

Figure S1

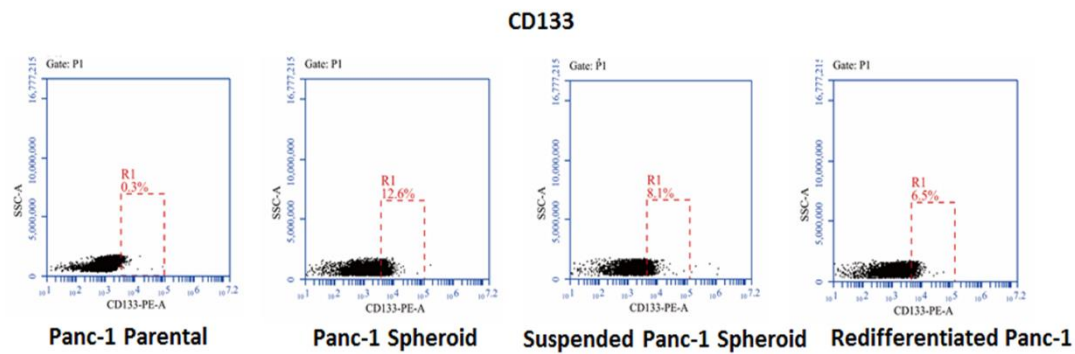


Fig. S1. The percentage of CD133+ population in Panc-1 parental cells, Panc-1 spheroid cells respectively, suspended Panc-1 spheroid cells and redifferentiated Panc-1 spheroid cells. Results were represented as mean $\pm$ SD. *P<0.05; **P<0.01 compared with parental cells.

Figure S2

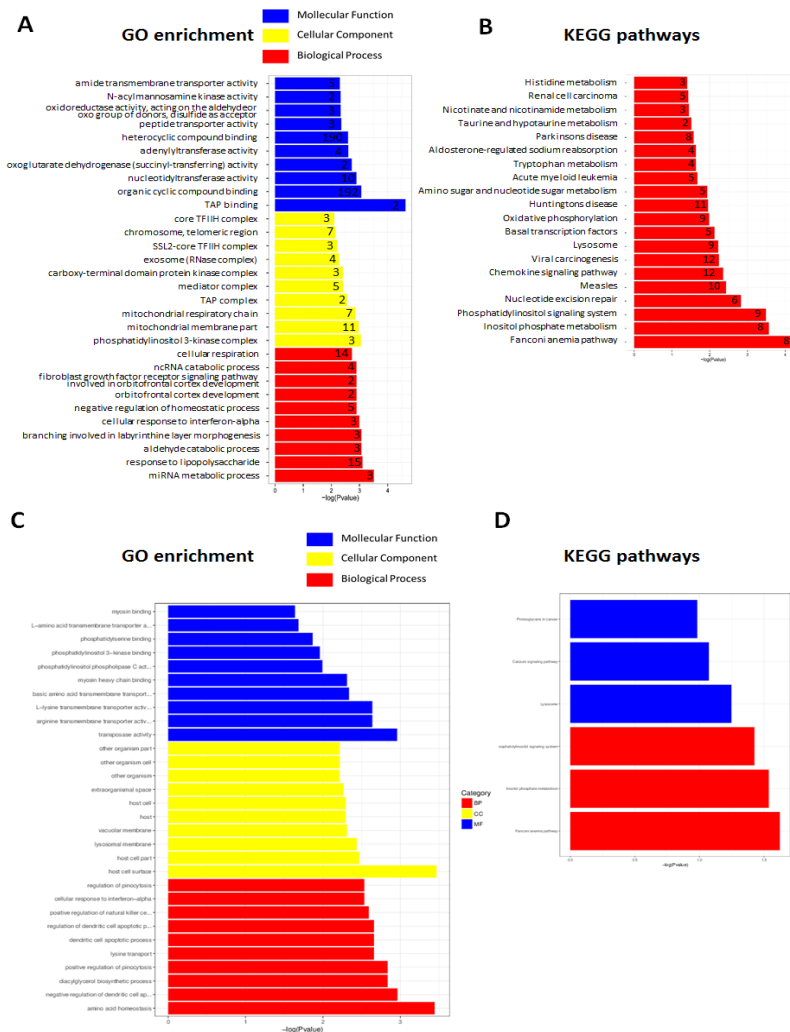


Table.S1 Original HTS data sets for miRNAs

[illegible]

hsa-miR-26a-5p	2915	7569	2831.062	16353.77	2831.062	16353.77	2.529787	0.047334
hsa-miR-26b-5p	101	190	98.09168	410.5188	98.09168	410.5188	2.054122	0.046005
hsa-miR-27a-5p	2739	257	2660.13	555.2807	2660.13	555.2807	-2.25815	0.041088
hsa-miR-27b-5p	27	27	128.199	58.33688	128.199	58.33688	-1.12259	0.043586
hsa-miR-299-3p	283	36	274.8509	77.78251	274.8509	77.78251	1.80794	0.046092
hsa-miR-29a-3p	1754	1633	1703.493	3528.301	1703.493	3528.301	1.05004	0.041065
hsa-miR-29a-5p	27	1	26.22253	2.160625	26.22253	2.160625	-3.10652	0.029865
hsa-miR-29b-3p	2118	314	2057.012	678.4363	2057.012	678.4363	-1.59884	0.044602
hsa-miR-301a-5p	3	17	2.913614	36.73063	2.913614	36.73063	3.269163	0.045343
hsa-miR-301b-3p	5	14	8.856024	23.76688	4.856024	23.76688	2.080419	0.046594
hsa-miR-30a-3p	1043	214	1012.967	462.3738	1012.967	462.3738	-1.12976	0.042844
hsa-miR-30a-5p	535	678	519.5945	1464.904	519.5945	1464.904	1.493558	0.048305
hsa-miR-30b-3p	19	1	18.45289	2.160625	18.45289	2.160625	-2.6217	0.042985
hsa-miR-30b-5p	428	551	415.6756	1190.504	415.6756	1190.504	1.515788	0.047808
hsa-miR-30c-5p	247	297	239.8876	641.7057	239.8876	641.7057	1.415798	0.037724
hsa-miR-30d-5p	458	508	444.8118	1097.598	444.8118	1097.598	1.301156	0.039289
hsa-miR-30e-3p	139	239	134.9875	536.3894	134.9875	536.3894	1.927671	0.048669
hsa-miR-30e-5p	75	108	72.84036	233.3475	72.84036	233.3475	1.666168	0.045274
hsa-miR-31-3p	32	36	31.07855	77.78251	31.07855	77.78251	1.296266	0.035214
hsa-miR-3141	33	164	32.04976	354.3425	32.04976	354.3425	3.426499	0.042207
hsa-miR-3158-3p	202	8	196.1834	17.285	196.1834	17.285	-3.43081	0.045337
hsa-miR-3182	247	2240	239.8876	4839.8	239.8876	4839.8	4.328814	0.031646
hsa-miR-3184-5p	748	66	726.4612	142.6013	726.4612	142.6013	-2.3408	0.039817
hsa-miR-320a	357	94	3467.201	203.0988	3467.201	203.0988	-4.28685	0.026279
hsa-miR-323a-5p	32	2	31.07855	4.32125	31.07855	4.32125	-2.59177	0.039512
hsa-miR-324-3p	21	1	20.3953	2.160625	20.3953	2.160625	-2.75901	0.03129
hsa-miR-324-5p	133	19	129.1702	41.05188	129.1702	41.05188	-1.63016	0.044721
hsa-miR-32-5p	46	247	44.67542	533.6744	44.67542	533.6744	3.949171	0.020848
hsa-miR-328-3p	303	42	294.275	90.74626	294.275	90.74626	-1.68634	0.048865
hsa-miR-330-5p	89	11	86.43722	23.76688	86.43722	23.76688	-1.81984	0.047075
hsa-miR-331-3p	187	11	181.6153	23.76688	181.6153	23.76688	-2.88232	0.039643
hsa-miR-335-3p	13	47	12.62566	101.5494	12.62566	101.5494	2.911921	0.044943
hsa-miR-337-5p	276	42	268.0525	90.74626	268.0525	90.74626	-1.55217	0.03842
hsa-miR-338-5p	3	17	2.913614	36.73063	2.913614	36.73063	3.269163	0.043014
hsa-miR-339-3p	604	53	586.6077	114.5131	586.6077	114.5131	-2.3468	0.039801
hsa-miR-33a-5p	56	5	54.38747	10.80313	54.38747	10.80313	-2.23039	0.045658
hsa-miR-33b-5p	31	1	30.10735	2.160625	30.10735	2.160625	-3.29897	0.034466
hsa-miR-340-5p	92	1413	89.35084	3052.963	89.35084	3052.963	5.079001	0.040317
hsa-miR-345-5p	743	77	721.6051	166.3681	721.6051	166.3681	-2.11018	0.041605
hsa-miR-34c-5p	13	28	12.62566	60.49751	12.62566	60.49751	2.174202	0.048694
hsa-miR-3529-3p	571	778	554.5579	1680.966	554.5579	1680.966	1.59814	0.046123
hsa-miR-361-5p	400	64	388.4819	138.28	388.4819	138.28	-1.48357	0.039491
hsa-miR-3615	52	3	50.50265	6.481876	50.50265	6.481876	-2.78317	0.047011
hsa-miR-3648	48	3	46.61783	6.481876	46.61783	6.481876	-2.67003	0.036147
hsa-miR-3653-3p	21	3	20.3953	6.481876	20.3953	6.481876	-1.51582	0.043972
hsa-miR-365a-3p	53	85	51.47385	183.6531	51.47385	183.6531	1.815147	0.04163
hsa-miR-365a-5p	168	17	163.1624	36.73063	163.1624	36.73063	-2.12132	0.042288
hsa-miR-365b-3p	61	104	59.24349	224.705	59.24349	224.705	1.905561	0.049453
hsa-miR-365b-5p	87	8	49.481	7.285	49.481	7.285	-2.22518	0.044013
hsa-miR-369-3p	162	487	157.3352	1052.224	157.3352	1052.224	2.73359	0.049421
hsa-miR-369-5p	76	157	73.81156	339.2182	73.81156	339.2182	2.185127	0.048939
hsa-miR-370-3p	113223	1906	109962.7	2600.027	109962.7	2600.027	-4.57475	0.032688
hsa-miR-374a-3p	4	152	3.884819	328.415	3.884819	328.415	6.075457	0.021165
hsa-miR-374b-5p	70	244	67.98433	527.1925	67.98433	527.1925	2.936723	0.043379
hsa-miR-376b-3p	229	8	222.4059	17.285	222.4059	17.285	-3.61093	0.046557
hsa-miR-377-3p	3222	101	3129.222	334.2857	3129.222	334.2857	-3.94623	0.033034
hsa-miR-377-5p	166	14	161.22	30.24875	161.22	30.24875	-2.37608	0.040125
hsa-miR-378a-3p	17957	678	17439.92	1545.216	17439.92	1545.216	-4.77605	0.029892
hsa-miR-378a-5p	115	18	111.6885	38.89125	111.6885	38.89125	-1.4982	0.039844
hsa-miR-378c	3921	62	3808.094	133.9588	3808.094	133.9588	-4.81886	0.040496
hsa-miR-378d	691	25	671.1025	52.40938	671.1025	52.40938	-3.53036	0.0442
hsa-miR-378e	83	3	80.60099	6.481876	80.60099	6.481876	-3.44727	0.03707
hsa-miR-378f	21	2	20.3953	4.32125	20.3953	4.32125	-2.00746	0.042617
hsa-miR-379-3p	28	58	27.19373	125.3163	27.19373	125.3163	2.163594	0.048457
hsa-miR-381-3p	34373	5276	33383.22	11399.46	33383.22	11399.46	-1.55007	0.041099
hsa-miR-382-5p	3328	258	3232.169	557.4413	3232.169	557.4413	-2.53347	0.036184
hsa-miR-3934-5p	34	1	33.02096	2.160625	33.02096	2.160625	-3.42814	0.044244
hsa-miR-409-3p	6949	1074	6748.902	2320.511	6748.902	2320.511	1.5398	0.03911
hsa-miR-410-5p	59	3	57.30108	6.481876	57.30108	6.481876	-2.96205	0.042485
hsa-miR-411-3p	37	130	35.93458	280.8813	35.93458	280.8813	2.932044	0.043751
hsa-miR-411-5p	249	1103	241.83	2383.17	241.83	2383.17	4.615468	0.02364
hsa-miR-423-3p	14933	3341	14503	7218.649	14503	7218.649	-1.00645	0.046566
hsa-miR-423-5p	4829	956	4689.948	2065.558	4689.948	2065.558	-1.18265	0.042345
hsa-miR-425-5p	2207	344	2143.449	743.2551	2143.449	743.2551	-1.52674	0.038572
hsa-miR-428a	5	23	7.69638	49.69438	7.69638	49.69438	2.531237	0.046697
hsa-miR-4286	55	5	53.41626	10.80313	53.41626	10.80313	-2.20487	0.046275
hsa-miR-429	3	7	2.913614	15.12438	2.913614	15.12438	2.04267	0.045748
hsa-miR-431-5p	1758	186	1707.378	401.8763	1707.378	401.8763	-2.08422	0.042156
hsa-miR-432-5p	2408	165	2338.661	356.5032	2338.661	356.5032	-2.71027	0.030572
hsa-miR-4443	825	52	801.2439	112.3525	801.2439	112.3525	-2.82322	0.039586
hsa-miR-4454	366	36	355.4609	77.78251	355.4609	77.78251	-2.1778	0.040623
hsa-miR-4484	46	2	44.67542	4.32125	44.67542	4.32125	-3.10158	0.044704
hsa-miR-4497	64	128	62.1571	276.56	62.1571	276.56	2.135783	0.047834
hsa-miR-449a	6	12	5.827229	25.9275	5.827229	25.9275	1.979708	0.044338
hsa-miR-450a-5p	24	94	23.30891	203.0988	23.30891	203.0988	3.06971	0.04675
hsa-miR-4521	59	5	57.30108	10.80313	57.30108	10.80313	-2.30435	0.044696
hsa-miR-485-5p	917	57	890.5948	123.1556	890.5948	123.1556	-2.84424	0.039069
hsa-miR-486-3p	150	1	155.3928	2.160625	155.3928	2.160625	5.62882	0.021257
hsa-miR-486-5p	1006	88	977.032	190.135	977.032	190.135	-2.35529	0.039419
hsa-miR-487a-5p	60	9	58.27229	19.44563	58.27229	19.44563	-1.53557	0.040413
hsa-miR-493-3p	6700	1263	6507.072	2728.87	6507.072	2728.87	-1.2534	0.044471
hsa-miR-499a-5p	4	20	3.884819	43.2125	3.884819	43.2125	3.178077	0.043577
hsa-miR-500a-3p	135	30	131.1126	64.81876	131.1126	64.81876	-1.0052	0.045796
hsa-miR-501-3p	116	22	112.6598	47.53375	112.6598	47.53375	-1.22766	0.044951
hsa-miR-5100	4	14	3.884819	30.24875	3.884819	30.24875	2.677422	0.045443
hsa-miR-539-3p	16	60	15.53928	129.6375	15.53928	129.6375	2.981601	0.042796
hsa-miR-541-5p	13	1	12.62566	2.160625	12.62566	2.160625	-2.10804	0.045374
hsa-miR-543	166	549	161.22	1186.183	161.22	1186.183	2.871519	0.045844
hsa-miR-550a-5p	34	3	33.02096	6.481876	33.02096	6.481876	-2.18495	0.0489
hsa-miR-5585-3p	8	30	7.69638	64.81876	7.69638	64.81876	2.90791	0.046267
hsa-miR-561-5p	13	2	12.62566	4.32125	12.62566	4.32125	-1.35649	0.049355
hsa-miR-574-5p	386	79	374.885	170.6894	374.885	170.6894	-1.13049	0.043029
hsa-miR-576-3p	80	8	77.69638	17.285	77.69638	17.285	-2.10564	0.044203
hsa-miR-584-5p	21	3	20.3953	6.481876	20.3953	6.481876	-1.51582	0.043972
hsa-miR-589-5p	516	34	501.1417	73.46126	501.1417	73.46126	-2.75353	0.03
hsa-miR-6087	446	593	433.1573	1281.251	433.1573	1281.251	1.562389	0.046828
hsa-miR-615-5p	96	5	93.23566	10.80313	93.23566	10.80313	-2.9971	0.042345
hsa-miR-619-5p	6	18	5.827229	38.89125	5.827229	38.89125	2.546701	0.038517
hsa-miR-629-5p	643	51	624.4847	110.1919	624.4847	110.1919	-2.49192	0.036756
hsa-miR-652-3p	203	44	197.1546	95.06751</				

Table.S2 Original HTS data sets for mRNAs and lncRNAs

Table.S2 Original HTS data sets for mRNAs and lncRNAs									
test id	gene id	gene locus	sample 1	sample 2	status	value 1	value 2	log2(fold)	statp_value
ENST000002ENSG00000335371	4:1139314	Panc-1	parental	Panc-1	spheroioid	0.286226	1.31751	2.20259	2.86699
ENST000002ENSG00000335371	7:9558345	Panc-1	parental	Panc-1	spheroioid	0.34517	10.9668	1.03946	1.98109
ENST000002ENSG00000335371	12:128907	Panc-1	parental	Panc-1	spheroioid	80.5495	20.6675	1.96251	4.22996
ENST000002ENSG00000335371	2:127168	Panc-1	parental	Panc-1	spheroioid	4.78241	12.8392	1.42474	2.53979
ENST000002ENSG00000335371	3:486364	Panc-1	parental	Panc-1	spheroioid	2.22606	0.942035	1.24064	0.03976
ENST000002ENSG00000335371	17:238405	Panc-1	parental	Panc-1	spheroioid	3.3064	1.04478	1.66206	2.21057
ENST000002ENSG00000335371	19:16661	Panc-1	parental	Panc-1	spheroioid	8.1542	12.6716	1.13364	2.07124
ENST000002ENSG00000335371	19:394125	Panc-1	parental	Panc-1	spheroioid	222.707	88.8972	1.32493	2.0149
ENST000002ENSG00000335371	14:354015	Panc-1	parental	Panc-1	spheroioid	44.9811	128.032	1.50911	2.96584
ENST000002ENSG00000335371	20:520516	Panc-1	parental	Panc-1	spheroioid	2.12865	0.000318	12.7108	0.17028
ENST000002ENSG00000335371	20:760075	Panc-1	parental	Panc-1	spheroioid	1.34677	3.93E-05	15.0647	0.02004
ENST000002ENSG00000335371	8:1405201	Panc-1	parental	Panc-1	spheroioid	9.68764	4.27366	1.18067	2.30223
ENST000002ENSG00000335371	19:422945	Panc-1	parental	Panc-1	spheroioid	5.17441	6.57139	2.48426	2.85215
ENST000002ENSG00000335371	19:102895	Panc-1	parental	Panc-1	spheroioid	2.24671	2.79E-05	16.297	0.01755
ENST000002ENSG00000335371	19:178715	Panc-1	parental	Panc-1	spheroioid	1.42368	4.54665	1.67518	2.50172
ENST000002ENSG00000335371	19:180011	Panc-1	parental	Panc-1	spheroioid	2.33915	0.00011	14.3826	0.05008
ENST000002ENSG00000335371	7:100612	Panc-1	parental	Panc-1	spheroioid	0.000168	1.44696	13.0681	0.02648
ENST000002ENSG00000335371	7:3956637	Panc-1	parental	Panc-1	spheroioid	0.00168	1.44696	13.0681	0.02648
ENST000002ENSG00000335371	17:342552	Panc-1	parental	Panc-1	spheroioid	244.284	564.583	1.20863	2.67523
ENST000002ENSG00000335371	12:626435	Panc-1	parental	Panc-1	spheroioid	0.34518	1.40718	2.02764	2.59221
ENST000002ENSG00000335371	3:1941361	Panc-1	parental	Panc-1	spheroioid	4.23083	19.3542	2.19363	3.37455
ENST000002ENSG00000335371	1:928809	Panc-1	parental	Panc-1	spheroioid	0.957842	5.36566	2.4859	2.6867
ENST000002ENSG00000335371	20:36777	Panc-1	parental	Panc-1	spheroioid	5.02238	1.83923	1.49226	2.67446
ENST000002ENSG00000335371	4:8809026	Panc-1	parental	Panc-1	spheroioid	6.75769	2.93236	1.7481	2.10348
ENST000002ENSG00000335371	10:916284	Panc-1	parental	Panc-1	spheroioid	0.395867	2.59977	2.7153	2.88171
ENST000002ENSG00000335371	7:250165	Panc-1	parental	Panc-1	spheroioid	9.12433	79.6647	4.45817	4.58346
ENST000002ENSG00000335371	10:690881	Panc-1	parental	Panc-1	spheroioid	9.91851	37.8329	1.93145	3.41692
ENST000002ENSG00000335371	1:1038223	Panc-1	parental	Panc-1	spheroioid	0.477575	2.58175	2.43546	2.81222
ENST000002ENSG00000335371	6:3667645	Panc-1	parental	Panc-1	spheroioid	4.69679	16.9809	1.85417	3.11015
ENST000002ENSG00000335371	3:1817115	Panc-1	parental	Panc-1	spheroioid	15.6262	31.6687	1.01909	2.30862
ENST000002ENSG00000335371	6:653095	Panc-1	parental	Panc-1	spheroioid	9.85003	3.47015	5.02099	2.62024
ENST000002ENSG00000335371	19:658318	Panc-1	parental	Panc-1	spheroioid	192.431	54.0238	1.83267	3.95454
ENST000002ENSG00000335371	19:456065	Panc-1	parental	Panc-1	spheroioid	19.413254	1.84	1.57739	2.9914
ENST000002ENSG00000335371	12:663025	Panc-1	parental	Panc-1	spheroioid	1.71206	0.55506	1.62502	2.25092
ENST000002ENSG00000335371	22:320391	Panc-1	parental	Panc-1	spheroioid	19.8779	9.43699	1.07477	1.94702
ENST000002ENSG00000335371	3:343515	Panc-1	parental	Panc-1	spheroioid	9.13968	3.49691	1.94066	2.54998
ENST000002ENSG00000335371	16:170618	Panc-1	parental	Panc-1	spheroioid	7.61701	2.62826	1.53512	2.01692
ENST000002ENSG00000335371	19:185238	Panc-1	parental	Panc-1	spheroioid	5.02078	2.28115	2.0815	2.91214
ENST000002ENSG00000335371	0:738442	Panc-1	parental	Panc-1	spheroioid	0.738442	1.84109	1.318	2.26256
ENST000002ENSG00000335371	19:183747	Panc-1	parental	Panc-1	spheroioid	79.6136	180.34	1.17963	2.6412
ENST000002ENSG00000335371	4:596822	Panc-1	parental	Panc-1	spheroioid	9.12433	79.6647	1.2437	2.62024
ENST000002ENSG00000335371	20:458576	Panc-1	parental	Panc-1	spheroioid	0.372871	1.73729	2.22009	2.43447
ENST000002ENSG00000335371	1:187755	Panc-1	parental	Panc-1	spheroioid	1.39941	1.35811	1.42768	2.01215
ENST000002ENSG00000335371	6:8403375	Panc-1	parental	Panc-1	spheroioid	0.156681	1.4432	3.20337	2.70152
ENST000002ENSG00000335371	15:395816	Panc-1	parental	Panc-1	spheroioid	0.58196	1.56272	1.41954	1.997
ENST000002ENSG00000335371	19:429935	Panc-1	parental	Panc-1	spheroioid	1.49776	6.47066	1.94066	2.54998
ENST000002ENSG00000335371	3:165666	Panc-1	parental	Panc-1	spheroioid	3.65666	1.26633	1.52997	2.1164
ENST000002ENSG00000335371	12:118065	Panc-1	parental	Panc-1	spheroioid	1.856308	4.254	2.4806	2.15275
ENST000002ENSG00000335371	16:878303	Panc-1	parental	Panc-1	spheroioid	25.9554	12.5013	1.05396	2.27229
ENST000002ENSG00000335371	12:111034	Panc-1	parental	Panc-1	spheroioid	1.32537	0.407915	1.70006	2.17559
ENST000002ENSG00000335371	4:67535	Panc-1	parental	Panc-1	spheroioid	8.13034	35.318	1.22747	2.3670
ENST000002ENSG00000335371	16:203981	Panc-1	parental	Panc-1	spheroioid	7.60708	1.23928	2.61784	2.98744
ENST000002ENSG00000335371	19:481955	Panc-1	parental	Panc-1	spheroioid	1.841955	1.26633	1.74489	2.78183
ENST000002ENSG00000335371	1:6101792	Panc-1	parental	Panc-1	spheroioid	14.0382	3.56779	1.97625	3.04021
ENST000002ENSG00000335371	17:788525	Panc-1	parental	Panc-1	spheroioid	10.6498	3.85974	1.46425	2.26313
ENST000002ENSG00000335371	2:40111	Panc-1	parental	Panc-1	spheroioid	19.6395	9.40698	1.39362	2.04725
ENST000002ENSG00000335371	19:483945	Panc-1	parental	Panc-1	spheroioid	2.97934	0.903999	1.7206	2.52562
ENST000002ENSG00000335371	19:476075	Panc-1	parental	Panc-1	spheroioid	0.0013	0.0013	1.7927	0.01213
ENST000002ENSG00000335371	19:383195	Panc-1	parental	Panc-1	spheroioid	10.3638	4.94036	1.08887	2.19236
ENST000002ENSG00000335371	11:119206	Panc-1	parental	Panc-1	spheroioid	16.9016	8.41138	1.0674	2.14248
ENST000002ENSG00000335371	2:333545	Panc-1	parental	Panc-1	spheroioid	11.7305	5.54875	1.0674	2.14248
ENST000002ENSG00000335371	4:1009935	Panc-1	parental	Panc-1	spheroioid	52.6498	21.211	1.31162	2.87386
ENST000002ENSG00000335371	2:5711196	Panc-1	parental	Panc-1	spheroioid	2.13053	1.5505	1.6002	2.03437
ENST000002ENSG00000335371	19:53963	Panc-1	parental	Panc-1	spheroioid	10.0542	4.2262	2.05316	4.13775
ENST000002ENSG00000335371	2:2056815	Panc-1	parental	Panc-1	spheroioid	4.44993	0.958776	2.24552	1.17662
ENST000002ENSG00000335371	3:455535	Panc-1	parental	Panc-1	spheroioid	1.49776	6.47066	1.94066	2.54998
ENST000002ENSG00000335371	5:1160835	Panc-1	parental	Panc-1	spheroioid	4.23422	15.9951	1.91746	2.19101
ENST000002ENSG00000335371	6:1539522	Panc-1	parental	Panc-1	spheroioid	17.6104	17.014	2.3191	17.127
ENST000002ENSG00000335371	7:1006795	Panc-1	parental	Panc-1	spheroioid	10.7096	4.37591	1.29124	2.63192
ENST000002ENSG00000335371	8:2518472	Panc-1	parental	Panc-1	spheroioid	5.39723	1.61418	1.71442	3.1826
ENST000002ENSG00000335371	9:1910837	Panc-1	parental	Panc-1	spheroioid	19.6395	9.40698	1.06674	2.04725
ENST000002ENSG00000335371	9:1068636	Panc-1	parental	Panc-1	spheroioid	8.20993	4.04167	1.02242	2.10737
ENST000002ENSG00000335371	1:1281496	Panc-1	parental	Panc-1	spheroioid	14.0686	3.57197	1.97197	3.04243
ENST000002ENSG00000335371	15:573755	Panc-1	parental	Panc-1	spheroioid	0.049498	2.70144	5.77022	6.9106
ENST000002ENSG00000335371	2:2230518	Panc-1	parental	Panc-1	spheroioid	0.485043	3.51437	2.85708	3.52402
ENST000002ENSG00000335371	11:19381	Panc-1	parental	Panc-1	spheroioid	1.49776	6.47066	1.94066	2.54998
ENST000002ENSG00000335371	21:268357	Panc-1	parental	Panc-1	spheroioid	0.068751	0.99782	3.52384	1.5913
ENST000002ENSG00000335371	1:1344425	Panc-1	parental	Panc-1	spheroioid	1.51147	1.33055	1.06779	2.00111
ENST000002ENSG00000335371	8:1198674	Panc-1	parental	Panc-1	spheroioid	6.81514	21.5669	1.66201	3.21649
ENST000002ENSG00000335371	7:8988235	Panc-1	parental	Panc-1	spheroioid	1.82562	0.000103	14.119	0.13258
ENST000002ENSG00000335371	7:8988235	Panc-1	parental	Panc-1	spheroioid	9.6104	4.309	1.48074	2.3214
ENST000002ENSG00000335371	8:2384191	Panc-1	parental	Panc-1	spheroioid	4.49883	21.1855	2.12707	4.09868
ENST000002ENSG00000335371	17:485945	Panc-1	parental	Panc-1	spheroioid	19.6395	9.40698	1.06674	2.04725
ENST000002ENSG00000335371	15:425756	Panc-1	parental	Panc-1	spheroioid	3.59976	1.67914	1.10017	2.08617
ENST000002ENSG00000335371	3:1871795	Panc-1	parental	Panc-1	spheroioid	0	0	1.6598	1.41138
ENST000002ENSG00000335371	7:8988235	Panc-1	parental	Panc-1	spheroioid	1.04872	0.000103	13.9297	0.03598
ENST000002ENSG00000335371	3:1574757	Panc-1	parental	Panc-1	spheroioid	0.065838	1.5759	4.58478	2.40946
ENST000002ENSG00000335371	3:492229	Panc-1	parental	Panc-1	spheroioid	1.04872	0.000103	13.9297	0.03598
ENST000002ENSG00000335371	3:4508222	Panc-1	parental	Panc-1	spheroioid	51.0432	23.1226	1.14216	2.58527
ENST000002ENSG00000335371	3:1871205	Panc-1	parental	Panc-1	spheroioid	23.2888	50.9084	1.12827	2.05304
ENST000002ENSG00000335371	12:223434	Panc-1	parental	Panc-1	spheroioid	0	0	1.191329	NA
ENST000002ENSG00000335371	3:4955445	Panc-1	parental	Panc-1	spheroioid	0.790755	0.298497	1.40552	2.05569
ENST000002ENSG00000335371	3:3624845	Panc-1	parental	Panc-1	spheroioid	0.142627	0.14729	4.08674	0.04873
ENST000002ENSG00000335371	6:1423018	Panc-1	parental	Panc-1	spheroioid	19.0393	5.12143	1.89436	2.63908
ENST000002ENSG00000335371	9:3344115	Panc-1	parental	Panc-1	spheroioid	1.11058	3.79753	1.77375	2.18481
ENST000002ENSG00000335371	19:688275	Panc-1	parental	Panc-1	spheroioid	0.107708	0.0328	1.7708	0.050808
ENST000002ENSG00000335371	16:106205	Panc-1	parental	Panc-1	spheroioid	0.20366	0.592936	1.77813	2.04081
ENST000002ENSG00000335371	11:781005	Panc-1	parental	Panc-1	spheroioid	1.83535	21.49335	1.7601	13.722
ENST000002ENSG00000335371	15:897845								

ENST000003ENSG000003FLNB	3:5800835	Panc-1	parental	Panc-1	spheroid	OK	32.9717	13.3486	-1.30454	-2.10827	0.03645
ENST000003ENSG000003MYPN	10:681061	Panc-1	parental	Panc-1	spheroid	OK	11.378	2.8197	-2.01264	-3.40964	0.0012
ENST000003ENSG000003SPFS3	10:631447	Panc-1	parental	Panc-1	spheroid	OK	0.139115	0.753539	2.606314	0.0418	0.0185
ENST000003ENSG000003MYOF	10:933064	Panc-1	parental	Panc-1	spheroid	OK	182.769	74.3524	-1.29757	-2.48524	0.01505
ENST000003ENSG000003ADADD	2:2034485	Panc-1	parental	Panc-1	spheroid	OK	1.84089	1.65152	2.11876	0.0414	0.0141
ENST000003ENSG000003CKNK5	6:3918897	Panc-1	parental	Panc-1	spheroid	OK	0.151521	0.963677	2.66903	2.6496	0.0258
ENST000003ENSG000003CMR	22:356067	Panc-1	parental	Panc-1	spheroid	OK	0.001705	1.82161	10.0609	0.233734	0.0455
ENST000003ENSG000003NR2P	2:2056815	Panc-1	parental	Panc-1	spheroid	OK	4.81028	1.46506	2.09655	0.0411	0.0185
ENST000003ENSG000003CACA1G	17:505562	Panc-1	parental	Panc-1	spheroid	OK	0.763479	2.49E-05	1.90331	-0.03715	0.04745
ENST000003ENSG000003BCL1	1:1836306	Panc-1	parental	Panc-1	spheroid	OK	5.59393	1.59195	3.14052	0.02005	0.0185
ENST000003ENSG000003ENPP1	6:131808E	Panc-1	parental	Panc-1	spheroid	OK	1.54173	4.06497	1.39869	2.22543	0.0294
ENST000003ENSG000003IQGAP3	1:156525	Panc-1	parental	Panc-1	spheroid	OK	7.33399	2.69948	-1.4191	-2.70285	0.0081
ENST000003ENSG000003PTGS1	9:1223705	Panc-1	parental	Panc-1	spheroid	OK	1.75645	7.80332	5.47336	6.24921	0.00105
ENST000003ENSG000003CRNU5E	1:1190815	Panc-1	parental	Panc-1	spheroid	OK	2713.79	9836.03	1.85777	3.09049	0.0036
ENST000003ENSG000003CRNU5A	15:652344	Panc-1	parental	Panc-1	spheroid	OK	1971.32	11399.7	2.53176	2.63935	0.02365
ENST000003ENSG000003RNTSKP90	11:167782	Panc-1	parental	Panc-1	spheroid	OK	64.9791	244.26	1.91037	2.4245	0.01885
ENST000003ENSG000003CRNU5B	15:65304E	Panc-1	parental	Panc-1	spheroid	OK	226.217	2461.29	3.44364	3.4385	0.0099
ENST000003ENSG000003RNTSKP2052	7:644507	Panc-1	parental	Panc-1	spheroid	OK	504.21	1061.19	1.07359	2.4068	0.0208
ENST000003ENSG000003CRNU4	12:120299	Panc-1	parental	Panc-1	spheroid	OK	3513.4	7130.33	1.0211	2.08544	0.0419
ENST000003ENSG000003SLC35F3	1:228735	Panc-1	parental	Panc-1	spheroid	OK	12235.9	52362.6	2.09742	4.29245	5.00E-05
ENST000003ENSG000003SOX13	1:2040731	Panc-1	parental	Panc-1	spheroid	OK	3.41468	0.000133	-14.6504	-0.09067	0.0435
ENST000003ENSG000003R4Y1	7:148987	Panc-1	parental	Panc-1	spheroid	OK	1.67101	0.000277	-12.5602	-0.16377	0.0404
ENST000003ENSG000003PLEKHG1	6:1505995	Panc-1	parental	Panc-1	spheroid	OK	0.337148	1.05182	1.64143	2.02772	0.0457
ENST000003ENSG000003ATP1B1	1:1691056	Panc-1	parental	Panc-1	spheroid	OK	40.7014	119.648	1.55565	2.12431	0.0377
ENST000003ENSG000003CRNU5C	1:1691056	Panc-1	parental	Panc-1	spheroid	OK	41.3699	107.701	1.38038	2.23004	0.0286
ENST000003ENSG000003RG54	1:1630687	Panc-1	parental	Panc-1	spheroid	OK	0.236745	1.63118	2.78451	2.49997	0.03485
ENST000003ENSG000003KNA1EN	1:1579932	Panc-1	parental	Panc-1	spheroid	OK	7.68878	3.02108	-1.34769	-0.03792	0.0383
ENST000003ENSG000003GATAD2B	6:238041	Panc-1	parental	Panc-1	spheroid	OK	1.13559	0.000127	-0.96709	-0.06747	0.04015
ENST000003ENSG000003LOC149	1:135781	Panc-1	parental	Panc-1	spheroid	OK	4.4935	1.96904	-1.19035	-1.97248	0.04975
ENST000003ENSG000003HTRAL	10:122461	Panc-1	parental	Panc-1	spheroid	OK	27.2956	56.2835	1.04404	1.9854	0.04485
ENST000003ENSG000003EPH47	6:9324001	Panc-1	parental	Panc-1	spheroid	OK	2.22149	7.68971	1.7914	3.10106	0.0029
ENST000003ENSG000003FAM2N1	1:176095	Panc-1	parental	Panc-1	spheroid	OK	0.05781	0.21114	1.66409	0.0051	0.0041
ENST000003ENSG000003SLC35A1	6:8740795	Panc-1	parental	Panc-1	spheroid	OK	0.000251	2.63975	13.3047	0.070603	0.03765
ENST000003ENSG000003FLNA	X:112673	Panc-1	parental	Panc-1	spheroid	OK	0.014673	1.02067	12.8246	0.06937	0.04411
ENST000003ENSG000003TMN3	20:636397	Panc-1	parental	Panc-1	spheroid	OK	88.7564	37.705	-1.23509	-2.2046	0.0283
ENST000003ENSG000003C11A1	20:636397	Panc-1	parental	Panc-1	spheroid	OK	57.1638	26.7773	1.09409	-2.40739	0.01545
ENST000003ENSG000003PPDP	20:635207	Panc-1	parental	Panc-1	spheroid	OK	37.3437	16.0627	-1.21715	-2.10496	0.03665
ENST000003ENSG000003PLPP3	1:5649474	Panc-1	parental	Panc-1	spheroid	OK	2.44511	9.43102	1.94751	3.16568	0.0027
ENST000003ENSG000003KCNH1	9:493638	Panc-1	parental	Panc-1	spheroid	OK	0.000000	0.000000	0.000000	0.000000	0.000000
ENST000003ENSG000003SLC246	9:1334716	Panc-1	parental	Panc-1	spheroid	OK	7.48E-05	1.21223	13.9851	0.030405	0.03495
ENST000003ENSG000003CY235A	1:4702356	Panc-1	parental	Panc-1	spheroid	OK	0.000000	0.000000	0.000000	0.000000	0.000000
ENST000003ENSG000003F1BCD1	9:1309024	Panc-1	parental	Panc-1	spheroid	OK	1.03455	6.57E-05	-13.942	-0.03853	0.03985
ENST000003ENSG000003TSC2D23	X:1077132	Panc-1	parental	Panc-1	spheroid	OK	2.32505	8.59657	1.8865	2.31846	0.03045
ENST000003ENSG000003C11ER4	1:1086105	Panc-1	parental	Panc-1	spheroid	OK	46.2421	22.9374	-1.01151	-0.04521	0.04521
ENST000003ENSG000003TSPANE	X:1006271	Panc-1	parental	Panc-1	spheroid	OK	4.5494	14.9824	1.71952	2.89578	0.0059
ENST000003ENSG000003C11E22	3:3274185	Panc-1	parental	Panc-1	spheroid	OK	1.75295	1.56129	1.56129	1.56129	0.03115
ENST000003ENSG000003AHDC1	1:2753403	Panc-1	parental	Panc-1	spheroid	OK	3.6459	1.07481	-1.76219	-2.51155	0.01955
ENST000003ENSG000003CUGC	9:1118967	Panc-1	parental	Panc-1	spheroid	OK	20.6274	8.80994	-1.22736	-2.58244	0.009
ENST000003ENSG000003K14	1:1074845	Panc-1	parental	Panc-1	spheroid	OK	0.000012	2.83392	14.5278	0.00293	0.0312
ENST000003ENSG000003HSPG2	1:2181226	Panc-1	parental	Panc-1	spheroid	OK	18.9931	6.63876	-1.51649	-3.30022	0.00105
ENST000003ENSG000003C0L5A2	2:1890318	Panc-1	parental	Panc-1	spheroid	OK	39.05	18.5107	-1.07696	-2.41816	0.01515
ENST000003ENSG000003CAMK2N1	10:49235	Panc-1	parental	Panc-1	spheroid	OK	1.1811	0.77591	1.3394	1.3394	0.00041
ENST000003ENSG000003ISCA1	9:862645	Panc-1	parental	Panc-1	spheroid	OK	7.40878	17.7439	1.26001	-2.24622	0.0253
ENST000003ENSG000003F1BPF1	1:855455	Panc-1	parental	Panc-1	spheroid	OK	0.000000	0.000000	0.000000	0.000000	0.000000
ENST000003ENSG000003MDC1	6:306998E	Panc-1	parental	Panc-1	spheroid	OK	7.96064	3.24085	-1.29651	-2.54849	0.01155
ENST000003ENSG000003TMHFR	1:1176178	Panc-1	parental	Panc-1	spheroid	OK	8.04E-05	1.20174	13.8678	0.10468	0.04255
ENST000003ENSG000003HBP9	1:2034774	Panc-1	parental	Panc-1	spheroid	OK	6.62627	4.49723	-1.21567	-0.01438	0.0184
ENST000003ENSG000003CPDH9	13:663028	Panc-1	parental	Panc-1	spheroid	OK	0.334677	2.5513	2.93039	4.90045	5.00E-05
ENST000003ENSG000003ARNAK	11:624335	Panc-1	parental	Panc-1	spheroid	OK	30.6467	82.1383	-1.88033	-0.0094	0.0094
ENST000003ENSG000003PHI1	13:494956	Panc-1	parental	Panc-1	spheroid	OK	0.004008	5.76094	-1.78753	0.09181	0.03425
ENST000003ENSG000003ARHGFE16	1:3454425	Panc-1	parental	Panc-1	spheroid	OK	0.000191	1.07702	12.4625	0.066236	0.0314
ENST000003ENSG000003C11E2	1:222869	Panc-1	parental	Panc-1	spheroid	OK	1.000000	0.000000	0.000000	0.000000	0.000000
ENST000003ENSG000003CHGB	20:591142	Panc-1	parental	Panc-1	spheroid	OK	9.7721	37.8748	1.9545	4.0082	0.0002
ENST000003ENSG000003CD24	6:1069698	Panc-1	parental	Panc-1	spheroid	OK	2.35894	9.13178	1.95276	2.66294	0.0249
ENST000003ENSG000003B4GAL1	13:10408	Panc-1	parental	Panc-1	spheroid	OK	13.4744	4.8092	-1.48666	-2.7451	0.0073
ENST000003ENSG000003ARSK	5:9555507	Panc-1	parental	Panc-1	spheroid	OK	17.7523	2.30391	1.77229	2.25527	0.00019
ENST000003ENSG000003SLC1A11	10:322741	Panc-1	parental	Panc-1	spheroid	OK	11.4119	30.812	1.43295	2.66753	0.0083
ENST000003ENSG000003NET1	5:541255	Panc-1	parental	Panc-1	spheroid	OK	2.68101	0.000411	-12.6701	-0.08629	0.04205
ENST000003ENSG000003SMN2	5:7004961	Panc-1	parental	Panc-1	spheroid	OK	0.000000	0.000000	0.000000	0.000000	0.000000
ENST000003ENSG000003CDX2	1:279622	Panc-1	parental	Panc-1	spheroid	OK	0.000000	0.000000	0.000000	0.000000	0.000000
ENST000003ENSG000003ARSD	X:2903965	Panc-1	parental	Panc-1	spheroid	OK	1.12444	3.11723	1.47106	2.15931	0.03215
ENST000003ENSG000003ZBED1	X:2219515	Panc-1	parental	Panc-1	spheroid	OK	1.19406	7.57E-05	-13.9493	-0.06221	0.02955
ENST000003ENSG000003ICP2	1:212911	Panc-1	parental	Panc-1	spheroid	OK	1.48141	1.6045	-2.83963	-0.00724	0.00019
ENST000003ENSG000003DI2PC	10:274185	Panc-1	parental	Panc-1	spheroid	OK	5.58E-05	1.06403	14.2187	0.08216	0.04275
ENST000003ENSG000003C11E4	1:4004	Panc-1	parental	Panc-1	spheroid	OK	4.66638	1.98377	1.98377	1.98377	0.0388
ENST000003ENSG000003FGFBP1	4:1593555	Panc-1	parental	Panc-1	spheroid	OK	3.62933	0.280498	-3.69364	-3.2341	0.03235
ENST000003ENSG000003CNECUT3	19:175237	Panc-1	parental	Panc-1	spheroid	OK	12.8453	3.90282	-1.71865	-3.65595	0.0005
ENST000003ENSG000003C11E2	20:18174	Panc-1	parental	Panc-1	spheroid	OK	6.62627	4.49723	-1.21567	-0.01438	0.0184
ENST000003ENSG000003SNORAB	17:672714	Panc-1	parental	Panc-1	spheroid	OK	69.6236	335.062	2.26678	2.18239	0.04925
ENST000003ENSG000003EP400	12:131945	Panc-1	parental	Panc-1	spheroid	OK	6.14084	2.32324	-1.45994	-2.58132	0.0119
ENST000003ENSG000003C11E2	15:4884	Panc-1	parental	Panc-1	spheroid	OK	0.000000	0.000000	0.000000	0.000000	0.000000
ENST000003ENSG000003MYADM	19:538455	Panc-1	parental	Panc-1	spheroid	OK	76.1987	26.5159	-1.52291	-3.16364	0.0017
ENST000003ENSG000003MDC1	1:2041545	Panc-1	parental	Panc-1	spheroid	OK	12.49675	2.05869	-2.05869	-2.05869	0.02066
ENST000003ENSG000003C11E2	12:119685	Panc-1	parental	Panc-1	spheroid	OK	9.62911	4.38108	-1.13612	-2.13091	0.03245
ENST000003ENSG000003INF2	14:104685	Panc-1	parental	Panc-1	spheroid	OK	13.394	2.58297	-2.37448	-3.48471	0.0012
ENST000003ENSG000003C11E2	12:103776	Panc-1	parental	Panc-1	spheroid	OK	7.73994	2.23636	-1.26788	-2.55588	0.0119
ENST000003ENSG000003TLL16	17:487622	Panc-1	parental	Panc-1	spheroid	OK	0.195881	2.1991	3.48886	3.26891	0.01465
ENST000003ENSG000003C11E2	10:102732	Panc-1	parental	Panc-1	spheroid	OK	1.000000	0.000000	0.000000	0.000000	0.000000
ENST000003ENSG000003C11E2	17:1165247	Panc-1	parental	Panc-1	spheroid	OK	46.8291	20.5929	-1.18526	-2.08329	0.0341
ENST000003ENSG000003SYT12	11:670067										

ENST000003ENS00000WSB1	17:27294C	Panc-1	parental	Panc-1	spheroid	OK	55.3955	26.2691	-1.0764	-2.02599	0.0429
ENST000003ENS00000PQLC2	1:1931232	Panc-1	parental	Panc-1	spheroid	OK	0.000242	2.40725	13.2796	0.058828	0.0341
ENST000003ENS00000KNTS1-1961	1:198624C	Panc-1	parental	Panc-1	spheroid	OK	99.4573	29.789	1.69507	-2.38743	0.02075
ENST000003ENS00000CAP1GAP	1:215962	Panc-1	parental	Panc-1	spheroid	OK	0.000106	0.534826	12.3065	0.054425	0.048
ENST000003ENS00000MICALL2	7:142846	Panc-1	parental	Panc-1	spheroid	OK	7.21716	1.25755	-2.52081	-2.63044	0.02365
ENST000003ENS00000CLTIC	17:596185	Panc-1	parental	Panc-1	spheroid	OK	6.04819	0	-2.81725	NA	0.0447
ENST000003ENS00000ATHL1	11:259134	Panc-1	parental	Panc-1	spheroid	OK	20.6705	8.63324	-1.2596	-2.3053	0.0218
ENST000003ENS00000RPL34P31	17:27274	Panc-1	parental	Panc-1	spheroid	OK	0	1.02062	1.014798	NA	0.03355
ENST000003ENS00000POLR2H	3:184134	Panc-1	parental	Panc-1	spheroid	OK	1.72954	0	-1.44866	NA	0.036
ENST000003ENS00000GSDMB	17:399045	Panc-1	parental	Panc-1	spheroid	OK	3.28242	0.751981	-2.12599	-2.81836	0.013
ENST000003ENS00000PSP6	21:34073C	Panc-1	parental	Panc-1	spheroid	OK	0	1.19439	2.376954	0	0.0358
ENST000003ENS00000FRMD4B	3:691699	Panc-1	parental	Panc-1	spheroid	OK	0.540013	2.40348	-2.15406	-2.438	0.02985
ENST000003ENS00000CRP11-10G14:2259415	Panc-1	parental	Panc-1	spheroid	OK	0	2.37781	1.756088	NA	0.03355	
ENST000003ENS00000ZC3HC1	7:1299532	Panc-1	parental	Panc-1	spheroid	OK	2.5428	0.00027	-13.2028	-0.07613	0.0298
ENST000003ENS00000LBE2G2	21:44768	Panc-1	parental	Panc-1	spheroid	OK	19.0753	6.58024	-1.45781	-2.34251	0.02345
ENST000003ENS00000PCGAP2	11:366558	Panc-1	parental	Panc-1	spheroid	OK	1.42313	0	-1.27687	NA	0.04985
ENST000003ENS00000CAKT2	19:402303	Panc-1	parental	Panc-1	spheroid	OK	4.45325	0	-2.44712	NA	0.0224
ENST000003ENS00000RFR	9:763855	Panc-1	parental	Panc-1	spheroid	OK	1.87512	0.000324	-12.5005	-0.12214	0.04345
ENST000003ENS00000RPL36AP215:180495	Panc-1	parental	Panc-1	spheroid	OK	2.05265	0	-1.61006	NA	0.0167	
ENST000003ENS00000CHD5	1:6101792	Panc-1	parental	Panc-1	spheroid	OK	19.3366	6.75142	-1.51807	-2.12666	0.0325
ENST000003ENS00000CEN01	1:8861001	Panc-1	parental	Panc-1	spheroid	OK	0	1.13528	1.094425	NA	0.0476
ENST000003ENS00000GABPB1-AS15:502753	Panc-1	parental	Panc-1	spheroid	OK	6.29467	2.13155	-1.56223	-2.59108	0.01295	
ENST000003ENS00000ABL2	1:179099	Panc-1	parental	Panc-1	spheroid	OK	5.93399	2.68941	-1.14171	-2.14635	0.0328
ENST000003ENS00000CRP11-22A24:1294757	Panc-1	parental	Panc-1	spheroid	OK	1.34386	0	-1.22889	NA	0.0318	
ENST000003ENS00000CTB-129045:1802932	Panc-1	parental	Panc-1	spheroid	OK	1.40804	0	-1.26786	NA	0.0167	
ENST000003ENS00000RNP213	17:802608	Panc-1	parental	Panc-1	spheroid	OK	49.9111	23.2209	-1.10394	-2.01413	0.0427
ENST000003ENS00000PRDM16	1:3069147	Panc-1	parental	Panc-1	spheroid	OK	0.836818	3.47E-05	-14.5596	0.02831	0.04208
ENST000003ENS00000PTNP13	4:865943	Panc-1	parental	Panc-1	spheroid	OK	0.632679	4.26E-05	-13.8593	-0.0637	0.04465
ENST000003ENS00000ZNF331	19:535205	Panc-1	parental	Panc-1	spheroid	OK	0.000383	1.81741	12.2115	0.109798	0.0472
ENST000003ENS00000LNC010914:1236502	Panc-1	parental	Panc-1	spheroid	OK	0.099058	0.547854	2.46744	-2.36379	0.0388	
ENST000003ENS00000TMR3160C	11:107833	Panc-1	parental	Panc-1	spheroid	OK	0.032471	2.19237	1.79023	20962	0.0219
ENST000003ENS00000MGAT4B	5:1797975	Panc-1	parental	Panc-1	spheroid	OK	1.38557	0	-1.25433	NA	0.02835
ENST000003ENS00000TBC1D9B	5:1797975	Panc-1	parental	Panc-1	spheroid	OK	1.3457	0	-1.23002	NA	0.0343
ENST000003ENS00000MOK	14:10208	Panc-1	parental	Panc-1	spheroid	OK	1.20849	0	-1.14306	NA	0.0498
ENST000003ENS00000CDT7	17:564579	Panc-1	parental	Panc-1	spheroid	OK	1.38424	0	-1.25352	NA	0.0373
ENST000003ENS00000ST3GAL1	8:1334548	Panc-1	parental	Panc-1	spheroid	OK	1.77859	5.42019	1.60761	-2.25878	0.0322
ENST000003ENS00000MGAT4B	5:1797975	Panc-1	parental	Panc-1	spheroid	OK	1.75302	0	-1.46102	NA	0.04215
ENST000003ENS00000MYBL1	8:665621	Panc-1	parental	Panc-1	spheroid	OK	48.626	19.9876	-1.28262	-2.40846	0.0179
ENST000003ENS00000CBL1-8937:501583	Panc-1	parental	Panc-1	spheroid	OK	0.33041	1.01539	-1.46832	-2.7211	0.00975	
ENST000003ENS00000NCP1PB11	16:293813	Panc-1	parental	Panc-1	spheroid	OK	2.03922	0.190813	-3.41778	-3.5865	0.0092
ENST000003ENS00000RNF5P1	8:386006	Panc-1	parental	Panc-1	spheroid	OK	1.05657	0	-1.04024	NA	0.00915
ENST000003ENS00000STC1	8:238419	Panc-1	parental	Panc-1	spheroid	OK	0.000264	5.03472	14.2179	0.080859	0.04425
ENST000003ENS00000IP4G2	11:107833	Panc-1	parental	Panc-1	spheroid	OK	0	0.02005	2.007213	NA	0.03505
ENST000003ENS00000DERA	12:15911	Panc-1	parental	Panc-1	spheroid	OK	3.55012	0.00065	-12.4142	-0.15917	0.0489
ENST000003ENS00000FTTH1	11:619498	Panc-1	parental	Panc-1	spheroid	OK	3.34199	0	-2.11836	NA	0.01865
ENST000003ENS00000ST5	11:86824	Panc-1	parental	Panc-1	spheroid	OK	0	2.56812	1.835164	NA	0.0493
ENST000003ENS00000MYO18A	12:290735	Panc-1	parental	Panc-1	spheroid	OK	33.0541	10.259	-1.46832	-2.7211	0.00975
ENST000003ENS00000AHNAK	11:624335	Panc-1	parental	Panc-1	spheroid	OK	0	1.26093	1.176916	NA	0.0455
ENST000003ENS00000BR5K2	11:138985	Panc-1	parental	Panc-1	spheroid	OK	4.32E-05	1.43955	15.0241	0.02695	0.0371
ENST000003ENS00000MUS581	11:65823	Panc-1	parental	Panc-1	spheroid	OK	0	1.98672	1.578562	NA	0.04815
ENST000003ENS00000EFMP2	11:65823	Panc-1	parental	Panc-1	spheroid	OK	1.40947	0	-1.26872	NA	0.0485
ENST000003ENS00000CD44	11:351388	Panc-1	parental	Panc-1	spheroid	OK	0	5.26945	2.648339	NA	0.023
ENST000003ENS00000AHNAK	11:624335	Panc-1	parental	Panc-1	spheroid	OK	3.4247	0	-2.14558	NA	0.02235
ENST000003ENS00000APLP2	11:130065	Panc-1	parental	Panc-1	spheroid	OK	0	1.54565	1.348034	NA	0.04915
ENST000003ENS00000IP4G2	11:107833	Panc-1	parental	Panc-1	spheroid	OK	0	0.02005	2.007213	NA	0.03505
ENST000003ENS00000PRKDC	8:477731	Panc-1	parental	Panc-1	spheroid	OK	6.66024	0	-2.93739	NA	0.0454
ENST000003ENS00000KDM6A	X:4487317	Panc-1	parental	Panc-1	spheroid	OK	0.563885	9.01E-05	-12.6104	-0.08476	0.0495
ENST000003ENS00000CTK6	16:814451	Panc-1	parental	Panc-1	spheroid	OK	5.99528	1.85027	-1.69469	-2.28344	0.0162
ENST000003ENS00000CT1ED2	6:1393718	Panc-1	parental	Panc-1	spheroid	OK	9.39883	33.6375	1.83952	-2.5284	0.01805
ENST000003ENS00000CRP5-940J12:653228	Panc-1	parental	Panc-1	spheroid	OK	1.53041	0	-1.33937	NA	0.00245	
ENST000003ENS00000SLC4A11	20:322741	Panc-1	parental	Panc-1	spheroid	OK	2.90111	16.0009	2.46347	-2.72261	0.01275
ENST000003ENS00000CT14H4	12:147675	Panc-1	parental	Panc-1	spheroid	OK	15.1889	0	-1.64099	-2.50189	0.0162
ENST000003ENS00000MYP	10:681061	Panc-1	parental	Panc-1	spheroid	OK	4.68057	0.718905	-2.70281	-2.27266	0.04855
ENST000003ENS00000SOD2	6:159669	Panc-1	parental	Panc-1	spheroid	OK	0	1.76587	1.467333	NA	0.04745
ENST000003ENS00000SETD1B	12:121804	Panc-1	parental	Panc-1	spheroid	OK	3.09044	0.808841	-1.93389	-2.95901	0.0052
ENST000003ENS00000CTK6	16:814451	Panc-1	parental	Panc-1	spheroid	OK	2.47632	0.19328	-2.0054	-2.34058	0.03036
ENST000003ENS00000LDHA	11:183943	Panc-1	parental	Panc-1	spheroid	OK	0	18.9381	4.317456	NA	0.0244
ENST000003ENS00000NRS5A2	1:200027	Panc-1	parental	Panc-1	spheroid	OK	4.24E-05	1.04776	14.5925	0.038923	0.03895
ENST000003ENS00000ZNF324B	19:58451	Panc-1	parental	Panc-1	spheroid	OK	0.666233	0.00013	-12.3216	-0.04803	0.04565
ENST000003ENS00000CKRT8	12:528971	Panc-1	parental	Panc-1	spheroid	OK	1.28487	0	-1.19208	NA	0.04125
ENST000003ENS00000CKRT8	12:528971	Panc-1	parental	Panc-1	spheroid	OK	0	2.04679	1.60729	NA	0.0366
ENST000003ENS00000NAP1L1	12:760365	Panc-1	parental	Panc-1	spheroid	OK	1.95541	0	-1.56336	NA	0.0346
ENST000003ENS00000CKRT8	12:528971	Panc-1	parental	Panc-1	spheroid	OK	0	1.66653	1.414964	NA	0.03985
ENST000003ENS00000RCP20	12:120196	Panc-1	parental	Panc-1	spheroid	OK	2.64671	0	-1.86666	NA	0.04275
ENST000003ENS00000BAZ24	12:565215	Panc-1	parental	Panc-1	spheroid	OK	14.0481	5.52004	-1.34763	-2.2851	0.0252
ENST000003ENS00000HECTD4	12:12126	Panc-1	parental	Panc-1	spheroid	OK	2.22992	0	-1.6915	NA	0.0387
ENST000003ENS00000RCP11-4531:12:761157	Panc-1	parental	Panc-1	spheroid	OK	0	1.24084	1.16404	NA	0.0208	
ENST000003ENS00000CTA-204B48:1405058	Panc-1	parental	Panc-1	spheroid	OK	1.55094	6.5092	-2.09822	-3.83179	0.00025	
ENST000003ENS00000BEGAIN	14:100537	Panc-1	parental	Panc-1	spheroid	OK	4.43137	0.731805	-2.59924	-2.82773	0.01985
ENST000003ENS00000SYNE3	14:954072	Panc-1	parental	Panc-1	spheroid	OK	2.10362	0.885392	-1.24849	-2.12898	0.03385
ENST000003ENS00000MRPL52	14:228298	Panc-1	parental	Panc-1	spheroid	OK	2.82918	0.431806	-2.71193	-1.63229	0.01475
ENST000003ENS00000CTK6	16:814451	Panc-1	parental	Panc-1	spheroid	OK	5.51638	7.10E-05	-14.3822	-0.0349	0.02505
ENST000003ENS00000RPS17	15:825367	Panc-1	parental	Panc-1	spheroid	OK	2.01848	0	-1.59382	NA	0.0466
ENST000003ENS00000RCP11-211C11:693714	Panc-1	parental	Panc-1	spheroid	OK	5.0544	0	-2.59798	NA	0.00025	
ENST000003ENS00000DDX19B	16:702896	Panc-1	parental	Panc-1	spheroid	OK	0.000534	3.63105	12.732	0.147839	0.04855
ENST000003ENS00000CTA-204B48:1405058	Panc-1	parental	Panc-1	spheroid	OK	1.319	6.5092	-2.09822	-3.83179	0.00025	
ENST000003ENS00000LINC0135E1:232813	Panc-1	parental	Panc-1	spheroid	OK	7.46734	3.28689	-1.18387	-2.2616	0.028	
ENST000003ENS00000TGFBI1	16:314702	Panc-1	parental	Panc-1	spheroid	OK	6.75E-05	2.17785	14.9782	0.022058	0.0322
ENST000003ENS00000RCP11-384R4:1185917	Panc-1	parental	Panc-1	spheroid	OK	1.24915	0.251601	-2.31173	-2.61138	0.01885	
ENST000003ENS00000RCP11-384R4:1185917	Panc-1	parental	Panc-1	spheroid	OK	1.33418	0	-1.22292	NA	0.04275	
ENST000003ENS00000RCP5-1085E20:328566	Panc-1	parental	Panc-1	spheroid	OK	3.76298	1.15398	-1.70526	-2.17937	0.03645	
ENST000003ENS00000CACTG1	17:815095	Panc-1	parental	Panc-1	spheroid	OK	0	2.22933	1.691233	NA	0.0228
ENST000003ENS00000FAM195B	17:818223	Panc-1	parental	Panc-1	spheroid	OK	4.29123	0.000429	-13.2872	-0.04178	0.04165
ENST000003ENS00000RCP11-805E17:317624	Panc-1	parental	Panc-1	spheroid	OK	19.10222	20.1938	3.263			

Table S3.Validation of top 20 up- and down- regulated miRNAs by qRT-PCR.

	miRNAs	log2 FC(RNA-Seq)	log2 FC(qRT-PCR)
Up-regulated miRNAs	miR-374a-3p	6.08	3.85
	miR-148a-3p	5.93	3.46
	miR-340-5p	5.08	3.21
	miR-411-5p	4.61	2.03
	miR-1-3p	4.43	2.23
	miR-3182	4.33	1.62
	miR-7641	4.2	1.55
	miR-32-5p	3.95	2.24
	miR-889-3p	3.83	0.61
	miR-148b-3p	3.72	2.61
	miR-20a-5p	3.63	2.46
Down-regulated miRNAs	miR-486-3p	-5.63	-2.84
	miR-378c	-4.82	-2.77
	miR-378a-3p	-4.78	-2.73
	miR-134-5p	-4.61	-3.11
	miR-370-3p	-4.57	-2.42
	miR-320a	-4.29	-2.48
	miR-193a-3p	-4.21	-3.58
	miR-377-3p	-3.95	-2.69
	miR-185-5p	-3.89	-2.8
	miR-127-3p	-3.76	-3.32

Comparison of the qRT-PCR and miRNA sequencing log-2 fold change for 20 miRNAs between parental and spheroids. A similar expression trends from both qRT-PCR and miRNA-HTS were observed.

Table S4. The primers used in Real-time PCR

Gene Name	GenBank Accession	Forward Primer	Reverse Primer
<i>CD44</i>	NM_001001392	CTGCCGCTTTGCAGGTGTA	CATTGTGGGCAAGGTGCTATT
<i>CD24</i>	NM_013230	CTCCTACCCACGCAGATTATTC	AGAGTGAGACCACGAAGAGAC
<i>ESA</i>	NM_002354.2	AATCGTCAATGCCAGTGTACTT	TCTCATCGCAGTCAGGATCATAA
<i>CD133</i>	NM_001145848	AGTCGGAAACTGGCAGATAGC	GGTAGTGTTGTACTGGGCCAAT
<i>ALDH1A1</i>	NM_000689	GCACGCCAGACTTACCTGTC	CCTCCTCAGTTGCAGGATTAAAG
<i>c-Myc</i>	NM_002467	GTCAAGAGGCGAACACACAAC	TTGGACGGACAGGATGTATGC
<i>Nanog</i>	NM_024865	TCCTCCTCTTCCTCTATACTAAC	CCCACAATCACAGGCATAG
<i>Sox-2</i>	NM_003106	AACCCCAAGATGCACAACCTC	GCTTAGCCTCGTCGATGAAC
<i>Oct-4</i>	NM_002701.5	GGACCAGTGTCTTTCTCTCT	CCAGGTTTTCTTTCCCTAGC
<i>MDR1</i>	NM_000927	GGGATGGTCAGTGTTGATGGA	GCTATCGTGGTGGCAAACAATA
<i>ABCG2</i>	NM_004827	TGAGCCTACAACCTGGCTTAGA	CCCTGCTTAGACATCCTTTTCAG
<i>GAPDH</i>	NM_001256799	GAGTCAACGGATTTGGTCGT	TTGATTTTGGAGGGATCTCG
<i>BRSK2</i>	NM_003957	ACATCCGCATCGCAGACTTT	CGCAAGTTGTCATCGTCGAAG
<i>TGFB111</i>	NM_015927	TACAGCACGGTATGCAAGCC	GCAACCGATCTAGCTCACAGAG
<i>NR5A2</i>	NM_205860	CTTTGTCCCGTGTGTGGAGAT	GTCGGCCCTTACAGCTTCTA
<i>KLF4</i>	NM_004235	CCCACATGAAGCGACTTCCC	CAGGTCCAGGAGATCGTTGAA
<i>DIP2C</i>	NM_014974	GTCATGGCTCAGACCCACATA	ACACCCGGCTACTTACTGGT
<i>STC1</i>	NM_003155	CACGAGCTGACTTCAACAGGA	GGATGTGCGTTTGATGTGGG
<i>KCNN4</i>	NM_002250	AAGCTCCGGGAACAAGTGAAC	CGCCAGCGTGTCAATCTGT
<i>PRDX1</i>	NM_001202431	CATTCCTTTGGTATCAGACCCG	CCCTGAACGAGATGCCTTCAT
<i>RBM4</i>	NM_002896.3	TACACCATGAGCTATGGGGATT	ATGGCTGTATTCTGGACTTGTG
<i>LDHA</i>	NM_001165415	TTGACCTACGTGGCTTGGAAG	GGTAACGGAATCGGGCTGAAT
<i>WNT5B</i>	NM_032642	GCTTCTGACAGACGCCAACT	CACCGATGATAAACATCTCGGG
<i>PTPN13</i>	NM_080685	TTGCTGCCATCTGGTAGTGTG	TGGTGCAGTGAATGCTCGAAG
<i>P3H2</i>	NM_001134418	AGGGTATAAGGCTGGTCTGTATG	TCCCTCACACATTCATGCTGA
<i>NKAIN2</i>	NM_001040214	ATCAGTGGGCACCTATCCTG	GAGGACTAGCCAGACAGCATA
<i>KDM6A</i>	NM_021140	TTCTTCGGAAGGTGCTATTCA	GAGGCTGGTTGCAGGATTCA
<i>ST6GAL1</i>	NM_173217	AACTCTCAGTTGGTTACCACAGA	GGTGCAGCTTACGATAAGTCTT
<i>PRKDC</i>	NM_001081640	CTGTGCAACTTCACTAAGTCCA	CAATCTGAGGACGAATTGCCT
<i>ECH1</i>	NM_001398	ATAGTGGCTTCTCGCAGACTC	CAGTGAGGCGAAGGCTAATAC
<i>ARPC1B</i>	NM_005720	CAAGGACCGCACCCAGATT	TGCCCGAGGTCACAATACG
<i>CHD5</i>	NM_015557	CCCCATGTCCAAAATGATGACC	GTGACCGTCTCTACAGCCG

Table S5. Validation of 20 up- and down- regulated mRNAs matched to the existing literatures which have been previously reported in pancreatic cancer or other types of cancer by qRT-PCR.

	References				
	mRNA	log2 FC (RNA-Seq)	log2 FC (qRT-PCR)	Pancreatic cancer	Other types of cancer
Up-regulated mRNAs	BRSK2	15.02	5.47	√ [1, 2]	
	TGFB1I1	14.98	3.92		√ [3]
	NR5A2	14.59	7.73	√ [4]	
	KLF4	14.53	4.63	√ [5, 6]	
	DIP2C	14.22	2.92		√ [7]
	STC1	14.22	3.82		√ [8]
	KCNN4	13.08	3.07	√ [9]	
	PRDX1	5.44	2.67	√ [10, 11]	
	RBM4	4.67	2.99		√ [12]
	LDHA	4.32	1.94	√ [13]	
Down-regulated mRNAs	WNT5B	-14.55	-4.77		√ [14]
	PTPN13	-13.86	-4.96		√ [15-17]
	P3H2	-13.35	-2.80		√ [18]
	NKAIN2	-13.12	0.75		√ [19, 20]
	KDM6A	-12.61	-3.52		√ [21, 22]
	ST6GAL1	-12.10	1.08		√ [23]
	PRKDC	-2.94	-2.93	√ [24]	
	ECH1	-2.91	0.19		√ [25]
	ARPC1B	-2.77	-1.74		√ [26, 27]
	CHD5	-1.99	-1.93	√ [28]	

- Guo Z, Tang W, Yuan J, Chen X, Wan B, Gu X, Luo K, Wang Y, Yu L: **BRSK2 is activated by cyclic AMP-dependent protein kinase A through phosphorylation at Thr260.** *Biochem Biophys Res Commun* 2006, **347**:867-871.
- Niu GM, Ji Y, Jin DY, Hou J, Lou WH: **[Clinical implication of BRSK2 expression in pancreatic ductal adenocarcinoma].** *Zhonghua Yi Xue Za Zhi* 2010, **90**:1084-1088.
- Liu Y, Hu H, Wang K, Zhang C, Wang Y, Yao K, Yang P, Han L, Kang C, Zhang W, Jiang T: **Multidimensional analysis of gene expression reveals TGFB1I1-induced EMT contributes to malignant progression of astrocytomas.** *Oncotarget* 2014, **5**:12593-12606.
- Luo Z, Li Y, Zuo M, Liu C, Yan D, Wang H, Li D: **Effect of NR5A2 inhibition on pancreatic cancer stem cell (CSC) properties and epithelial-mesenchymal transition (EMT) markers.** *Mol Carcinog* 2017, **56**:1438-1448.

5. Yu F, Li J, Chen H, Fu J, Ray S, Huang S, Zheng H, Ai W: **Kruppel-like factor 4 (KLF4) is required for maintenance of breast cancer stem cells and for cell migration and invasion.** *Oncogene* 2011, **30**:2161-2172.
6. Nakatake Y, Fukui N, Iwamatsu Y, Masui S, Takahashi K, Yagi R, Yagi K, Miyazaki J, Matoba R, Ko MS, Niwa H: **Klf4 cooperates with Oct3/4 and Sox2 to activate the Lefty1 core promoter in embryonic stem cells.** *Mol Cell Biol* 2006, **26**:7772-7782.
7. Jiao X, Wood LD, Lindman M, Jones S, Buckhaults P, Polyak K, Sukumar S, Carter H, Kim D, Karchin R, Sjoblom T: **Somatic mutations in the Notch, NF-KB, PIK3CA, and Hedgehog pathways in human breast cancers.** *Genes Chromosomes Cancer* 2012, **51**:480-489.
8. Rajaram M, Li J, Egeblad M, Powers RS: **System-wide analysis reveals a complex network of tumor-fibroblast interactions involved in tumorigenicity.** *PLoS Genet* 2013, **9**:e1003789.
9. Jager H, Dreker T, Buck A, Giehl K, Gress T, Grissmer S: **Blockage of intermediate-conductance Ca²⁺-activated K⁺ channels inhibit human pancreatic cancer cell growth in vitro.** *Mol Pharmacol* 2004, **65**:630-638.
10. Taniuchi K, Furihata M, Hanazaki K, Iwasaki S, Tanaka K, Shimizu T, Saito M, Saibara T: **Peroxiredoxin 1 promotes pancreatic cancer cell invasion by modulating p38 MAPK activity.** *Pancreas* 2015, **44**:331-340.
11. Cai CY, Zhai LL, Wu Y, Tang ZG: **Expression and clinical value of peroxiredoxin-1 in patients with pancreatic cancer.** *Eur J Surg Oncol* 2015, **41**:228-235.
12. Markus MA, Yang YH, Morris BJ: **Transcriptome-wide targets of alternative splicing by RBM4 and possible role in cancer.** *Genomics* 2016, **107**:138-144.
13. Cui XG, Han ZT, He SH, Wu XD, Chen TR, Shao CH, Chen DL, Su N, Chen YM, Wang T, et al: **HIF1/2alpha mediates hypoxia-induced LDHA expression in human pancreatic cancer cells.** *Oncotarget* 2017, **8**:24840-24852.
14. Sun D, Qin L, Xu Y, Liu JX, Tian LP, Qian HX: **Influence of adriamycin on changes in Nanog, Oct-4, Sox2, ARID1 and Wnt5b expression in liver cancer stem cells.** *World J Gastroenterol* 2014, **20**:6974-6980.
15. Zhan H, Jiang J, Luo C, Sun Q, Ke A, Sun C, Hu J, Hu Z, Hu B, Zhu K, et al: **Tumour-suppressive role of PTPN13 in hepatocellular carcinoma and its clinical significance.** *Tumour Biol* 2016, **37**:9691-9698.
16. Han X, Xue L, Zhou L, Gong L, Zhu S, Yao L, Wang S, Lan M, Li Y, Zhang W: **The role of PTPN13 in invasion and metastasis of lung squamous cell carcinoma.** *Exp Mol Pathol* 2013, **95**:270-275.
17. Freiss G, Chalbos D: **PTPN13/PTPL1: an important regulator of tumor aggressiveness.** *Anticancer Agents Med Chem* 2011, **11**:78-88.
18. Shah R, Smith P, Purdie C, Quinlan P, Baker L, Aman P, Thompson AM, Crook T: **The prolyl 3-hydroxylases P3H2 and P3H3 are novel targets for epigenetic silencing in breast cancer.** *Br J Cancer* 2009, **100**:1687-1696.
19. Mao X, Luo F, Boyd LK, Zhou B, Zhang Y, Stankiewicz E, Marzec J, Vasiljevic N, Yu Y, Feng N, et al: **NKAIN2 functions as a novel tumor suppressor in prostate cancer.** *Oncotarget* 2016, **7**:63793-63803.
20. Zhao SC, Zhou BW, Luo F, Mao X, Lu YJ: **The structure and function of NKAIN2-a candidate tumor suppressor.** *Int J Clin Exp Med* 2015, **8**:17072-17079.
21. Terashima M, Ishimura A, Wana-Udom S, Suzuki T: **Epigenetic regulation of**

- epithelial-mesenchymal transition by KDM6A histone demethylase in lung cancer cells.** *Biochem Biophys Res Commun* 2017.
22. Ler LD, Ghosh S, Chai X, Thike AA, Heng HL, Siew EY, Dey S, Koh LK, Lim JQ, Lim WK, et al: **Loss of tumor suppressor KDM6A amplifies PRC2-regulated transcriptional repression in bladder cancer and can be targeted through inhibition of EZH2.** *Sci Transl Med* 2017, **9**.
 23. Zhang S, Lu J, Xu Z, Zou X, Sun X, Xu Y, Shan A, Lu J, Yan X, Cui Y, et al: **Differential expression of ST6GAL1 in the tumor progression of colorectal cancer.** *Biochem Biophys Res Commun* 2017, **486**:1090-1096.
 24. Zhou Z, Patel M, Ng N, Hsieh MH, Orth AP, Walker JR, Batalov S, Harris JL, Liu J: **Identification of synthetic lethality of PRKDC in MYC-dependent human cancers by pooled shRNA screening.** *BMC Cancer* 2014, **14**:944.
 25. Dai L, Li J, Tsay JJ, Yie TA, Munger JS, Pass H, Rom WN, Tan EM, Zhang JY: **Identification of autoantibodies to ECH1 and HNRNPA2B1 as potential biomarkers in the early detection of lung cancer.** *Oncoimmunology* 2017, **6**:e1310359.
 26. Kumagai K, Nimura Y, Mizota A, Miyahara N, Aoki M, Furusawa Y, Takiguchi M, Yamamoto S, Seki N: **Arpc1b gene is a candidate prediction marker for choroidal malignant melanomas sensitive to radiotherapy.** *Invest Ophthalmol Vis Sci* 2006, **47**:2300-2304.
 27. Zhou W, Jiang Y, Zhu M, Hang D, Chen J, Zhou J, Dai J, Ma H, Hu Z, Jin G, et al: **Low-frequency nonsynonymous variants in FKBPL and ARPC1B genes are associated with breast cancer risk in Chinese women.** *Mol Carcinog* 2017, **56**:774-780.
 28. Hall WA, Petrova AV, Colbert LE, Hardy CW, Fisher SB, Saka B, Shelton JW, Warren MD, Pantazides BG, Gandhi K, et al: **Low CHD5 expression activates the DNA damage response and predicts poor outcome in patients undergoing adjuvant therapy for resected pancreatic cancer.** *Oncogene* 2014, **33**:5450-5456.

Table S6. Validation up- and down- regulated LncRNAs predicted with potential target genes by qRT-PCR.

LncRNA	log2 FC (RNA-Seq)	log2 FC (qRT-PCR)
RP11-805L22.3	3.26	2.79
RP11-483F11.7	1.35	1.57
RP1-10C16.1	1.25	2.44
RP11-893F2.13	-1.03	-1.64
LINC00106	-1.04	-0.79
RP11-206L10.9	-1.16	-2.20
CTB-129O4.1	-1.27	-1.64
HMGA1P4	-1.28	0.97
RP5-940J5.3	-1.34	-0.56
CTD-3252C9.4	-1.35	-3.12
CTC-444N24.11	-1.48	-2.59
GABPB1-AS1	-1.56	-1.00
RP5-1085F17.3	-1.71	-2.84
RP11-258C19.7	-1.94	-2.32
MEG9	-1.95	-2.67
MEG3	-2.04	-3.52
GS1-124K5.11	-2.26	-0.43
RP11-441O15.3	-2.29	-0.45
CTA-204B4.2	-2.54	-2.81
RP11-211G23.2	-2.60	1.29

TableS7. Overlapped genes and the counts of targeting non-coding RNAs.

symbol	diffGene	miRTar	lncTar	symbol	diffGene	miRTar	lncTar	symbol	diffGene	miRTar	lncTar
UPRT	1	1	0	PCG3A	0	1	0	ZNF841	1	0	0
BRSK2	1	0	0	ZNF793	0	1	0	CACNA1G	1	0	0
TGFB111	1	1	0	FAM214A	0	1	0	SLC52A3	1	0	0
DUSP9	1	0	0	SGR3	0	1	0	ICAM5	1	0	0
CDC126	1	1	0	MTAP	0	1	0	PLCG2	0	1	0
NR5A2	1	1	0	EYA1	0	1	0	SHROOM4	0	1	1
KLF4	1	0	0	S100A6	0	1	0	CHST12	0	1	0
DIP2C	1	0	0	PCDHB3	0	1	0	CALU	0	1	0
STC1	1	1	0	CDC34	0	1	0	LARP6	0	1	1
FANCD2	1	1	1	ATAD2B	0	1	0	PLEKHD1	0	1	0
SLC2A6	1	0	0	TRIM4	0	1	0	FOSL2	0	1	0
MTFR	1	1	0	LYPLA1	0	1	0	FOXJ3	0	1	0
PHF11	1	0	0	NPOC1	0	1	0	TPD52L2	0	1	0
TMEM177	1	1	0	ELF2	0	1	0	FAM13A	0	1	0
PRDM2	1	1	0	WDYHV1	0	1	0	GABARAP	0	1	0
CHN2	1	1	0	SATB1	0	1	0	ZNF70	0	1	0
SCAND1	1	0	0	D1S3	0	1	1	DGKE	0	1	0
HDAC11	1	1	0	ACER2	0	1	0	ATXN3	0	1	0
SLC35A1	1	1	0	PHF20L1	0	1	0	PTH1H	0	1	0
FQLC2	1	1	1	SUSD2	0	1	0	FAM184A	0	1	0
POMZP3	1	0	0	RNF168	0	1	0	ELF4	0	1	0
KCNN4	1	0	0	CSRNP3	0	1	0	BCL2L11	0	1	0
MOSP3	1	0	0	NR2C1	0	1	0	HOXD8	0	1	0
NECAP2	1	1	0	CDC14A	0	1	0	LCOR	0	1	0
MBD1	1	1	0	ADPGK	0	1	0	BACE2	0	1	0
FAM111B	1	1	0	POLR3K	0	1	0	RIC1	0	1	0
MOV10	1	0	0	SRD5A1	0	1	0	CDKL5	0	1	0
ACTBP1	1	0	0	SEMA6D	0	1	0	GHR	0	1	0
DDX19B	1	1	0	LDB3	0	1	0	PRDM1	0	1	0
ARHGEF16	1	0	0	MRPL21	0	1	0	CARKD	0	1	0
RAP1GAP	1	0	0	RMDN2	0	1	0	BECN1	0	1	0
ZNF331	1	0	0	TET1	0	1	0	OXNAD1	0	1	0
GRAMD4	1	1	0	NCALD	0	1	0	CD109	0	1	0
TMEM159	1	1	0	LRCH3	0	1	0	ETV1	0	1	0
ZNF274	1	0	0	LRR12	0	1	0	SORBS1	0	1	0
MB	1	0	0	HMBG1	0	1	0	MTMR4	0	1	0
ACO91053.1	1	0	0	JAK1	0	1	0	SMAD2	0	1	0
CGN1.1	1	1	0	ZNF468	0	1	0	KIAA0556	0	1	0
PTGS1	1	0	0	GABRG3	0	1	0	NKD1	0	1	0
PRDX1	1	0	0	FAM91A1	0	1	0	CHST11	0	1	0
RBM4	1	1	0	BRD7	0	1	0	TJAP1	0	1	0
PTX3	1	0	0	ETS2	0	1	0	RAB31P	0	1	0
TNFSF10	1	0	0	C12orf75	0	1	0	MP1	0	1	0
LDHA	1	0	0	RHOH	0	1	0	NEK6	0	1	0
WTR1	1	1	0	JKAMP	0	1	0	MGAT4C	0	1	0
RANBP3L	1	0	0	ILSRA	0	1	0	GALP	0	1	0
RET	1	1	0	PLEKH3	0	1	0	CSNK1A1	0	1	0
SOWAHB	1	0	0	TTC39A	0	1	0	NFIB	0	1	0
AKR1B1	1	1	0	RAP1B	0	1	1	TMEM30A	0	1	0
ADAMTS1	1	1	0	MKRN2	0	1	0	CYB5RL	0	1	0
CD74	1	1	0	E2F2	0	1	0	SSH2	0	1	0
TTL6	1	1	0	STX6	0	1	0	AMT	0	1	0
RNU5B-1	1	0	0	EXT1	0	1	0	APOL4	0	1	0
CIQTNP1	1	0	0	TXLNG	0	1	0	SHC3	0	1	0
CYP4X1	1	0	0	SPTB	0	1	0	UGGT1	0	1	0
KIAA0040	1	0	0	CARD8	0	1	0	WNT2	0	1	0
MRAP2	1	0	0	R3HDM4	0	1	0	ENAH	0	1	0
PCDH20	1	0	0	ZNF81	0	1	0	CCDC7	0	1	0
LCN2	1	0	0	CSRNP1	0	1	0	ELAVL4	0	1	0
PCDH9	1	1	0	NDUFA9	0	1	0	SRGAP3	0	1	0
KCNE4	1	0	0	ANOS1	0	1	0	RS1	0	1	0
IGF2	1	0	0	RASA2	0	1	0	GYPD	0	1	0
RGS4	1	1	0	RAP1A	0	1	0	PROX1	0	1	0
TPPP3	1	0	0	EFCA14	0	1	0	PLPP5	0	1	0
SAA1	1	0	0	KIF3A	0	1	0	LHX4	0	1	0
PPP1R3C	1	1	0	RAN	0	1	0	F13A1	0	1	0
KCNK5	1	0	0	ZNF320	0	1	0	PSMA2	0	1	0
CD44	1	1	0	DUSP28	0	1	0	ZXDB	0	1	0
ATRN1	1	1	0	PTGDR	0	1	0	ZNF230	0	1	0
KLRC3	1	0	0	DLR	0	1	0	OAS1	0	1	1
SCNN1B	1	1	0	PEX5L	0	1	0	SLC9A5	0	1	0
SPTSSB	1	1	0	SV2C	0	1	0	RNF144B	0	1	0
SEPW1	1	0	0	TBC1D14	0	1	0	KAT6A	0	1	0
RNU5A-1	1	0	0	BAZ1B	0	1	0	TM4SF1	0	1	0
CAMK2N1	1	0	0	TAL1	0	1	0	TANK	0	1	0
ZNF853	1	0	0	SAMD8	0	1	0	SP1RE1	0	1	0
RGS2	1	1	0	DCDC2	0	1	0	RDX	0	1	0
EB13	1	0	0	FOSB	0	1	0	HGF	0	1	0
SLC4A11	1	1	0	IP07	0	1	0	ELP5	0	1	0
RAB9B	1	1	0	PPP1R8	0	1	0	WARS	0	1	0
RPL36A	1	1	0	SOX6	0	1	0	CEP135	0	1	0
MRPS6	1	1	0	POLR2M	0	1	0	KDF1	0	1	0
KCNK3	1	1	0	COX16	0	1	0	PLCB1	0	1	0
CXCL8	1	1	0	ONCUT2	0	1	0	MANSC1	0	1	1
CDX2	1	0	0	8-Sep	0	1	0	NOS1	0	1	0
SNORA8	1	0	0	PPP1R12B	0	1	0	PTPRT	0	1	0
H1D1	1	1	0	VPS13C	0	1	0	ADH4	0	1	0
THY1	1	1	0	PDK1	0	1	0	NBRF2	0	1	0
ZSWIM3	1	0	0	ZNF662	0	1	1	ZMYND11	0	1	0
AGR2	1	0	0	GPR63	0	1	0	PPP1R9A	0	1	0
HS3ST1	1	1	0	ZNF549	0	1	0	CENP1	0	1	0
HES1	1	0	0	SLC9B2	0	1	0	WNT2B	0	1	0
H19	1	0	0	DYRK1A	0	1	0	FAM71F2	0	1	0
FRMD4B	1	0	0	CTSF	0	1	0	ZNF383	0	1	0
SCNN1G	1	0	0	SSBP2	0	1	0	PDE11A	0	1	0
RNY1	1	0	0	LINGO2	0	1	0	CELF3	0	1	0
E1F4G2	1	0	0	ASCC3	0	1	0	TOM1	0	1	0
A2M	1	0	0	ZNF518A	0	1	0	PP1P5K1	0	1	0
CCL5	1	1	0	MSH6	0	1	0	PARM1	0	1	0
KCNB1	1	1	0	PPP144	0	1	0	6-Sep	0	1	0
PPM1H	1	1	0	RRN3	0	1	0	RC3H1	0	1	0
LPAR3	1	1	0	PLXNA4	0	1	0	DCAF12	0	1	0
RROU	1	0	0	MTF2	0	1	0	TNKS2	0	1	0
PCDH18	1	1	0	LIN28A	0	1	0	GREM1	0	1	0
IGFBP3	1	0	0	SPINT1	0	1	0	BCL2L13	0	1	0
CHGB	1	0	0	RNF165	0	1	0	GPCPD1	0	1	0
CD83	1	0	0	ZFP30	0	1	0	GPFC	0	1	0
PLPP3	1	1	0	METTL14	0	1	0	TEX15	0	1	0
SRGN	1	0	0	BMP3	0	1	0	SLC7A1	0	1	0
COMMD10	1	1	0	ZMAT2	0	1	0	PHLDB1	0	1	0
RN7SKP90	1	0	0	PDGFRC	0	1	0	CTNND1	0	1	0
TMPPRSS2	1	1	0	DDHD2	0	1	0	VAMP4	0	1	0
TSC22D3	1	0	0	ARL14	0	1	0	PCDH19	0	1	0
RNU5E-1	1	0	0	YOD1	0	1	0	MPDU1	0	1	0
CDKN1A	1	0	0	ABHD14B	0	1	0	ADRE2	0	1	0
CITED2	1	1	0	DAPP1	0	1	0	GALNT16	0	1	0
ST5	1	0	0	GCNT2	0	1	0	SLC35E2B	0	1	0
SCG2	1	0	0	ZNF555	0	1	0	NHS1	0	1	0
TNC	1	1	0	STYX	0	1	0	ORMDL1	0	1	0
BUD31	1	0	0	SUP13H	0	1	0	ZC3H10	0	1	0
EPHA7	1	1	0	ARHGEF12	0	1	0	NUDT10	0	1	0
TMEM150C	1	1	0	BAX	0	1	0	JADE1	0	1	0
AQP3	1	1	0	BPY2B	0	1	0	MMP13	0	1	0
YAE1D1	1	0	0	VAMPR	0	1	0	FMNL2	0	1	0
ALG8	1	1	0	UGT2A3	0	1	0	AMD1	0	1	0
RF11-10G12.1	1	0	0	CTAG1S	0	1	0	RASSF5	0	1	0
NPTX1	1	1	0	SLC12A5	0	1	0	CALN1	0	1	0
GLUL	1	1	0	SPATA13	0	1	0	ERO1A	0	1	0
TSPAN6	1	1	0	MYCN	0	1	0	CCDC83	0	1	0
FRK	1	1	0	CPC1	0	1	0	MIB1	0	1	0
ACTG1	1	0	0	GLCL	0	1	0	ZFP90	0	1	0
PPP4R4	1	1	0	POU5F1B	0	1	0	TRIO	0	1	0
SLC5A5	1	1	0	SCUBE3	0	1	0	PCYT1A	0	1	0
FAM46C	1	0	0	FAM46B	0	1	0	DCY4	0	1	0
DEPTOR	1	0	0	POLR1B	0	1	0	TMEM220	0	1	0
SPAG5	1	0	0	ACTBL2	0	1	0	DCP2	0	1	0
EDARADD	1	1	0	PEX26	0	1	0	UGT1A1	0	1	1
RNF152	1	1	0	TNFAIP8	0	1	0	PAX1P1	0	1	0
PLEKHG1	1	1	0	RSAD1	0	1	0	PRC1	0	1	0
SLC35F3	1	1	0	SYNCRIP	0	1	0	USP13	0	1	0
HYST4H4	1	0	0	SYS1	0	1	0	TGM2	0	1	0
TSGAL1	1	1	0	EHMT1	0	1	0	ADD2	0	1	0
KRT8	1	1	0	PAM	0	1	0	MYO10	0	1	0
CXCL1	1	0	0	MLF1	0	1	0	ATP8A1	0	1	0
RGL1	1	1	0	PARP3	0	1	0	SUDS3	0	1	0
MUS81	1	0</									

ATP1B1	1	0	0	C1orf43	0	1	0	TTC17	0	1	0
ZNF704	1	1	0	PDP	0	1	0	PROX2	0	1	0
RNU4-2	1	0	0	PAAF1	0	1	0	IAH1	0	1	0
CNNM1	1	1	0	CD226	0	1	0	STXBP3	0	1	0
CDR2L	1	1	0	LG11	0	1	0	CNGB1	0	1	0
HDLRP	1	1	0	CEP68	0	1	0	VAMP3	0	1	0
NFKB1A	1	0	0	WDR48	0	1	0	NDUFB5	0	1	1
GPX1	1	1	0	KPRK1	0	1	0	P1GP	0	1	0
TR1B1	1	1	0	KCTD3	0	1	0	GAN	0	1	0
STOX1	1	1	0	SLC12A2	0	1	0	XKR7	0	1	0
KRCC1	1	1	0	IP6K2	0	1	0	CEP126	0	1	0
IL17RB	1	0	0	ILDR2	0	1	0	MCM6	0	1	0
CALM1	1	1	0	RPLP1	0	1	0	WDR76	0	1	0
ARSD	1	1	0	U2SURP	0	1	0	MDH1	0	1	0
SOD2	1	1	0	RIPK1	0	1	0	ADAMTSL1	0	1	0
U1	1	0	0	PHC3	0	1	0	ZNF26	0	1	0
NET1	1	0	0	MS12	0	1	0	KLRD1	0	1	1
TR1B2	1	1	0	QSOX2	0	1	0	SLC41A2	0	1	0
THBS1	1	0	0	CFC1B	0	1	0	APOL6	0	1	0
C5orf45	1	1	0	C8orf34	0	1	1	RPS15A	0	1	0
GJB2	1	0	0	SLC38A1	0	1	0	STK17B	0	1	0
ENPF1	1	1	0	SPPL2A	0	1	0	SOAT1	0	1	0
ALDH3A2	1	1	0	MBDAT2	0	1	0	HECA	0	1	0
TM4SF18	1	1	0	ZNF561	0	1	0	MED13L	0	1	0
HLA-B	1	0	0	RAB21	0	1	0	RUNX2	0	1	0
APLP2	1	1	0	HPSE	0	1	0	CDC127	0	1	0
ARFGEF3	1	1	0	PCHO2	0	1	0	AH1	0	1	0
S100A9	1	0	0	GDPD1	0	1	0	ZNF354C	0	1	0
BMP7	1	0	1	MKLN1	0	1	0	CLLU1	0	1	0
2-Sep	1	1	0	WHSC1	0	1	0	MPPE1	0	1	0
ARMC9	1	1	0	RPL14C	0	1	0	CDH7	0	1	0
Metazoa SRP	1	0	0	CDC174	0	1	0	HHIP1	0	1	0
R1MKLA	1	1	0	PPP2R2B	0	1	0	HNRNP43	0	1	0
ISCA1	1	1	0	CHP1	0	1	0	PUS7	0	1	0
FAM84B	1	1	0	LPAR2	0	1	0	PP1AL4G	0	1	0
PEBP1	1	0	0	RAB27B	0	1	0	RFXAP	0	1	0
SLC2A12	1	0	0	CNKR3	0	1	0	SMARCA5	0	1	0
NDRG1	1	0	0	PS1L1	0	1	0	ESPL1	0	1	0
ZNF436	1	1	0	RBML1	0	1	0	GLDN	0	1	0
CCL2	1	0	0	RBM15B	0	1	0	RNF150	0	1	0
CAMP	1	0	0	CHST15	0	1	0	SPATA17	0	1	0
GDF15	1	0	0	LIFR	0	1	0	PLPP6	0	1	0
AHNAK	1	1	0	CPEB4	0	1	0	FAM171B	0	1	0
RP11-453D16	1	0	0	ANKFY1	0	1	0	VPS26A	0	1	0
AK4	1	0	1	ESR1	0	1	0	NOL10	0	1	0
7SK	1	0	0	ARFIP1	0	1	0	ZNF812	0	1	0
RPL39L	1	0	0	FGFR2	0	1	1	PANK2	0	1	0
TR1M21	1	0	0	TOP3B	0	1	0	PPP1R14C	0	1	0
TMEM38A	1	1	0	C3orf70	0	1	0	ARFGEF2	0	1	0
TSPAN13	1	1	0	SLC35F6	0	1	0	CHIC1	0	1	0
SCARNA2	1	0	0	RALGPS2	0	1	0	CDC85B	0	1	0
TOR1A	1	1	0	FAM204A	0	1	0	FAM136A	0	1	0
MARCKSL1	1	1	0	FAM118A	0	1	1	CCDC171	0	1	0
ENO1	1	0	0	ZNF316	0	1	0	MYOZ3	0	1	1
RN7SKP255	1	0	0	BAG5	0	1	0	FECH	0	1	0
RN7SL471P	1	0	0	MTFRF1	0	1	0	GGA1	0	1	0
RN7SKP203	1	0	0	SP1DR	0	1	0	SLC5A3	0	1	0
HIST2H2AC	1	0	0	MPRI1	0	1	0	PEL12	0	1	0
COPR5	1	1	0	ZBTB37	0	1	0	ME2	0	1	0
HTRA1	1	0	0	ROBO2	0	1	0	PEX2	0	1	0
PK4	1	1	0	PTCD2	0	1	0	FMN1	0	1	0
RNU4-1	1	0	0	TOR1AIP2	0	1	0	ATAD1	0	1	0
SOX4	1	0	0	ROBB	0	1	0	CNDBP1	0	1	0
RPL34P31	1	0	0	LEPR	0	1	0	ZNF770	0	1	0
PL1N2	1	0	0	TCF11L2	0	1	0	IL17RD	0	1	0
ANK1	1	0	1	GLYT1	0	1	0	SORD	0	1	0
CBL	1	1	0	IGDCC4	0	1	0	VAV3	0	1	0
CITED4	1	1	0	SNTN	0	1	0	CFAP43	0	1	0
ZNF462	1	1	0	KD1NS22C	0	1	0	KDM3B	0	1	0
APTXN1	1	1	0	AP1S1	0	1	0	IDP2	0	1	0
IFFO2	1	1	0	ZKSCAN8	0	1	0	SMG9	0	1	0
ZNF37BP	1	0	0	SENP2	0	1	1	LRR7M2	0	1	0
RNF5F1	1	0	0	RBMX	0	1	0	SORCS1	0	1	0
TR1M25	1	1	0	DCUN1D1	0	1	0	TMEM154	0	1	0
DNMBP	1	1	0	DUSP3	0	1	0	EPG5	0	1	0
R3HDM2	1	0	0	SMURF1	0	1	0	DCAF7	0	1	0
B4GALTL1	1	0	0	ZNF568	0	1	0	PRR27	0	1	0
SLC7A5	1	1	0	ZNF71	0	1	0	AP3B2	0	1	0
HYPK	1	1	0	PNPLA4	0	1	0	URM1	0	1	0
ABNTXR1	1	1	0	HRH1	0	1	0	GNAT2	0	1	0
SK1	1	1	0	TRDN	0	1	0	PFDA4	0	1	0
KCNK6	1	1	0	C2CD2	0	1	0	CTBP2	0	1	0
VPS13D	1	1	0	SCA3B	0	1	0	SNAX	0	1	0
LIF	1	1	0	HTATSF1	0	1	0	C5orf42	0	1	0
WSB1	1	1	0	WHSC1L1	0	1	0	TPM3	0	1	0
COL5A2	1	1	0	KANSL1L	0	1	0	P1K3C3	0	1	0
DGKD	1	1	0	SLC17A5	0	1	0	VPS53	0	1	0
ZZEF1	1	1	0	TEAD1	0	1	0	CHRFAM7A	0	1	0
STMN3	1	0	0	UMODL1	0	1	0	PEAK1	0	1	0
TLCD2	1	1	0	ANKA7	0	1	0	IRAK1BP1	0	1	0
STARD9	1	1	0	SFTY2D1	0	1	0	SIRPA	0	1	0
RPL21P3	1	0	0	C1orf210	0	1	1	CNTNAP2	0	1	0
P3H2	1	0	0	GPR180	0	1	0	IL1RAP	0	1	0
RNF213	1	1	0	PRKCH	0	1	0	FAM65C	0	1	0
SMG1	1	0	0	BFSF1	0	1	0	SLC44A1	0	1	0
PPP1R14A	1	0	0	TLE1	0	1	0	GPAT3	0	1	0
SP1	1	1	0	ADAM28	0	1	0	TCEB1	0	1	1
C1T1	1	1	0	NALCN	0	1	0	GRIN2A	0	1	0
IGF2BP1	1	1	0	N1PAL4	0	1	0	PCYT1B	0	1	0
ABL2	1	1	0	SLC10A7	0	1	0	RBMS2	0	1	0
CDCP1	1	1	0	ZNF451	0	1	0	NEMP1	0	1	0
MOK	1	1	0	FLVCR2	0	1	0	ATP5G3	0	1	0
AFAP1	1	1	0	CDC5L	0	1	0	ANKRD13A	0	1	0
EVG	1	0	0	LRRIC34	0	1	0	LLfcs-48E	0	1	0
RNP4-725G10.3	1	0	0	CNOT6L	0	1	0	DCC	0	1	0
ABC2	1	1	0	LRPAP1	0	1	0	BST1	0	1	1
STX16	1	1	0	NQO2	0	1	0	SSPN	0	1	0
CEP250	1	1	0	SEMA4A	0	1	0	KCMF1	0	1	0
FOXK1	1	1	0	ERCC8	0	1	0	CADM2	0	1	0
AGO2	1	1	0	MYO5A	0	1	0	ALPK3	0	1	0
ITPR3	1	0	0	PI1THD1	0	1	0	HRK	0	1	0
CAV1	1	1	0	PHF6	0	1	0	CEP85	0	1	0
GATAD2B	1	1	0	HIST1H2BN	0	1	0	C14orf166	0	1	0
ANKRD28	1	1	0	LNPEP	0	1	0	SCN1A	0	1	0
PLC1	1	1	1	ABL1M3	0	1	0	TMEM106B	0	1	0
APK2	1	0	0	GP1BA	0	1	0	HDAC9	0	1	0
PDP2	1	1	0	POGZ	0	1	0	SLC36A4	0	1	0
TR1M56	1	1	0	PIK3CB	0	1	0	MS4A14	0	1	0
H6PD	1	1	0	SERAC1	0	1	1	SERBP1	0	1	0
PPDPF	1	0	0	PCDH5A	0	1	0	NCR3LG1	0	1	0
ARL61P1	1	0	0	SULT1C4	0	1	0	ANKRD44	0	1	0
UGCG	1	1	0	TNFRSF19	0	1	0	FARP1	0	1	0
TRC1D9B	1	1	0	GTF2I	0	1	0	CDHR1	0	1	0
LONRF2	1	1	0	CENPJ	0	1	0	CXCR5	0	1	0
FLNA	1	0	0	GRIK3	0	1	0	CXCL12	0	1	0
CELSR3	1	1	0	LMBB2	0	1	0	CNKNK12	0	1	0
CDC162P	1	0	0	PSD4	0	1	0	TERF1	0	1	0
TGFB1	1	0	0	PRELID3B	0	1	0	SLC16A7	0	1	0
MAVS	1	1	0	SMARCAP1	0	1	0	ENTPD5	0	1	0
SYNE3	1	1	0	CTSB	0	1	1	SMARCC1	0	1	0
ACACA	1	0	0	ZFP57	0	1	0	ATP11B	0	1	0
KIAA1549L	1	1	0	GMEB1	0	1	0	TRIM59	0	1	0
DST	1	1	0	DISP2	0	1	0	MOCS2	0	1	0
MGAT4B	1	0	0	FLRT2	0	1	0	DLX4	0	1	0
ATHL1	1	1	0	DTWD1	0	1	0	HERC4	0	1	0
WNT7B	1	1	0	ZSCAN30	0	1	0	TRIL	0	1	0
CYR61	1	0	0	C10orf10	0	1	0	GAD2	0	1	0
NTSDC3	1	1	0	VWC2	0	1	0	TMEM181	0	1	0
EFEMP2	1	0	0	PTPN5	0	1	0	IL1R1	0	1	0
AR1D1A	1	0	0	CDC42SE1	0	1	0	MSR1	0	1	0
CTC-338M12.4	1	0	0	CNC5	0	1	0	ZNF470	0	1	0
PGAP2	1	1	0	PRKAA2	0	1	0	ZBTB8B	0	1	0
KLF16	1	1	0	RAD54B	0	1	0	LRR74A	0	1	0
MYBL1	1	0	0	TMEM200C	0	1	0	C2orf191	0	1	0
ZNF621	1	1	0	KEAP1	0	1	0	ZNF761	0	1	1
GIGYF1	1	1	0	METTL2B	0	1	1	TSPAN11	0	1	0

PSMD2	1	0	0	TBC1D29	0	1	0	CBLB	0	1	0
BSN	1	1	0	GJD2	0	1	0	TESPA1	0	1	0
IQGAF3	1	1	0	TMEM170B	0	1	0	EPF2K	0	1	0
FASN	1	1	0	OPRD1	0	1	0	NREP	0	1	0
POLR2H	1	0	0	EFHD1	0	1	0	NF1	0	1	0
SOGA1	1	1	0	TRIM35	0	1	0	GABRB2	0	1	0
PNP1P2	1	0	0	ATF6	0	1	0	UPF1	0	1	0
XPNPEP2	1	1	0	SLC25A23	0	1	0	ERBB3	0	1	0
UBE2G2	1	1	0	NOL8	0	1	0	TMOD3	0	1	0
EP400	1	1	0	KIF1BP	0	1	0	VSTM4	0	1	1
SUPT5H	1	0	0	PIP5K1A	0	1	0	ABI2	0	1	0
TMFP2	1	1	0	TM9SF3	0	1	0	C12orf66	0	1	0
MYO18A	1	1	0	ACP6	0	1	0	SSTR2	0	1	0
EHD2	1	1	0	QTRTD1	0	1	0	DTX3L	0	1	0
ULK1	1	1	0	OTUD3	0	1	0	AEBP2	0	1	0
ARSK	1	0	0	SPCC1	0	1	0	POP7	0	1	0
KIFS5A	1	1	0	POLR1A	0	1	0	ENDOU	0	1	0
TNFSF9	1	0	0	HMGCLL1	0	1	0	WHAMM	0	1	0
ACO93838.4	1	0	0	PTGS2	0	1	0	RETNLB	0	1	0
HSPG2	1	0	0	N4BP2L2	0	1	0	URR1	0	1	0
CHD5	1	1	0	SGR2	0	1	0	MARK4	0	1	0
DHRS3	1	0	0	KIAA1549	0	1	0	LRRF1P1	0	1	0
MYADM	1	1	0	OLFML2A	0	1	0	INTS7	0	1	0
SYT1	1	1	0	AFF3	0	1	0	SCNN1A	0	1	0
MAPK8IP3	1	1	0	CCNH	0	1	0	FTO	0	1	0
ST6GALNAC4P1	1	0	0	CD52	0	1	0	SEMA6C	0	1	0
NCOR1	1	1	0	DENND4A	0	1	0	KIF15	0	1	0
FOSL1	1	0	0	ZNF766	0	1	1	SECISBP2L	0	1	0
STAG3L3	1	0	0	CCDC25	0	1	0	LRRC2	0	1	0
RP11-488L18.1	1	0	0	FAM227A	0	1	0	SV2A	0	1	1
LIMD1	1	1	0	CCPG1	0	1	0	PLCH1	0	1	0
KIAA1522	1	1	0	QRFP	0	1	0	SLC35A5	0	1	0
TRAPP1C11	1	1	0	COG8	0	1	0	SATB2	0	1	0
NAP1L1	1	1	0	C1orf226	0	1	0	CDKN2B	0	1	0
AHNAK2	1	0	0	CLDN12	0	1	0	TARDBP	0	1	0
EML2	1	0	0	RHOQ	0	1	0	ATP5E	0	1	0
ASAP1	1	1	0	CCDC3	0	1	0	GPATCH2	0	1	0
RPS17	1	0	0	SEC22B	0	1	0	GNL1	0	1	0
AMOTL2	1	1	0	MFSD8	0	1	0	C10orf76	0	1	1
RPL36AP21	1	0	0	FAM229B	0	1	0	MDM1	0	1	0
SH2D5	1	1	0	BCAP29	0	1	0	CD79A	0	1	0
SRGAP1	1	1	0	BLMH	0	1	0	SRGAP2B	0	1	0
HELB	1	1	0	SLC3A1	0	1	0	C12orf57	0	1	0
TRIP12	1	1	0	UBAC2	0	1	0	CEP152	0	1	0
SRRM2	1	0	0	NKRC2	0	1	0	P14K2B	0	1	0
RP11-274B21.1	1	0	0	SCN8A	0	1	0	RABEP1	0	1	0
MK167	1	1	0	DDX26B	0	1	0	KPNA5	0	1	0
MNT	1	1	0	SLC46A3	0	1	0	FGL2	0	1	1
NF1C	1	1	0	PRKAR1A	0	1	0	TSEN2	0	1	0
COL11A1	1	1	0	CREBRF	0	1	0	NT5DC1	0	1	0
AXL	1	1	1	GMPS	0	1	0	RGS5	0	1	0
HECTD4	1	1	0	TLL7	0	1	0	WDR13	0	1	0
CMIP	1	1	0	ACTR2	0	1	0	SDR42E1	0	1	0
RNTSL396P	1	0	0	FAM76B	0	1	0	NR1P2	0	1	0
CUX2	1	1	0	BET1	0	1	0	PLEKHA3	0	1	0
NRP2	1	1	0	NOL9	0	1	1	TRIM72	0	1	0
ONECUT3	1	1	0	LRCH2	0	1	0	THAP6	0	1	0
GRIN2D	0	1	0	METTL8	0	1	0	HTRF1P	0	1	0
ATN1	1	0	0	GK5	0	1	0	CREBL2	0	1	0
ANPEP	1	1	0	AFF4	0	1	0	PRDM5	0	1	0
DOCK5	1	1	0	POU4F1	0	1	0	MEIS1	0	1	0
CRISPLD2	1	1	0	MLLT3	0	1	0	ANAPC15	0	1	0
AHDC1	1	0	0	MAP3K2	0	1	0	FLBPP3	0	1	0
TRIM66	1	1	0	RNF217	0	1	0	CPEB3	0	1	0
CLK1	1	1	0	SIM1	0	1	0	HSPA12A	0	1	0
FER1L4	1	0	0	HNKNPM	0	1	0	EPMA2	0	1	0
KMT2D	1	1	0	MAPK4	0	1	0	RFAP2	0	1	0
BCL9L	1	1	0	OPRL1	0	1	0	TBCD	0	1	0
CD70	1	0	0	FNDC4	0	1	0	RPS3	0	1	0
CRIPAK	1	0	0	PCGF5	0	1	0	SQRDL	0	1	0
BAHCC1	1	1	0	ARL6	0	1	0	CLOCK	0	1	0
RPLP0	1	1	0	PAK3	0	1	0	SHQ1	0	1	0
ADGRG6	1	0	0	ZNF641	0	1	0	STMN4	0	1	0
ANKRD20A4	1	1	0	THPO	0	1	0	RASAL2	0	1	0
G1PR	1	1	0	NTRK2	0	1	0	USP13	0	1	0
SETD1B	1	1	0	GPAM	0	1	0	TGM2	0	1	0
GPRC5A	1	1	0	NR1I3	0	1	0	ADD2	0	1	0
ZFP36	1	0	0	TAOK1	0	1	0	MYO10	0	1	0
RP11-463012.1	1	0	0	C16orf87	0	1	0	ATPSA1	0	1	0
SUMO1P4	1	1	0	FDX1	0	1	0	SUDS3	0	1	0
PTK6	1	1	0	DEFB118	0	1	0	PNMAL2	0	1	0
MYPN	1	1	0	ABHD17C	0	1	0	HIST1H4E	0	1	0
PPLEC	1	1	0	PPKFB2	0	1	0	FBXO36	0	1	0
ITGB4	1	0	0	GNFNTA1	0	1	1	TTC17	0	1	0
CACNG8	1	1	0	C2orf49	0	1	0	PROX2	0	1	0
MDM4	1	1	0	FAM134C	0	1	0	IAH1	0	1	0
GJC1	1	1	0	CPNE3	0	1	0	STXBP3	0	1	0
NBPFI5	1	1	0	SYNJ1	0	1	0	CNGB1	0	1	0
HDGFP1	1	0	0	DACT3	0	1	1	VAMP3	0	1	0
SSC5D	1	1	0	TMEM245	0	1	0	NDUF5	0	1	1
FTH1	1	0	0	ANKRD34B	0	1	0	PIGP	0	1	0
GSDMB	1	1	0	RHOJ	0	1	0	GAN	0	1	0
D2HGDH	1	1	0	GTF2A1	0	1	0	XKR7	0	1	0
SYNPO	1	1	0	MRPL42	0	1	0	CEP126	0	1	0
RP11-146D12.1	1	0	0	SMG5	0	1	0	MCM6	0	1	0
RP11-707023.1	1	0	0	PAIP2B	0	1	0	WDR76	0	1	0
LENG8	1	1	0	WISP1	0	1	0	MDH1	0	1	0
RP11-384K6.6	1	0	0	KDM3A	0	1	0	ADAMTSL1	0	1	0
INF2	1	1	0	SMU1	0	1	0	ZNF26	0	1	0
MICAL2	1	1	0	DDI1	0	1	0	KLRD1	0	1	1
ARHGAP19	1	1	0	DLG5	0	1	0	SLC41A2	0	1	0
BEGAIN	1	0	0	GPR153	0	1	0	APOL6	0	1	0
PKD1	1	1	0	FCGR3B	0	1	0	RPS15A	0	1	0
MRP152	1	1	1	SMIM19	0	1	0	KLIF17B	0	1	0
RANP4	1	0	0	VPS13B	0	1	0	SOAT1	0	1	0
ARPC1B	1	0	0	ARHGAP28	0	1	0	HECA	0	1	0
APIS3	1	1	1	ANKRD13C	0	1	0	MED13L	0	1	0
CLTC	1	1	0	PAPLN	0	1	0	RUNX2	0	1	0
ECH1	1	0	0	SOC57	0	1	0	CCDC127	0	1	0
PRKDC	1	0	0	DMRTA1	0	1	0	AHI1	0	1	0
HSPA4	1	1	0	PP1C	0	1	0	ZNF354C	0	1	0
PTMA	1	1	0	NUGC	0	1	1	CLLU1	0	1	0
NPIPB11	1	1	0	MDGA2	0	1	0	MPP1E	0	1	0
EEF1A1	1	0	0	TRIM71	0	1	0	CDH7	0	1	1
FGFBP1	1	0	0	P2RY11	0	1	0	HHIPL1	0	1	0
ST6GAL1	1	1	0	ZBTB43	0	1	0	HNRP3A3	0	1	0
C15orf52	1	1	0	CADM1	0	1	0	PUS7	0	1	0
MFSD1	1	0	0	TP53BP1	0	1	0	PP1AL4G	0	1	0
TMEM201	1	1	0	PD1A3	0	1	0	RFXAP	0	1	0
ZNF324B	1	0	0	CFAP97	0	1	0	SMARCA5	0	1	0
DERA	1	0	0	RGCS9BP	0	1	0	ESPL1	0	1	0
RFK	1	0	0	TRIM27	0	1	0	GLDN	0	1	0
MTHFD1L	1	1	0	AMER2	0	1	0	RNF150	0	1	0
KDM6A	1	1	0	PTPN4	0	1	0	SPATA17	0	1	0
LIG1	1	1	0	REEP3	0	1	0	PLPP6	0	1	0
SMN2	1	0	0	FOXO1	0	1	0	FAM171B	0	1	0
ZFP64	1	0	0	BAP1	0	1	0	STMN4	0	1	0
PTBP2	1	1	0	GALNT10	0	1	0	RASAL2	0	1	0
WDR35	1	1	0	TMEM206	0	1	0	KIF15	0	1	0
KIAA0922	1	1	0	FBXO22	0	1	0	SECISBP2L	0	1	0
ZNF573	1	0	0	LIPG	0	1	0	LRRC2	0	1	0
NBPFI10	1	0	0	RBBP6	0	1	0	SV2A	0	1	1
NABP1	1	1	0	SBSPO	0	1	0	PLCH1	0	1	0
NKAIN2	1	1	0	DHRS7	0	1	0	SLC35A5	0	1	0
ZC3HC1	1	1	0	CHRNA7	0	1	0	SATB2	0	1	0
ATP5D	1	0	0	SLC38A11	0	1	0	CDKN2B	0	1	0
FAM195B	1	0	0	E1F4E	0	1	0	TARDBP	0	1	0
FNBP1	1	1	0	E1F3M	0	1	0	ATP5E	0	1	0
AGAP6	1	0	0	CCDC73	0	1	0	GPATCH2	0	1	0
PTPN13	1	0	0	SOC56	0	1	0	GNL1	0	1	0
NCK1P5D	1	1	0	MFAP3L	0	1	0	C10orf76	0	1	1
TRPCD1	1	0	0	HMGR	0	1	0	MDM1	0	1	0
ZBED1	1	1	1	SLC25A40	0	1	0	CD79A	0	1	0
STEAP2	1	1	0	ALPK1	0	1	0	SRGAP2B	0	1	0
NECAP1	1	1	0	ABCC3	0	1	0	C12orf57	0	1	0
P1F1	1	0	0	CEP78	0	1	0	CEP152	0		