24	180.272	82.9118	1.120525988	0.00016231	Negative
gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	SYDE2	13.1015	6.3583	1.043019003	0.00016231	Negative
gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	TMCC1	25.5803	12.7855	1.000524603	0.00016231	Negative
gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	MAFA	207.582	64.3924	1.688719022	0.00016231	Negative
gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	IRS2	14.5185	2.42436	2.582216557	0.00016231	Negative
gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	SESN1	622.095	228.65	1.443993992	0.00016231	Negative
gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	PURA	37.3771	8.76602	2.092160763	0.00016231	Negative
gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	RAB40B	11.8084	5.28659	1.159404149	0.00016231	Negative
gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	IRS1	129.587	37.5296	1.787820177	0.00016231	Negative
gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	RBM24	180.272	82.9118	1.120525988	0.00016231	Negative
gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	SYDE2	13.1015	6.3583	1.043019003	0.00016231	Negative
gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	TMCC1	25.5803	12.7855	1.000524603	0.00016231	Negative
gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	MAFA	207.582	64.3924	1.688719022	0.00016231	Negative
gga-miR-221-3p	50108.32	48024.93	0.070833101	4.73E-14	VAPB	11.1896	23.6654	-1.080620843	0.00016231	Negative
gga-miR-221-3p	50108.32	48024.93	0.070833101	4.73E-14	PNRC2	6.9864	19.5883	-1.487371046	0.00016231	Negative
gga-miR-222a	31511.46	36959.96	-0.220520153	5.73E-88	CDKN1B	67.5216	26.4149	1.353997142	0.00016231	Negative
gga-miR-222a	31511.46	36959.96	-0.220520153	5.73E-88	FOS	13.2273	5.88745	1.167803796	0.00016231	Negative
gga-miR-222a	31511.46	36959.96	-0.220520153	5.73E-88	TMCC1	25.5803	12.7855	1.000524603	0.00016231	Negative
gga-miR-222a	31511.46	36959.96	-0.220520153	5.73E-88	RBM24	180.272	82.9118	1.120525988	0.00016231	Negative
gga-miR-222a	31511.46	36959.96	-0.220520153	5.73E-88	SRSF2	22.0181	6.40417	1.78160647	0.00016231	Negative
gga-miR-222a	31511.46	36959.96	-0.220520153	5.73E-88	FOXO3	237.178	107.708	1.138844786	0.00016231	Negative
gga-miR-365-3p	27974.83	26158.05	0.10644081	3.39E-17	DCUN1D5	14.6026	34.1085	-1.223906046	0.00016231	Negative
gga-miR-365-3p	27974.83	26158.05	0.10644081	3.39E-17	HSPA8	75.6842	422.686	-2.481522272	0.00016231	Negative
gga-miR-193a-3p	27315.69	30161.5	-0.13341187	6.28E-28	SRSF2	22.0181	6.40417	1.78160647	0.00016231	Negative
gga-miR-193a-3p	27315.69	30161.5	-0.13341187	6.28E-28	ADCY9	96.6021	45.5592	1.084312137	0.00016231	Negative
gga-miR-454-3p	26265.61	42837.71	-0.696139826	0	PMEP1A1	10.6419	3.70473	1.522315444	0.00016231	Negative
gga-miR-454-3p	26265.61	42837.71	-0.696139826	0	FBXO48	11.4122	5.15348	1.146958058	0.00016231	Negative
gga-miR-454-3p	26265.61	42837.71	-0.696139826	0	TRIB1	19.8524	9.6717	1.037472028	0.00016231	Negative
gga-miR-454-3p	26265.61	42837.71	-0.696139826	0	MEX3D	12.0299	3.54358	1.763345125	0.00016231	Negative
gga-miR-454-3p	26265.61	42837.71	-0.696139826	0	SRSF2	22.0181	6.40417	1.78160647	0.00016231	Negative
gga-miR-454-3p	26265.61	42837.71	-0.696139826	0	BHLHE40	36.8113	11.4009	1.691000983	0.00016231	Negative
gga-miR-454-3p	26265.61	42837.71	-0.696139826	0	EIF4E3	11.3358	5.50082	1.043167609	0.00016231	Negative
gga-miR-454-3p	26265.61	42837.71	-0.696139826	0	RBFOX2	175.251	77.2247	1.18228841	0.00016231	Negative
gga-miR-206	26129.24	36261.21	-0.463195462	0	TMCC1	25.5803	12.7855	1.000524603	0.00016231	Negative
gga-miR-206	26129.24	36261.21	-0.463195462	0	EIF4E3	11.3358	5.50082	1.043167609	0.00016231	Negative
gga-miR-17-5p	23906.35	28303.64	-0.234027283	1.05E-75	FBXO48	11.4122	5.15348	1.146958058	0.00016231	Negative
gga-miR-17-5p	23906.35	28303.64	-0.234027283	1.05E-75	SEMA7A	23.4429	10.57	1.149175672	0.00016231	Negative
gga-miR-17-5p	23906.35	28303.64	-0.234027283	1.05E-75	IRF2BP2	162.342	45.4908	1.835389581	0.00016231	Negative
gga-miR-17-5p	23906.35	28303.64	-0.234027283	1.05E-75	USP31	12.5615	5.98806	1.068848168	0.00016231	Negative
gga-miR-17-5p	23906.35	28303.64	-0.234027283	1.05E-75	PGP	81.4477	30.824	1.401819868	0.00016231	Negative
gga-miR-17-5p	23906.35	28303.64	-0.234027283	1.05E-75	MEX3D	12.0299	3.54358	1.763345125	0.00016231	Negative
gga-miR-17-5p	23906.35	28303.64	-0.234027283	1.05E-75	DUSP8	17.9613	8.31334	1.111391652	0.00016231	Negative
gga-miR-17-5p	23906.35	28303.64	-0.234027283	1.05E-75	TMCC1	25.5803	12.7855	1.000524603	0.00016231	Negative
gga-miR-17-5p	23906.35	28303.64	-0.234027283	1.05E-75	RBM24	180.272	82.9118	1.120525988	0.00016231	Negative
gga-miR-24-3p	18037.72	29569.61	-0.703531782	0	DUSP8	17.9613	8.31334	1.111391652	0.00016231	Negative
gga-miR-24-3p	18037.72	29569.61	-0.703531782	0	SESN1	622.095	228.65	1.443993992	0.00016231	Negative
gga-miR-20a-5p	17755.88	20913.29	-0.226556733	6.19E-53	FBXO48	11.4122	5.15348	1.146958058	0.00016231	Negative
gga-miR-20a-5p	17755.88	20913.29	-0.226556733	6.19E-53	SEMA7A	23.4429	10.57	1.149175672	0.00016231	Negative
gga-miR-20a-5p	17755.88	20913.29	-0.226556733	6.19E-53	IRF2BP2	162.342	45.4908	1.835389581	0.00016231	Negative

gga-miR-20a-5p	17755.88	20913.29	-0.226556733	6.19E-53	USP31	12.5615	5.98806	1.068848168	0.00016231	Negative
gga-miR-20a-5p	17755.88	20913.29	-0.226556733	6.19E-53	PGP	81.4477	30.824	1.401819868	0.00016231	Negative
gga-miR-20a-5p	17755.88	20913.29	-0.226556733	6.19E-53	MEX3D	12.0299	3.54358	1.763345125	0.00016231	Negative
gga-miR-20a-5p	17755.88	20913.29	-0.226556733	6.19E-53	DUSP8	17.9613	8.31334	1.111391652	0.00016231	Negative
gga-miR-20a-5p	17755.88	20913.29	-0.226556733	6.19E-53	TMCC1	25.5803	12.7855	1.000524603	0.00016231	Negative
gga-miR-20a-5p	17755.88	20913.29	-0.226556733	6.19E-53	RBM24	180.272	82.9118	1.120525988	0.00016231	Negative
gga-miR-106-5p	15701.18	19647.31	-0.313892371	1.17E-91	FBXO48	11.4122	5.15348	1.146958058	0.00016231	Negative
gga-miR-106-5p	15701.18	19647.31	-0.313892371	1.17E-91	SEMA7A	23.4429	10.57	1.149175672	0.00016231	Negative
gga-miR-106-5p	15701.18	19647.31	-0.313892371	1.17E-91	IRF2BP2	162.342	45.4908	1.835389581	0.00016231	Negative
gga-miR-106-5p	15701.18	19647.31	-0.313892371	1.17E-91	USP31	12.5615	5.98806	1.068848168	0.00016231	Negative
gga-miR-106-5p	15701.18	19647.31	-0.313892371	1.17E-91	PGP	81.4477	30.824	1.401819868	0.00016231	Negative
gga-miR-106-5p	15701.18	19647.31	-0.313892371	1.17E-91	MEX3D	12.0299	3.54358	1.763345125	0.00016231	Negative
gga-miR-106-5p	15701.18	19647.31	-0.313892371	1.17E-91	DUSP8	17.9613	8.31334	1.111391652	0.00016231	Negative
gga-miR-106-5p	15701.18	19647.31	-0.313892371	1.17E-91	TMCC1	25.5803	12.7855	1.000524603	0.00016231	Negative
gga-miR-106-5p	15701.18	19647.31	-0.313892371	1.17E-91	RBM24	180.272	82.9118	1.120525988	0.00016231	Negative
gga-miR-215-5p	14382.9	20757.1	-0.519683861	6.37E-245	IER5	84.9594	23.5908	1.848549234	0.00016231	Negative
gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	COL1A2	124.212	262.943	-1.081945533	0.00016231	Negative
gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	FBN1	26.6076	54.9951	-1.047464696	0.00016231	Negative
gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	COL5A2	22.4483	47.8186	-1.090965698	0.00016231	Negative
gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	GMFB	1.29095	3.38389	-1.390249547	0.00016231	Negative
gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	SUV420H1	7.31529	14.8195	-1.01850981	0.00016231	Negative
gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	INSIG1	30.6869	105.105	-1.776136485	0.00016231	Negative
gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	COL1A2	124.212	262.943	-1.081945533	0.00016231	Negative
gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	FBN1	26.6076	54.9951	-1.047464696	0.00016231	Negative
gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	COL5A2	22.4483	47.8186	-1.090965698	0.00016231	Negative
gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	GMFB	1.29095	3.38389	-1.390249547	0.00016231	Negative
gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	SUV420H1	7.31529	14.8195	-1.01850981	0.00016231	Negative
gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	INSIG1	30.6869	105.105	-1.776136485	0.00016231	Negative
gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	IRS2	14.5185	2.42436	2.582216557	0.00016231	Negative
gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	SESN1	622.095	228.65	1.443993992	0.00016231	Negative
gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	PURA	37.3771	8.76602	2.092160763	0.00016231	Negative
gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	RAB40B	11.8084	5.28659	1.159404149	0.00016231	Negative
gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	IRS1	129.587	37.5296	1.787820177	0.00016231	Negative
gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	RBM24	180.272	82.9118	1.120525988	0.00016231	Negative
gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	SYDE2	13.1015	6.3583	1.043019003	0.00016231	Negative
gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	TMCC1	25.5803	12.7855	1.000524603	0.00016231	Negative
gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	MAFA	207.582	64.3924	1.688719022	0.00016231	Negative
gga-miR-142-3p	10428.06	7423.23	0.499918257	4.44E-116	APP	9.48344	19.6984	-1.054596073	0.00016231	Negative
gga-miR-142-3p	10428.06	7423.23	0.499918257	4.44E-116	SLC35F5	8.15139	16.5146	-1.018624028	0.00016231	Negative
gga-miR-142-3p	10428.06	7423.23	0.499918257	4.44E-116	ROCK2	50.0104	104.56	-1.064030997	0.00016231	Negative
gga-miR-142-3p	10428.06	7423.23	0.499918257	4.44E-116	XPO1	15.2124	35.4973	-1.222461515	0.00016231	Negative
gga-miR-196-5p	9318.88	11221.16	-0.258426903	6.42E-37	CDKN1B	67.5216	26.4149	1.353997142	0.00016231	Negative
gga-miR-130b-3p	6614.13	10662.16	-0.679309987	1.30E-203	PMEP1A1	10.6419	3.70473	1.522315444	0.00016231	Negative
gga-miR-130b-3p	6614.13	10662.16	-0.679309987	1.30E-203	FBXO48	11.4122	5.15348	1.146958058	0.00016231	Negative
gga-miR-130b-3p	6614.13	10662.16	-0.679309987	1.30E-203	TRIB1	19.8524	9.6717	1.037472028	0.00016231	Negative
gga-miR-130b-3p	6614.13	10662.16	-0.679309987	1.30E-203	MEX3D	12.0299	3.54358	1.763345125	0.00016231	Negative
gga-miR-130b-3p	6614.13	10662.16	-0.679309987	1.30E-203	SRSF2	22.0181	6.40417	1.78160647	0.00016231	Negative
gga-miR-130b-3p	6614.13	10662.16	-0.679309987	1.30E-203	BHLHE40	36.8113	11.4009	1.691000983	0.00016231	Negative
gga-miR-130b-3p	6614.13	10662.16	-0.679309987	1.30E-203	EIF4E3	11.3358	5.50082	1.043167609	0.00016231	Negative
gga-miR-130b-3p	6614.13	10662.16	-0.679309987	1.30E-203	RBFOX2	175.251	77.2247	1.18228841	0.00016231	Negative
gga-miR-489-3p	6582.31	3822.59	0.793609947	3.09E-166	FBN1	26.6076	54.9951	-1.047464696	0.00016231	Negative

gga-miR-489-3p	6582.31	3822.59	0.793609947	3.09E-166	XPO1	15.2124	35.4973	-1.222461515	0.00016231	Negative
gga-miR-489-3p	6582.31	3822.59	0.793609947	3.09E-166	ARHGAP5	9.52823	20.7222	-1.120897033	0.00016231	Negative
gga-miR-489-3p	6582.31	3822.59	0.793609947	3.09E-166	VAPB	11.1896	23.6654	-1.080620843	0.00016231	Negative
gga-miR-218-5p	6523.22	3337.58	0.97634831	1.72E-233	GNB1	8.30324	18.3398	-1.143231602	0.00016231	Negative
gga-miR-218-5p	6523.22	3337.58	0.97634831	1.72E-233	VASH2	7.33012	14.702	-1.004103705	0.00016231	Negative
gga-miR-218-5p	6523.22	3337.58	0.97634831	1.72E-233	ARHGAP5	9.52823	20.7222	-1.120897033	0.00016231	Negative
gga-miR-218-5p	6523.22	3337.58	0.97634831	1.72E-233	INSIG1	30.6869	105.105	-1.776136485	0.00016231	Negative
gga-miR-1416-5p	6400.48	5680.46	0.181738783	1.39E-11	HNRNPA3	6.80745	18.0362	-1.405709027	0.00016231	Negative
gga-miR-1416-5p	6400.48	5680.46	0.181738783	1.39E-11	DCUN1D5	14.6026	34.1085	-1.223906046	0.00016231	Negative
gga-miR-20b-5p	6200.47	7875.37	-0.335403686	2.62E-42	FBXO48	11.4122	5.15348	1.146958058	0.00016231	Negative
gga-miR-20b-5p	6200.47	7875.37	-0.335403686	2.62E-42	SEMA7A	23.4429	10.57	1.149175672	0.00016231	Negative
gga-miR-20b-5p	6200.47	7875.37	-0.335403686	2.62E-42	IRF2BP2	162.342	45.4908	1.835389581	0.00016231	Negative
gga-miR-20b-5p	6200.47	7875.37	-0.335403686	2.62E-42	USP31	12.5615	5.98806	1.068848168	0.00016231	Negative
gga-miR-20b-5p	6200.47	7875.37	-0.335403686	2.62E-42	PGP	81.4477	30.824	1.401819868	0.00016231	Negative
gga-miR-20b-5p	6200.47	7875.37	-0.335403686	2.62E-42	MEX3D	12.0299	3.54358	1.763345125	0.00016231	Negative
gga-miR-20b-5p	6200.47	7875.37	-0.335403686	2.62E-42	DUSP8	17.9613	8.31334	1.111391652	0.00016231	Negative
gga-miR-20b-5p	6200.47	7875.37	-0.335403686	2.62E-42	TMCC1	25.5803	12.7855	1.000524603	0.00016231	Negative
gga-miR-20b-5p	6200.47	7875.37	-0.335403686	2.62E-42	RBM24	180.272	82.9118	1.120525988	0.00016231	Negative
gga-miR-223	6027.73	3904.8	0.635932582	1.00E-103	HSP90B1	12.235	48.3257	-1.981776529	0.00016231	Negative
gga-miR-223	6027.73	3904.8	0.635932582	1.00E-103	ARHGAP5	9.52823	20.7222	-1.120897033	0.00016231	Negative
gga-miR-155	5204.94	1759.22	1.574512065	0	RAP1B	4.66868	10.6201	-1.185710739	0.00016231	Negative
gga-miR-205a	4900.37	2137.36	1.206627201	2.97E-247	HNRNPH3	17.512	35.4095	-1.015792613	0.00016231	Negative
gga-miR-204	4336.69	2762.13	0.66037954	4.14E-80	TPPP	3.7568	10.0241	-1.415896493	0.00016231	Negative
gga-miR-211	4336.69	2762.13	0.66037954	4.14E-80	TPPP	3.7568	10.0241	-1.415896493	0.00016231	Negative
gga-miR-190a-5p	4073.03	4858.39	-0.244809421	4.22E-15	CDKN1B	67.5216	26.4149	1.353997142	0.00016231	Negative
gga-miR-140-5p	3682.1	4258.29	-0.200178953	1.83E-09	KLF9	92.8131	43.0242	1.109180081	0.00016231	Negative
gga-miR-140-5p	3682.1	4258.29	-0.200178953	1.83E-09	GOT2	227.843	71.4575	1.672882701	0.00016231	Negative
gga-miR-499-5p	3477.53	4200.74	-0.263014091	5.47E-15	FZD8	12.1101	4.16917	1.538378673	0.00016231	Negative
gga-miR-144-3p	3209.33	1972.95	0.711484191	8.31E-68	GOLGA4	5.28505	13.4586	-1.348539319	0.00016231	Negative
gga-miR-144-3p	3209.33	1972.95	0.711484191	8.31E-68	AFAP1	5.24484	10.6248	-1.018465017	0.00016231	Negative
gga-miR-144-3p	3209.33	1972.95	0.711484191	8.31E-68	ROCK2	50.0104	104.56	-1.064030997	0.00016231	Negative
gga-miR-144-3p	3209.33	1972.95	0.711484191	8.31E-68	FBN1	26.6076	54.9951	-1.047464696	0.00016231	Negative
gga-miR-144-3p	3209.33	1972.95	0.711484191	8.31E-68	SEL1L	5.81898	13.1144	-1.172313611	0.00016231	Negative
gga-miR-144-3p	3209.33	1972.95	0.711484191	8.31E-68	RAP1B	4.66868	10.6201	-1.185710739	0.00016231	Negative
gga-miR-144-3p	3209.33	1972.95	0.711484191	8.31E-68	APP	9.48344	19.6984	-1.054596073	0.00016231	Negative
gga-miR-144-3p	3209.33	1972.95	0.711484191	8.31E-68	HNRNPA3	6.80745	18.0362	-1.405709027	0.00016231	Negative
gga-miR-34a-5p	3063.87	4134.98	-0.422958824	1.67E-34	IRF2BP2	162.342	45.4908	1.835389581	0.00016231	Negative
gga-miR-455-5p	2386.54	2712.81	-0.175301048	3.23E-05	RXRA	58.7086	24.9276	1.235827865	0.00016231	Negative
gga-miR-455-5p	2386.54	2712.81	-0.175301048	3.23E-05	CDKN1B	67.5216	26.4149	1.353997142	0.00016231	Negative
gga-miR-10a-5p	2368.36	2753.91	-0.208026576	6.49E-07	SMCR8	68.3574	30.7539	1.15232815	0.00016231	Negative
gga-miR-10a-5p	2368.36	2753.91	-0.208026576	6.49E-07	SDK1	3.11991	0.916462	1.767357445	0.00016231	Negative
gga-miR-153-3p	2145.62	1644.13	0.393636657	2.22E-16	APP	9.48344	19.6984	-1.054596073	0.00016231	Negative
gga-miR-153-3p	2145.62	1644.13	0.393636657	2.22E-16	ROCK1	3.97387	12.3142	-1.631706323	0.00016231	Negative
gga-miR-153-3p	2145.62	1644.13	0.393636657	2.22E-16	ROCK2	50.0104	104.56	-1.064030997	0.00016231	Negative
gga-miR-153-3p	2145.62	1644.13	0.393636657	2.22E-16	VASH2	7.33012	14.702	-1.004103705	0.00016231	Negative
gga-miR-9-5p	1495.57	1035.8	0.539516416	3.95E-20	FBN1	26.6076	54.9951	-1.047464696	0.00016231	Negative
gga-miR-9-5p	1495.57	1035.8	0.539516416	3.95E-20	INSIG1	30.6869	105.105	-1.776136485	0.00016231	Negative
gga-miR-9-5p	1495.57	1035.8	0.539516416	3.95E-20	RAP1B	4.66868	10.6201	-1.185710739	0.00016231	Negative
gga-miR-9-5p	1495.57	1035.8	0.539516416	3.95E-20	ITGA6	10.0755	21.6048	-1.100500441	0.00016231	Negative
gga-miR-1729-5p	1368.28	1150.89	0.259179981	1.59E-05	TPPP	3.7568	10.0241	-1.415896493	0.00016231	Negative
gga-miR-183-5p	1050.08	1257.76	-0.250790974	6.63E-05	SESN1	622.095	228.65	1.443993992	0.00016231	Negative

gga-miR-183-5p	1050.08	1257.76	-0.250790974	6.63E-05	SRSF2	22.0181	6.40417	1.78160647	0.00016231	Negative
gga-miR-183-5p	1050.08	1257.76	-0.250790974	6.63E-05	EEF2	836.945	346.008	1.274327424	0.00016231	Negative
gga-miR-31-5p	200.02	8.22	4.614428501	2.38E-46	VAPB	11.1896	23.6654	-1.080620843	0.00016231	Negative
gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	FOXO1	18.5233	9.02954	1.036616745	0.00016231	Negative
gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	FOXO1	18.5233	9.02954	1.036616745	0.00016231	Negative
gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	FOXO1	18.5233	9.02954	1.036616745	0.00016231	Negative
gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	FOXO1	18.5233	9.02954	1.036616745	0.00016231	Negative
gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	FOXO1	18.5233	9.02954	1.036616745	0.00016231	Negative

<sup>a</sup>The correlation expression patterns between miRNAs and their targets.

**Table S5. Differentially expressed miRNAs and their corresponding target lncRNAs with differential expression in hypertrophic broiler compared with leaner broiler.**

lncRNA name	WRR-FPKM	XH-FPKM	log2(WRR/XH)	q value	miRNA name	WRR-FPKM	XH-FPKM	log2(WRR/XH)	q value	mfe(kcal/mol)	Binding position	Correlation <sup>a</sup>
TCONS_00001532	281.185	124.35	1.177113127	0.00065227	gga-miR-19b-3p	61345.53	77980.92	-0.336596508	0	-21.5	1252	Negative
TCONS_00001532	281.185	124.35	1.177113127	0.00065227	gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	-21.5	1252	Negative
TCONS_00001934	0	13.8781	-5	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-23.3	715	Negative
TCONS_00001934	0	13.8781	-5	0.00065227	gga-miR-125b-5p	404462.27	285609.43	0.511527957	0	-26.2	718	Negative
TCONS_00001934	0	13.8781	-5	0.00065227	gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	-22.4	716	Negative
TCONS_00003147	0	13.4177	-5	0.00065227	gga-miR-22-3p	6060606.31	5856904.5	0.058890194	0	-25.2	703	Negative
TCONS_00004225	123.16	51.5558	1.256327128	0.00065227	gga-miR-34a-5p	3063.87	4134.98	-0.422958824	1.67E-34	-27.9	87	Negative
TCONS_00004225	123.16	51.5558	1.256327128	0.00065227	gga-miR-183-5p	1050.08	1257.76	-0.250790974	6.63E-05	-26	517	Negative
TCONS_00007441	30.191	14.8311	1.025492939	0.00065227	gga-miR-106-5p	15701.18	19647.31	-0.313892371	1.17E-91	-25.3	1080	Negative
TCONS_00007441	30.191	14.8311	1.025492939	0.00065227	gga-miR-20b-5p	6200.47	7875.37	-0.335403686	2.62E-42	-26.1	1078	Negative
TCONS_00007441	30.191	14.8311	1.025492939	0.00065227	gga-miR-20a-5p	17755.88	20913.29	-0.226556733	6.19E-53	-24.9	1078	Negative
TCONS_00007441	30.191	14.8311	1.025492939	0.00065227	gga-miR-196-5p	9318.88	11221.16	-0.258426903	6.42E-37	-21.1	1453	Negative
TCONS_00007863	15.8108	34.4929	-1.125389061	0.00065227	gga-miR-148a-3p	1311848.77	1183894.4	0.157627517	0	-25.8	1901	Negative
TCONS_00008384	16.21	6.22013	1.381867453	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-25	3412	Negative
TCONS_00008384	16.21	6.22013	1.381867453	0.00065227	gga-miR-10a-5p	2368.36	2753.91	-0.208026576	6.49E-07	-24	3887	Negative
TCONS_00008384	16.21	6.22013	1.381867453	0.00065227	gga-miR-107-3p	57663.43	59591.36	-0.037880075	1.61E-05	-28.3	2748	Negative
TCONS_00008501	24.6292	8.88655	1.470674428	0.00065227	gga-let-7i	271147.69	318697.47	-0.223542244	0	-27	741	Negative
TCONS_00009382	29.2358	11.7533	1.314670187	0.00065227	gga-miR-215-5p	14382.9	20757.1	-0.519683861	6.37E-245	-23.4	4481	Negative
TCONS_00009382	29.2358	11.7533	1.314670187	0.00065227	gga-miR-107-3p	57663.43	59591.36	-0.037880075	1.61E-05	-31.2	3477	Negative
TCONS_00009388	32.9007	10.7821	1.609480084	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-22.9	894	Negative
TCONS_00009388	32.9007	10.7821	1.609480084	0.00065227	gga-let-7i	271147.69	318697.47	-0.223542244	0	-27.1	1558	Negative
TCONS_00009388	32.9007	10.7821	1.609480084	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-27	893	Negative
TCONS_00009662	30.044	14.4353	1.057475813	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-25.5	6052	Negative
TCONS_00009662	30.044	14.4353	1.057475813	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-25	6051	Negative
TCONS_00009662	30.044	14.4353	1.057475813	0.00065227	gga-miR-130b-3p	6614.13	10662.16	-0.679309987	1.30E-203	-25.6	2319	Negative
TCONS_00009662	30.044	14.4353	1.057475813	0.00065227	gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	-25.3	2332	Negative
TCONS_00012639	9.42448	26.357	-1.483701245	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-22.4	286	Negative
TCONS_00012639	9.42448	26.357	-1.483701245	0.00065227	gga-miR-221-3p	50108.32	48024.93	0.070833101	4.73E-14	-28.5	1527	Negative
TCONS_00012639	9.42448	26.357	-1.483701245	0.00065227	gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	-22.3	286	Negative
TCONS_00012640	7.2516	28.8383	-1.991614868	0.00065227	gga-miR-22-3p	6060606.31	5856904.5	0.058890194	0	-28.3	328	Negative
TCONS_00012643	6.23131	20.6642	-1.729526116	0.00065227	gga-miR-218-5p	6523.22	3337.58	0.97634831	1.72E-233	-26.7	3535	Negative
TCONS_00012643	6.23131	20.6642	-1.729526116	0.00065227	gga-miR-101-3p	474140.24	401158.63	0.250707448	0	-22.3	1108	Negative
TCONS_00012708	3.91098	14.1338	-1.853547336	0.00065227	gga-miR-211	4336.69	2762.13	0.66037954	4.14E-80	-25.6	2139	Negative
TCONS_00012708	3.91098	14.1338	-1.853547336	0.00065227	gga-miR-204	4336.69	2762.13	0.66037954	4.14E-80	-25.6	2139	Negative
TCONS_00013296	5.78851	19.577	-1.75789576	0.00065227	gga-miR-218-5p	6523.22	3337.58	0.97634831	1.72E-233	-24.9	1210	Negative
TCONS_00013525	29.4489	10.4838	1.49005201	0.00065227	gga-miR-34a-5p	3063.87	4134.98	-0.422958824	1.67E-34	-28.9	2191	Negative
TCONS_00013525	29.4489	10.4838	1.49005201	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-20.9	1666	Negative
TCONS_00013527	34.0586	7.7709	2.131865532	0.00065227	gga-miR-107-3p	57663.43	59591.36	-0.037880075	1.61E-05	-24.9	731	Negative
TCONS_00014571	81.6373	33.0739	1.303535294	0.00065227	gga-miR-455-5p	2386.54	2712.81	-0.175301048	3.23E-05	-25.2	2100	Negative
TCONS_00014571	81.6373	33.0739	1.303535294	0.00065227	gga-miR-454-3p	26265.61	42837.71	-0.696139826	0	-26.2	2397	Negative
TCONS_00015418	79.3531	38.1047	1.058317627	0.00065227	gga-miR-130b-3p	6614.13	10662.16	-0.679309987	1.30E-203	-26.3	1785	Negative
TCONS_00015418	79.3531	38.1047	1.058317627	0.00065227	gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	-24.1	1787	Negative
TCONS_00015418	79.3531	38.1047	1.058317627	0.00065227	gga-miR-107-3p	57663.43	59591.36	-0.037880075	1.61E-05	-28.1	1620	Negative
TCONS_00015768	7.50805	18.7743	-1.322248955	0.00065227	gga-miR-9-5p	1495.57	1035.8	0.539516416	3.95E-20	-25	948	Negative
TCONS_00016255	23.8493	8.24307	1.532693271	0.00065227	gga-miR-30c-5p	450797.58	568867.75	-0.326047081	0	-21.8	1789	Negative
TCONS_00016255	23.8493	8.24307	1.532693271	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-24.7	1563	Negative
TCONS_00016255	23.8493	8.24307	1.532693271	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-26.7	1563	Negative
TCONS_00016255	23.8493	8.24307	1.532693271	0.00065227	gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	-25.8	85	Negative
TCONS_00016255	23.8493	8.24307	1.532693271	0.00065227	gga-miR-128-3p	99089.28	110172.91	-0.143402193	1.43E-113	-23.1	1049	Negative
TCONS_00016255	23.8493	8.24307	1.532693271	0.00065227	gga-miR-30a-5p	5516178.95	6501640.5	-0.227568083	0	-23.5	1804	Negative



TCONS_00016255	23.8493	8.24307	1.532693271	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-25.5	1569	Negative
TCONS_00017879	19.9329	9.69345	1.040069488	0.00065227	gga-miR-23b-3p	83219.9	103843.03	-0.309837482	0	-26.7	1372	Negative
TCONS_00019791	42.0528	16.3461	1.363255397	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-26.3	5399	Negative
TCONS_00021334	7.86986	18.7209	-1.250239917	0.00065227	gga-miR-218-5p	6523.22	3337.58	0.97634831	1.72E-233	-25.1	1286	Negative
TCONS_00021439	33.0566	13.0975	1.335646883	0.00065227	gga-miR-34a-5p	3063.87	4134.98	-0.422958824	1.67E-34	-29.8	1607	Negative
TCONS_00021439	33.0566	13.0975	1.335646883	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-25.6	1332	Negative
TCONS_00021439	33.0566	13.0975	1.335646883	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-27.3	1338	Negative
TCONS_00021439	33.0566	13.0975	1.335646883	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-25.6	1339	Negative
TCONS_00022107	13.8641	32.3627	-1.22297801	0.00065227	gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	-24.1	5736	Negative
TCONS_00022107	13.8641	32.3627	-1.22297801	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-24.2	5736	Negative
TCONS_00022108	7.83267	30.5995	-1.965931997	0.00065227	gga-miR-199-5p	157089.1	112030.78	0.497254361	0	-27.8	410	Negative
TCONS_00022125	18.023	37.1244	-1.042528536	0.00065227	gga-miR-125b-5p	404462.27	285609.43	0.511527957	0	-29.3	1147	Negative
TCONS_00022958	22.453	8.8992	1.335160665	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-23.4	2338	Negative
TCONS_00022958	22.453	8.8992	1.335160665	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-31.3	2326	Negative
TCONS_00022958	22.453	8.8992	1.335160665	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-29.3	2326	Negative
TCONS_00022958	22.453	8.8992	1.335160665	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-26.3	2323	Negative
TCONS_00025658	48.2642	21.1417	1.190862078	0.00065227	gga-miR-34a-5p	3063.87	4134.98	-0.422958824	1.67E-34	-31.4	4294	Negative
TCONS_00025658	48.2642	21.1417	1.190862078	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-27.3	296	Negative
TCONS_00025658	48.2642	21.1417	1.190862078	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-27.4	316	Negative
TCONS_00027797	43.1275	13.6649	1.658133187	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-29.1	11736	Negative
TCONS_00027797	43.1275	13.6649	1.658133187	0.00065227	gga-miR-107-3p	57663.43	59591.36	-0.037880075	1.61E-05	-34.7	5111	Negative
TCONS_00028187	30.5135	0	5	0.00065227	gga-miR-24-3p	18037.72	29569.61	-0.703531782	0	-27.4	257	Negative
TCONS_00028217	161.733	28.2837	2.515571309	0.00065227	gga-miR-34a-5p	3063.87	4134.98	-0.422958824	1.67E-34	-33	2085	Negative
TCONS_00028217	161.733	28.2837	2.515571309	0.00065227	gga-miR-128-3p	99089.28	110172.91	-0.143402193	1.43E-113	-29.3	884	Negative
TCONS_00028367	49.1918	14.5421	1.758182225	0.00065227	gga-miR-24-3p	18037.72	29569.61	-0.703531782	0	-34.8	2418	Negative
TCONS_00028367	49.1918	14.5421	1.758182225	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-32.9	3633	Negative
TCONS_00028367	49.1918	14.5421	1.758182225	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-28.6	2741	Negative
TCONS_00028367	49.1918	14.5421	1.758182225	0.00065227	gga-miR-128-3p	99089.28	110172.91	-0.143402193	1.43E-113	-24.1	3229	Negative
TCONS_00028367	49.1918	14.5421	1.758182225	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-33	3637	Negative
TCONS_00028367	49.1918	14.5421	1.758182225	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-36	3637	Negative
TCONS_00028367	49.1918	14.5421	1.758182225	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-28.5	875	Negative
TCONS_00028370	0	23.8278	-5	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-27.6	308	Negative
TCONS_00028370	0	23.8278	-5	0.00065227	gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	-26.9	309	Negative
TCONS_00028442	51.5242	11.0487	2.221373569	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-26.4	544	Negative
TCONS_00028442	51.5242	11.0487	2.221373569	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-26.4	543	Negative
TCONS_00028442	51.5242	11.0487	2.221373569	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-27.8	536	Negative
TCONS_00028442	51.5242	11.0487	2.221373569	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-29.8	536	Negative
TCONS_00028442	51.5242	11.0487	2.221373569	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-26.6	542	Negative
TCONS_00028445	31.4428	9.87547	1.67080838	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-24.1	2007	Negative
TCONS_00028728	25.9564	5.0879	2.350948083	0.00065227	gga-miR-34a-5p	3063.87	4134.98	-0.422958824	1.67E-34	-32.4	2308	Negative
TCONS_00028729	21.0019	3.83473	2.453322944	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-26.7	2415	Negative
TCONS_00028729	21.0019	3.83473	2.453322944	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-28.5	2415	Negative
TCONS_00028729	21.0019	3.83473	2.453322944	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-24.2	2415	Negative
TCONS_00028738	24.7528	9.78763	1.33856026	0.00065227	gga-miR-183-5p	1050.08	1257.76	-0.250790974	6.63E-05	-27.6	3789	Negative
TCONS_00028868	25.3254	3.65309	2.793395853	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-23.4	2530	Negative
TCONS_00028868	25.3254	3.65309	2.793395853	0.00065227	gga-miR-24-3p	18037.72	29569.61	-0.703531782	0	-34.3	1260	Negative
TCONS_00028868	25.3254	3.65309	2.793395853	0.00065227	gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	-23.2	128	Negative
TCONS_00029092	22.9055	5.8829	1.961094637	0.00065227	gga-miR-222a	31511.46	36959.96	-0.220520153	5.73E-88	-29.5	1056	Negative
TCONS_00029092	22.9055	5.8829	1.961094637	0.00065227	gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	-23.2	1630	Negative
TCONS_00029092	22.9055	5.8829	1.961094637	0.00065227	gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	-23.2	1630	Negative
TCONS_00029163	26.1836	12.9231	1.018711282	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-29.6	718	Negative
TCONS_00029163	26.1836	12.9231	1.018711282	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-25.7	712	Negative
TCONS_00029380	66.2238	23.6615	1.484808262	0.00065227	gga-miR-130b-3p	6614.13	10662.16	-0.679309987	1.30E-203	-25.4	2768	Negative
TCONS_00029380	66.2238	23.6615	1.484808262	0.00065227	gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	-25.7	2768	Negative

TCONS_00030106	91.6641	26.3147	1.800487869	0.00065227	gga-miR-34a-5p	3063.87	4134.98	-0.422958824	1.67E-34	-30.8	39	Negative
TCONS_00031421	75.5902	31.0737	1.28250517	0.00065227	gga-miR-30e-5p	3635178.24	4124439.2	-0.172605412	0	-22.6	1860	Negative
TCONS_00031421	75.5902	31.0737	1.28250517	0.00065227	gga-miR-30a-5p	5516178.95	6501640.5	-0.227568083	0	-23.3	1859	Negative
TCONS_00037642	29.0958	13.7318	1.083290164	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-26.5	1568	Negative
TCONS_00037642	29.0958	13.7318	1.083290164	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-27.6	1563	Negative
TCONS_00037642	29.0958	13.7318	1.083290164	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-28.4	1555	Negative
TCONS_00037642	29.0958	13.7318	1.083290164	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-24.8	1563	Negative
TCONS_00037642	29.0958	13.7318	1.083290164	0.00065227	gga-miR-30e-5p	3635178.24	4124439.2	-0.172605412	0	-20.7	1992	Negative
TCONS_00037642	29.0958	13.7318	1.083290164	0.00065227	gga-miR-24-3p	18037.72	29569.61	-0.703531782	0	-30.6	1297	Negative
TCONS_00037645	32.4087	12.8305	1.336803759	0.00065227	gga-miR-19b-3p	61345.53	77980.92	-0.336596508	0	-21.7	1579	Negative
TCONS_00037645	32.4087	12.8305	1.336803759	0.00065227	gga-miR-193a-3p	27315.69	30161.5	-0.13341187	6.28E-28	-27.8	672	Negative
TCONS_00037648	18.7287	8.41953	1.153439157	0.00065227	gga-miR-1a-3p	362868.23	438537.85	-0.263689173	0	-21.7	739	Negative
TCONS_00037648	18.7287	8.41953	1.153439157	0.00065227	gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	-24.2	442	Negative
TCONS_00037693	26.4826	8.71658	1.603210668	0.00065227	gga-miR-133c-3p	15232674.15	15445951	-0.010493064	1.69E-105	-33.7	1907	Negative
TCONS_00037693	26.4826	8.71658	1.603210668	0.00065227	gga-miR-133b-3p	15123175	15329186	-0.009953553	3.00E-94	-31.7	1908	Negative
TCONS_00037693	26.4826	8.71658	1.603210668	0.00065227	gga-miR-133a-3p	16177058.89	16418962	-0.011847135	4.63E-144	-35.4	1906	Negative
TCONS_00037697	30.3747	13.8805	1.129810623	0.00065227	gga-miR-19b-3p	61345.53	77980.92	-0.336596508	0	-23.5	1179	Negative
TCONS_00037697	30.3747	13.8805	1.129810623	0.00065227	gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	-23.5	1179	Negative
TCONS_00037697	30.3747	13.8805	1.129810623	0.00065227	gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	-26.5	1380	Negative
TCONS_00037697	30.3747	13.8805	1.129810623	0.00065227	gga-miR-107-3p	57663.43	59591.36	-0.037880075	1.61E-05	-30.7	508	Negative
TCONS_00037697	30.3747	13.8805	1.129810623	0.00065227	gga-miR-130b-3p	6614.13	10662.16	-0.679309987	1.30E-203	-23.7	1380	Negative
TCONS_00037697	30.3747	13.8805	1.129810623	0.00065227	gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	-22.8	1380	Negative
TCONS_00038772	22.5777	6.32077	1.836726301	0.00065227	gga-miR-24-3p	18037.72	29569.61	-0.703531782	0	-31	1744	Negative
TCONS_00038772	22.5777	6.32077	1.836726301	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-28.2	3951	Negative
TCONS_00038772	22.5777	6.32077	1.836726301	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-26.3	3959	Negative
TCONS_00038772	22.5777	6.32077	1.836726301	0.00065227	gga-miR-130b-3p	6614.13	10662.16	-0.679309987	1.30E-203	-27.2	758	Negative
TCONS_00038772	22.5777	6.32077	1.836726301	0.00065227	gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	-23.7	770	Negative
TCONS_00039409	8.00685	31.8777	-1.993240857	0.00065227	gga-miR-218-5p	6523.22	3337.58	0.97634831	1.72E-233	-24.1	936	Negative
TCONS_00039409	8.00685	31.8777	-1.993240857	0.00065227	gga-let-7j-5p	1933522.85	1763522.9	0.142337939	0	-23.5	1097	Negative
TCONS_00039409	8.00685	31.8777	-1.993240857	0.00065227	gga-let-7g-5p	161712.18	156890.77	0.053234308	7.39E-25	-23.4	1097	Negative
TCONS_00039409	8.00685	31.8777	-1.993240857	0.00065227	gga-let-7f-5p	1810554.5	1701629.8	0.099080869	0	-21.8	1097	Negative
TCONS_00039409	8.00685	31.8777	-1.993240857	0.00065227	gga-miR-199-5p	157089.1	112030.78	0.497254361	0	-26.1	40	Negative
TCONS_00040094	45.4284	16.4646	1.464227031	0.00065227	gga-miR-1a-3p	362868.23	438537.85	-0.263689173	0	-23	1835	Negative
TCONS_00040094	45.4284	16.4646	1.464227031	0.00065227	gga-miR-181b-5p	104412.41	123095.75	-0.227921315	0	-26.8	2282	Negative
TCONS_00040147	29.2494	146.362	-2.323062099	0.00065227	gga-miR-148a-3p	1311848.77	1183894.4	0.157627517	0	-27.2	4656	Negative
TCONS_00040224	23.8611	7.77219	1.618267478	0.00065227	gga-miR-24-3p	18037.72	29569.61	-0.703531782	0	-30.2	1788	Negative
TCONS_00040224	23.8611	7.77219	1.618267478	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-26.6	2378	Negative
TCONS_00040224	23.8611	7.77219	1.618267478	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-26.2	2372	Negative
TCONS_00040224	23.8611	7.77219	1.618267478	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-27.9	2382	Negative
TCONS_00040224	23.8611	7.77219	1.618267478	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-24.8	2376	Negative
TCONS_00040485	40.2425	11.7594	1.774905482	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-24.5	825	Negative
TCONS_00045553	2.0953	16.8451	-3.007100268	0.00065227	gga-miR-211	4336.69	2762.13	0.66037954	4.14E-80	-24.6	396	Negative
TCONS_00045553	2.0953	16.8451	-3.007100268	0.00065227	gga-miR-204	4336.69	2762.13	0.66037954	4.14E-80	-24.6	396	Negative
TCONS_00046750	5.92657	20.679	-1.802897129	0.00065227	gga-let-7j-5p	1933522.85	1763522.9	0.142337939	0	-25.5	1218	Negative
TCONS_00046750	5.92657	20.679	-1.802897129	0.00065227	gga-let-7f-5p	1810554.5	1701629.8	0.099080869	0	-25.5	1218	Negative
TCONS_00046750	5.92657	20.679	-1.802897129	0.00065227	gga-let-7c-5p	1103087.6	913460.21	0.281700016	0	-24.2	1218	Negative
TCONS_00046750	5.92657	20.679	-1.802897129	0.00065227	gga-let-7g-5p	161712.18	156890.77	0.053234308	7.39E-25	-26.6	1219	Negative
TCONS_00047466	13.0703	26.8866	-1.040595072	0.00065227	gga-miR-218-5p	6523.22	3337.58	0.97634831	1.72E-233	-22.5	1990	Negative
TCONS_00047466	13.0703	26.8866	-1.040595072	0.00065227	gga-let-7b-5p	372600.78	329030.81	0.188974455	0	-26.2	60	Negative
TCONS_00047731	15.7687	33.5939	-1.091135565	0.00065227	gga-miR-205a	4900.37	2137.36	1.206627201	2.97E-247	-22.8	1369	Negative
TCONS_00047731	15.7687	33.5939	-1.091135565	0.00065227	gga-miR-204	4336.69	2762.13	0.66037954	4.14E-80	-30	1041	Negative
TCONS_00047731	15.7687	33.5939	-1.091135565	0.00065227	gga-miR-211	4336.69	2762.13	0.66037954	4.14E-80	-30	1041	Negative
TCONS_00051479	16.6008	7.76324	1.096521973	0.00065227	gga-miR-30d-5p	3872505.2	4800290.2	-0.300288016	0	-25.9	4161	Negative
TCONS_00051479	16.6008	7.76324	1.096521973	0.00065227	gga-miR-190a-5p	4073.03	4858.39	-0.244809421	4.22E-15	-24.5	4561	Negative

TCONS_00051479	16.6008	7.76324	1.096521973	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-26.7	2606	Negative
TCONS_00051479	16.6008	7.76324	1.096521973	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-28.7	2606	Negative
TCONS_00051479	16.6008	7.76324	1.096521973	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-26.6	2607	Negative
TCONS_00052512	19.1652	7.78908	1.298964213	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-22.3	2296	Negative
TCONS_00052512	19.1652	7.78908	1.298964213	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-24	2295	Negative
TCONS_00052512	19.1652	7.78908	1.298964213	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-23.3	2295	Negative
TCONS_00052512	19.1652	7.78908	1.298964213	0.00065227	gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	-24.7	2081	Negative
TCONS_00052512	19.1652	7.78908	1.298964213	0.00065227	gga-miR-130b-3p	6614.13	10662.16	-0.679309987	1.30E-203	-25.8	2090	Negative
TCONS_00052512	19.1652	7.78908	1.298964213	0.00065227	gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	-25.8	2089	Negative
TCONS_00052512	19.1652	7.78908	1.298964213	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-25.3	2298	Negative
TCONS_00053510	43.6012	12.5854	1.792616771	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-22.7	1394	Negative
TCONS_00053513	36.5029	14.0367	1.378807284	0.00065227	gga-miR-140-5p	3682.1	4258.29	-0.200178953	1.83E-09	-22.5	1928	Negative
TCONS_00053513	36.5029	14.0367	1.378807284	0.00065227	gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	-27	192	Negative
TCONS_00053520	37.7327	14.1376	1.416278108	0.00065227	gga-miR-20a-5p	17755.88	20913.29	-0.226556733	6.19E-53	-24.1	955	Negative
TCONS_00054104	80.4489	4.79283	4.069123021	0.00065227	gga-miR-107-3p	57663.43	59591.36	-0.037880075	1.61E-05	-30	494	Negative
TCONS_00054193	1407.73	687.927	1.033043269	0.00065227	gga-miR-454-3p	26265.61	42837.71	-0.696139826	0	-25.9	160	Negative
TCONS_00054193	1407.73	687.927	1.033043269	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-22.6	96	Negative
TCONS_00054193	1407.73	687.927	1.033043269	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-21.9	96	Negative
TCONS_00054193	1407.73	687.927	1.033043269	0.00065227	gga-miR-130b-3p	6614.13	10662.16	-0.679309987	1.30E-203	-20.5	184	Negative
TCONS_00054193	1407.73	687.927	1.033043269	0.00065227	gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	-20.5	184	Negative
TCONS_00054544	36.7898	15.8322	1.216444091	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-22.4	909	Negative
TCONS_00055448	12.7638	3.73711	1.772062973	0.00065227	gga-miR-193a-3p	27315.69	30161.5	-0.13341187	6.28E-28	-32.9	1271	Negative
TCONS_00055448	12.7638	3.73711	1.772062973	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-26.7	673	Negative
TCONS_00055448	12.7638	3.73711	1.772062973	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-28.6	673	Negative
TCONS_00055448	12.7638	3.73711	1.772062973	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-27.1	673	Negative
TCONS_00055448	12.7638	3.73711	1.772062973	0.00065227	gga-miR-20b-5p	6200.47	7875.37	-0.335403686	2.62E-42	-25.6	2047	Negative
TCONS_00055448	12.7638	3.73711	1.772062973	0.00065227	gga-miR-17-5p	23906.35	28303.64	-0.234027283	1.05E-75	-28.2	2046	Negative
TCONS_00055766	30.4794	10.7695	1.500883232	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-28	717	Negative
TCONS_00055766	30.4794	10.7695	1.500883232	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-25.7	717	Negative
TCONS_00055766	30.4794	10.7695	1.500883232	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-27.4	704	Negative
TCONS_00055766	30.4794	10.7695	1.500883232	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-29.2	704	Negative
TCONS_00055766	30.4794	10.7695	1.500883232	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-25.6	714	Negative
TCONS_00055769	32.5242	12.6609	1.361133609	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-26.9	443	Negative
TCONS_00055769	32.5242	12.6609	1.361133609	0.00065227	gga-miR-107-3p	57663.43	59591.36	-0.037880075	1.61E-05	-30.8	430	Negative
TCONS_00055769	32.5242	12.6609	1.361133609	0.00065227	gga-miR-34a-5p	3063.87	4134.98	-0.422958824	1.67E-34	-29.4	1107	Negative
TCONS_00055773	42.7021	16.171	1.400898124	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-25.4	706	Negative
TCONS_00055773	42.7021	16.171	1.400898124	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-30.2	719	Negative
TCONS_00055774	25.8374	12.5061	1.046828942	0.00065227	gga-miR-107-3p	57663.43	59591.36	-0.037880075	1.61E-05	-29.7	2198	Negative
TCONS_00055778	30.3276	12.0447	1.332232873	0.00065227	gga-miR-20a-5p	17755.88	20913.29	-0.226556733	6.19E-53	-26.4	2363	Negative
TCONS_00055778	30.3276	12.0447	1.332232873	0.00065227	gga-miR-106-5p	15701.18	19647.31	-0.313892371	1.17E-91	-27.2	2363	Negative
TCONS_00056423	31.1614	15.2161	1.034161419	0.00065227	gga-miR-24-3p	18037.72	29569.61	-0.703531782	0	-30.1	2373	Negative
TCONS_00056423	31.1614	15.2161	1.034161419	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-26.4	1669	Negative
TCONS_00056423	31.1614	15.2161	1.034161419	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-24.1	1672	Negative
TCONS_00056423	31.1614	15.2161	1.034161419	0.00065227	gga-miR-107-3p	57663.43	59591.36	-0.037880075	1.61E-05	-32.6	2292	Negative
TCONS_00056642	48.9336	17.079	1.518601919	0.00065227	gga-miR-26a-5p	5512392.3	5684205.5	-0.034713704	0	-22.2	1143	Negative
TCONS_00056652	26.1065	10.7377	1.281724051	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-25.2	2115	Negative
TCONS_00056854	15.7964	4.96961	1.668391263	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-24	411	Negative
TCONS_00056854	15.7964	4.96961	1.668391263	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-25.3	405	Negative
TCONS_00056854	15.7964	4.96961	1.668391263	0.00065227	gga-miR-20b-5p	6200.47	7875.37	-0.335403686	2.62E-42	-27.1	101	Negative
TCONS_00057327	35.477	11.7388	1.595599082	0.00065227	gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	-24.4	1210	Negative
TCONS_00057327	35.477	11.7388	1.595599082	0.00065227	gga-miR-130b-3p	6614.13	10662.16	-0.679309987	1.30E-203	-21.8	1225	Negative
TCONS_00057327	35.477	11.7388	1.595599082	0.00065227	gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	-21.8	1225	Negative
TCONS_00057327	35.477	11.7388	1.595599082	0.00065227	gga-miR-19b-3p	61345.53	77980.92	-0.336596508	0	-20.8	1207	Negative
TCONS_00058406	22.1576	5.33184	2.055096231	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-23.6	1215	Negative

TCONS_00058537	29.2805	13.2872	1.139903071	0.00065227	gga-miR-34a-5p	3063.87	4134.98	-0.422958824	1.67E-34	-33.6	903	Negative
TCONS_00058537	29.2805	13.2872	1.139903071	0.00065227	gga-miR-206	26129.24	36261.21	-0.463195462	0	-26	210	Negative
TCONS_00058565	32.8076	10.4135	1.655575016	0.00065227	gga-miR-34a-5p	3063.87	4134.98	-0.422958824	1.67E-34	-30	1069	Negative
TCONS_00058565	32.8076	10.4135	1.655575016	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-32.5	772	Negative
TCONS_00058565	32.8076	10.4135	1.655575016	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-34.1	769	Negative
TCONS_00058565	32.8076	10.4135	1.655575016	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-28	772	Negative
TCONS_00059257	26.1176	10.0275	1.381060365	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-25.9	3637	Negative
TCONS_00059257	26.1176	10.0275	1.381060365	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-25.9	3641	Negative
TCONS_00059257	26.1176	10.0275	1.381060365	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-27.8	3641	Negative
TCONS_00059257	26.1176	10.0275	1.381060365	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-24.1	3641	Negative
TCONS_00059257	26.1176	10.0275	1.381060365	0.00065227	gga-miR-140-5p	3682.1	4258.29	-0.200178953	1.83E-09	-24.4	2712	Negative
TCONS_00059257	26.1176	10.0275	1.381060365	0.00065227	gga-miR-133c-3p	15232674.15	15445951	-0.010493064	1.69E-105	-33.4	2700	Negative
TCONS_00059257	26.1176	10.0275	1.381060365	0.00065227	gga-miR-133a-3p	16177058.89	16418962	-0.011847135	4.63E-144	-32.9	2700	Negative
TCONS_00059257	26.1176	10.0275	1.381060365	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-28.1	3639	Negative
TCONS_00059278	16.1346	3.20235	2.332954911	0.00065227	gga-miR-34a-5p	3063.87	4134.98	-0.422958824	1.67E-34	-36.8	1107	Negative
TCONS_00059312	1208.07	220.41	2.454442467	0.00065227	gga-miR-128-3p	99089.28	110172.91	-0.143402193	1.43E-113	-27.3	719	Negative
TCONS_00059418	39.5438	13.6139	1.538371097	0.00065227	gga-miR-107-3p	57663.43	59591.36	-0.037880075	1.61E-05	-30.1	1321	Negative
TCONS_00059418	39.5438	13.6139	1.538371097	0.00065227	gga-miR-183-5p	1050.08	1257.76	-0.250790974	6.63E-05	-26.6	1215	Negative
TCONS_00059565	26.1878	10.4916	1.319660156	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-23.6	1563	Negative
TCONS_00059565	26.1878	10.4916	1.319660156	0.00065227	gga-miR-128-3p	99089.28	110172.91	-0.143402193	1.43E-113	-23.4	268	Negative
TCONS_00059983	25.6665	0	5	0.00065227	gga-miR-107-3p	57663.43	59591.36	-0.037880075	1.61E-05	-22.2	340	Negative
TCONS_00059983	25.6665	0	5	0.00065227	gga-let-7i	271147.69	318697.47	-0.223542244	0	-23.2	328	Negative
TCONS_00061016	22.8146	3.65607	2.641591762	0.00065227	gga-miR-24-3p	18037.72	29569.61	-0.703531782	0	-31	1417	Negative
TCONS_00061016	22.8146	3.65607	2.641591762	0.00065227	gga-miR-128-3p	99089.28	110172.91	-0.143402193	1.43E-113	-27.2	2144	Negative
TCONS_00061513	61.3744	29.3988	1.061879747	0.00065227	gga-miR-34a-5p	3063.87	4134.98	-0.422958824	1.67E-34	-31.6	1818	Negative
TCONS_00061933	37.5793	16.1068	1.222268297	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-27.4	4219	Negative
TCONS_00061933	37.5793	16.1068	1.222268297	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-29.2	4219	Negative
TCONS_00061933	37.5793	16.1068	1.222268297	0.00065227	gga-miR-133b-3p	15123175	15329186	-0.009953553	3.00E-94	-33.4	776	Negative
TCONS_00061933	37.5793	16.1068	1.222268297	0.00065227	gga-miR-133a-3p	16177058.89	16418962	-0.011847135	4.63E-144	-33.4	776	Negative
TCONS_00062363	82.8033	32.0963	1.367281269	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-25.4	1815	Negative
TCONS_00062363	82.8033	32.0963	1.367281269	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-27.8	1833	Negative
TCONS_00062363	82.8033	32.0963	1.367281269	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-29.3	1833	Negative
TCONS_00062363	82.8033	32.0963	1.367281269	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-27.1	1833	Negative
TCONS_00063889	24.0259	10.6354	1.17571618	0.00065227	gga-miR-24-3p	18037.72	29569.61	-0.703531782	0	-34.4	1811	Negative
TCONS_00063889	24.0259	10.6354	1.17571618	0.00065227	gga-miR-222a	31511.46	36959.96	-0.220520153	5.73E-88	-31.4	1870	Negative
TCONS_00063889	24.0259	10.6354	1.17571618	0.00065227	gga-miR-133c-3p	15232674.15	15445951	-0.010493064	1.69E-105	-27.5	1893	Negative
TCONS_00063889	24.0259	10.6354	1.17571618	0.00065227	gga-miR-133b-3p	15123175	15329186	-0.009953553	3.00E-94	-25.5	1894	Negative
TCONS_00063889	24.0259	10.6354	1.17571618	0.00065227	gga-miR-133a-3p	16177058.89	16418962	-0.011847135	4.63E-144	-27.6	1862	Negative
TCONS_00064325	92.1425	36.3473	1.342018542	0.00065227	gga-miR-128-3p	99089.28	110172.91	-0.143402193	1.43E-113	-22.1	3022	Negative
TCONS_00064325	92.1425	36.3473	1.342018542	0.00065227	gga-miR-10a-5p	2368.36	2753.91	-0.208026576	6.49E-07	-24.3	2918	Negative
TCONS_00064325	92.1425	36.3473	1.342018542	0.00065227	gga-miR-24-3p	18037.72	29569.61	-0.703531782	0	-31	2996	Negative
TCONS_00066041	20.7313	10.098	1.037741004	0.00065227	gga-miR-128-3p	99089.28	110172.91	-0.143402193	1.43E-113	-23.6	417	Negative
TCONS_00066041	20.7313	10.098	1.037741004	0.00065227	gga-miR-10a-5p	2368.36	2753.91	-0.208026576	6.49E-07	-24.4	2799	Negative
TCONS_00066041	20.7313	10.098	1.037741004	0.00065227	gga-miR-455-5p	2386.54	2712.81	-0.175301048	3.23E-05	-26.6	2135	Negative
TCONS_00066041	20.7313	10.098	1.037741004	0.00065227	gga-let-7i	271147.69	318697.47	-0.223542244	0	-28	617	Negative
TCONS_00066080	24.7522	9.75945	1.342685008	0.00065227	gga-miR-30e-5p	3635178.24	4124439.2	-0.172605412	0	-23.5	1907	Negative
TCONS_00066080	24.7522	9.75945	1.342685008	0.00065227	gga-miR-30a-5p	5516178.95	6501640.5	-0.227568083	0	-25.6	1907	Negative
TCONS_00066080	24.7522	9.75945	1.342685008	0.00065227	gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	-22.9	1057	Negative
TCONS_00066855	39.5926	17.6038	1.169343924	0.00065227	gga-miR-20b-5p	6200.47	7875.37	-0.335403686	2.62E-42	-33.8	2863	Negative
TCONS_00067025	217.549	100.556	1.113341218	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-24.7	2644	Negative
TCONS_00067025	217.549	100.556	1.113341218	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-22.7	2635	Negative
TCONS_00067025	217.549	100.556	1.113341218	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-30.2	2638	Negative
TCONS_00067025	217.549	100.556	1.113341218	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-23.2	2638	Negative
TCONS_00067025	217.549	100.556	1.113341218	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-28.3	2638	Negative

TCONS_00068724	22.9118	5.79068	1.984286125	0.00065227	gga-miR-181b-5p	104412.41	123095.75	-0.227921315	0	-24.5	906	Negative
TCONS_00071229	14.8508	31.2254	-1.072179403	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-20.9	1007	Negative
TCONS_00071229	14.8508	31.2254	-1.072179403	0.00065227	gga-miR-218-5p	6523.22	3337.58	0.97634831	1.72E-233	-23.8	1321	Negative
TCONS_00071234	10.5643	23.6336	-1.161642229	0.00065227	gga-miR-22-3p	6060606.31	5856904.5	0.058890194	0	-26.9	1219	Negative
TCONS_00071234	10.5643	23.6336	-1.161642229	0.00065227	gga-miR-142-5p	108462.71	54058.88	1.014162038	0	-26	873	Negative
TCONS_00071899	31.5742	15.2997	1.045242816	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-21.7	894	Negative
TCONS_00071899	31.5742	15.2997	1.045242816	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-22.6	892	Negative
TCONS_00071899	31.5742	15.2997	1.045242816	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-23	888	Negative
TCONS_00071902	27.5107	12.8805	1.094804251	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-26.5	1321	Negative
TCONS_00071902	27.5107	12.8805	1.094804251	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-26	1338	Negative
TCONS_00071902	27.5107	12.8805	1.094804251	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-25.6	1339	Negative
TCONS_00071902	27.5107	12.8805	1.094804251	0.00065227	gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	-23.7	1043	Negative
TCONS_00071902	27.5107	12.8805	1.094804251	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-25	1336	Negative
TCONS_00073069	9.65156	22.1572	-1.198941528	0.00065227	gga-miR-218-5p	6523.22	3337.58	0.97634831	1.72E-233	-22.4	544	Negative
TCONS_00073069	9.65156	22.1572	-1.198941528	0.00065227	gga-miR-1729-5p	1368.28	1150.89	0.259179981	1.59E-05	-28.1	3363	Negative
TCONS_00073874	27.755	12.5188	1.148651415	0.00065227	gga-miR-19b-3p	61345.53	77980.92	-0.336596508	0	-27.4	2740	Negative
TCONS_00073874	27.755	12.5188	1.148651415	0.00065227	gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	-25.1	2740	Negative
TCONS_00073874	27.755	12.5188	1.148651415	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-26.1	1556	Negative
TCONS_00073874	27.755	12.5188	1.148651415	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-24.7	1569	Negative
TCONS_00073874	27.755	12.5188	1.148651415	0.00065227	gga-miR-24-3p	18037.72	29569.61	-0.703531782	0	-29.6	1585	Negative
TCONS_00074529	52.536	7.84763	2.742977432	0.00065227	gga-miR-34a-5p	3063.87	4134.98	-0.422958824	1.67E-34	-30	1212	Negative
TCONS_00074529	52.536	7.84763	2.742977432	0.00065227	gga-miR-196-5p	9318.88	11221.16	-0.258426903	6.42E-37	-22.7	512	Negative
TCONS_00074529	52.536	7.84763	2.742977432	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-24.2	49	Negative
TCONS_00074529	52.536	7.84763	2.742977432	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-26.4	35	Negative
TCONS_00074529	52.536	7.84763	2.742977432	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-24.2	1264	Negative
TCONS_00074529	52.536	7.84763	2.742977432	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-25.1	47	Negative
TCONS_00074529	52.536	7.84763	2.742977432	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-28.2	35	Negative
TCONS_00075876	0	33.9589	-5	0.00065227	gga-miR-489-3p	6582.31	3822.59	0.793609947	3.09E-166	-21.8	19	Negative
TCONS_00076040	46.4583	135.168	-1.540745376	0.00065227	gga-miR-9-5p	1495.57	1035.8	0.539516416	3.95E-20	-25.3	4534	Negative
TCONS_00076466	20.2034	7.77185	1.378268141	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-25.4	3490	Negative
TCONS_00076466	20.2034	7.77185	1.378268141	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-26.6	3491	Negative
TCONS_00076466	20.2034	7.77185	1.378268141	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-25.2	3477	Negative
TCONS_00076466	20.2034	7.77185	1.378268141	0.00065227	gga-miR-107-3p	57663.43	59591.36	-0.037880075	1.61E-05	-34.2	1869	Negative
TCONS_00076466	20.2034	7.77185	1.378268141	0.00065227	gga-miR-206	26129.24	36261.21	-0.463195462	0	-25.8	2418	Negative
TCONS_00076534	87.4409	13.7493	2.66895008	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-27.4	1261	Negative
TCONS_00076534	87.4409	13.7493	2.66895008	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-29.3	3453	Negative
TCONS_00076534	87.4409	13.7493	2.66895008	0.00065227	gga-miR-128-3p	99089.28	110172.91	-0.143402193	1.43E-113	-29.4	2834	Negative
TCONS_00076534	87.4409	13.7493	2.66895008	0.00065227	gga-miR-10a-5p	2368.36	2753.91	-0.208026576	6.49E-07	-25.1	1881	Negative
TCONS_00077197	14.1637	35.1917	-1.313037016	0.00065227	gga-miR-199-5p	157089.1	112030.78	0.497254361	0	-31	1735	Negative
TCONS_00077197	14.1637	35.1917	-1.313037016	0.00065227	gga-miR-148a-3p	1311848.77	1183894.4	0.157627517	0	-22.7	1258	Negative
TCONS_00077460	34.0984	15.6603	1.122592195	0.00065227	gga-miR-193a-3p	27315.69	30161.5	-0.13341187	6.28E-28	-27	1205	Negative
TCONS_00077616	30.455	14.2722	1.093471367	0.00065227	gga-miR-183-5p	1050.08	1257.76	-0.250790974	6.63E-05	-25.9	607	Negative
TCONS_00077616	30.455	14.2722	1.093471367	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-21.6	1701	Negative
TCONS_00077616	30.455	14.2722	1.093471367	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-27.3	1686	Negative
TCONS_00077616	30.455	14.2722	1.093471367	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-28.8	1686	Negative
TCONS_00077616	30.455	14.2722	1.093471367	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-23.8	1686	Negative
TCONS_00077869	21.6685	8.7445	1.309151486	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-26.1	2062	Negative
TCONS_00077869	21.6685	8.7445	1.309151486	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-26.3	2054	Negative
TCONS_00077869	21.6685	8.7445	1.309151486	0.00065227	gga-miR-10a-5p	2368.36	2753.91	-0.208026576	6.49E-07	-22.3	1205	Negative
TCONS_00077869	21.6685	8.7445	1.309151486	0.00065227	gga-miR-24-3p	18037.72	29569.61	-0.703531782	0	-31.5	1435	Negative
TCONS_00081794	40.7184	20.1848	1.012411581	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-24.8	640	Negative
TCONS_00081794	40.7184	20.1848	1.012411581	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-22.2	634	Negative
TCONS_00081794	40.7184	20.1848	1.012411581	0.00065227	gga-miR-30d-5p	3872505.2	4800290.2	-0.300288016	0	-24.5	188	Negative
TCONS_00081794	40.7184	20.1848	1.012411581	0.00065227	gga-miR-30b-5p	70087.1	84269.7	-0.256298615	5.43E-265	-21.3	189	Negative

TCONS_00082792	13.5483	31.2816	-1.207202468	0.00065227	gga-let-7f-5p	1810554.5	1701629.8	0.099080869	0	-22	336	Negative
TCONS_00083336	40.4709	13.6142	1.571772723	0.00065227	gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	-25.3	5466	Negative
TCONS_00083337	69.0715	25.2827	1.449940014	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-25.2	1080	Negative
TCONS_00083337	69.0715	25.2827	1.449940014	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-28.7	1087	Negative
TCONS_00083497	29.5313	14.2964	1.046592962	0.00065227	gga-miR-24-3p	18037.72	29569.61	-0.703531782	0	-28.6	2211	Negative
TCONS_00084705	20.8728	3.04411	2.777531748	0.00065227	gga-miR-20a-5p	17755.88	20913.29	-0.226556733	6.19E-53	-27.6	7109	Negative
TCONS_00084896	53.6619	17.9478	1.580091124	0.00065227	gga-miR-30e-5p	3635178.24	4124439.2	-0.172605412	0	-25	519	Negative
TCONS_00084896	53.6619	17.9478	1.580091124	0.00065227	gga-miR-30d-5p	3872505.2	4800290.2	-0.300288016	0	-26	515	Negative
TCONS_00084896	53.6619	17.9478	1.580091124	0.00065227	gga-miR-30c-5p	450797.58	568867.75	-0.326047081	0	-29.8	517	Negative
TCONS_00084896	53.6619	17.9478	1.580091124	0.00065227	gga-miR-30a-5p	5516178.95	6501640.5	-0.227568083	0	-27.6	504	Negative
TCONS_00084896	53.6619	17.9478	1.580091124	0.00065227	gga-miR-30b-5p	70087.1	84269.7	-0.256298615	5.43E-265	-27.2	517	Negative
TCONS_00085395	157.972	65.7808	1.263930409	0.00065227	gga-miR-34a-5p	3063.87	4134.98	-0.422958824	1.67E-34	-29.8	2327	Negative
TCONS_00085395	157.972	65.7808	1.263930409	0.00065227	gga-miR-24-3p	18037.72	29569.61	-0.703531782	0	-28.2	1278	Negative
TCONS_00085527	26.8778	13.0151	1.046228659	0.00065227	gga-miR-30c-5p	450797.58	568867.75	-0.326047081	0	-26.7	2123	Negative
TCONS_00085527	26.8778	13.0151	1.046228659	0.00065227	gga-miR-24-3p	18037.72	29569.61	-0.703531782	0	-30.2	2732	Negative
TCONS_00085551	55.5963	22.5381	1.302622974	0.00065227	gga-miR-133c-3p	15232674.15	15445951	-0.010493064	1.69E-105	-32.1	45	Negative
TCONS_00085551	55.5963	22.5381	1.302622974	0.00065227	gga-miR-133b-3p	15123175	15329186	-0.009953553	3.00E-94	-30.5	49	Negative
TCONS_00085551	55.5963	22.5381	1.302622974	0.00065227	gga-miR-133a-3p	16177058.89	16418962	-0.011847135	4.63E-144	-33.6	44	Negative
TCONS_00086267	212.826	87.1596	1.287942929	0.00065227	gga-miR-499-5p	3477.53	4200.74	-0.263014091	5.47E-15	-23.5	19	Negative
TCONS_00086268	224.515	100.473	1.160003976	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-24.5	1830	Negative
TCONS_00086268	224.515	100.473	1.160003976	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-24.1	1826	Negative
TCONS_00086268	224.515	100.473	1.160003976	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-24.5	1823	Negative
TCONS_00086268	224.515	100.473	1.160003976	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-26.3	1823	Negative
TCONS_00086268	224.515	100.473	1.160003976	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-23.8	1823	Negative
TCONS_00086268	224.515	100.473	1.160003976	0.00065227	gga-miR-140-5p	3682.1	4258.29	-0.200178953	1.83E-09	-28.4	934	Negative
TCONS_00086268	224.515	100.473	1.160003976	0.00065227	gga-miR-107-3p	57663.43	59591.36	-0.037880075	1.61E-05	-27.7	2191	Negative
TCONS_00086271	232.726	86.0222	1.435851463	0.00065227	gga-miR-34a-5p	3063.87	4134.98	-0.422958824	1.67E-34	-30.7	1907	Negative
TCONS_00086271	232.726	86.0222	1.435851463	0.00065227	gga-miR-222a	31511.46	36959.96	-0.220520153	5.73E-88	-32.6	146	Negative
TCONS_00086271	232.726	86.0222	1.435851463	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-26.6	433	Negative
TCONS_00086271	232.726	86.0222	1.435851463	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-26.3	439	Negative
TCONS_00086271	232.726	86.0222	1.435851463	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-31.8	432	Negative
TCONS_00086271	232.726	86.0222	1.435851463	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-33.6	432	Negative
TCONS_00086271	232.726	86.0222	1.435851463	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-27.8	432	Negative
TCONS_00086276	191.655	86.19	1.152919238	0.00065227	gga-miR-30a-5p	5516178.95	6501640.5	-0.227568083	0	-21.7	2191	Negative
TCONS_00086276	191.655	86.19	1.152919238	0.00065227	gga-miR-140-5p	3682.1	4258.29	-0.200178953	1.83E-09	-25.5	3330	Negative
TCONS_00086277	40.2472	11.7619	1.774767289	0.00065227	gga-miR-30a-3p	5516178.95	6501640.5	-0.227568083	0	-25.9	1167	Negative
TCONS_00086277	40.2472	11.7619	1.774767289	0.00065227	gga-miR-23b-3p	83219.9	103843.03	-0.309837482	0	-24.1	694	Negative
TCONS_00087905	20.3211	9.22293	1.139681445	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-26.1	786	Negative
TCONS_00087905	20.3211	9.22293	1.139681445	0.00065227	gga-miR-140-5p	3682.1	4258.29	-0.200178953	1.83E-09	-24.8	197	Negative
TCONS_00087905	20.3211	9.22293	1.139681445	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-25.8	792	Negative
TCONS_00088130	28.4694	7.58554	1.908088296	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-24	1224	Negative
TCONS_00088130	28.4694	7.58554	1.908088296	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-26.3	1216	Negative
TCONS_00088130	28.4694	7.58554	1.908088296	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-27.6	1225	Negative
TCONS_00088130	28.4694	7.58554	1.908088296	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-24.9	1216	Negative
TCONS_00088383	61.9947	28.4105	1.125720661	0.00065227	gga-miR-190a-5p	4073.03	4858.39	-0.244809421	4.22E-15	-23.2	5787	Negative
TCONS_00088383	61.9947	28.4105	1.125720661	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-24.9	3009	Negative
TCONS_00088383	61.9947	28.4105	1.125720661	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-31	3004	Negative
TCONS_00088383	61.9947	28.4105	1.125720661	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-27.5	3007	Negative
TCONS_00088383	61.9947	28.4105	1.125720661	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-30.9	3007	Negative
TCONS_00088564	28.7617	12.8745	1.159632547	0.00065227	gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	-24.4	2792	Negative
TCONS_00088564	28.7617	12.8745	1.159632547	0.00065227	gga-miR-193a-3p	27315.69	30161.5	-0.13341187	6.28E-28	-26.6	1506	Negative
TCONS_00088564	28.7617	12.8745	1.159632547	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-24.3	1173	Negative
TCONS_00088565	16.2833	6.29188	1.371830047	0.00065227	gga-miR-454-3p	26265.61	42837.71	-0.696139826	0	-25.6	61	Negative
TCONS_00088565	16.2833	6.29188	1.371830047	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-26.3	4981	Negative

TCONS_00088565	16.2833	6.29188	1.371830047	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-27	4976	Negative
TCONS_00088565	16.2833	6.29188	1.371830047	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-27.6	4368	Negative
TCONS_00088565	16.2833	6.29188	1.371830047	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-27.4	4976	Negative
TCONS_00088565	16.2833	6.29188	1.371830047	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-25.9	4417	Negative
TCONS_00088566	20.181	6.55342	1.622677764	0.00065227	gga-miR-454-3p	26265.61	42837.71	-0.696139826	0	-24.6	293	Negative
TCONS_00088566	20.181	6.55342	1.622677764	0.00065227	gga-miR-215-5p	14382.9	20757.1	-0.519683861	6.37E-245	-22.7	2223	Negative
TCONS_00088566	20.181	6.55342	1.622677764	0.00065227	gga-miR-19b-3p	61345.53	77980.92	-0.336596508	0	-23.2	641	Negative
TCONS_00088566	20.181	6.55342	1.622677764	0.00065227	gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	-21.9	641	Negative
TCONS_00090984	61.7675	6.0976	3.340534521	0.00065227	gga-miR-193a-3p	27315.69	30161.5	-0.13341187	6.28E-28	-27.7	1280	Negative
TCONS_00090984	61.7675	6.0976	3.340534521	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-24.1	802	Negative
TCONS_00090984	61.7675	6.0976	3.340534521	0.00065227	gga-miR-107-3p	57663.43	59591.36	-0.037880075	1.61E-05	-30.4	1539	Negative
TCONS_00090985	43.3977	6.59905	2.71728833	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-23.5	2603	Negative
TCONS_00090985	43.3977	6.59905	2.71728833	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-27.1	1436	Negative
TCONS_00090985	43.3977	6.59905	2.71728833	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-27.1	1436	Negative
TCONS_00090985	43.3977	6.59905	2.71728833	0.00065227	gga-miR-107-3p	57663.43	59591.36	-0.037880075	1.61E-05	-27.8	2603	Negative
TCONS_00091413	5.98185	13.4878	-1.17299141	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-21.8	290	Negative
TCONS_00091413	5.98185	13.4878	-1.17299141	0.00065227	gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	-21.7	290	Negative
TCONS_00091420	3.54081	17.8504	-2.333805067	0.00065227	gga-miR-211	4336.69	2762.13	0.66037954	4.14E-80	-28	1678	Negative
TCONS_00091420	3.54081	17.8504	-2.333805067	0.00065227	gga-miR-204	4336.69	2762.13	0.66037954	4.14E-80	-28	1678	Negative
TCONS_00091422	9.70363	25.2372	-1.378955409	0.00065227	gga-miR-489-3p	6582.31	3822.59	0.793609947	3.09E-166	-29.7	1343	Negative
TCONS_00091422	9.70363	25.2372	-1.378955409	0.00065227	gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	-23.9	813	Negative
TCONS_00091422	9.70363	25.2372	-1.378955409	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-25	812	Negative
TCONS_00092803	20.8802	9.41174	1.149602159	0.00065227	gga-miR-128-3p	99089.28	110172.91	-0.143402193	1.43E-113	-25.3	1514	Negative
TCONS_00093337	314.978	102.785	1.615621326	0.00065227	gga-miR-183-5p	1050.08	1257.76	-0.250790974	6.63E-05	-23	699	Negative
TCONS_00093346	20.3814	4.55	2.163314703	0.00065227	gga-miR-34a-5p	3063.87	4134.98	-0.422958824	1.67E-34	-27.8	182	Negative
TCONS_00093346	20.3814	4.55	2.163314703	0.00065227	gga-miR-23b-3p	83219.9	103843.03	-0.309837482	0	-29.3	351	Negative
TCONS_00097167	120.87	46.6941	1.372144035	0.00065227	gga-miR-20b-5p	6200.47	7875.37	-0.335403686	2.62E-42	-23.5	75	Negative
TCONS_00097167	120.87	46.6941	1.372144035	0.00065227	gga-miR-17-5p	23906.35	28303.64	-0.234027283	1.05E-75	-26.6	75	Negative
TCONS_00097167	120.87	46.6941	1.372144035	0.00065227	gga-miR-106-5p	15701.18	19647.31	-0.313892371	1.17E-91	-23.9	76	Negative
TCONS_00097167	120.87	46.6941	1.372144035	0.00065227	gga-miR-20a-5p	17755.88	20913.29	-0.226556733	6.19E-53	-24.5	75	Negative
TCONS_00097707	0	14.6875	-5	0.00065227	gga-miR-27b-3p	494682.7	459171.63	0.117036382	0	-22.4	370	Negative
TCONS_00098001	10.2772	27.9447	-1.443127428	0.00065227	gga-miR-218-5p	6523.22	3337.58	0.97634831	1.72E-233	-21.6	917	Negative
TCONS_00098189	41.3761	17.2955	1.258400945	0.00065227	gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	-24.3	2388	Negative
TCONS_00098189	41.3761	17.2955	1.258400945	0.00065227	gga-miR-24-3p	18037.72	29569.61	-0.703531782	0	-34.3	955	Negative
TCONS_00098715	21.3889	6.10353	1.809146511	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-26.2	2359	Negative
TCONS_00098715	21.3889	6.10353	1.809146511	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-26.1	2358	Negative
TCONS_00098715	21.3889	6.10353	1.809146511	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-28.9	2353	Negative
TCONS_00098715	21.3889	6.10353	1.809146511	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-30.4	2353	Negative
TCONS_00098715	21.3889	6.10353	1.809146511	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-26.5	2356	Negative
TCONS_00098715	21.3889	6.10353	1.809146511	0.00065227	gga-miR-133b-3p	15123175	15329186	-0.009953553	3.00E-94	-27.2	1653	Negative
TCONS_00099995	18.9931	8.20594	1.210734887	0.00065227	gga-miR-1a-3p	362868.23	438537.85	-0.263689173	0	-21.3	4118	Negative
TCONS_00099995	18.9931	8.20594	1.210734887	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-26.9	1726	Negative
TCONS_00099995	18.9931	8.20594	1.210734887	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-24.8	1713	Negative
TCONS_00099995	18.9931	8.20594	1.210734887	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-24.5	1728	Negative
TCONS_00100717	7.29788	19.4095	-1.41121362	0.00065227	gga-miR-22-3p	6060606.31	5856904.5	0.058890194	0	-26.8	1310	Negative
TCONS_00100717	7.29788	19.4095	-1.41121362	0.00065227	gga-miR-211	4336.69	2762.13	0.66037954	4.14E-80	-25.5	2379	Negative
TCONS_00100717	7.29788	19.4095	-1.41121362	0.00065227	gga-miR-204	4336.69	2762.13	0.66037954	4.14E-80	-25.5	2379	Negative
TCONS_00100717	7.29788	19.4095	-1.41121362	0.00065227	gga-miR-148a-3p	1311848.77	1183894.4	0.157627517	0	-26	1119	Negative
TCONS_00101056	21.843	8.7259	1.32379517	0.00065227	gga-miR-34a-5p	3063.87	4134.98	-0.422958824	1.67E-34	-31.2	271	Negative
TCONS_00101056	21.843	8.7259	1.32379517	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-22.5	1436	Negative
TCONS_00101117	22.4102	5.48328	2.031044473	0.00065227	gga-miR-128-3p	99089.28	110172.91	-0.143402193	1.43E-113	-26.8	977	Negative
TCONS_00102021	106.051	49.9454	1.086334509	0.00065227	gga-miR-183-5p	1050.08	1257.76	-0.250790974	6.63E-05	-28.4	6267	Negative
TCONS_00102021	106.051	49.9454	1.086334509	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-24	2430	Negative
TCONS_00102021	106.051	49.9454	1.086334509	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-25.5	2429	Negative

TCONS_00102021	106.051	49.9454	1.086334509	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-27.3	2426	Negative
TCONS_00102615	15.6765	5.8974	1.410452538	0.00065227	gga-miR-193a-3p	27315.69	30161.5	-0.13341187	6.28E-28	-27.8	2618	Negative
TCONS_00102729	21.1136	7.43025	1.50668993	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-26.2	1943	Negative
TCONS_00102729	21.1136	7.43025	1.50668993	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-24.6	1947	Negative
TCONS_00102729	21.1136	7.43025	1.50668993	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-24.5	1948	Negative
TCONS_00102850	22.8321	9.77165	1.224389463	0.00065227	gga-miR-126-3p	186591.32	227736.18	-0.27791519	0	-21.4	1303	Negative
TCONS_00102850	22.8321	9.77165	1.224389463	0.00065227	gga-let-7i	271147.69	318697.47	-0.223542244	0	-26.5	2346	Negative
TCONS_00104873	72.252	27.7886	1.37854437	0.00065227	gga-miR-26a-5p	5512392.3	5684205.5	-0.034713704	0	-24	1155	Negative
TCONS_00104873	72.252	27.7886	1.37854437	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-25.8	1244	Negative
TCONS_00104873	72.252	27.7886	1.37854437	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-25.1	1222	Negative
TCONS_00105002	34.5337	13.1577	1.392097591	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-27	1546	Negative
TCONS_00105002	34.5337	13.1577	1.392097591	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-28	1545	Negative
TCONS_00105002	34.5337	13.1577	1.392097591	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-29.8	1545	Negative
TCONS_00105326	22.2158	4.0145	2.468293876	0.00065227	gga-miR-34a-5p	3063.87	4134.98	-0.422958824	1.67E-34	-32.6	1079	Negative
TCONS_00105326	22.2158	4.0145	2.468293876	0.00065227	gga-miR-193a-3p	27315.69	30161.5	-0.13341187	6.28E-28	-31.5	4245	Negative
TCONS_00105769	527.599	85.8592	2.619397195	0.00065227	gga-miR-222a	31511.46	36959.96	-0.220520153	5.73E-88	-28.8	376	Negative
TCONS_00105769	527.599	85.8592	2.619397195	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-25.2	616	Negative
TCONS_00105769	527.599	85.8592	2.619397195	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-21.4	617	Negative
TCONS_00105769	527.599	85.8592	2.619397195	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-26	599	Negative
TCONS_00105769	527.599	85.8592	2.619397195	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-22	599	Negative
TCONS_00105769	527.599	85.8592	2.619397195	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-25.8	599	Negative
TCONS_00105857	38.8656	7.88303	2.301671618	0.00065227	gga-miR-34a-5p	3063.87	4134.98	-0.422958824	1.67E-34	-29.9	3072	Negative
TCONS_00105857	38.8656	7.88303	2.301671618	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-30.8	2279	Negative
TCONS_00105857	38.8656	7.88303	2.301671618	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-27.9	2269	Negative
TCONS_00105857	38.8656	7.88303	2.301671618	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-26.2	2265	Negative
TCONS_00106010	53.3725	22.0086	1.278029213	0.00065227	gga-miR-183-5p	1050.08	1257.76	-0.250790974	6.63E-05	-26.7	1046	Negative
TCONS_00106010	53.3725	22.0086	1.278029213	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-24.7	1528	Negative
TCONS_00106010	53.3725	22.0086	1.278029213	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-27.8	1521	Negative
TCONS_00106010	53.3725	22.0086	1.278029213	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-29.1	1838	Negative
TCONS_00106010	53.3725	22.0086	1.278029213	0.00065227	gga-miR-24-3p	18037.72	29569.61	-0.703531782	0	-30.2	1646	Negative
TCONS_00106665	25.3911	3.29355	2.94660754	0.00065227	gga-miR-455-5p	2386.54	2712.81	-0.175301048	3.23E-05	-26.5	2038	Negative
TCONS_00106665	25.3911	3.29355	2.94660754	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-25.5	1346	Negative
TCONS_00106665	25.3911	3.29355	2.94660754	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-26.9	1343	Negative
TCONS_00106665	25.3911	3.29355	2.94660754	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-28.4	1343	Negative
TCONS_00106665	25.3911	3.29355	2.94660754	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-24.9	1945	Negative
TCONS_00106665	25.3911	3.29355	2.94660754	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-26	1350	Negative
TCONS_00107235	16.1492	7.22613	1.160167584	0.00065227	gga-miR-17-5p	23906.35	28303.64	-0.234027283	1.05E-75	-28.3	995	Negative
TCONS_00107235	16.1492	7.22613	1.160167584	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-25.6	2287	Negative
TCONS_00107235	16.1492	7.22613	1.160167584	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-26	2796	Negative
TCONS_00107235	16.1492	7.22613	1.160167584	0.00065227	gga-miR-106-5p	15701.18	19647.31	-0.313892371	1.17E-91	-24.9	991	Negative
TCONS_00107235	16.1492	7.22613	1.160167584	0.00065227	gga-miR-20a-5p	17755.88	20913.29	-0.226556733	6.19E-53	-23.8	996	Negative
TCONS_00107385	137.17	68.2505	1.007053469	0.00065227	gga-miR-107-3p	57663.43	59591.36	-0.037880075	1.61E-05	-33.9	1727	Negative
TCONS_00107444	24.4142	6.54715	1.898781567	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-22.8	1657	Negative
TCONS_00107444	24.4142	6.54715	1.898781567	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-23.4	1657	Negative
TCONS_00107450	113.261	23.0323	2.297920782	0.00065227	gga-miR-454-3p	26265.61	42837.71	-0.696139826	0	-26.6	1434	Negative
TCONS_00107450	113.261	23.0323	2.297920782	0.00065227	gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	-27.1	1434	Negative
TCONS_00107450	113.261	23.0323	2.297920782	0.00065227	gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	-23.1	1434	Negative
TCONS_00107450	113.261	23.0323	2.297920782	0.00065227	gga-miR-130b-3p	6614.13	10662.16	-0.679309987	1.30E-203	-24.6	1434	Negative
TCONS_00108098	33.6891	11.8126	1.511955345	0.00065227	gga-miR-30e-5p	3635178.24	4124439.2	-0.172605412	0	-21	2124	Negative
TCONS_00108098	33.6891	11.8126	1.511955345	0.00065227	gga-miR-215-5p	14382.9	20757.1	-0.519683861	6.37E-245	-21.9	261	Negative
TCONS_00112672	126.588	50.5031	1.325696798	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-21.1	429	Negative
TCONS_00112672	126.588	50.5031	1.325696798	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-22.5	426	Negative
TCONS_00112672	126.588	50.5031	1.325696798	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-24.5	426	Negative
TCONS_00112894	24.0587	0	5	0.00065227	gga-miR-183-5p	1050.08	1257.76	-0.250790974	6.63E-05	-24	490	Negative



TCONS_00116213	8.86948	24.5128	-1.466613857	0.00065227	gga-miR-199-5p	157089.1	112030.78	0.497254361	0	-25.8	1135	Negative
TCONS_00001714	0	20.3823	-5	0.00065227	gga-miR-24-3p	18037.72	29569.61	-0.703531782	0	-29.9	43	Postive
TCONS_00001714	0	20.3823	-5	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-27.3	349	Postive
TCONS_00001714	0	20.3823	-5	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-24.6	350	Postive
TCONS_00001714	0	20.3823	-5	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-26.7	26	Postive
TCONS_00001714	0	20.3823	-5	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-27.2	339	Postive
TCONS_00001714	0	20.3823	-5	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-27.6	350	Postive
TCONS_00001934	0	13.8781	-5	0.00065227	gga-miR-454-3p	26265.61	42837.71	-0.696139826	0	-21.1	113	Postive
TCONS_00002892	30.8816	13.9662	1.144807964	0.00065227	gga-miR-489-3p	6582.31	3822.59	0.793609947	3.09E-166	-25.9	1948	Postive
TCONS_00002892	30.8816	13.9662	1.144807964	0.00065227	gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	-20.2	1428	Postive
TCONS_00002892	30.8816	13.9662	1.144807964	0.00065227	gga-miR-211	4336.69	2762.13	0.66037954	4.14E-80	-30.8	828	Postive
TCONS_00002892	30.8816	13.9662	1.144807964	0.00065227	gga-miR-204	4336.69	2762.13	0.66037954	4.14E-80	-30.8	828	Postive
TCONS_00003147	0	13.4177	-5	0.00065227	gga-miR-181b-5p	104412.41	123095.75	-0.227921315	0	-24.5	573	Postive
TCONS_00003147	0	13.4177	-5	0.00065227	gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	-25.5	621	Postive
TCONS_00003147	0	13.4177	-5	0.00065227	gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	-21.9	621	Postive
TCONS_00003147	0	13.4177	-5	0.00065227	gga-miR-130b-3p	6614.13	10662.16	-0.679309987	1.30E-203	-24.4	621	Postive
TCONS_00007326	16.3522	6.55724	1.318324142	0.00065227	gga-miR-1729-5p	1368.28	1150.89	0.259179981	1.59E-05	-29.3	1256	Postive
TCONS_00007326	16.3522	6.55724	1.318324142	0.00065227	gga-miR-153-3p	2145.62	1644.13	0.393636657	2.22E-16	-21.6	1220	Postive
TCONS_00007863	15.8108	34.4929	-1.125389061	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-23.8	938	Postive
TCONS_00007863	15.8108	34.4929	-1.125389061	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-22.4	943	Postive
TCONS_00007863	15.8108	34.4929	-1.125389061	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-25.8	950	Postive
TCONS_00007863	15.8108	34.4929	-1.125389061	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-24.4	948	Postive
TCONS_00008384	16.21	6.22013	1.381867453	0.00065227	gga-miR-489-3p	6582.31	3822.59	0.793609947	3.09E-166	-29.6	3603	Postive
TCONS_00008384	16.21	6.22013	1.381867453	0.00065227	gga-miR-365-3p	27974.83	26158.05	0.10644081	3.39E-17	-23.6	513	Postive
TCONS_00008384	16.21	6.22013	1.381867453	0.00065227	gga-miR-205a	4900.37	2137.36	1.206627201	2.97E-247	-34	1895	Postive
TCONS_00008384	16.21	6.22013	1.381867453	0.00065227	gga-miR-204	4336.69	2762.13	0.66037954	4.14E-80	-34.9	2202	Postive
TCONS_00008384	16.21	6.22013	1.381867453	0.00065227	gga-miR-211	4336.69	2762.13	0.66037954	4.14E-80	-34.9	2202	Postive
TCONS_00008501	24.6292	8.88655	1.470674428	0.00065227	gga-miR-22-3p	6060606.31	5856904.5	0.058890194	0	-28.8	716	Postive
TCONS_00008501	24.6292	8.88655	1.470674428	0.00065227	gga-let-7g-5p	161712.18	156890.77	0.053234308	7.39E-25	-23.5	746	Postive
TCONS_00009388	32.9007	10.7821	1.609480084	0.00065227	gga-miR-148a-3p	1311848.77	1183894.4	0.157627517	0	-26.8	1591	Postive
TCONS_00009388	32.9007	10.7821	1.609480084	0.00065227	gga-let-7j-5p	1933522.85	1763522.9	0.142337939	0	-24.9	1565	Postive
TCONS_00009388	32.9007	10.7821	1.609480084	0.00065227	gga-let-7g-5p	161712.18	156890.77	0.053234308	7.39E-25	-24.4	1558	Postive
TCONS_00009388	32.9007	10.7821	1.609480084	0.00065227	gga-let-7c-5p	1103087.6	913460.21	0.281700016	0	-26.4	1563	Postive
TCONS_00009388	32.9007	10.7821	1.609480084	0.00065227	gga-let-7b-5p	372600.78	329030.81	0.188974455	0	-29	1563	Postive
TCONS_00009388	32.9007	10.7821	1.609480084	0.00065227	gga-let-7f-5p	1810554.5	1701629.8	0.099080869	0	-23.6	1568	Postive
TCONS_00009389	20.4289	9.03648	1.176778713	0.00065227	gga-miR-22-3p	6060606.31	5856904.5	0.058890194	0	-27	735	Postive
TCONS_00010966	6.57829	20.5863	-1.645900041	0.00065227	gga-miR-128-3p	99089.28	110172.91	-0.143402193	1.43E-113	-21	506	Postive
TCONS_00012640	7.2516	28.8383	-1.991614868	0.00065227	gga-miR-107-3p	57663.43	59591.36	-0.037880075	1.61E-05	-28.8	1219	Postive
TCONS_00012640	7.2516	28.8383	-1.991614868	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-22.5	1220	Postive
TCONS_00012640	7.2516	28.8383	-1.991614868	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-26.5	1216	Postive
TCONS_00012643	6.23131	20.6642	-1.729526116	0.00065227	gga-miR-30a-3p	5516178.95	6501640.5	-0.227568083	0	-23.7	2102	Postive
TCONS_00012708	3.91098	14.1338	-1.853547336	0.00065227	gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	-22.9	2772	Postive
TCONS_00013296	5.78851	19.577	-1.75789576	0.00065227	gga-miR-24-3p	18037.72	29569.61	-0.703531782	0	-31.1	938	Postive
TCONS_00013520	30.0984	11.3774	1.403515891	0.00065227	gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	-21.5	1116	Postive
TCONS_00013520	30.0984	11.3774	1.403515891	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-21.5	1116	Postive
TCONS_00014571	81.6373	33.0739	1.303535294	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-24.6	1848	Postive
TCONS_00014571	81.6373	33.0739	1.303535294	0.00065227	gga-miR-144-3p	3209.33	1972.95	0.711484191	8.31E-68	-21.2	4302	Postive
TCONS_00015768	7.50805	18.7743	-1.322248955	0.00065227	gga-miR-128-3p	99089.28	110172.91	-0.143402193	1.43E-113	-24	846	Postive
TCONS_00016255	23.8493	8.24307	1.532693271	0.00065227	gga-miR-148a-3p	1311848.77	1183894.4	0.157627517	0	-23.7	1527	Postive
TCONS_00017879	19.9329	9.69345	1.040069488	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-23.5	1112	Postive
TCONS_00017879	19.9329	9.69345	1.040069488	0.00065227	gga-miR-22-3p	6060606.31	5856904.5	0.058890194	0	-26.7	457	Postive
TCONS_00017879	19.9329	9.69345	1.040069488	0.00065227	gga-miR-489-3p	6582.31	3822.59	0.793609947	3.09E-166	-27.4	806	Postive
TCONS_00017879	19.9329	9.69345	1.040069488	0.00065227	gga-miR-218-5p	6523.22	3337.58	0.97634831	1.72E-233	-22.7	3390	Postive
TCONS_00019791	42.0528	16.3461	1.363255397	0.00065227	gga-miR-22-3p	6060606.31	5856904.5	0.058890194	0	-23.5	2797	Postive

TCONS_00020068	26.0711	5.20942	2.323256793	0.00065227	gga-miR-148a-3p	1311848.77	1183894.4	0.157627517	0	-25	2625	Postive
TCONS_00020312	16.0844	43.084	-1.421490079	0.00065227	gga-miR-19b-3p	61345.53	77980.92	-0.336596508	0	-24.8	1538	Postive
TCONS_00020312	16.0844	43.084	-1.421490079	0.00065227	gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	-23	1538	Postive
TCONS_00020377	25.4937	7.4824	1.768567775	0.00065227	gga-miR-211	4336.69	2762.13	0.66037954	4.14E-80	-32.7	1447	Postive
TCONS_00020829	37.5693	8.70813	2.109119385	0.00065227	gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	-26.4	1276	Postive
TCONS_00020829	37.5693	8.70813	2.109119385	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-26.5	1276	Postive
TCONS_00020829	37.5693	8.70813	2.109119385	0.00065227	gga-let-7g-5p	161712.18	156890.77	0.053234308	7.39E-25	-25.8	1416	Postive
TCONS_00020829	37.5693	8.70813	2.109119385	0.00065227	gga-miR-22-3p	6060606.31	5856904.5	0.058890194	0	-29.8	1761	Postive
TCONS_00020829	37.5693	8.70813	2.109119385	0.00065227	gga-miR-142-5p	108462.71	54058.88	1.014162038	0	-23.3	1940	Postive
TCONS_00021334	7.86986	18.7209	-1.250239917	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-29.1	334	Postive
TCONS_00021334	7.86986	18.7209	-1.250239917	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-25.7	334	Postive
TCONS_00021334	7.86986	18.7209	-1.250239917	0.00065227	gga-miR-107-3p	57663.43	59591.36	-0.037880075	1.61E-05	-30.2	877	Postive
TCONS_00021334	7.86986	18.7209	-1.250239917	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-25	333	Postive
TCONS_00021334	7.86986	18.7209	-1.250239917	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-30.6	334	Postive
TCONS_00022107	13.8641	32.3627	-1.22297801	0.00065227	gga-miR-34a-5p	3063.87	4134.98	-0.422958824	1.67E-34	-31.5	9564	Postive
TCONS_00022107	13.8641	32.3627	-1.22297801	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-24.7	2933	Postive
TCONS_00022107	13.8641	32.3627	-1.22297801	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-26	867	Postive
TCONS_00022108	7.83267	30.5995	-1.965931997	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-26.4	2272	Postive
TCONS_00022108	7.83267	30.5995	-1.965931997	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-24	1087	Postive
TCONS_00022108	7.83267	30.5995	-1.965931997	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-21.5	1087	Postive
TCONS_00022958	22.453	8.8992	1.335160665	0.00065227	gga-miR-148a-3p	1311848.77	1183894.4	0.157627517	0	-26.7	1936	Postive
TCONS_00022958	22.453	8.8992	1.335160665	0.00065227	gga-miR-1416-5p	6400.48	5680.46	0.181738783	1.39E-11	-28.8	537	Postive
TCONS_00023407	284.05	40.9104	2.795605355	0.00065227	gga-miR-22-3p	6060606.31	5856904.5	0.058890194	0	-27.1	1441	Postive
TCONS_00025658	48.2642	21.1417	1.190862078	0.00065227	gga-miR-22-3p	6060606.31	5856904.5	0.058890194	0	-28.3	6039	Postive
TCONS_00026670	16.3183	3.63184	2.167718217	0.00065227	gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	-21.5	2611	Postive
TCONS_00026670	16.3183	3.63184	2.167718217	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-21.5	2611	Postive
TCONS_00026670	16.3183	3.63184	2.167718217	0.00065227	gga-miR-148a-3p	1311848.77	1183894.4	0.157627517	0	-26.3	1581	Postive
TCONS_00027797	43.1275	13.6649	1.658133187	0.00065227	gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	-27.5	7857	Postive
TCONS_00027797	43.1275	13.6649	1.658133187	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-28.8	7856	Postive
TCONS_00027797	43.1275	13.6649	1.658133187	0.00065227	gga-miR-218-5p	6523.22	3337.58	0.97634831	1.72E-233	-24.3	4936	Postive
TCONS_00027797	43.1275	13.6649	1.658133187	0.00065227	gga-miR-125b-5p	404462.27	285609.43	0.511527957	0	-28.5	3825	Postive
TCONS_00027797	43.1275	13.6649	1.658133187	0.00065227	gga-miR-27b-3p	494682.7	459171.63	0.117036382	0	-32.6	5238	Postive
TCONS_00028187	30.5135	0	5	0.00065227	gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	-22.4	132	Postive
TCONS_00028187	30.5135	0	5	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-22.7	131	Postive
TCONS_00028367	49.1918	14.5421	1.758182225	0.00065227	gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	-23.2	3492	Postive
TCONS_00028367	49.1918	14.5421	1.758182225	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-23.2	3492	Postive
TCONS_00028370	0	23.8278	-5	0.00065227	gga-miR-19b-3p	61345.53	77980.92	-0.336596508	0	-24.9	182	Postive
TCONS_00028370	0	23.8278	-5	0.00065227	gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	-22.3	182	Postive
TCONS_00028370	0	23.8278	-5	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-21.3	310	Postive
TCONS_00028370	0	23.8278	-5	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-25	309	Postive
TCONS_00028370	0	23.8278	-5	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-28.4	304	Postive
TCONS_00028370	0	23.8278	-5	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-27	302	Postive
TCONS_00028370	0	23.8278	-5	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-27.2	305	Postive
TCONS_00028370	0	23.8278	-5	0.00065227	gga-miR-133c-3p	15232674.15	15445951	-0.010493064	1.69E-105	-26.1	381	Postive
TCONS_00028370	0	23.8278	-5	0.00065227	gga-miR-133b-3p	15123175	15329186	-0.009953553	3.00E-94	-24.3	382	Postive
TCONS_00028370	0	23.8278	-5	0.00065227	gga-miR-133a-3p	16177058.89	16418962	-0.011847135	4.63E-144	-26.3	381	Postive
TCONS_00028442	51.5242	11.0487	2.221373569	0.00065227	gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	-24.9	1231	Postive
TCONS_00028442	51.5242	11.0487	2.221373569	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-25	1231	Postive
TCONS_00028446	26.7116	9.24387	1.530897519	0.00065227	gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	-22.2	290	Postive
TCONS_00028446	26.7116	9.24387	1.530897519	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-22.7	289	Postive
TCONS_00028729	21.0019	3.83473	2.453322944	0.00065227	gga-miR-22-3p	6060606.31	5856904.5	0.058890194	0	-27.2	2390	Postive
TCONS_00029092	22.9055	5.8829	1.961094637	0.00065227	gga-miR-221-3p	50108.32	48024.93	0.070833101	4.73E-14	-29.1	1055	Postive
TCONS_00029163	26.1836	12.9231	1.018711282	0.00065227	gga-miR-489-3p	6582.31	3822.59	0.793609947	3.09E-166	-27.3	3085	Postive
TCONS_00029380	66.2238	23.6615	1.484808262	0.00065227	gga-miR-125b-5p	404462.27	285609.43	0.511527957	0	-27.6	2081	Postive

TCONS_00029380	66.2238	23.6615	1.484808262	0.00065227	gga-miR-148a-3p	1311848.77	1183894.4	0.157627517	0	-27.4	1736	Postive
TCONS_00030106	91.6641	26.3147	1.800487869	0.00065227	gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	-22.2	491	Postive
TCONS_00030106	91.6641	26.3147	1.800487869	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-22.2	491	Postive
TCONS_00030106	91.6641	26.3147	1.800487869	0.00065227	gga-miR-144-3p	3209.33	1972.95	0.711484191	8.31E-68	-22.1	219	Postive
TCONS_00031421	75.5902	31.0737	1.28250517	0.00065227	gga-miR-489-3p	6582.31	3822.59	0.793609947	3.09E-166	-27.7	40	Postive
TCONS_00031421	75.5902	31.0737	1.28250517	0.00065227	gga-miR-148a-3p	1311848.77	1183894.4	0.157627517	0	-25.8	1558	Postive
TCONS_00037041	30.3968	13.3563	1.186399049	0.00065227	gga-miR-153-3p	2145.62	1644.13	0.393636657	2.22E-16	-20.4	650	Postive
TCONS_00037618	14.6177	4.9097	1.574009552	0.00065227	gga-miR-155	5204.94	1759.22	1.574512065	0	-22.2	3050	Postive
TCONS_00037645	32.4087	12.8305	1.336803759	0.00065227	gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	-22.1	528	Postive
TCONS_00037645	32.4087	12.8305	1.336803759	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-22.5	1594	Postive
TCONS_00037691	22.4706	7.93589	1.501574714	0.00065227	gga-miR-489-3p	6582.31	3822.59	0.793609947	3.09E-166	-26	3245	Postive
TCONS_00037693	26.4826	8.71658	1.603210668	0.00065227	gga-miR-205a	4900.37	2137.36	1.206627201	2.97E-247	-28.4	1805	Postive
TCONS_00037696	23.3492	9.6157	1.279909329	0.00065227	gga-miR-22-3p	6060606.31	5856904.5	0.058890194	0	-25.2	17	Postive
TCONS_00037697	30.3747	13.8805	1.129810623	0.00065227	gga-miR-148a-3p	1311848.77	1183894.4	0.157627517	0	-23.4	250	Postive
TCONS_00038772	22.5777	6.32077	1.836726301	0.00065227	gga-miR-489-3p	6582.31	3822.59	0.793609947	3.09E-166	-26.4	3603	Postive
TCONS_00038772	22.5777	6.32077	1.836726301	0.00065227	gga-miR-205a	4900.37	2137.36	1.206627201	2.97E-247	-31.1	3436	Postive
TCONS_00038772	22.5777	6.32077	1.836726301	0.00065227	gga-miR-1729-5p	1368.28	1150.89	0.259179981	1.59E-05	-27.2	2282	Postive
TCONS_00040094	45.4284	16.4646	1.464227031	0.00065227	gga-miR-218-5p	6523.22	3337.58	0.97634831	1.72E-233	-23.3	618	Postive
TCONS_00040094	45.4284	16.4646	1.464227031	0.00065227	gga-miR-181a-5p	2087579.9	1996273.7	0.074088345	0	-24.7	1284	Postive
TCONS_00040147	29.2494	146.362	-2.323062099	0.00065227	gga-miR-24-3p	18037.72	29569.61	-0.703531782	0	-33	5272	Postive
TCONS_00040147	29.2494	146.362	-2.323062099	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-26.4	12494	Postive
TCONS_00040147	29.2494	146.362	-2.323062099	0.00065227	gga-miR-107-3p	57663.43	59591.36	-0.037880075	1.61E-05	-35	7078	Postive
TCONS_00040214	12.0901	31.7766	-1.394138591	0.00065227	gga-miR-133c-3p	15232674.15	15445951	-0.010493064	1.69E-105	-24.9	617	Postive
TCONS_00040214	12.0901	31.7766	-1.394138591	0.00065227	gga-miR-133b-3p	15123175	15329186	-0.009953553	3.00E-94	-24.8	616	Postive
TCONS_00040214	12.0901	31.7766	-1.394138591	0.00065227	gga-miR-133a-3p	16177058.89	16418962	-0.011847135	4.63E-144	-24.8	616	Postive
TCONS_00040214	12.0901	31.7766	-1.394138591	0.00065227	gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	-25.7	1808	Postive
TCONS_00040214	12.0901	31.7766	-1.394138591	0.00065227	gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	-25.7	1808	Postive
TCONS_00040214	12.0901	31.7766	-1.394138591	0.00065227	gga-miR-107-3p	57663.43	59591.36	-0.037880075	1.61E-05	-29.9	3206	Postive
TCONS_00040214	12.0901	31.7766	-1.394138591	0.00065227	gga-miR-454-3p	26265.61	42837.71	-0.696139826	0	-26.8	1811	Postive
TCONS_00040214	12.0901	31.7766	-1.394138591	0.00065227	gga-miR-130b-3p	6614.13	10662.16	-0.679309987	1.30E-203	-24	1808	Postive
TCONS_00040224	23.8611	7.77219	1.618267478	0.00065227	gga-miR-125b-5p	404462.27	285609.43	0.511527957	0	-29	3095	Postive
TCONS_00040224	23.8611	7.77219	1.618267478	0.00065227	gga-miR-22-3p	6060606.31	5856904.5	0.058890194	0	-29.2	3102	Postive
TCONS_00040485	40.2425	11.7594	1.774905482	0.00065227	gga-let-7c-5p	1103087.6	913460.21	0.281700016	0	-25.9	358	Postive
TCONS_00040485	40.2425	11.7594	1.774905482	0.00065227	gga-let-7j-5p	1933522.85	1763522.9	0.142337939	0	-23.8	363	Postive
TCONS_00045553	2.0953	16.8451	-3.007100268	0.00065227	gga-miR-130a-3p	95161.71	100513.67	-0.069372179	7.62E-26	-22.6	912	Postive
TCONS_00047466	13.0703	26.8866	-1.040595072	0.00065227	gga-miR-128-3p	99089.28	110172.91	-0.143402193	1.43E-113	-24.9	936	Postive
TCONS_00047722	9.55594	22.0874	-1.208753903	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-22	2010	Postive
TCONS_00047722	9.55594	22.0874	-1.208753903	0.00065227	gga-miR-10a-5p	2368.36	2753.91	-0.208026576	6.49E-07	-22.6	2097	Postive
TCONS_00047731	15.7687	33.5939	-1.091135565	0.00065227	gga-miR-24-3p	18037.72	29569.61	-0.703531782	0	-32.2	235	Postive
TCONS_00047731	15.7687	33.5939	-1.091135565	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-29.3	1423	Postive
TCONS_00047731	15.7687	33.5939	-1.091135565	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-22.1	1424	Postive
TCONS_00047731	15.7687	33.5939	-1.091135565	0.00065227	gga-miR-10a-5p	2368.36	2753.91	-0.208026576	6.49E-07	-25.2	17	Postive
TCONS_00047731	15.7687	33.5939	-1.091135565	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-25	1419	Postive
TCONS_00047731	15.7687	33.5939	-1.091135565	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-27.3	1423	Postive
TCONS_00048903	11.7928	31.3091	-1.408675735	0.00065227	gga-miR-128-3p	99089.28	110172.91	-0.143402193	1.43E-113	-25.9	597	Postive
TCONS_00053510	43.6012	12.5854	1.792616771	0.00065227	gga-miR-205a	4900.37	2137.36	1.206627201	2.97E-247	-28.6	717	Postive
TCONS_00053510	43.6012	12.5854	1.792616771	0.00065227	gga-miR-125b-5p	404462.27	285609.43	0.511527957	0	-26.5	2480	Postive
TCONS_00053513	36.5029	14.0367	1.378807284	0.00065227	gga-miR-10a-5p	4289804.8	3459316	0.319991626	0	-24.7	1817	Postive
TCONS_00054104	80.4489	4.79283	4.069123021	0.00065227	gga-miR-125b-5p	404462.27	285609.43	0.511527957	0	-27.6	748	Postive
TCONS_00054544	36.7898	15.8322	1.216444091	0.00065227	gga-miR-148a-3p	1311848.77	1183894.4	0.157627517	0	-22.9	961	Postive
TCONS_00055448	12.7638	3.73711	1.772062973	0.00065227	gga-miR-27b-3p	494682.7	459171.63	0.117036382	0	-28.2	2361	Postive
TCONS_00055448	12.7638	3.73711	1.772062973	0.00065227	gga-miR-101-3p	474140.24	401158.63	0.250707448	0	-22.2	1226	Postive
TCONS_00055766	30.4794	10.7695	1.500883232	0.00065227	gga-miR-142-5p	108462.71	54058.88	1.014162038	0	-22.8	1052	Postive
TCONS_00055769	32.5242	12.6609	1.361133609	0.00065227	gga-miR-148a-3p	1311848.77	1183894.4	0.157627517	0	-28.5	4200	Postive

TCONS_00055773	42.7021	16.171	1.400898124	0.00065227	gga-miR-365-3p	27974.83	26158.05	0.10644081	3.39E-17	-32.1	5277	Postive
TCONS_00055773	42.7021	16.171	1.400898124	0.00065227	gga-miR-218-5p	6523.22	3337.58	0.97634831	1.72E-233	-23.1	3006	Postive
TCONS_00055773	42.7021	16.171	1.400898124	0.00065227	gga-miR-211	4336.69	2762.13	0.66037954	4.14E-80	-35.5	3660	Postive
TCONS_00055773	42.7021	16.171	1.400898124	0.00065227	gga-miR-153-3p	2145.62	1644.13	0.393636657	2.22E-16	-23.6	2689	Postive
TCONS_00055773	42.7021	16.171	1.400898124	0.00065227	gga-miR-144-3p	3209.33	1972.95	0.711484191	8.31E-68	-23.2	11143	Postive
TCONS_00055774	25.8374	12.5061	1.046828942	0.00065227	gga-miR-22-3p	6060606.31	5856904.5	0.058890194	0	-29.1	4058	Postive
TCONS_00056652	26.1065	10.7377	1.281724051	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-22.3	964	Postive
TCONS_00056652	26.1065	10.7377	1.281724051	0.00065227	gga-miR-22-3p	6060606.31	5856904.5	0.058890194	0	-26.7	181	Postive
TCONS_00056652	26.1065	10.7377	1.281724051	0.00065227	gga-miR-205a	4900.37	2137.36	1.206627201	2.97E-247	-29	1113	Postive
TCONS_00057772	21326.7	76934.5	-1.850969949	0.00065227	gga-miR-24-3p	18037.72	29569.61	-0.703531782	0	-26.5	267	Postive
TCONS_00058565	32.8076	10.4135	1.655575016	0.00065227	gga-miR-22-3p	6060606.31	5856904.5	0.058890194	0	-25.8	713	Postive
TCONS_00059257	26.1176	10.0275	1.381060365	0.00065227	gga-miR-489-3p	6582.31	3822.59	0.793609947	3.09E-166	-31	3826	Postive
TCONS_00059257	26.1176	10.0275	1.381060365	0.00065227	gga-miR-218-5p	6523.22	3337.58	0.97634831	1.72E-233	-25.8	3186	Postive
TCONS_00059418	39.5438	13.6139	1.538371097	0.00065227	gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	-22.6	69	Postive
TCONS_00059418	39.5438	13.6139	1.538371097	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-22.7	69	Postive
TCONS_00059983	25.6665	0	5	0.00065227	gga-let-7j-5p	1933522.85	1763522.9	0.142337939	0	-23.1	322	Postive
TCONS_00059983	25.6665	0	5	0.00065227	gga-let-7g-5p	161712.18	156890.77	0.053234308	7.39E-25	-24.7	325	Postive
TCONS_00059983	25.6665	0	5	0.00065227	gga-let-7f-5p	1810554.5	1701629.8	0.099080869	0	-22.3	336	Postive
TCONS_00059983	25.6665	0	5	0.00065227	gga-let-7c-5p	1103087.6	913460.21	0.281700016	0	-23.4	329	Postive
TCONS_00059983	25.6665	0	5	0.00065227	gga-let-7b-5p	372600.78	329030.81	0.188974455	0	-23.4	329	Postive
TCONS_00061933	37.5793	16.1068	1.222268297	0.00065227	gga-miR-221-3p	50108.32	48024.93	0.070833101	4.73E-14	-31.8	7513	Postive
TCONS_00062863	57.3983	10.6343	2.432282937	0.00065227	gga-miR-27b-3p	494682.7	459171.63	0.117036382	0	-23.6	115	Postive
TCONS_00063889	24.0259	10.6354	1.17571618	0.00065227	gga-miR-22-3p	6060606.31	5856904.5	0.058890194	0	-27.6	2983	Postive
TCONS_00063889	24.0259	10.6354	1.17571618	0.00065227	gga-miR-221-3p	50108.32	48024.93	0.070833101	4.73E-14	-29.5	1876	Postive
TCONS_00064325	92.1425	36.3473	1.342018542	0.00065227	gga-miR-9-5p	1495.57	1035.8	0.539516416	3.95E-20	-23.2	586	Postive
TCONS_00064325	92.1425	36.3473	1.342018542	0.00065227	gga-miR-218-5p	6523.22	3337.58	0.97634831	1.72E-233	-23.3	1326	Postive
TCONS_00064325	92.1425	36.3473	1.342018542	0.00065227	gga-miR-205a	4900.37	2137.36	1.206627201	2.97E-247	-30.2	696	Postive
TCONS_00064342	0	52.8614	-5	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-23.7	228	Postive
TCONS_00064342	0	52.8614	-5	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-24.8	231	Postive
TCONS_00066080	24.7522	9.75945	1.342685008	0.00065227	gga-miR-142-3p	108462.71	54058.88	1.014162038	0	-22.4	1021	Postive
TCONS_00066855	39.5926	17.6038	1.169343924	0.00065227	gga-miR-205a	4900.37	2137.36	1.206627201	2.97E-247	-25.8	939	Postive
TCONS_00066855	39.5926	17.6038	1.169343924	0.00065227	gga-miR-125b-5p	404462.27	285609.43	0.511527957	0	-25.9	1514	Postive
TCONS_00067025	217.549	100.556	1.113341218	0.00065227	gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	-28.2	2635	Postive
TCONS_00067025	217.549	100.556	1.113341218	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-28.6	2634	Postive
TCONS_00067025	217.549	100.556	1.113341218	0.00065227	gga-miR-155	5204.94	1759.22	1.574512065	0	-23.1	1627	Postive
TCONS_00071234	10.5643	23.6336	-1.161642229	0.00065227	gga-miR-19b-3p	61345.53	77980.92	-0.336596508	0	-23.1	3542	Postive
TCONS_00071234	10.5643	23.6336	-1.161642229	0.00065227	gga-miR-10a-5p	2368.36	2753.91	-0.208026576	6.49E-07	-24.9	4602	Postive
TCONS_00071234	10.5643	23.6336	-1.161642229	0.00065227	gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	-23.6	3542	Postive
TCONS_00071898	29.5629	14.6796	1.009975142	0.00065227	gga-miR-148a-3p	1311848.77	1183894.4	0.157627517	0	-25.8	1462	Postive
TCONS_00071899	31.5742	15.2997	1.045242816	0.00065227	gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	-21	411	Postive
TCONS_00071902	27.5107	12.8805	1.094804251	0.00065227	gga-miR-22-3p	6060606.31	5856904.5	0.058890194	0	-25.3	231	Postive
TCONS_00073069	9.65156	22.1572	-1.198941528	0.00065227	gga-miR-222a	31511.46	36959.96	-0.220520153	5.73E-88	-29	2692	Postive
TCONS_00073069	9.65156	22.1572	-1.198941528	0.00065227	gga-miR-206	26129.24	36261.21	-0.463195462	0	-28.6	4751	Postive
TCONS_00073069	9.65156	22.1572	-1.198941528	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-24.5	1206	Postive
TCONS_00073069	9.65156	22.1572	-1.198941528	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-26.3	1206	Postive
TCONS_00073069	9.65156	22.1572	-1.198941528	0.00065227	gga-miR-133c-3p	15232674.15	15445951	-0.010493064	1.69E-105	-30.9	2121	Postive
TCONS_00073069	9.65156	22.1572	-1.198941528	0.00065227	gga-miR-133a-3p	16177058.89	16418962	-0.011847135	4.63E-144	-30.2	2121	Postive
TCONS_00073874	27.755	12.5188	1.148651415	0.00065227	gga-miR-125b-5p	404462.27	285609.43	0.511527957	0	-29.9	1268	Postive
TCONS_00074529	52.536	7.84763	2.742977432	0.00065227	gga-miR-22-3p	6060606.31	5856904.5	0.058890194	0	-27.1	1432	Postive
TCONS_00074758	46.6367	18.9838	1.296696901	0.00065227	gga-miR-218-5p	6523.22	3337.58	0.97634831	1.72E-233	-21.6	945	Postive
TCONS_00075810	0	30.3253	-5	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-22.6	373	Postive
TCONS_00076040	46.4583	135.168	-1.540745376	0.00065227	gga-miR-190a-5p	4073.03	4858.39	-0.244809421	4.22E-15	-23	5655	Postive
TCONS_00076040	46.4583	135.168	-1.540745376	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-24.6	6347	Postive
TCONS_00076040	46.4583	135.168	-1.540745376	0.00065227	gga-miR-107-3p	57663.43	59591.36	-0.037880075	1.61E-05	-30.7	6345	Postive

TCONS_00076466	20.2034	7.77185	1.378268141	0.00065227	gga-miR-27b-3p	494682.7	459171.63	0.117036382	0	-28.3	1945	Postive
TCONS_00076466	20.2034	7.77185	1.378268141	0.00065227	gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	-23.4	778	Postive
TCONS_00077197	14.1637	35.1917	-1.313037016	0.00065227	gga-miR-215-5p	14382.9	20757.1	-0.519683861	6.37E-245	-22	4067	Postive
TCONS_00077197	14.1637	35.1917	-1.313037016	0.00065227	gga-miR-20b-5p	6200.47	7875.37	-0.335403686	2.62E-42	-27.3	5129	Postive
TCONS_00077197	14.1637	35.1917	-1.313037016	0.00065227	gga-miR-20a-5p	17755.88	20913.29	-0.226556733	6.19E-53	-26.6	5129	Postive
TCONS_00077197	14.1637	35.1917	-1.313037016	0.00065227	gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	-23	5355	Postive
TCONS_00077197	14.1637	35.1917	-1.313037016	0.00065227	gga-miR-183-5p	1050.08	1257.76	-0.250790974	6.63E-05	-24.9	4730	Postive
TCONS_00077197	14.1637	35.1917	-1.313037016	0.00065227	gga-miR-17-5p	23906.35	28303.64	-0.234027283	1.05E-75	-28.8	5122	Postive
TCONS_00077197	14.1637	35.1917	-1.313037016	0.00065227	gga-miR-140-5p	3682.1	4258.29	-0.200178953	1.83E-09	-26.9	145	Postive
TCONS_00077197	14.1637	35.1917	-1.313037016	0.00065227	gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	-23.9	3487	Postive
TCONS_00077197	14.1637	35.1917	-1.313037016	0.00065227	gga-miR-106-5p	15701.18	19647.31	-0.313892371	1.17E-91	-25.1	5129	Postive
TCONS_00077869	21.6685	8.7445	1.309151486	0.00065227	gga-miR-205a	4900.37	2137.36	1.206627201	2.97E-247	-27.4	2013	Postive
TCONS_00077869	21.6685	8.7445	1.309151486	0.00065227	gga-miR-142-3p	108462.71	54058.88	1.014162038	0	-21.5	3611	Postive
TCONS_00081794	40.7184	20.1848	1.012411581	0.00065227	gga-miR-153-3p	2145.62	1644.13	0.393636657	2.22E-16	-23.7	2272	Postive
TCONS_00081794	40.7184	20.1848	1.012411581	0.00065227	gga-miR-125b-5p	404462.27	285609.43	0.511527957	0	-27.7	2820	Postive
TCONS_00082792	13.5483	31.2816	-1.207202468	0.00065227	gga-miR-16c-5p	11005.37	13366.75	-0.270874638	9.68E-48	-25	2132	Postive
TCONS_00082792	13.5483	31.2816	-1.207202468	0.00065227	gga-miR-107-3p	57663.43	59591.36	-0.037880075	1.61E-05	-30	2140	Postive
TCONS_00082794	18.2293	37.1506	-1.027126348	0.00065227	gga-miR-193a-3p	27315.69	30161.5	-0.13341187	6.28E-28	-27	1825	Postive
TCONS_00083497	29.5313	14.2964	1.046592962	0.00065227	gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	-23.9	858	Postive
TCONS_00083497	29.5313	14.2964	1.046592962	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-24.4	857	Postive
TCONS_00084705	20.8728	3.04411	2.777531748	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-23.6	3632	Postive
TCONS_00084705	20.8728	3.04411	2.777531748	0.00065227	gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	-23.3	3197	Postive
TCONS_00084896	53.6619	17.9478	1.580091124	0.00065227	gga-let-7j-5p	1933522.85	1763522.9	0.142337939	0	-24.7	962	Postive
TCONS_00084896	53.6619	17.9478	1.580091124	0.00065227	gga-let-7g-5p	161712.18	156890.77	0.053234308	7.39E-25	-24.3	962	Postive
TCONS_00084896	53.6619	17.9478	1.580091124	0.00065227	gga-let-7f-5p	1810554.5	1701629.8	0.099080869	0	-24.3	986	Postive
TCONS_00084896	53.6619	17.9478	1.580091124	0.00065227	gga-let-7c-5p	1103087.6	913460.21	0.281700016	0	-27.8	973	Postive
TCONS_00085527	26.8778	13.0151	1.046228659	0.00065227	gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	-24.1	1949	Postive
TCONS_00085527	26.8778	13.0151	1.046228659	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-24.2	1949	Postive
TCONS_00085527	26.8778	13.0151	1.046228659	0.00065227	gga-miR-22-3p	6060606.31	5856904.5	0.058890194	0	-31.5	448	Postive
TCONS_00086268	224.515	100.473	1.160003976	0.00065227	gga-miR-148a-3p	1311848.77	1183894.4	0.157627517	0	-21.3	152	Postive
TCONS_00086268	224.515	100.473	1.160003976	0.00065227	gga-let-7j-5p	1933522.85	1763522.9	0.142337939	0	-22.5	447	Postive
TCONS_00086268	224.515	100.473	1.160003976	0.00065227	gga-let-7b-5p	372600.78	329030.81	0.188974455	0	-27.1	449	Postive
TCONS_00086271	232.726	86.0222	1.435851463	0.00065227	gga-miR-221-3p	50108.32	48024.93	0.070833101	4.73E-14	-26.3	164	Postive
TCONS_00086277	40.2472	11.7619	1.774767289	0.00065227	gga-miR-211	4336.69	2762.13	0.66037954	4.14E-80	-26.9	1861	Postive
TCONS_00086277	40.2472	11.7619	1.774767289	0.00065227	gga-miR-204	4336.69	2762.13	0.66037954	4.14E-80	-26.9	1861	Postive
TCONS_00087905	20.3211	9.22293	1.139681445	0.00065227	gga-miR-365-3p	27974.83	26158.05	0.10644081	3.39E-17	-20.2	2920	Postive
TCONS_00088383	61.9947	28.4105	1.125720661	0.00065227	gga-let-7j-5p	1933522.85	1763522.9	0.142337939	0	-26.8	10069	Postive
TCONS_00088383	61.9947	28.4105	1.125720661	0.00065227	gga-let-7c-5p	1103087.6	913460.21	0.281700016	0	-29.1	10063	Postive
TCONS_00088383	61.9947	28.4105	1.125720661	0.00065227	gga-let-7b-5p	372600.78	329030.81	0.188974455	0	-31.3	10063	Postive
TCONS_00088383	61.9947	28.4105	1.125720661	0.00065227	gga-miR-22-3p	6060606.31	5856904.5	0.058890194	0	-31.7	9128	Postive
TCONS_00088564	28.7617	12.8745	1.159632547	0.00065227	gga-miR-125b-5p	404462.27	285609.43	0.511527957	0	-26.5	877	Postive
TCONS_00090984	61.7675	6.0976	3.340534521	0.00065227	gga-miR-9-5p	1495.57	1035.8	0.539516416	3.95E-20	-24.9	1438	Postive
TCONS_00090984	61.7675	6.0976	3.340534521	0.00065227	gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	-24.9	347	Postive
TCONS_00090984	61.7675	6.0976	3.340534521	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-24.9	347	Postive
TCONS_00090985	43.3977	6.59905	2.71728833	0.00065227	gga-miR-125b-5p	404462.27	285609.43	0.511527957	0	-31.7	556	Postive
TCONS_00091413	5.98185	13.4878	-1.17299141	0.00065227	gga-miR-183-5p	1050.08	1257.76	-0.250790974	6.63E-05	-27.7	4066	Postive
TCONS_00091420	3.54081	17.8504	-2.333805067	0.00065227	gga-miR-20a-5p	17755.88	20913.29	-0.226556733	6.19E-53	-24.3	203	Postive
TCONS_00091420	3.54081	17.8504	-2.333805067	0.00065227	gga-miR-106-5p	15701.18	19647.31	-0.313892371	1.17E-91	-25.4	203	Postive
TCONS_00091422	9.70363	25.2372	-1.378955409	0.00065227	gga-miR-24-3p	18037.72	29569.61	-0.703531782	0	-27.7	649	Postive
TCONS_00091422	9.70363	25.2372	-1.378955409	0.00065227	gga-miR-130c-3p	95061.7	101023.35	-0.078186239	1.45E-32	-25	2906	Postive
TCONS_00091453	51.3785	10.6376	2.271992077	0.00065227	gga-miR-22-3p	6060606.31	5856904.5	0.058890194	0	-24.9	1404	Postive
TCONS_00092559	10.2362	44.4051	-2.117045141	0.00065227	gga-miR-34a-5p	3063.87	4134.98	-0.422958824	1.67E-34	-26.2	2595	Postive
TCONS_00092559	10.2362	44.4051	-2.117045141	0.00065227	gga-miR-183-5p	1050.08	1257.76	-0.250790974	6.63E-05	-25.4	385	Postive
TCONS_00092559	10.2362	44.4051	-2.117045141	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-25.7	1893	Postive

TCONS_00092802	0	101.693	-5	0.00065227	gga-miR-455-5p	2386.54	2712.81	-0.175301048	3.23E-05	-25.8	249	Postive
TCONS_00093337	314.978	102.785	1.615621326	0.00065227	gga-miR-148a-3p	1311848.77	1183894.4	0.157627517	0	-28.8	457	Postive
TCONS_00098001	10.2772	27.9447	-1.443127428	0.00065227	gga-miR-16-5p	56158.77	85642.55	-0.599249972	0	-23.8	1760	Postive
TCONS_00098001	10.2772	27.9447	-1.443127428	0.00065227	gga-miR-15b-5p	52240.3	54724.75	-0.057463834	2.08E-10	-26.6	1755	Postive
TCONS_00098001	10.2772	27.9447	-1.443127428	0.00065227	gga-miR-15a	66127.71	71018.04	-0.09336416	1.80E-32	-24.1	1755	Postive
TCONS_00098001	10.2772	27.9447	-1.443127428	0.00065227	gga-miR-15c-5p	78633.19	83587.39	-0.078580488	2.09E-27	-24.8	1755	Postive
TCONS_00098189	41.3761	17.2955	1.258400945	0.00065227	gga-miR-22-3p	6060606.31	5856904.5	0.058890194	0	-26.2	5555	Postive
TCONS_00098189	41.3761	17.2955	1.258400945	0.00065227	gga-miR-199-5p	157089.1	112030.78	0.497254361	0	-26.2	4911	Postive
TCONS_00098190	63.9259	21.6184	1.564140815	0.00065227	gga-miR-489-3p	6582.31	3822.59	0.793609947	3.09E-166	-26.1	80	Postive
TCONS_00098190	63.9259	21.6184	1.564140815	0.00065227	gga-miR-22-3p	6060606.31	5856904.5	0.058890194	0	-25.4	2893	Postive
TCONS_00098190	63.9259	21.6184	1.564140815	0.00065227	gga-miR-101-3p	474140.24	401158.63	0.250707448	0	-23.5	1712	Postive
TCONS_00098715	21.3889	6.10353	1.809146511	0.00065227	gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	-21.8	1628	Postive
TCONS_00098715	21.3889	6.10353	1.809146511	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-22.4	2357	Postive
TCONS_00099988	48.8302	22.2197	1.135934349	0.00065227	gga-miR-489-3p	6582.31	3822.59	0.793609947	3.09E-166	-33.9	553	Postive
TCONS_00099995	18.9931	8.20594	1.210734887	0.00065227	gga-miR-22-3p	6060606.31	5856904.5	0.058890194	0	-27.3	5152	Postive
TCONS_00099995	18.9931	8.20594	1.210734887	0.00065227	gga-miR-101-3p	474140.24	401158.63	0.250707448	0	-24.9	418	Postive
TCONS_00100715	8.14788	16.8193	-1.045621026	0.00065227	gga-miR-499-5p	3477.53	4200.74	-0.263014091	5.47E-15	-22.1	2012	Postive
TCONS_00100715	8.14788	16.8193	-1.045621026	0.00065227	gga-miR-26a-5p	5512392.3	5684205.5	-0.034713704	0	-24.8	1911	Postive
TCONS_00100717	7.29788	19.4095	-1.41121362	0.00065227	gga-miR-19a-3p	59718.13	75391.42	-0.326664913	0	-21.2	1505	Postive
TCONS_00100717	7.29788	19.4095	-1.41121362	0.00065227	gga-miR-128-3p	99089.28	110172.91	-0.143402193	1.43E-113	-24.6	962	Postive
TCONS_00100717	7.29788	19.4095	-1.41121362	0.00065227	gga-miR-30a-3p	5516178.95	6501640.5	-0.227568083	0	-26.6	1902	Postive
TCONS_00101056	21.843	8.7259	1.32379517	0.00065227	gga-miR-181a-5p	2087579.9	1996273.7	0.074088345	0	-24.4	2838	Postive
TCONS_00102021	106.051	49.9454	1.086334509	0.00065227	gga-miR-489-3p	6582.31	3822.59	0.793609947	3.09E-166	-28.8	3214	Postive
TCONS_00102021	106.051	49.9454	1.086334509	0.00065227	gga-let-7j-5p	1933522.85	1763522.9	0.142337939	0	-27	1244	Postive
TCONS_00102021	106.051	49.9454	1.086334509	0.00065227	gga-let-7f-5p	1810554.5	1701629.8	0.099080869	0	-23.6	1255	Postive
TCONS_00102021	106.051	49.9454	1.086334509	0.00065227	gga-let-7c-5p	1103087.6	913460.21	0.281700016	0	-26.7	1244	Postive
TCONS_00102021	106.051	49.9454	1.086334509	0.00065227	gga-miR-218-5p	6523.22	3337.58	0.97634831	1.72E-233	-21.9	3553	Postive
TCONS_00102021	106.051	49.9454	1.086334509	0.00065227	gga-let-7b-5p	372600.78	329030.81	0.188974455	0	-26.8	1244	Postive
TCONS_00102729	21.1136	7.43025	1.50668993	0.00065227	gga-miR-205a	4900.37	2137.36	1.206627201	2.97E-247	-25.6	2063	Postive
TCONS_00102850	22.8321	9.77165	1.224389463	0.00065227	gga-let-7j-5p	1933522.85	1763522.9	0.142337939	0	-23	2346	Postive
TCONS_00102850	22.8321	9.77165	1.224389463	0.00065227	gga-let-7g-5p	161712.18	156890.77	0.053234308	7.39E-25	-22.7	2347	Postive
TCONS_00102850	22.8321	9.77165	1.224389463	0.00065227	gga-let-7f-5p	1810554.5	1701629.8	0.099080869	0	-22.4	2346	Postive
TCONS_00104873	72.252	27.7886	1.37854437	0.00065227	gga-miR-22-3p	6060606.31	5856904.5	0.058890194	0	-25.6	1886	Postive
TCONS_00105002	34.5337	13.1577	1.392097591	0.00065227	gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	-21.2	2957	Postive
TCONS_00105002	34.5337	13.1577	1.392097591	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-21.3	2957	Postive
TCONS_00105769	527.599	85.8592	2.619397195	0.00065227	gga-miR-199-5p	157089.1	112030.78	0.497254361	0	-20.9	360	Postive
TCONS_00106010	53.3725	22.0086	1.278029213	0.00065227	gga-miR-205a	4900.37	2137.36	1.206627201	2.97E-247	-26.3	49	Postive
TCONS_00106010	53.3725	22.0086	1.278029213	0.00065227	gga-miR-125b-5p	404462.27	285609.43	0.511527957	0	-27.4	1843	Postive
TCONS_00107235	16.1492	7.22613	1.160167584	0.00065227	gga-miR-218-5p	6523.22	3337.58	0.97634831	1.72E-233	-25.3	2514	Postive
TCONS_00107235	16.1492	7.22613	1.160167584	0.00065227	gga-miR-155	5204.94	1759.22	1.574512065	0	-24.1	3097	Postive
TCONS_00107444	24.4142	6.54715	1.898781567	0.00065227	gga-miR-29c-3p	11632.69	9782.55	0.25946871	9.25E-39	-20.8	1235	Postive
TCONS_00107444	24.4142	6.54715	1.898781567	0.00065227	gga-miR-29a-3p	11632.69	9782.55	0.25946871	9.25E-39	-20.9	1235	Postive
TCONS_00107450	113.261	23.0323	2.297920782	0.00065227	gga-miR-125b-5p	404462.27	285609.43	0.511527957	0	-28.8	485	Postive
TCONS_00108098	33.6891	11.8126	1.511955345	0.00065227	gga-miR-22-3p	6060606.31	5856904.5	0.058890194	0	-29.6	1743	Postive
TCONS_00108098	33.6891	11.8126	1.511955345	0.00065227	gga-miR-218-5p	6523.22	3337.58	0.97634831	1.72E-233	-20.8	2947	Postive
TCONS_00112672	126.588	50.5031	1.325696798	0.00065227	gga-miR-489-3p	6582.31	3822.59	0.793609947	3.09E-166	-23	263	Postive
TCONS_00112894	24.0587	0	5	0.00065227	gga-miR-155	5204.94	1759.22	1.574512065	0	-21.3	94	Postive

<sup>a</sup>The correlation expression patterns between miRNAs and their target lncRNAs.

**Table S6. Summary of the represented networks generated by IPA analysis.**

Network	Molecules in networks <sup>a</sup>	Score	Focus genes	Top functions
1	<i>C4orf32, DCAKD, DESI2, ELAVL1, <b>FAM13B</b>, <b>FAM78A</b>, FOPNL, GDPGP1, <b>HNRNPA3</b>, <b>HNRNPH3</b>, <b>IRF2BP2</b>, <b>KDELC2</b>, KIAA2013, LRRC37B, <b>MEX3D</b>, OR6T1, <b>OTUD1</b>, <b>RBFOX2</b>, <b>RBM24</b>, RNF212, <b>SCYL3</b>, SLC18B1, <b>SLC25A25</b>, SLC41A1, <b>SMCR8</b>, <b>SUMO1</b>, <b>SYDE2</b>, <b>TMCC1</b>, UBC, <b>VAPB</b>, VSIG10, ZFAND1, ZNF362, ZNF529, ZSWIM1</i>	32	16	Post-Translational Modification, Hereditary Disorder, Neurological Disease
2	<i>26s Proteasome, <b>AFAP1</b>, <b>APP</b>, <b>ATRX</b>, Calmodulin, caspase, Ck2, <b>CKAP4</b>, <b>EIF4E3</b>, <b>FAM133B</b>, <b>FZD8</b>, <b>GNB1</b>, GNRH, <b>GOLGA4</b>, GPR61, GPR78, Histone h3, Hsp90, <b>HSPA8</b>, Insulin, LRRTM3, Mapk, Mmp, NECAB1, NMDA Receptor, Pka, Pkc(s), <b>PURA</b>, <b>RAB40B</b>, <b>SRSF2</b>, <b>SSBP3</b>, TAAR5, <b>TPPP</b>, <b>VASH2</b>, Vegf</i>	30	16	Cell Cycle, Cancer, Hematological Disease
3	<i>ADCY, <b>ADCY9</b>, <b>ADM</b>, ADRB, Akt, AMPK, <b>BHLHE40</b>, Calcineurin A, Calcineurin proteins, CaMKII, <b>CCNLI</b>, Cg, Creb, <b>DUSP8</b>, <b>EEF2</b>, <b>FBXO32</b>, <b>FOXO3</b>, FSH, glutathione peroxidase, <b>GMFB</b>, <b>IRS1</b>, <b>KLF10</b>, Lh, <b>LINGO1</b>, MAP2K1/2, Mlc, <b>MNI</b>, PDGF BB, <b>PGP</b>, PP2A, PRKAA, Proinsulin, PTPase, <b>SEM7A</b>, <b>SESNI</b></i>	29	16	Cellular Compromise, Organismal Injury and Abnormalities, <b>Skeletal and Muscular Disorders</b>
4	<i>14-3-3, <b>CDKN1B</b>, ERK1/2, Foxo, <b>FOXO1</b>, HDL-cholesterol, <b>INSIG1</b>, <b>IRS2</b>, <b>ITGA6</b>, JINK1/2, LRP, Mek, <b>NCOA1</b>, Pdgf (complex), PEPCK, PI3K (family), <b>PMEPA1</b>, <b>PNRC1</b>, <b>PNRC2</b>, Raf, Rap1, <b>RAP1B</b>, Rar, <b>ROCK1</b>, Rxr, <b>RXRA</b>, Secretase gamma, Smad, Sos, <b>TGIF1</b>, thymidine kinase, thyroid hormone receptor, <b>TRIB1</b>, TSH, VitaminD3-VDR-RXR</i>	26	14	Lipid Metabolism, Molecular Transport, Small Molecule Biochemistry

<sup>a</sup>. MiRNA-mRNA interaction network genes are in boldface.

## Table S7

The full length sequences of *lncIRS1* and *IRS1*. Coordinates are listed according to the Gallus\_gallus-5.0 reference Annotation Release 103. 5'RACE sequence was highlighted with blue, while 3' RACE sequence with yellow.

### (1) The full length sequence of *lncIRS1*

Gallus\_gallus-5.0 (chr5: 8,080,605-8,085,228)

```
ATGGTGAGGAAAACAGAGAGAAGAGTTGGCAGGAGCCACTGCGGGCAAAGTGAAGGACAGGAAAACGT
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GGAACATCAGATGAGAAAATTTGAGAACTGCTGTTTCATCCCTGGTAGCTACCAAGGAGAAAAGTGAAGATC
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```



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TTTTCTAAACAGAGCTGATGAGCAGGATGGACAGGTATTTCTCAAGCGGAAGTGCCATCTACAGGGTAGA  
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## (2) The full length sequence of *IRS1*

Gallus\_gallus-5.0 (chr9: 9,200,378-9,249,527)

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GAGCGGGAGCAGCAGCAGCAGCCGCGGCGCTGAGCCTGGGGGGCGGCTGTGCCGTG  
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TTTTGTACTCCTTGTAATAATAATCTGTATTA ACTACAATGAAGACAACTTTTCTGT  
ACATGGTATTTACAAGTGTCAACTTGAATTCATCAATTGCACAGAACTGAAAAAAAA  
AAAAAAAAAAAAAAAA

**Table S8. Primers**

<b>Target</b>	<b>Primer</b>	<b>Sequence (5'-3')</b>	<b>Application</b>
<i>IRS1</i>	Forward	CCCAAGCTTGCCACCATGGCCAGCCCCACAGATAACAACG	Clone of the CDs of <i>IRS1</i>
	Reverse	CGGGGTACCCTAGGGCTCCTCCCGCTTCTGGAAG	
<i>LncIRS1</i>	Forward	CGCGGATCCATGGTGAGGAAAACAGAGAGAAGAG	Clone of the full length of <i>LncIRS1</i>
	Reverse	CCGCTCGAGTTTTTTTTTTTTTGCCTCATTTTG	
<i>IRS1</i> -3'UTR	Forward	CCGCTCGAGTGGGTACGATGCATCCAGTT	Clone of the 3'UTR of <i>IRS1</i>
	Reverse	CTAGTCTAGACCGGGACCAATGACTTGTA	
Site 1 of <i>LncIRS1</i>	Forward	CCGCTCGAGTCTACTGAGACACTCTGTGCCTAT	Clone miR-15 family binding site 1 of <i>LncIRS1</i>
	Reverse	CTAGTCTAGAATGCCTGAGCCTCCATCC	
Site 2 of <i>LncIRS1</i>	Forward	CCGCTCGAGACAAATGGCATCATAACAC	Clone miR-15 family binding site 2 of <i>LncIRS1</i>
	Reverse	CTAGTCTAGAGGTCTGTCTACTCCCCTAA	
Site 3 of <i>LncIRS1</i>	Forward	CCGCTCGAGTCTGCTATCAATTCCTGT	Clone miR-15 family binding site 3 of <i>LncIRS1</i>
	Reverse	CTAGTCTAGAAAGAACTGCCACCATTA	
<i>LncIRS1</i> -ORF1	Forward	GGGGGTCTCTAGTGATGGTGAGGAAAACAGAGAGAA	Clone the potential ORF 1 of <i>LncIRS1</i>
	Reverse	GCCGGGTCTCGTGGGTCATCTGGCCTCCCAACCACA	
<i>LncIRS1</i> -ORF2	Forward	GGGGGTCTCTAGTGATGAAACCTTCTCCTCAAAAAC	Clone the potential ORF 2 of <i>LncIRS1</i>
	Reverse	GCCGGGTCTCGTGGGTCATCTATCAACACAGTCTCCA	
<i>LncIRS1</i> -ORF3	Forward	GGGGGTCTCTAGTGATGTACAACGTATTAAGTGCAT	Clone the potential ORF 3 of <i>LncIRS1</i>
	Reverse	GCCGGGTCTCGTGGGTTAAGTTGCAGTAGGATCTTCA	
<i>LncIRS1</i> -ORF4	Forward	GGGGGTCTCTAGTGATGGAATTCAAAACAGCTCCTA	Clone the potential ORF 4 of <i>LncIRS1</i>
	Reverse	GCCGGGTCTCGTGGGTTATGTATCTAAAATATTAAC	
<i>LncIRS1</i> -ORF5	Forward	GGGGGTCTCTAGTGATGCACACTGCTGCTGCAAGTC	Clone the potential ORF 5 of <i>LncIRS1</i>
	Reverse	GCCGGGTCTCGTGGGCTATCTGGGTGAATCCAAATTA	
<i>LncIRS1</i> -ORF6	Forward	GGGGGTCTCTAGTGATGACAAGGGAGATTCTGGTTA	Clone the potential ORF 6 of <i>LncIRS1</i>
	Reverse	GCCGGGTCTCGTGGGCTAGTGAGTTGTGTACGATACT	
<i>LncIRS1</i> -ORF7	Forward	GGGGGTCTCTAGTGATGAGTCATTTGCAATTAAC	Clone the potential ORF 7 of <i>LncIRS1</i>
	Reverse	GCCGGGTCTCGTGGGCTACCCTGTAGATGGCACTTCC	
Q-IRS1	Forward	CTACCGCCTGTGCCTGACTAAC	qPCR
	Reverse	CGTCCCACCTCGATGAAGAAG	

Q- LncIRS1	Forward	CTACTGAGACACTCTGTGCCTAT	qPCR
	Reverse	ATTCCAGATGTGGCAGGT	
Q- $\beta$ -actin	Forward	GATATTGCTGCGCTCGTTG	qPCR
	Reverse	TTCAGGGTCAGGATACCTCTTT	
<i>MyoG</i>	Forward	CGGAGGCTGAAGAAGGTGAA	qPCR
	Reverse	CGGTCCTCTGCCTGGTCAT	
<i>MyHC</i>	Forward	CTCCTCACGCTTTGGTAA	qPCR
	Reverse	TGATAGTCGTATGGGTTGGT	
<i>MyOD</i>	Forward	GCTACTACACGGAATCACCAAAT	qPCR
	Reverse	CTGGGCTCCACTGTCACTCA	
<i>Myomaker</i>	Forward	TGGGTGTCCCTGATGGC	qPCR
	Reverse	CCCGATGGGTCCTGAGTAG	
<i>IGF1</i>	Forward	AGCTGGTTGATGCTCTTCAGTTCGT	qPCR
	Reverse	TCCTCAGGTCACAACCTCTGGAAGC	
<i>IGF1R</i>	Forward	TTCAGGAACCAAAGGGCGA	qPCR
	Reverse	TGTAATCTGGAGGGCGATACC	
<i>IGF2R</i>	Forward	CGTGGGAAGCAATTGATACAGA	qPCR
	Reverse	GCCTTGCTGGGAACATTTACTT	
<i>Atrogin-1</i>	Forward	TCAACGGGTCGGCAAGTCT	qPCR
	Reverse	TCCCTCCCATCGCTCAGTC	
<i>MuRF1</i>	Forward	GGCAGCAGCATCATCTCGG	qPCR
	Reverse	CCTCGCAGGTGACGCAGTAG	
<i>LncIRS1</i> 3'RACE	3' outer primer	CTAATACGACTCACTATAGGGCAAGCAGTG GTATCAACGCAGAGT	<i>LncIRS1</i> 3'RACE
	3' inner primer	AAGCAGTGGTATCAACGCAGAGT	
	3' lncIRS1 outer primer	AAGTGCTGCTGTGCTGATTAACTGCCAC	
	3' lncIRS1 inner primer	ATGCACACAAGCACACTAGCTTT	
<i>LncIRS1</i> 5'RACE	5' outer primer	CTAATACGACTCACTATAGGGCAAGCAGTG GTATCAACGCAGAGT	<i>LncIRS1</i> 5'RACE
	5' inner primer	AAGCAGTGGTATCAACGCAGAGT	
	5' lncIRS1 outer primer	GTGCAGACGTGAACTGGCACTGTACTGATTT	
	5' lncIRS1	GGACAGACAAATTCTCACATGCACTT	

	inner primer		
<i>IRS1</i> 3'RACE	3' outer primer	CTAATACGACTCACTATAGGGCAAGCAGTG GTATCAACGCAGAGT	<i>IRS1</i> 3'RACE
	3' inner primer	AAGCAGTGGTATCAACGCAGAGT	
	3' IRS1 outer primer	TCTACGCCGCCGAGGACTCGTCCTCC	
	3' IRS1 inner primer	AACGGACTCAACTACATC	
<i>IRS1</i> 5'RACE	5' outer primer	CTAATACGACTCACTATAGGGCAAGCAGTG GTATCAACGCAGAGT	<i>IRS1</i> 5'RACE
	5' inner primer	AAGCAGTGGTATCAACGCAGAGT	
	5' IRS1 outer primer	GGGGGCCCGACTTGTGTCTCCATT	
	5' IRS1 inner primer	GCTCTTGGGTTTGCGCAAGTAAC	