

## Supplementary Table S1: Sheet1 – KCL TNBCs

111 KCL TNBCs

PatientID	Tumour Cell Content *	Lymphocytic Cell Content*	Nielsen Criteria	Tumour Size	Histological Grade	PAM50	Tumour Necrosis	Tumour Fibrosis	Age	Age (categorised)	DMFS time (yrs)	DMFS event	SCINS cluster	Chromothripsis-like case
P_100203	Middle	High	Core basal	T1	3	Basal	NO NECROSIS	NO FIBROSIS	28.8	below50	12.569 86301	0	HiCnLOH	FALSE
P_100208	High	None	NA	T2	2	Normal	NO NECROSIS	NO FIBROSIS	44.6	below50	9.5835 61644	0	LoSCINS	FALSE
P_90128	High	None	NA	T2	3	NA	NO NECROSIS	FIBROSIS	45.1	below50	0.8219 17808	1	-	FALSE
P_100159	Middle	High	NA	T2	3	Basal	NECROSIS	FIBROSIS	54.2	over50	15.931 50685	0	HiCnLOH	FALSE
P_100211	Middle	Middle	Five-marker negative	T2	3	Basal	NECROSIS	NO FIBROSIS	54.9	over50	10.657 53425	0	HiAiCNA	FALSE
P_100215	High	Low	Core basal	T2	3	Normal	NO NECROSIS	FIBROSIS	77.5	over50	0.7890 41096	0	LoSCINS	FALSE
P_100246	High	Middle	Five-marker negative	T2	3	NA	NO NECROSIS	FIBROSIS	41.1	below50	12.191 78082	0	-	TRUE
P_100253	Middle	High	Core basal	T2	3	Basal	NECROSIS	NO FIBROSIS	84.4	over50	2.5643 83562	0	HiAiCNA	FALSE
P_100271	High	Low	NA	T2	3	Basal	NECROSIS	FIBROSIS	46.1	below50	19.095 89041	0	HiAiCNA	FALSE
P_100212	High	None	Five-marker negative	T1	3	Luminal A	NECROSIS	NO FIBROSIS	45.4	below50	9.6547 94521	0	HiAiCNA	FALSE
P_100035	Middle	Middle	Five-marker negative	NA	3	NA	NECROSIS	FIBROSIS	50.6	over50	18.717 80822	1	-	FALSE
P_100164	High	Middle	NA	T2	3	Basal	NECROSIS	NO FIBROSIS	44.3	below50	8.9643 83562	0	LoSCINS	FALSE
P_100249	Middle	High	Five-marker negative	T2	3	Basal	NO NECROSIS	NO FIBROSIS	51.2	over50	10.498 63014	0	HiCnLOH	FALSE
P_100036	Middle	Middle	Five-marker negative	T1	3	NA	NECROSIS	NO FIBROSIS	66.6	over50	0	1	-	FALSE
P_100165	High	Middle	Five-marker negative	T1	3	Basal	NA	NA	62.1	over50	9.9424 65753	0	HiAiCNA	FALSE
P_100221	High	None	Five-marker negative	T2	3	Basal	NO NECROSIS	NO FIBROSIS	48.8	below50	7.6493 15069	0	HiAiCNA	TRUE
P_100254	Middle	Middle	Five-marker negative	T2	3	NA	NO NECROSIS	NO FIBROSIS	78.7	over50	6.5808 21918	0	-	FALSE
P_100262	High	Low	Core basal	T3	3	Basal	NECROSIS	FIBROSIS	68.1	over50	1.2657 53425	0	HiCnLOH	FALSE
P_100274	High	Low	Core basal	T2	3	Basal	NO NECROSIS	FIBROSIS	33.5	below50	10.230 13699	0	HiAiCNA	FALSE
P_100046	High	Middle	Core basal	T2	3	Basal	NECROSIS	NO FIBROSIS	62.6	over50	5.0931 50685	0	HiAiCNA	FALSE
P_100171	High	None	Five-marker negative	T2	3	Basal	NO NECROSIS	NO FIBROSIS	43.8	below50	8.9068 49315	0	LoSCINS	TRUE
P_100230	High	Low	Core basal	T2	3	Basal	NECROSIS	NO FIBROSIS	77.5	over50	8.9150 68493	0	HiCnLOH	FALSE
P_100255	High	Low	Five-marker negative	T3	3	NA	NO NECROSIS	NO FIBROSIS	40.2	below50	8.3589 0411	0	-	FALSE
P_100275	High	Low	Core basal	T1	3	NA	NO NECROSIS	NO FIBROSIS	64.3	over50	8.1479 45206	0	HiCnLOH	FALSE
P_100180	High	None	Core basal	T2	3	NA	NECROSIS	NO FIBROSIS	54.8	over50	7.8575 34247	0	-	FALSE
P_100269	Middle	Middle	Core basal	NA	3	Basal	NECROSIS	NO FIBROSIS	69.1	over50	8.1671 23288	0	HiAiCNA	FALSE
P_100278	High	None	Five-marker negative	T2	3	Basal	NO NECROSIS	FIBROSIS	51.2	over50	14.104 10959	0	HiCnLOH	FALSE
P_100161	Middle	None	Core basal	T2	3	NA	NO NECROSIS	FIBROSIS	64.3	over50	1.4	1	-	TRUE
P_100229	Low	High	Core basal	T1	3	Basal	NO NECROSIS	NO FIBROSIS	44.4	below50	9.4684 93151	0	HiCnLOH	TRUE
P_100238	High	None	Core basal	T3	3	NA	NO NECROSIS	NO FIBROSIS	80.9	over50	3.0383 56164	1	-	FALSE
P_100093	Middle	High	Core basal	T1	3	Basal	NECROSIS	NO FIBROSIS	57.1	over50	6.2301 36986	0	LoSCINS	TRUE
P_100191	High	Low	NA	T2	3	Basal	NECROSIS	FIBROSIS	28.4	below50	15.852 05479	1	HiCnLOH	FALSE
P_100241	Middle	Middle	Core basal	T2	3	Basal	NECROSIS	NO FIBROSIS	36.8	below50	8.3589 0411	0	HiAiCNA	TRUE
P_100237	Middle	Middle	Core basal	T2	3	Basal	NECROSIS	NO FIBROSIS	42.8	below50	7.5726 0274	0	HiCnLOH	FALSE
P_100268	Low	High	Five-marker negative	T2	3	Basal	NO NECROSIS	NO FIBROSIS	46	below50	9.1753 42466	0	HiAiCNA	FALSE
P_90115	High	None	NA	T2	3	Basal	NECROSIS	NO FIBROSIS	26.3	below50	0.5808 21918	1	HiAiCNA	FALSE
P_90862	NA	NA	Core basal	NA	3	Basal	NO NECROSIS	FIBROSIS	41.6	below50	0.9589 0411	1	LoSCINS	FALSE
P_90129	High	Low	Core basal	T2	3	Basal	NECROSIS	FIBROSIS	66.9	over50	1.0520 54795	1	LoSCINS	FALSE

P_100073	High	None	Core basal	T3	3	Basal	NECROSIS	NO FIBROSIS	84.4	over50	1.660273973	0	HiAiCNA	FALSE
P_90264	Middle	High	Core basal	T2	3	Basal	NECROSIS	NO FIBROSIS	66.9	over50	4.668493151	1	HiAiCNA	FALSE
P_90221	High	Low	Core basal	T2	3	Basal	NECROSIS	FIBROSIS	51.5	over50	20.24109589	0	HiAiCNA	FALSE
P_90150	High	None	Core basal	T2	3	Basal	NO NECROSIS	NO FIBROSIS	47.7	below50	0.797260274	1	HiCnLOH	TRUE
P_90885	Middle	Middle	NA	T1	3	NA	NO NECROSIS	NO FIBROSIS	51	over50	4.284931507	1	LoSCINS	FALSE
P_100028	High	None	NA	T2	3	Luminal A	NECROSIS	NO FIBROSIS	76.9	over50	0.38630137	0	HiAiCNA	FALSE
P_100049	High	Middle	Five-marker negative	T2	2	Normal	NO NECROSIS	NO FIBROSIS	82.2	over50	0	1	LoSCINS	FALSE
P_90257	High	None	Five-marker negative	T2	1	NA	NO NECROSIS	NO FIBROSIS	66.5	over50	5.010958904	1	-	FALSE
P_90215	Middle	None	Core basal	T1	3	Basal	NO NECROSIS	NO FIBROSIS	64.5	over50	19.59178082	0	LoSCINS	FALSE
P_90127	High	None	NA	T1	3	Basal	NO NECROSIS	FIBROSIS	66.1	over50	0.934246575	1	-	FALSE
P_90126	High	None	Core basal	T2	3	HER2	NECROSIS	FIBROSIS	66.8	over50	0.884931507	1	LoSCINS	FALSE
P_90892	High	Middle	Five-marker negative	T2	3	NA	NO NECROSIS	NO FIBROSIS	56.6	over50	0.301369863	1	-	TRUE
P_100051	High	None	Core basal	T1	3	Basal	NECROSIS	FIBROSIS	28.8	below50	13.96438356	1	HiAiCNA	FALSE
P_90333	Middle	Middle	Five-marker negative	T2	3	Basal	NECROSIS	NO FIBROSIS	68.5	over50	12.16712329	0	-	FALSE
P_90286	High	Low	Five-marker negative	T2	3	NA	NO NECROSIS	FIBROSIS	40.6	below50	15.81643836	0	-	FALSE
P_90217	High	None	Five-marker negative	T2	3	Basal	NECROSIS	NO FIBROSIS	58.6	over50	19.42191781	0	LoSCINS	FALSE
P_90252	Middle	Middle	Core basal	T2	3	HER2	NECROSIS	FIBROSIS	58.3	over50	4.123287671	1	LoSCINS	FALSE
P_90232	High	Low	NA	T2	3	Basal	NO NECROSIS	NO FIBROSIS	33.8	below50	1.887671233	1	LoSCINS	FALSE
P_90173	High	None	Five-marker negative	T2	3	Normal	NO NECROSIS	NO FIBROSIS	39.4	below50	14.05205479	0	-	FALSE
P_100214	High	None	Core basal	T2	3	Basal	NECROSIS	NO FIBROSIS	54.9	over50	0.232876712	1	HiAiCNA	FALSE
P_90769	High	Low	Five-marker negative	NA	3	NA	NO NECROSIS	NO FIBROSIS	27.7	below50	7.515068493	1	-	TRUE
P_90907	High	Low	Core basal	T2	3	NA	NECROSIS	FIBROSIS	38.2	below50	14.07671233	0	-	FALSE
P_100037	High	Low	Five-marker negative	T1	3	Basal	NO NECROSIS	NO FIBROSIS	33.8	below50	0	1	LoSCINS	FALSE
P_100054	High	Low	Five-marker negative	T2	3	HER2	NO NECROSIS	FIBROSIS	84	over50	1.205479452	0	LoSCINS	FALSE
P_90168	High	None	Core basal	T2	3	Basal	NECROSIS	FIBROSIS	40.8	below50	16.50684932	0	HiCnLOH	FALSE
P_90230	High	Low	Core basal	T2	3	NA	NECROSIS	FIBROSIS	44	below50	1.879452055	1	-	FALSE
P_90280	High	Middle	Five-marker negative	T2	3	Basal	NECROSIS	NO FIBROSIS	70.5	over50	14.23835616	0	HiCnLOH	FALSE
P_90779	High	Low	Core basal	T3	3	NA	NECROSIS	FIBROSIS	48.2	below50	1.252054795	1	-	TRUE
P_90959	High	Low	Core basal	T1	3	NA	NECROSIS	NO FIBROSIS	48.8	below50	18.53972603	0	-	FALSE
P_100187	Middle	Middle	Five-marker negative	T3	3	NA	NO NECROSIS	NO FIBROSIS	50.2	over50	9.808219178	0	HiCnLOH	TRUE
P_100081	Middle	Middle	Core basal	T2	3	Basal	NECROSIS	NO FIBROSIS	82.4	over50	3.14520548	0	LoSCINS	FALSE
P_90310	Middle	High	Five-marker negative	T3	3	Basal	NECROSIS	NO FIBROSIS	80.8	over50	9.846575343	0	HiAiCNA	FALSE
P_90782	Middle	Middle	NA	T1	3	Basal	NO NECROSIS	NO FIBROSIS	48.2	below50	0.693150685	1	HiCnLOH	FALSE
P_100023	High	Low	Five-marker negative	T3	3	HER2	NECROSIS	FIBROSIS	79	over50	2.81369863	0	HiAiCNA	FALSE
P_90994	High	Low	Core basal	T3	3	NA	NECROSIS	NO FIBROSIS	73.6	over50	14.69863014	0	-	FALSE
P_100042	High	Middle	NA	T2	3	Basal	NECROSIS	FIBROSIS	65.3	over50	15.06575342	0	HiAiCNA	FALSE
P_90304	Middle	High	Core basal	T2	3	Basal	NECROSIS	NO FIBROSIS	44.8	below50	21.97260274	0	LoSCINS	FALSE
P_100152	High	None	Core basal	T3	3	Basal	NECROSIS	FIBROSIS	40.2	below50	0.81369863	1	HiCnLOH	FALSE
P_90272	High	Low	Five-marker negative	T1	3	NA	NECROSIS	NO FIBROSIS	77.7	over50	0.84109589	1	-	FALSE
P_90861	High	Low	Five-marker negative	T3	3	Basal	NECROSIS	NO FIBROSIS	56.6	over50	0.531506849	1	HiAiCNA	FALSE
P_100043	High	Low	Five-marker negative	T2	3	HER2	NO NECROSIS	FIBROSIS	79.6	over50	3.646575343	0	HiCnLOH	FALSE
P_100068	High	Low	Core basal	T2	3	Basal	NO NECROSIS	NO FIBROSIS	56.6	over50	8.323287671	0	HiCnLOH	FALSE

P_90171	High	None	Core basal	T2	3	Basal	NO NECROSIS	FIBROSIS	50.6	over50	16.353 42466	0	HiAiCNA	FALSE
P_100085	High	Low	Core basal	T2	3	Basal	NO NECROSIS	NO FIBROSIS	60.6	over50	7.0547 94521	0	HiAiCNA	FALSE
P_90312	Low	High	Five-marker negative	T1	3	Basal	NO NECROSIS	NO FIBROSIS	65.2	over50	7.1095 89041	0	LoSCINS	FALSE
P_90190	High	Low	Core basal	T2	3	NA	NECROSIS	NO FIBROSIS	78.6	over50	2.3753 42466	1	-	FALSE
P_90413	High	Low	Core basal NA	T1	3	Basal	NO NECROSIS	NO FIBROSIS	55.3	over50	15.331 50685	0	HiAiCNA	FALSE
P_90161	Middle	Middle	NA	T1	3	Basal	NO NECROSIS	NO FIBROSIS	54.7	over50	13.476 71233	0	HiAiCNA	FALSE
P_90148	High	None	Core basal	T2	2	Basal	NO NECROSIS	NO FIBROSIS	71.9	over50	4.7561 64384	1	LoSCINS	FALSE
P_90296	High	Middle	Five-marker negative	T1	3	NA	NO NECROSIS	FIBROSIS	54.7	over50	15.312 32877	0	-	FALSE
P_90158	High	None	Core basal	T3	3	HER2	NECROSIS	FIBROSIS	69.9	over50	18.528 76712	0	LoSCINS	FALSE
P_90243	High	Low	Core basal	T2	3	Basal	NECROSIS	NO FIBROSIS	49.6	below50	4.0082 19178	1	LoSCINS	FALSE
P_90293	Middle	Middle	Five-marker negative	T2	3	Basal	NO NECROSIS	FIBROSIS	63.4	over50	19.852 05479	0	LoSCINS	FALSE
P_90365	High	Low	Five-marker negative	T2	3	NA	NECROSIS	NO FIBROSIS	61	over50	1.0383 56164	1	-	FALSE
P_90184	Middle	Middle	Five-marker negative	T1	3	NA	NECROSIS	NO FIBROSIS	58.4	over50	3.2082 19178	1	-	FALSE
P_90274	High	Low	Core basal	T2	3	NA	NECROSIS	NO FIBROSIS	60.6	over50	18.386 30137	0	LoSCINS	FALSE
P_90332	High	Low	Five-marker negative	T2	3	Basal	NECROSIS	NO FIBROSIS	58.7	over50	17.350 68493	0	HiAiCNA	FALSE
P_90183	High	None	Core basal	T2	3	NA	NECROSIS	FIBROSIS	60	over50	1.6054 79452	1	-	FALSE
P_90175	Middle	Middle	Core basal	T2	2	NA	NO NECROSIS	NO FIBROSIS	59	over50	16.627 39726	0	-	FALSE
P_90123	High	Low	Core basal NA	T2	3	NA	NO NECROSIS	NO FIBROSIS	46.7	below50	0.7260 27397	1	-	TRUE
P_90178	High	None	Five-marker negative	T2	3	Basal	NO NECROSIS	NO FIBROSIS	70.8	over50	2.1452 0548	1	LoSCINS	TRUE
P_90377	High	Low	NA	T2	3	Normal	NECROSIS	NO FIBROSIS	24.1	below50	17.432 87671	0	LoSCINS	FALSE
P_90297	Low	High	NA	T2	3	Basal	NECROSIS	NO FIBROSIS	49.6	below50	15.457 53425	0	HiAiCNA	FALSE
P_90193	High	None	Five-marker negative	T3	3	NA	NECROSIS	FIBROSIS	62.3	over50	3.1616 43836	1	-	FALSE
P_90155	High	Low	Five-marker negative	T2	3	Normal	NO NECROSIS	NO FIBROSIS	47.4	below50	4.3260 27397	1	LoSCINS	FALSE
P_90149	High	Low	Core basal	T2	3	NA	NO NECROSIS	NO FIBROSIS	48.8	below50	2.2356 16438	1	HiAiCNA	FALSE
P_90292	Low	High	Five-marker negative	T2	3	NA	NO NECROSIS	NO FIBROSIS	41.1	below50	15.621 91781	0	-	FALSE
P_90165	High	None	Five-marker negative	T2	3	Basal	NECROSIS	FIBROSIS	32.9	below50	13.652 05479	0	LoSCINS	FALSE
P_90112	High	None	Five-marker negative	T2	3	NA	NECROSIS	FIBROSIS	53.8	over50	0.3972 60274	1	-	FALSE
P_90285	High	Low	Five-marker negative	T3	3	Normal	NECROSIS	NO FIBROSIS	75.8	over50	7.8164 38356	0	LoSCINS	FALSE
P_90231	High	Low	Core basal	T3	3	NA	NECROSIS	NO FIBROSIS	36	below50	1.9589 0411	1	HiCnLOH	FALSE
P_90209	High	Low	Core basal	T3	3	Basal	NECROSIS	NO FIBROSIS	74.1	over50	1.2410 9589	1	-	FALSE
P_90170	High	Low	Five-marker negative	T2	3	NA	NECROSIS	NO FIBROSIS	43.3	below50	14.084 93151	0	-	FALSE

\*Cell content categories: high (>70%), medium (40-70%) and low (<40%).

## Supplementary Table S1: Sheet2 – Breast Cancer Cell Lines

Breast Cancer Cell Lines SampleID	ER	PR	HER2	BRCA 1 <sup>†</sup>	BRCA2 <sup>†</sup>
BT20	neg	neg	neg	wt	wt
BT474	pos	pos	pos	wt	wt
CAMA1	pos	neg		wt	wt
EFM19	pos	pos	neg	wt	wt
HCC1187	neg	neg	neg	wt	wt
HCC1395	neg	neg	neg	mut	wt
HCC1569	neg	neg	pos	wt	wt
HCC1806	neg	neg	neg	wt	wt
HCC1937	neg	neg	neg	mut	wt
HCC1954	neg	neg	pos	wt	wt
HCC38	neg	neg	neg	wt	wt
CAL51	neg	neg	neg	wt	wt
MCF10A	neg	neg	neg	NA	NA
MCF10ADCIS	neg	neg	neg	wt	wt
HMEC	neg	neg	neg	wt	wt
BT549	neg	neg	neg	wt	wt
HCC1500	pos	pos	neg	NA	NA
MDAMB436	neg	neg	neg	mut	NA
HCC1143	neg	neg	neg	wt	wt
HCC70	neg	neg	neg	wt	wt
BT483	pos	pos	neg	NA	NA
SUM159	neg	neg	neg	wt	wt
SUM1315	neg	neg	neg	mut	wt
HCC1428	pos	pos	neg	wt	mut
SUM225	neg	neg	pos	wt	wt
SUM149	neg	neg	neg	mut	NA
SUM190	neg	neg	pos	wt	wt
HS578T	neg	neg	neg	wt	wt
SKBR3	neg	neg	pos	NA	NA
MCF7	pos	pos	neg	wt	wt
MDAMB134	pos	neg	neg	wt	wt
MDAMB157	neg	neg	neg	wt	wt
MDAMB231	neg	neg	neg	wt	wt
MDAMB361	pos	pos	pos	wt	wt
MDAMB415	pos	neg		wt	wt
MDAMB453	neg	neg	pos	wt	wt
MDAMB468	neg	neg	neg	wt	wt
T47D	pos	pos	neg	wt	wt

<sup>†</sup> from  
[cer.sanger.ac.uk  
 genome/projects  
 /cosmic/](http://cer.sanger.ac.uk/genome/projects/cosmic/)

Supplementary Table S2: Categories of genomic segment used as the basis for measuring SCINS.

Segment	Definitions (where $x, y \in \mathbb{Z}$ )
AiCNA	$(x > 0) \wedge \left( \frac{y}{x+y} \neq 0.5 \right)$
AbCNA	$\frac{y}{x+y} = 0.5$
CnLOH	$(x = 2) \wedge (y = 0)$

# Supplementary Table S3: Sheet 1

KCL Multiclass SAM Genes

Gene.ID	Gene.Name	Score.d.	HiCnLOH.c contrast	HiAiCNA. contrast	LoSCINS. contrast	q.valu e	Assignment	Concordant
ENSG00000109321	AREG	0.935	-1.650	-1.123	2.204	0.000	LoSCINS	0
ENSG00000076382	SPAG5	0.926	1.095	1.679	-2.397	0.000	HiAiCNA	0
ENSG00000175792	RUVBL1	0.893	0.820	1.828	-2.365	0.000	HiAiCNA	0
ENSG00000097046	CDC7	0.864	2.466	0.401	-2.017	0.000	HiCnLOH	1
ENSG00000131747	TOP2A	0.851	1.292	1.190	-2.036	0.000	HiCnLOH	1
ENSG00000137310	TCF19	0.843	2.127	0.699	-2.092	0.000	HiCnLOH	1
ENSG00000204197	KIFC1	0.839	1.726	1.072	-2.203	0.000	HiCnLOH	1
ENSG00000124795	DEK	0.822	2.129	0.519	-1.914	0.000	HiCnLOH	0
ENSG00000203811	HIST2H3C	0.820	0.830	1.473	-2.017	0.000	HiAiCNA	0
ENSG00000183598	HIST2H3D	0.808	1.091	1.295	-2.009	0.000	HiAiCNA	0
ENSG00000182217	HIST2H4B	0.806	0.086	1.737	-1.794	0.000	HiAiCNA	0
ENSG00000147889	CDKN2A	0.799	1.850	0.569	-1.781	0.000	HiCnLOH	0
ENSG00000088325	TPX2	0.789	1.401	0.995	-1.913	0.000	HiCnLOH	1
ENSG00000184661	CDCA2	0.783	1.891	0.617	-1.856	0.000	HiCnLOH	0
ENSG00000071539	TRIP13	0.782	0.916	1.328	-1.928	0.000	HiAiCNA	0
ENSG00000183941	HIST2H4A	0.782	0.096	1.677	-1.741	0.000	HiAiCNA	0
ENSG00000134827	TCN1	0.777	-0.557	-1.374	1.739	0.000	LoSCINS	0
ENSG00000094804	CDC6	0.774	0.999	1.287	-1.942	0.000	HiAiCNA	0
ENSG00000129195	FAM64A	0.772	1.384	1.158	-2.064	0.000	HiCnLOH	1
ENSG00000129810	SGOL1	0.771	1.562	0.823	-1.847	0.000	HiCnLOH	1
ENSG00000066279	ASPM	0.763	1.265	1.034	-1.863	0.000	HiCnLOH	1
ENSG00000146918	NCAPG2	0.763	1.304	1.046	-1.900	0.000	HiCnLOH	0
ENSG00000164104	HMGB2	0.757	0.395	1.677	-1.935	0.000	HiAiCNA	0
ENSG00000111319	SCNN1A	0.754	-0.898	-1.199	1.787	0.000	LoSCINS	1
ENSG00000124429	POF1B	0.754	-0.657	-1.300	1.730	0.000	LoSCINS	0
ENSG00000145604	SKP2	0.753	1.605	0.811	-1.863	0.000	HiCnLOH	0
ENSG00000142945	KIF2C	0.749	0.919	1.300	-1.902	1.981	HiAiCNA	0
ENSG00000005156	LIG3	0.746	-0.221	1.844	-1.699	1.981	HiAiCNA	0
ENSG00000117228	GBP1	0.741	2.053	0.141	-1.486	1.981	HiCnLOH	1
ENSG00000163106	HPGDS	0.740	0.275	-1.759	1.579	1.981	LoSCINS	0
ENSG00000164171	ITGA2	0.738	-0.643	-1.318	1.740	1.981	LoSCINS	0
ENSG00000112079	STK38	0.737	2.541	-0.421	-1.243	1.981	HiCnLOH	0
ENSG00000109805	NCAPG	0.737	1.237	1.009	-1.820	1.981	HiCnLOH	1
ENSG00000024526	DEPDC1	0.726	1.806	0.475	-1.658	1.981	HiCnLOH	1
ENSG00000123473	STIL	0.723	1.571	0.702	-1.731	1.981	HiCnLOH	1
ENSG00000112118	MCM3	0.722	1.737	0.689	-1.827	1.981	HiCnLOH	1
ENSG00000137337	MDC1	0.722	1.592	0.955	-1.998	1.981	HiCnLOH	1
ENSG00000092853	CLSPN	0.721	2.086	0.445	-1.812	1.981	HiCnLOH	0
ENSG00000132383	RPA1	0.720	0.804	1.402	-1.929	1.981	HiAiCNA	0
ENSG00000163808	KIF15	0.719	1.424	0.840	-1.773	1.981	HiCnLOH	1
ENSG00000177646	ACAD9	0.718	0.874	1.406	-1.978	1.981	HiAiCNA	0
ENSG00000117724	CENPF	0.717	0.929	1.115	-1.723	1.981	HiAiCNA	0
ENSG00000090889	KIF4B	0.716	1.584	0.750	-1.788	1.981	HiCnLOH	0
ENSG00000145390	USP53	0.714	-0.372	-1.447	1.691	1.981	LoSCINS	0
ENSG00000198937	C6orf129	0.712	2.123	0.340	-1.731	1.981	HiCnLOH	0
ENSG00000073111	MCM2	0.707	1.432	1.004	-1.942	1.981	HiCnLOH	1
ENSG00000104435	STMN2	0.703	-1.157	-0.944	1.702	1.981	LoSCINS	0
ENSG00000113810	SMC4	0.702	1.564	0.714	-1.738	1.981	HiCnLOH	1
ENSG00000203852	HIST2H3A	0.701	0.938	1.151	-1.766	1.981	HiAiCNA	0
ENSG00000131470	PSMC3IP	0.701	0.528	1.671	-2.017	1.981	HiAiCNA	1
ENSG00000184330	S100A7A	0.701	-1.017	-0.982	1.649	1.981	LoSCINS	0
ENSG00000118193	KIF14	0.700	1.176	0.914	-1.685	1.981	HiCnLOH	1
ENSG00000138798	EGF	0.698	-1.131	-0.952	1.693	1.981	LoSCINS	0
ENSG00000165304	MELK	0.695	1.702	0.429	-1.544	1.981	HiCnLOH	1
ENSG00000165929	TC2N	0.695	-1.838	-0.295	1.499	1.981	LoSCINS	0
ENSG000000171793	CTPS	0.691	0.225	1.502	-1.650	2.076	HiAiCNA	0
ENSG00000138180	CEP55	0.691	1.472	0.698	-1.662	2.076	HiCnLOH	1
ENSG00000117650	NEK2	0.690	1.169	0.964	-1.730	2.076	HiCnLOH	1

ENSG00000145675	PIK3R1	0.690	-0.623	-1.278	1.686	2.076	LoSCINS	1
ENSG00000138376	BARD1	0.689	2.327	-0.235	-1.290	2.076	HiCnLOH	0
ENSG00000143401	ANP32E	0.689	1.332	0.754	-1.626	2.076	HiCnLOH	0
ENSG00000198369	SPRED2	0.687	-1.330	-0.796	1.667	2.076	LoSCINS	0
ENSG00000172197	MBOAT1	0.685	1.951	0.104	-1.382	2.076	HiCnLOH	0
ENSG00000093009	CDC45L	0.684	0.840	1.289	-1.839	2.076	HiAiCNA	0
ENSG00000117399	CDC20	0.684	0.945	1.081	-1.700	2.076	HiAiCNA	0
ENSG00000140450	ARRDC4	0.683	-0.211	-1.515	1.653	2.076	LoSCINS	0
ENSG00000147065	MSN	0.682	1.796	0.477	-1.653	2.076	HiCnLOH	0
ENSG00000147536	GINS4	0.681	0.360	1.406	-1.642	2.076	HiAiCNA	0
ENSG00000198901	PRC1	0.681	0.892	1.123	-1.708	2.076	HiAiCNA	0
ENSG00000112312	GMNN	0.680	1.955	0.338	-1.619	2.076	HiCnLOH	1
ENSG00000102384	CENPI	0.678	1.192	0.893	-1.674	2.076	HiCnLOH	1
ENSG00000196569	LAMA2	0.677	-0.449	-1.357	1.651	2.076	LoSCINS	1
ENSG00000129173	E2F8	0.677	1.267	0.857	-1.687	2.076	HiCnLOH	0
ENSG00000161956	SENTP3	0.677	1.462	1.071	-2.029	2.076	HiCnLOH	0
ENSG00000166840	GLYATL1	0.676	-0.603	-1.167	1.562	2.076	LoSCINS	0
ENSG00000197070	ARRDC1	0.676	0.104	-1.642	1.574	2.076	LoSCINS	0
ENSG00000196793	ZNF239	0.675	-0.222	1.673	-1.528	2.076	HiAiCNA	1
ENSG00000138784	ARHGEF3	0.675	-0.786	-1.041	1.556	2.076	LoSCINS	0
ENSG00000051341	POLQ	0.675	0.863	1.209	-1.775	2.076	HiAiCNA	0
ENSG00000182952	HMGNA4	0.675	2.023	0.281	-1.606	2.076	HiCnLOH	0
ENSG00000111206	FOXM1	0.674	0.800	1.107	-1.631	2.076	HiAiCNA	0
ENSG00000112984	KIF20A	0.673	1.415	0.708	-1.635	2.076	HiCnLOH	1
ENSG00000187990	HIST1H2B	0.672	1.138	0.911	-1.657	2.076	HiCnLOH	0
ENSG00000159228	G	0.672	0.846	1.221	-1.775	2.076	HiAiCNA	0
ENSG00000139318	CBR1	0.672	0.846	1.221	-1.775	2.076	HiAiCNA	0
ENSG00000139318	DUSP6	0.671	-1.237	-0.806	1.616	2.076	LoSCINS	0
ENSG00000081985	IL12RB2	0.671	1.895	0.054	-1.296	2.076	HiCnLOH	0
ENSG00000136492	BRIP1	0.669	1.522	0.579	-1.577	2.076	HiCnLOH	0
ENSG00000178999	AURKB	0.668	0.999	1.080	-1.734	2.076	HiAiCNA	0
ENSG00000174371	EXO1	0.668	0.545	1.272	-1.630	2.076	HiAiCNA	0
ENSG00000143228	NUF2	0.667	1.038	0.904	-1.584	2.076	HiCnLOH	0
ENSG00000072571	HMMR	0.666	1.611	0.545	-1.600	2.076	HiCnLOH	0
ENSG00000172551	MUCL1	0.665	-0.215	-1.237	1.378	3.522	LoSCINS	1
ENSG00000115163	CENPA	0.665	0.808	1.222	-1.752	3.522	HiAiCNA	0
ENSG00000112379	KIAA1244	0.664	-1.514	-0.508	1.500	3.522	LoSCINS	0
ENSG00000137975	CLCA2	0.663	-0.738	-1.007	1.491	3.522	LoSCINS	1
ENSG00000134690	CDCA8	0.661	1.086	0.976	-1.688	3.522	HiCnLOH	1
ENSG00000143452	HORMAD	0.658	0.724	1.014	-1.489	3.522	HiAiCNA	1
ENSG00000106462	1	0.658	0.724	1.014	-1.489	3.522	HiAiCNA	1
ENSG00000106462	EZH2	0.656	1.198	0.866	-1.651	3.522	HiCnLOH	1
ENSG00000121039	RDH10	0.656	1.947	-0.158	-1.117	3.522	HiCnLOH	0
ENSG00000137563	GGH	0.656	1.626	0.420	-1.485	3.522	HiCnLOH	0
ENSG00000011426	ANLN	0.654	1.778	0.195	-1.360	3.522	HiCnLOH	0
ENSG00000154269	ENPP3	0.651	-1.258	-0.660	1.484	3.963	LoSCINS	1
ENSG00000124571	XPO5	0.651	1.035	1.053	-1.730	3.963	HiAiCNA	1
ENSG00000087586	AURKA	0.650	1.333	0.701	-1.575	3.963	HiCnLOH	1
ENSG00000158402	CDC25C	0.650	1.429	0.831	-1.767	3.963	HiCnLOH	1
ENSG00000006210	CX3CL1	0.648	-1.065	-0.931	1.629	3.963	LoSCINS	0
ENSG00000144452	ABCA12	0.648	-1.137	-0.708	1.453	3.963	LoSCINS	0
ENSG00000173598	NUDT4	0.646	-0.774	-1.168	1.675	3.963	LoSCINS	0
ENSG00000108375	RNF43	0.642	-1.602	-0.493	1.543	3.963	LoSCINS	0
ENSG00000169715	C20orf127	0.641	1.871	-1.355	0.129	3.963	HiCnLOH	0
ENSG00000115602	IL1RL1	0.641	-1.043	-1.222	1.905	3.963	LoSCINS	0
ENSG00000182134	TDRKH	0.641	1.197	0.873	-1.657	3.963	HiCnLOH	0
ENSG00000176890	TYMS	0.641	1.132	0.858	-1.599	3.963	HiCnLOH	0
ENSG00000114346	ECT2	0.641	1.651	0.370	-1.452	3.963	HiCnLOH	1
ENSG00000132780	NASP	0.640	0.152	1.471	-1.571	3.963	HiAiCNA	0
ENSG00000112208	BAG2	0.640	2.131	-0.644	-0.752	3.963	HiCnLOH	0
ENSG00000071575	TRIB2	0.638	-2.173	0.313	1.111	3.963	LoSCINS	0
ENSG00000121957	GPSM2	0.638	1.475	0.499	-1.465	3.963	HiCnLOH	1
ENSG00000183856	IQGAP3	0.637	1.491	0.601	-1.577	3.963	HiCnLOH	1

ENSG00000185697	MYBL1	0.637	1.452	0.414	-1.365	3.963	HiCnLOH	0
ENSG00000112941	POLS	0.635	0.655	1.241	-1.670	4.946	HiAiCNA	0
ENSG00000163898	LIPH	0.635	0.460	-1.452	1.150	4.946	LoSCINS	0
ENSG00000152977	ZIC1	0.635	1.448	0.452	-1.401	4.946	HiCnLOH	0
ENSG00000065060	UHRF1BP1	0.635	1.762	0.588	-1.742	4.946	HiCnLOH	0
ENSG00000163781	TOPBP1	0.634	1.348	0.745	-1.628	4.946	HiCnLOH	0
ENSG00000144366	GULP1	0.634	-0.297	-1.254	1.449	4.946	LoSCINS	0
ENSG00000172167	MTBP	0.634	1.154	0.831	-1.587	4.946	HiCnLOH	0
ENSG00000101040	ZMYND8	0.634	-1.390	-0.751	1.661	4.946	LoSCINS	0
ENSG00000080839	RBL1	0.633	0.654	1.129	-1.558	4.946	HiAiCNA	1
ENSG00000156689	GLYATL2	0.633	-0.489	-1.064	1.385	4.946	LoSCINS	0
ENSG00000137807	KIF23	0.631	1.433	0.541	-1.480	4.946	HiCnLOH	1
ENSG00000164611	PTTG1	0.629	1.095	0.924	-1.641	4.946	HiCnLOH	1
ENSG00000144802	NFKBIZ	0.629	-1.058	-0.913	1.606	4.946	LoSCINS	0
ENSG00000149636	DSN1	0.629	0.776	1.176	-1.685	4.946	HiAiCNA	0
ENSG00000104361	NPAL2	0.628	-0.590	-1.188	1.575	4.946	LoSCINS	0
ENSG00000181544	FANCB	0.627	1.266	0.697	-1.527	4.946	HiCnLOH	0
ENSG00000110484	SCGB2A2	0.625	-0.588	-0.995	1.381	4.946	LoSCINS	0
ENSG00000159147	DONSON	0.624	1.740	0.266	-1.406	4.946	HiCnLOH	1
ENSG00000117155	SSX2IP	0.624	1.894	0.043	-1.284	4.946	HiCnLOH	0
ENSG00000113569	NUP155	0.622	1.607	0.465	-1.518	4.946	HiCnLOH	0
ENSG00000108272	DHRS11	0.621	1.214	0.781	-1.576	4.946	HiCnLOH	0
ENSG00000176208	ATAD5	0.621	0.607	1.159	-1.557	4.946	HiAiCNA	0
ENSG00000091972	CD200	0.621	2.057	-0.962	-0.386	4.946	HiCnLOH	0
ENSG00000065882	TBC1D1	0.620	1.614	0.549	-1.607	4.946	HiCnLOH	0
ENSG00000198952	SMG5	0.620	1.277	0.832	-1.669	4.946	HiCnLOH	1
ENSG00000156802	ATAD2	0.619	1.398	0.535	-1.451	4.946	HiCnLOH	0
ENSG00000165072	MAMDC2	0.619	0.841	-1.472	0.921	4.946	LoSCINS	0
ENSG00000118655	DCLRE1B	0.618	2.080	0.138	-1.501	4.946	HiCnLOH	0
ENSG00000044459	CNTLN	0.618	1.749	0.307	-1.453	4.946	HiCnLOH	0
ENSG00000113368	LMNB1	0.618	0.793	1.129	-1.648	4.946	HiAiCNA	0
ENSG00000178556	CKS1BP6	0.617	0.943	0.953	-1.571	4.946	HiAiCNA	0
ENSG00000184260	HIST2H2A C	0.616	1.205	0.883	-1.672	4.946	HiCnLOH	0
ENSG00000179750	APOBEC3 B	0.616	1.760	-0.016	-1.137	4.946	HiCnLOH	0
ENSG00000121316	PLBD1	0.615	1.910	-0.191	-1.060	4.946	HiCnLOH	0
ENSG00000138772	ANXA3	0.615	1.208	-1.399	0.608	4.946	HiCnLOH	0
ENSG00000085999	RAD54L ARHGAP2 1	0.614	0.110	1.506	-1.577	5.891	HiAiCNA	0
ENSG00000107863	SASS6	0.613	1.963	-0.074	-1.212	5.891	HiCnLOH	0
ENSG00000156876	MKI67	0.613	1.614	0.332	-1.390	5.891	HiCnLOH	0
ENSG00000148773	PLK1	0.613	0.908	0.909	-1.504	5.891	HiAiCNA	0
ENSG00000166851	USP1	0.612	0.913	0.936	-1.534	5.891	HiAiCNA	0
ENSG00000162607	NNT	0.612	1.823	0.161	-1.356	5.891	HiCnLOH	0
ENSG00000112992	LAS1L	0.612	1.394	0.581	-1.495	5.891	HiCnLOH	1
ENSG00000001497	TSHZ2	0.612	-0.274	1.689	-1.509	5.891	HiAiCNA	0
ENSG00000182463	TDRD12	0.612	-0.536	-1.186	1.536	5.891	LoSCINS	1
ENSG00000173809	KIF11	0.611	-1.355	1.351	-0.463	5.891	HiAiCNA	0
ENSG00000138160	SLC9A2	0.611	1.430	0.478	-1.415	5.891	HiCnLOH	1
ENSG00000115616	COL17A1	0.611	-0.988	-0.843	1.491	5.891	LoSCINS	0
ENSG00000065618	GCN5L2	0.610	-0.857	-1.041	1.603	5.891	LoSCINS	0
ENSG00000108773	CENPO	0.609	-0.083	1.537	-1.483	5.891	HiAiCNA	0
ENSG00000138092	KLHDC3	0.609	0.287	1.412	-1.600	5.891	HiAiCNA	0
ENSG00000124702	PROL1	0.609	1.121	0.878	-1.612	5.891	HiCnLOH	1
ENSG00000171199	HJURP	0.609	-1.015	-0.820	1.485	5.891	LoSCINS	0
ENSG00000123485	KIF24	0.608	1.532	0.528	-1.532	5.891	HiCnLOH	1
ENSG00000186638	ARHGAP3 2	0.608	1.511	0.605	-1.594	5.891	HiCnLOH	1
ENSG00000134909	AGR2	0.607	-1.335	-0.642	1.517	5.891	LoSCINS	0
ENSG00000106541	ITGBL1	0.607	-0.952	-0.737	1.361	5.891	LoSCINS	0
ENSG00000198542	XRCC2	0.606	-0.639	-1.135	1.554	5.891	LoSCINS	0
ENSG00000196584	PRTFDC1	0.605	0.657	1.043	-1.474	5.891	HiAiCNA	0
ENSG00000099256		0.604	0.882	0.826	-1.404	5.891	HiCnLOH	0



ENSG00000143363	PRUNE	0.604	1.200	0.800	-1.586	5.891	HiCnLOH	1
ENSG00000121621	KIF18A	0.603	1.132	0.694	-1.436	5.891	HiCnLOH	0
ENSG00000183624	C3orf37	0.602	1.653	0.561	-1.644	5.891	HiCnLOH	0
ENSG00000109929	SC5DL	0.601	-0.962	-0.824	1.454	5.891	LoSCINS	1
ENSG00000165475	CRYL1	0.601	-0.414	-1.353	1.625	5.891	LoSCINS	0
ENSG00000154839	C18orf24	0.600	1.186	0.682	-1.459	5.891	HiCnLOH	0
ENSG00000108262	GIT1	0.600	0.372	1.311	-1.555	5.891	HiAiCNA	0
ENSG00000100234	TIMP3	0.598	-0.747	-0.990	1.480	5.891	LoSCINS	0
ENSG00000112742	TTK	0.598	1.221	0.580	-1.380	5.891	HiCnLOH	0
ENSG00000121270	ABCC11	0.596	-1.185	-0.542	1.318	5.891	LoSCINS	1
	HIST1H2B							
ENSG00000124635	J	0.596	1.463	0.460	-1.418	5.891	HiCnLOH	0
ENSG00000132182	NUP210	0.595	1.241	0.636	-1.449	5.891	HiCnLOH	0
ENSG00000173207	CKS1B	0.595	0.711	1.062	-1.528	5.891	HiAiCNA	0
	ARHGAP1							
ENSG00000198826	1A	0.595	0.551	1.071	-1.432	6.913	HiAiCNA	0
ENSG00000163535	SGOL2	0.595	1.660	0.225	-1.313	6.913	HiCnLOH	0
ENSG00000112378	PERP	0.594	-0.990	-0.817	1.465	6.913	LoSCINS	0
ENSG00000006652	IFRD1	0.593	1.815	0.081	-1.271	6.913	HiCnLOH	0
ENSG00000148798	INA	0.593	1.719	0.020	-1.146	6.913	HiCnLOH	0
ENSG00000184675	FAM123B	0.593	0.527	1.264	-1.609	6.913	HiAiCNA	0
ENSG00000167721	TSR1	0.592	0.561	1.222	-1.589	6.913	HiAiCNA	0
ENSG00000105497	ZNF175	0.592	-1.157	-0.764	1.521	6.913	LoSCINS	0
ENSG00000162545	CAMK2N1	0.592	0.757	-1.410	0.913	6.913	LoSCINS	0
ENSG00000090020	SLC9A1	0.592	-1.155	-0.967	1.724	6.913	LoSCINS	1
ENSG00000122966	CIT	0.591	1.087	0.923	-1.635	6.913	HiCnLOH	0
ENSG00000112357	PEX7	0.591	-2.146	0.059	1.346	6.913	LoSCINS	0
ENSG00000124789	NUP153	0.590	1.763	0.213	-1.368	6.913	HiCnLOH	0
ENSG00000136156	ITM2B	0.589	-0.572	-1.257	1.632	6.913	LoSCINS	0
ENSG00000006757	PNPLA4	0.589	-0.891	-0.872	1.456	6.913	LoSCINS	1
ENSG00000125319	C17orf53	0.589	0.644	1.274	-1.696	6.913	HiAiCNA	0
ENSG00000164430	C6orf150	0.589	1.728	0.098	-1.230	6.913	HiCnLOH	0
ENSG00000185070	FLRT2	0.589	-0.482	-1.188	1.504	6.913	LoSCINS	1
ENSG00000152377	SPOCK1	0.588	-0.625	-1.096	1.505	6.913	LoSCINS	0
ENSG00000155066	PROM2	0.588	-0.925	-0.926	1.532	6.913	LoSCINS	0
ENSG00000150753	CCT5	0.588	1.065	0.866	-1.563	6.913	HiCnLOH	0
ENSG00000143398	PIP5K1A	0.588	1.111	0.814	-1.542	6.913	HiCnLOH	0
ENSG00000163902	RPN1	0.588	1.557	0.647	-1.667	6.913	HiCnLOH	0
ENSG00000143436	MRPL9	0.588	1.294	0.697	-1.544	6.913	HiCnLOH	1
ENSG00000007306	CEACAM7	0.588	-1.195	-0.661	1.444	6.913	LoSCINS	0
ENSG00000204955	PCDHGA2	0.587	-1.371	-0.636	1.535	6.913	LoSCINS	0
ENSG00000071794	HLTF	0.587	1.382	0.548	-1.454	6.913	HiCnLOH	0
ENSG00000146263	C6orf167	0.587	1.129	0.695	-1.435	6.913	HiCnLOH	0
ENSG00000154548	SRSF12	0.586	1.141	0.785	-1.533	6.913	HiCnLOH	0
ENSG00000189058	APOD	0.585	-1.054	-0.625	1.315	6.913	LoSCINS	1
ENSG00000140534	C15orf42	0.584	1.076	0.735	-1.440	6.913	HiCnLOH	0
ENSG00000172817	CYP7B1	0.584	1.919	-0.662	-0.595	6.913	HiCnLOH	0
ENSG00000136982	DSCC1	0.583	1.278	0.599	-1.436	6.913	HiCnLOH	0
ENSG00000187758	ADH1A	0.583	-1.566	-0.299	1.325	6.913	LoSCINS	0
ENSG00000151967	SCHIP1	0.583	1.580	0.236	-1.271	6.913	HiCnLOH	0
ENSG00000166575	TMEM135	0.583	-1.571	-0.332	1.361	6.913	LoSCINS	1
ENSG00000196208	GREB1	0.582	-2.114	0.704	0.682	6.913	HiAiCNA	0
ENSG00000146281	PM20D2	0.582	1.000	0.779	-1.434	6.913	HiCnLOH	0
ENSG00000100714	MTHFD1	0.582	0.470	1.228	-1.536	6.913	HiAiCNA	0
ENSG00000169607	CKAP2L	0.582	1.045	0.754	-1.438	6.913	HiCnLOH	1
ENSG00000113387	SUB1	0.581	1.961	-0.629	-0.656	6.913	HiCnLOH	0
ENSG00000166845	C18orf54	0.581	0.739	0.985	-1.469	6.913	HiAiCNA	0
ENSG00000151715	TMEM45B	0.580	-0.694	-0.861	1.316	6.913	LoSCINS	1
ENSG00000144749	LRIG1	0.580	-1.912	0.343	0.910	6.913	LoSCINS	0
ENSG00000124641	MED20	0.580	1.648	0.507	-1.587	6.913	HiCnLOH	0
ENSG00000165097	AOF1	0.580	1.422	0.558	-1.489	6.913	HiCnLOH	0
ENSG00000105173	CCNE1	0.579	0.785	0.895	-1.409	6.913	HiAiCNA	0
ENSG00000163755	HPS3	0.579	2.130	-0.497	-0.898	6.913	HiCnLOH	0
ENSG00000105976	MET	0.579	1.654	-1.085	0.001	6.913	HiCnLOH	0

ENSG00000172663	TMEM134	0.579	-1.866	-0.201	1.424	6.913	LoSCINS	0
ENSG00000030419	IKZF2	0.578	1.007	-1.450	0.790	6.913	HiCnLOH	0
ENSG00000196821	C6orf106	0.577	1.866	0.250	-1.473	6.913	HiCnLOH	0
ENSG000000005100	DHX33	0.577	0.363	1.270	-1.508	6.913	HiAiCNA	0
ENSG00000101003	GINS1	0.577	1.135	0.651	-1.394	6.913	HiCnLOH	0
ENSG00000162627	SNX7	0.576	1.961	-0.887	-0.398	6.913	HiCnLOH	0
ENSG00000168496	FEN1	0.576	1.072	0.945	-1.648	6.913	HiCnLOH	1
ENSG00000186871	ERCC6L	0.576	1.466	0.581	-1.542	6.913	HiCnLOH	0
ENSG00000140525	FANCI	0.575	1.183	0.632	-1.407	6.913	HiCnLOH	0
	LOC15222							
ENSG00000214407	5	0.575	-0.684	-1.003	1.451	6.913	LoSCINS	0
ENSG00000163209	SPRR3	0.575	-0.638	-0.980	1.398	6.913	LoSCINS	0
ENSG00000179913	B3GNT3	0.574	-0.021	-1.292	1.306	8.689	LoSCINS	0
ENSG00000198715	C1orf85	0.574	1.409	0.533	-1.456	8.689	HiCnLOH	0
ENSG00000170485	NPAS2	0.574	-0.458	-1.056	1.356	8.689	LoSCINS	0
ENSG00000143256	PFDN2	0.574	0.650	1.118	-1.543	8.689	HiAiCNA	0
ENSG00000117222	RBBP5	0.574	-0.307	1.596	-1.395	8.689	HiAiCNA	0
ENSG00000182481	KPNA2	0.574	0.899	0.855	-1.444	8.689	HiCnLOH	1
	ARHGAP1							
ENSG00000187951	1B	0.574	0.580	1.049	-1.429	8.689	HiAiCNA	0
ENSG00000213281	NRAS	0.573	1.524	0.240	-1.238	8.689	HiCnLOH	0
ENSG00000077152	UBE2T	0.573	0.899	0.844	-1.433	8.689	HiCnLOH	1
ENSG00000122482	ZNF644	0.572	1.893	-0.223	-1.017	8.689	HiCnLOH	1
ENSG00000116299	KIAA1324	0.571	-1.481	-0.164	1.134	8.689	LoSCINS	1
ENSG00000110092	CCND1	0.571	-1.794	0.174	1.001	8.689	LoSCINS	0
ENSG00000204267	TAP2	0.571	1.629	0.211	-1.278	8.689	HiCnLOH	0
ENSG00000147041	SYTL5	0.571	-0.966	-0.771	1.403	8.689	LoSCINS	0
ENSG00000125454	SLC25A19	0.571	1.175	0.826	-1.596	8.689	HiCnLOH	0
ENSG00000121031	PRKDC	0.571	1.026	0.794	-1.466	8.689	HiCnLOH	1
ENSG00000084444	KIAA1467	0.570	-1.727	0.994	0.138	8.689	HiAiCNA	0
	TMPRSS1							
ENSG00000173487	1E2	0.569	-0.267	-1.141	1.317	8.689	LoSCINS	0
ENSG00000124562	SNRPC	0.569	1.268	0.784	-1.615	8.689	HiCnLOH	0
ENSG00000196632	WNK3	0.568	0.977	0.731	-1.372	8.689	HiCnLOH	0
ENSG00000177302	TOP3A	0.567	-0.081	1.573	-1.520	8.689	HiAiCNA	0
ENSG00000047346	KIAA1370	0.567	-1.031	-0.702	1.377	8.689	LoSCINS	0
ENSG00000187456	RDM1	0.567	-1.497	1.713	-0.732	8.689	HiAiCNA	0
ENSG00000154655	L3MBTL4	0.567	-0.041	1.262	-1.235	8.689	HiAiCNA	0
ENSG00000129282	MRM1	0.567	-1.263	1.674	-0.847	8.689	HiAiCNA	0
ENSG00000107984	DKK1	0.567	-0.824	-0.750	1.290	8.689	LoSCINS	0
ENSG00000102265	TIMP1	0.566	-1.816	0.009	1.181	8.689	LoSCINS	0
ENSG00000166670	MMP10	0.566	-1.094	-0.797	1.513	8.689	LoSCINS	0
ENSG00000162775	RBM15	0.566	0.924	1.099	-1.705	8.689	HiAiCNA	0
ENSG00000179639	FCER1A	0.565	-1.111	-0.750	1.478	8.689	LoSCINS	0
ENSG00000164251	F2RL1	0.565	-0.594	-1.086	1.475	8.689	LoSCINS	0
ENSG00000031691	CENPQ	0.565	1.502	0.427	-1.411	8.689	HiCnLOH	0
ENSG00000152253	SPC25	0.565	1.351	0.466	-1.351	8.689	HiCnLOH	1
ENSG00000138449	SLC40A1	0.564	-0.614	-0.923	1.325	8.689	LoSCINS	1
	SERPINE							
ENSG00000106366	1	0.564	-1.367	-0.461	1.357	8.689	LoSCINS	0
ENSG00000187837	HIST1H1C	0.564	0.447	1.210	-1.503	8.689	HiAiCNA	0
ENSG00000197933	ZNF823	0.564	0.147	-1.375	1.279	8.689	LoSCINS	0
ENSG00000165533	TTC8	0.564	-1.307	-0.547	1.403	8.689	LoSCINS	0
ENSG00000164056	SPRY1	0.564	-0.563	-1.119	1.488	8.689	LoSCINS	1
	ANKRD30							
ENSG00000148513	A	0.564	-1.108	-0.508	1.234	8.689	LoSCINS	0
ENSG00000143374	TARS2	0.562	0.021	1.420	-1.434	8.689	HiAiCNA	0
ENSG00000009765	IYD	0.562	-1.050	-0.784	1.472	8.689	LoSCINS	0
ENSG00000144681	STAC	0.562	1.810	-0.194	-0.992	8.689	HiCnLOH	0
ENSG00000168078	PBK	0.562	1.193	0.521	-1.302	8.689	HiCnLOH	0
ENSG00000111058	ACSS3	0.562	-1.192	-0.516	1.297	8.689	LoSCINS	0
ENSG00000161800	RACGAP1	0.561	1.166	0.644	-1.408	8.689	HiCnLOH	1
ENSG00000187741	FANCA	0.560	0.781	1.019	-1.530	8.689	HiAiCNA	0
ENSG00000197043	ANXA6	0.558	0.914	0.845	-1.444	8.689	HiCnLOH	0
ENSG00000112936	C7	0.558	-1.427	-0.299	1.234	8.689	LoSCINS	1

\*Ordered by D-score  
Only genes  $q < 0.1$  shown

## Supplementary Table S3: Sheet 2

METABRIC Multiclass SAM Genes

Gene.ID	Gene.Name	Score.d	LoSCINS. contrast	HiAicNA. contrast	HiCnLOH. contrast	q.value	Assignment	Concorda
ENSG00000173207	CKS1B	0.9856	-2.3820	1.6393	1.7159	0	HiCnLOH	0
ENSG00000169228	RAB24	0.9507	2.4485	-2.2228	-1.0244	0	LoSCINS	0
ENSG00000077152	UBE2T	0.9245	-2.1913	1.1988	2.0037	0	HiCnLOH	1
ENSG00000101447	FAM83D	0.9106	-2.1419	1.0105	2.1804	0	HiCnLOH	0
ENSG00000131747	TOP2A	0.8848	-2.0869	1.2936	1.6995	0	HiCnLOH	1
ENSG00000145703	IQGAP2	0.8758	2.0376	-0.9435	-2.0988	0	LoSCINS	0
ENSG00000085415	SEH1L	0.8741	-2.1588	2.0452	0.7859	0	HiAicNA	0
ENSG00000163535	SGOL2	0.8725	-2.1990	2.0725	0.8153	0	HiAicNA	0
ENSG00000224531	SMIM13	0.8644	-2.2206	1.6742	1.3990	0	HiAicNA	0
ENSG00000137807	KIF23	0.8601	-2.1196	1.2780	1.7754	0	HiCnLOH	1
ENSG00000058804	TMEM48	0.8598	-2.1055	2.1253	0.5869	0	HiAicNA	0
ENSG00000197299	BLM	0.8565	-2.1724	1.4590	1.6145	0	HiCnLOH	0
ENSG00000176619	LMNB2	0.8536	-2.1242	1.4251	1.5809	0	HiCnLOH	0
ENSG00000112578	BYSL	0.8428	-2.1097	1.1840	1.8882	0	HiCnLOH	0
ENSG00000127419	TMEM175	0.8399	1.9844	-2.0708	-0.4599	0	LoSCINS	0
ENSG00000164045	CDC25A	0.8361	-2.1427	1.3725	1.6839	0	HiCnLOH	0
ENSG00000073111	MCM2	0.8350	-1.8895	0.6163	2.3017	0	HiCnLOH	1
ENSG00000163155	LYSMD1	0.8308	-2.0971	0.5471	2.7429	0	HiCnLOH	0
ENSG00000132386	SERPINF1	0.8303	2.0129	-1.2006	-1.7041	0	LoSCINS	0
ENSG00000169093	ASMTL	0.8257	2.1068	-1.4153	-1.5652	0	LoSCINS	0
ENSG00000143674	KIAA1804	0.8252	-1.8757	2.4091	-0.1863	0	HiAicNA	0
ENSG00000124784	RIOK1	0.8230	-2.0760	1.9017	0.8451	0	HiAicNA	0
ENSG00000048471	SNX29	0.8226	2.1822	-1.8983	-1.0268	0	LoSCINS	0
ENSG00000162851	TFB2M	0.8204	-1.9102	2.0629	0.3472	0	HiAicNA	0
ENSG00000138160	KIF11	0.8198	-1.8972	0.6154	2.3158	0	HiCnLOH	1
ENSG00000138442	WDR12	0.8168	-1.8437	2.2026	0.0442	0	HiAicNA	0
ENSG00000198901	PRC1	0.8158	-1.9485	1.1483	1.6686	0	HiCnLOH	0
ENSG00000113163	COL4A3BP	0.8157	2.0160	-1.0413	-1.9281	0	LoSCINS	0
ENSG00000197226	TBC1D9B	0.8137	1.9809	-2.1856	-0.2962	0	LoSCINS	0
ENSG00000165424	ZCCHC24	0.8117	1.9754	-1.3412	-1.4482	0	LoSCINS	0
ENSG00000145604	SKP2	0.8117	-2.0255	1.7542	0.9637	0	HiAicNA	0
ENSG00000177917	ARL6IP6	0.8103	-1.9487	1.9104	0.6210	0	HiAicNA	0
ENSG00000138180	CEP55	0.8101	-1.9483	1.0904	1.7479	0	HiCnLOH	1
ENSG00000157514	TSC22D3	0.8083	1.8961	-1.6720	-0.8611	0	LoSCINS	0
ENSG00000121671	CRY2	0.8072	2.0881	-1.6422	-1.2221	0	LoSCINS	0
ENSG00000136810	TXN	0.8059	-2.0334	1.7073	1.0415	0	HiAicNA	0
ENSG00000178999	AURKB	0.8043	-1.8235	0.6875	2.0939	0	HiCnLOH	0
ENSG00000134419	RPS15A	0.7992	-1.8538	1.8511	0.5443	0	HiAicNA	0
ENSG00000143436	MRPL9	0.7941	-2.0244	1.1050	1.8546	0	HiCnLOH	1
ENSG00000145675	PIK3R1	0.7917	1.8376	-1.8340	-0.5408	0	LoSCINS	1
ENSG00000144744	UBA3	0.7883	-1.7783	2.1052	0.0692	0	HiAicNA	0
ENSG00000143621	ILF2	0.7876	-1.9093	1.6569	0.9039	0	HiAicNA	0
ENSG00000123933	MXD4	0.7873	1.9789	-1.3788	-1.4023	0	LoSCINS	0
ENSG00000166803	KIAA0101	0.7857	-1.8977	1.4069	1.2283	0	HiAicNA	0
ENSG00000143452	HORMAD1	0.7855	-1.7134	1.8641	0.2926	0	HiAicNA	1
ENSG00000120254	MTHFD1L	0.7840	-1.8522	1.7571	0.6709	0	HiAicNA	0
ENSG00000164109	MAD2L1	0.7820	-1.8626	1.2771	1.3483	0	HiCnLOH	0
ENSG00000123374	CDK2	0.7782	-1.9101	0.7600	2.1385	0	HiCnLOH	0
ENSG00000173726	TOMM20	0.7775	-1.8682	1.5555	0.9749	0	HiAicNA	0
ENSG00000137168	PPIL1	0.7773	-1.9555	1.7165	0.8990	0	HiAicNA	0
ENSG00000066279	ASPM	0.7765	-1.7863	0.7865	1.8956	0	HiCnLOH	1
ENSG00000124279	FASTKD3	0.7760	-2.0706	1.8556	0.8996	0	HiAicNA	0
ENSG00000081721	DUSP12	0.7749	-1.9062	1.8535	0.6285	0	HiAicNA	0
ENSG00000132676	DAP3	0.7745	-1.9828	1.4466	1.3156	0	HiAicNA	0
ENSG00000090889	KIF4A	0.7744	-1.8086	0.6020	2.1865	0	HiCnLOH	0
ENSG00000010072	SPRTN	0.7737	-2.0873	1.6087	1.2668	0	HiAicNA	0
ENSG00000173473	SMARCC1	0.7735	-1.9653	1.5503	1.1439	0	HiAicNA	0
ENSG00000112118	MCM3	0.7719	-1.8820	1.0910	1.6365	0	HiCnLOH	1

ENSG00000096063	SRPK1	0.7718	-1.9168	1.3893	1.2843	0	HiAiCNA	0
ENSG00000161800	RACGAP1	0.7707	-1.8898	1.0322	1.7303	0	HiCnLOH	1
ENSG00000065328	MCM10	0.7701	-1.9567	1.3793	1.3646	0	HiAiCNA	0
ENSG00000143155	TIPRL	0.7696	-1.9290	1.5419	1.0948	0	HiAiCNA	0
ENSG00000136045	PWP1	0.7689	-1.7655	2.1867	-0.0641	0	HiAiCNA	0
ENSG00000129195	FAM64A	0.7683	-1.7939	0.7148	2.0070	0	HiCnLOH	1
ENSG00000121644	DES12	0.7678	-1.8365	1.9292	0.4081	0	HiAiCNA	0
ENSG00000175063	UBE2C	0.7677	-1.7172	0.6769	1.9312	0	HiCnLOH	0
ENSG00000024526	DEPDC1	0.7667	-1.9074	1.0090	1.7916	0	HiCnLOH	1
ENSG00000152284	TCF7L1	0.7667	-1.8049	0.7549	1.9702	0	HiCnLOH	0
ENSG00000117632	STMN1	0.7663	-1.8194	0.9155	1.7735	0	HiCnLOH	0
ENSG00000163159	VPS72	0.7663	-1.8568	0.7124	2.1150	0	HiCnLOH	0
ENSG00000124207	CSE1L	0.7629	-1.8931	1.1496	1.5744	0	HiCnLOH	0
ENSG00000176124	DLEU1	0.7624	-1.8351	1.8856	0.4658	0	HiAiCNA	0
ENSG00000146670	CDCA5	0.7609	-1.7838	0.8693	1.7778	0	HiCnLOH	0
ENSG00000119699	TGFB3	0.7607	-1.8238	-1.2012	-1.3880	0	LoSCINS	0
ENSG00000109805	NCAPG	0.7605	-1.7051	0.5348	2.1064	0	HiCnLOH	1
ENSG00000174371	EXO1	0.7583	-1.8114	0.9505	1.7121	0	HiCnLOH	0
ENSG00000087510	TFAP2C	0.7574	-1.7887	0.9173	1.7198	0	HiCnLOH	0
ENSG00000136122	BORA	0.7557	-1.8882	1.6076	0.9366	0	HiAiCNA	0
ENSG00000120334	CENPL	0.7555	-1.9073	1.0997	1.6666	0	HiCnLOH	0
ENSG00000189058	APOD	0.7548	-1.6258	-0.6416	-1.8274	0	LoSCINS	1
ENSG00000164611	PTTG1	0.7528	-1.8099	1.1933	1.3756	0	HiCnLOH	1
ENSG00000065911	MTHFD2	0.7495	-1.5418	2.0559	-0.2573	0	HiAiCNA	0
ENSG00000112984	KIF20A	0.7486	-1.6843	0.5430	2.0605	0	HiCnLOH	1
ENSG00000113569	NUP155	0.7462	-1.8756	1.5081	1.0523	0	HiAiCNA	0
ENSG00000164758	MED30	0.7460	-1.5582	1.9694	-0.1110	0	HiAiCNA	0
ENSG00000152642	GPD1L	0.7451	-1.7760	-1.3584	-1.0923	0	LoSCINS	0
ENSG00000087206	UIMC1	0.7442	-1.7972	-1.8482	-0.4541	0	LoSCINS	0
ENSG00000132383	RPA1	0.7434	-1.7646	0.6177	2.0916	0	HiCnLOH	0
ENSG00000175356	SCUBE2	0.7415	-1.7539	-1.2017	-1.2709	0	LoSCINS	0
ENSG00000151461	UPF2	0.7404	-1.8053	1.7678	0.5781	0	HiAiCNA	0
ENSG00000124593	TOMM6	0.7385	-1.8733	1.5541	0.9854	0	HiAiCNA	0
ENSG00000138385	SSB	0.7373	-1.7605	1.9795	0.2123	0	HiAiCNA	0
ENSG00000105185	PDCD5	0.7367	-1.8160	1.0991	1.5154	0	HiCnLOH	0
ENSG00000154040	CABYR	0.7365	-1.6432	1.7268	0.3643	0	HiAiCNA	0
ENSG00000183814	LIN9	0.7363	-1.8564	1.3313	1.2635	0	HiAiCNA	0
ENSG00000160767	FAM189B	0.7360	-1.8362	0.7448	2.0363	0	HiCnLOH	0
ENSG00000165304	MELK	0.7357	-1.6394	0.5831	1.9306	0	HiCnLOH	1
ENSG00000149577	SIDT2	0.7352	-1.8530	-1.4052	-1.1563	0	LoSCINS	0
ENSG00000113460	BRIX1	0.7342	-1.8787	1.4011	1.2046	0	HiAiCNA	0
ENSG00000120802	TMPO	0.7333	-1.8468	1.4173	1.1292	0	HiAiCNA	0
ENSG00000148459	PDSS1	0.7330	-1.8303	1.4895	1.0025	0	HiAiCNA	0
ENSG00000134690	CDCA8	0.7310	-1.7245	0.8273	1.7367	0	HiCnLOH	1
ENSG00000169684	CHRNA5	0.7293	-1.8649	1.3535	1.2470	0	HiAiCNA	0
ENSG00000110074	FOXRED1	0.7288	-1.6739	-2.0666	0.0518	0	LoSCINS	0
ENSG00000082212	ME2	0.7279	-1.7630	1.6331	0.6928	0	HiAiCNA	0
ENSG00000163918	RFC4	0.7277	-1.7525	0.9864	1.5645	0	HiCnLOH	0
ENSG00000132436	FIGNL1	0.7269	-1.9422	1.0119	1.8457	0	HiCnLOH	0
ENSG00000130653	PNPLA7	0.7268	-1.6146	-1.7354	-0.3050	0	LoSCINS	0
ENSG00000151465	CDC123	0.7263	-1.7186	1.6787	0.5561	0	HiAiCNA	0
ENSG00000124570	SERPINB6	0.7253	-1.4962	-1.9709	0.2164	0	LoSCINS	0
ENSG00000108055	SMC3	0.7239	-1.7866	1.7380	0.5879	0	HiAiCNA	0
ENSG00000133119	RFC3	0.7239	-1.7681	1.6337	0.7004	0	HiAiCNA	0
ENSG00000156284	CLDN8	0.7238	-1.6221	-0.8415	-1.5465	0	LoSCINS	0
ENSG00000071539	TRIP13	0.7237	-1.7249	1.1274	1.3246	0	HiCnLOH	0
ENSG00000242265	PEG10	0.7233	-1.6604	1.4663	0.7511	0	HiAiCNA	0
ENSG00000136108	CKAP2	0.7232	-1.7709	1.7604	0.5310	0	HiAiCNA	0
ENSG00000169679	BUB1	0.7216	-1.7374	0.9478	1.5925	0	HiCnLOH	0
ENSG00000171453	POLR1C	0.7210	-1.8780	1.3398	1.2878	0	HiAiCNA	0
ENSG00000151365	THRSP	0.7205	-1.6645	-1.0761	-1.2944	0	LoSCINS	0
ENSG00000123975	CKS2	0.7204	-1.7136	1.4602	0.8483	0	HiAiCNA	0
ENSG00000069248	NUP133	0.7201	-1.8504	1.3998	1.1592	0	HiAiCNA	0

ENSG00000119285	HEATR1	0.7178	-1.7505	1.5073	0.8450	0	HiAiCNA	0
ENSG00000092068	SLC7A8	0.7178	1.7244	-1.1373	-1.3102	0	LoSCINS	0
ENSG00000141002	TCF25	0.7173	1.7222	-1.7740	-0.4310	0	LoSCINS	0
ENSG00000139714	MORN3	0.7171	-1.6188	1.9050	0.0787	0	HiAiCNA	0
ENSG00000066557	LRRC40	0.7170	-1.5955	2.0227	-0.1221	0	HiAiCNA	0
ENSG00000096696	DSP	0.7134	-1.7143	1.1951	1.2140	0	HiCnLOH	0
ENSG00000160200	CBS	0.7133	-1.5235	1.6864	0.2203	0	HiAiCNA	0
ENSG00000112992	NNT	0.7118	-1.7661	1.0658	1.4779	0	HiCnLOH	1
ENSG00000183569	SERHL2	0.7117	1.6226	-1.0281	-1.2907	0	LoSCINS	0
ENSG00000100219	XBP1	0.7113	1.2768	0.1277	-2.3036	0	LoSCINS	0
ENSG00000162607	USP1	0.7112	-1.7417	1.4121	0.9611	0	HiAiCNA	0
ENSG00000165092	ALDH1A1	0.7104	1.6926	-0.9583	-1.5033	0	LoSCINS	0
ENSG00000165490	C11orf82	0.7094	-1.7209	0.8850	1.6512	0	HiCnLOH	0
ENSG00000182463	TSHZ2	0.7087	1.7241	-1.0503	-1.4292	0	LoSCINS	1
ENSG00000123545	NDUFAF4	0.7072	-1.7810	1.2362	1.2686	0	HiCnLOH	0
ENSG00000103876	FAH	0.7072	1.6788	-1.2106	-1.1335	0	LoSCINS	0
ENSG00000143387	CTSK	0.7060	1.5453	-0.4886	-1.9037	0	LoSCINS	0
ENSG00000170412	GPRC5C	0.7049	1.6180	-1.4213	-0.7424	0	LoSCINS	0
ENSG00000143756	FBXO28	0.7043	-1.7822	1.4295	1.0048	0	HiAiCNA	0
ENSG00000143977	SNRPG	0.7042	-1.7038	1.7442	0.4414	0	HiAiCNA	0
ENSG00000113719	ERGIC1	0.7042	1.6711	-1.6390	-0.5316	0	LoSCINS	0
ENSG00000143476	DTL	0.7039	-1.7395	0.7258	1.9013	0	HiCnLOH	0
ENSG00000140534	TICRR	0.7036	-1.8234	1.1448	1.4648	0	HiCnLOH	0
ENSG00000090020	SLC9A1	0.7036	1.6239	-1.7545	-0.2941	0	LoSCINS	1
ENSG00000144354	CDCA7	0.7014	-1.6219	0.9340	1.4189	0	HiCnLOH	0
ENSG00000099901	RANBP1	0.7012	-1.7354	1.2331	1.1968	0	HiAiCNA	0
ENSG00000151612	ZNF827	0.7012	1.1315	-2.0315	0.9074	0	LoSCINS	0
ENSG00000109501	WFS1	0.7010	1.6676	-1.5746	-0.6143	0	LoSCINS	0
ENSG00000102921	N4BP1	0.7010	1.8388	-1.4748	-1.0369	0	LoSCINS	0
ENSG00000120725	SIL1	0.7006	1.7289	-1.3426	-1.0354	0	LoSCINS	0
ENSG00000196793	ZNF239	0.7003	-1.5461	1.7597	0.1572	0	HiAiCNA	1
ENSG00000106477	CEP41	0.6988	-1.8502	0.9311	1.8034	0	HiCnLOH	0
ENSG00000143799	PARP1	0.6986	-1.6587	0.6931	1.8116	0	HiCnLOH	0
ENSG00000164972	C9orf24	0.6980	-1.0910	-0.5208	2.5345	0	HiCnLOH	0
ENSG00000092096	SLC22A17	0.6975	1.6510	-1.4343	-0.7795	0	LoSCINS	0
ENSG00000163938	GNL3	0.6973	-1.6008	1.8638	0.1053	0	HiAiCNA	0
ENSG00000139343	SNRPF	0.6968	-1.7471	1.4082	0.9756	0	HiAiCNA	0
ENSG00000143633	C1orf131	0.6964	-1.8010	1.2351	1.3034	0	HiCnLOH	0
ENSG00000135845	PIGC	0.6957	-1.7747	0.8010	1.8565	0	HiCnLOH	0
ENSG00000163507	KIAA1524	0.6956	-1.7388	0.5577	2.1312	0	HiCnLOH	1
ENSG00000173210	ABLIM3	0.6949	1.8147	-1.0610	-1.5657	0	LoSCINS	0
ENSG00000101665	METTL13	0.6944	-1.7005	0.6475	1.9438	0	HiCnLOH	0
ENSG00000130724	CHMP2A	0.6943	1.7247	-1.7193	-0.5105	0	LoSCINS	0
ENSG00000115648	MLPH	0.6943	1.5799	-1.1928	-0.9931	0	LoSCINS	0
ENSG00000163655	GMPS	0.6942	-1.6188	0.5647	1.9215	0	HiCnLOH	0
ENSG00000186871	ERCC6L	0.6942	-1.9660	1.4191	1.3254	0	HiAiCNA	0
ENSG00000126787	DLGAP5	0.6941	-1.6969	0.9581	1.5109	0	HiCnLOH	0
ENSG00000175745	NR2F1	0.6932	1.6568	-0.9039	-1.5184	0	LoSCINS	0
ENSG00000176890	TYMS	0.6927	-1.6033	1.4721	0.6480	0	HiAiCNA	0
ENSG00000196418	ZNF124	0.6924	-1.8212	1.6846	0.7190	0	HiAiCNA	0
ENSG00000000460	C1orf112	0.6913	-1.7160	0.9513	1.5520	0	HiCnLOH	0
ENSG00000087586	AURKA	0.6902	-1.6014	0.6868	1.7245	0	HiCnLOH	1
ENSG00000143228	NUF2	0.6900	-1.7332	1.2988	1.1028	0	HiAiCNA	0
ENSG00000106554	CHCHD3	0.6899	-1.6408	1.7707	0.2999	0	HiAiCNA	0
ENSG00000183160	TMEM119	0.6894	1.6289	-1.2434	-1.0052	0.35655 2629	LoSCINS	0
ENSG00000121236	TRIM6	0.6888	1.7016	-1.4046	-0.9046	0.35655 2629	LoSCINS	0
ENSG00000164104	HMGB2	0.6887	-1.6103	0.6621	1.7735	0.35655 2629	HiCnLOH	0
ENSG00000101166	SLMO2	0.6878	-1.7172	1.5510	0.7295	0.35655 2629	HiAiCNA	0
ENSG00000102910	LONP2	0.6876	1.7057	-1.0894	-1.3449	0.35655 2629	LoSCINS	0
ENSG00000165060	FXN	0.6869	2.0228	-2.1371	-0.4328	0.35655	LoSCINS	0

						2629		
						0.35655		
ENSG00000021762	OSBPL5	0.6868	1.6901	-1.1794	-1.1952	2629	LoSCINS	0
						0.35655		
ENSG00000169607	CKAP2L	0.6858	-1.6175	0.6130	1.8529	2629	HiCnLOH	1
						0.35655		
ENSG00000111247	RAD51AP1	0.6858	-1.5726	1.4887	0.5741	2629	HiAiCNA	0
						0.35655		
ENSG00000027075	PRKCH	0.6856	1.7028	-1.3440	-0.9899	2629	LoSCINS	0
						0.35655		
ENSG00000107937	GTPBP4	0.6850	-1.6789	1.2499	1.0796	2629	HiAiCNA	0
						0.35655		
ENSG00000093009	CDC45	0.6847	-1.6093	0.7096	1.7066	2629	HiCnLOH	0
						0.35655		
ENSG00000186193	SAPCD2	0.6843	-1.5327	0.4677	1.9114	2629	HiCnLOH	0
						0.35655		
ENSG00000113810	SMC4	0.6841	-1.6970	0.5223	2.1101	2629	HiCnLOH	1
						0.35655		
ENSG00000104221	BRF2	0.6836	-1.3125	-0.0918	2.3137	2629	HiCnLOH	0
						0.35655		
ENSG00000184575	XPOT	0.6835	-1.6958	1.5250	0.7293	2629	HiAiCNA	0
						0.35655		
ENSG00000000419	DPM1	0.6833	-1.4543	1.8854	-0.1687	2629	HiAiCNA	0
						0.35655		
ENSG00000100299	ARSA	0.6824	1.6099	-0.5094	-1.9827	2629	LoSCINS	0
						0.35655		
ENSG00000010295	IFFO1	0.6822	1.7060	-1.3002	-1.0555	2629	LoSCINS	0
						0.35655		
ENSG00000146842	TMEM209	0.6820	-1.7617	1.4102	0.9971	2629	HiAiCNA	0
						0.35655		
ENSG00000089009	RPL6	0.6816	-1.5891	1.6391	0.3948	2629	HiAiCNA	0
						0.35655		
ENSG00000128626	MRPS12	0.6803	-1.6994	1.5208	0.7412	2629	HiAiCNA	0
						0.35655		
ENSG00000185721	DRG1	0.6795	-1.7088	1.7059	0.5023	2629	HiAiCNA	0
						0.35655		
ENSG00000124571	XPO5	0.6792	-1.7340	1.2253	1.2052	2629	HiAiCNA	1
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ENSG00000088325	TPX2	0.6782	-1.5842	0.7587	1.5971	2629	HiCnLOH	1
						0.35655		
ENSG00000075399	VPS9D1	0.6780	1.1859	-2.0188	0.7992	2629	LoSCINS	0
						0.35655		
ENSG00000155561	NUP205	0.6774	-1.6916	1.0046	1.4380	2629	HiCnLOH	0
						0.35655		
ENSG00000196628	TCF4	0.6770	1.6609	-1.1889	-1.1335	2629	LoSCINS	0
						0.35655		
ENSG00000175643	RMI2	0.6765	-1.4393	0.2159	2.1019	2629	HiCnLOH	0
						0.35655		
ENSG00000122042	UBL3	0.6763	1.5530	-0.3968	-2.0427	2629	LoSCINS	0
						0.35655		
ENSG00000189042	ZNF567	0.6762	-1.7696	1.6551	0.6736	2629	HiAiCNA	0
						0.35655		
ENSG00000077942	FBLN1	0.6750	1.5908	-1.1271	-1.1016	2629	LoSCINS	0
						0.35655		
ENSG00000127528	KLF2	0.6745	1.6387	-1.1305	-1.1768	2629	LoSCINS	0
						0.35655		
ENSG00000117523	PRRC2C	0.6737	-1.7702	1.3030	1.1588	2629	HiAiCNA	0
						0.35655		
ENSG00000103196	CRISPLD2	0.6734	1.5935	-0.9031	-1.4141	2629	LoSCINS	0
						0.35655		
ENSG00000185883	ATP6V0C	0.6729	1.4428	-1.8674	0.1629	2629	LoSCINS	0
						0.35655		
ENSG00000112029	FBXO5	0.6729	-1.6515	1.1139	1.2209	2629	HiCnLOH	0
						0.35655		
ENSG00000180992	MRPL14	0.6727	-1.6944	1.4366	0.8487	2629	HiAiCNA	0
						0.35655		
ENSG00000112110	MRPL18	0.6725	-1.6558	1.5465	0.6333	2629	HiAiCNA	0
						0.35655		
ENSG00000172493	AFF1	0.6721	1.7520	-0.9971	-1.5489	2629	LoSCINS	0
						0.35655		
ENSG00000170540	ARL6IP1	0.6717	-1.7016	1.2640	1.0981	2629	HiAiCNA	0
						0.35655		
ENSG00000102575	ACP5	0.6715	1.3564	-0.1422	-2.0651	2629	LoSCINS	0
						0.35655		
ENSG00000168496	FEN1	0.6711	-1.6314	0.8896	1.4958	2629	HiCnLOH	1

ENSG00000108561	C1QBP	0.6709	-1.6544	0.8454	1.5949	0.35655 2629	HiCnLOH	0
ENSG00000168522	FNTA	0.6688	-1.6597	1.3127	0.9612	0.35655 2629	HiAiCNA	0
ENSG00000174871	CNIH2	0.6677	-1.4682	0.3170	2.0111	0.35655 2629	HiCnLOH	0
ENSG00000264247	LOC400657	0.6674	-1.6944	1.0082	1.4378	0.35655 2629	HiCnLOH	0
ENSG00000129351	ILF3	0.6672	-1.6473	0.8918	1.5193	0.35655 2629	HiCnLOH	0
ENSG00000158427	TMSB15B	0.6671	-1.3660	0.2301	1.9602	0.35655 2629	HiCnLOH	0
ENSG00000109956	B3GAT1	0.6670	1.6568	-1.4647	-0.7474	0.35655 2629	LoSCINS	0
ENSG00000095787	WAC	0.6668	-1.6321	1.6093	0.5073	0.35655 2629	HiAiCNA	0
ENSG00000173621	LRFN4	0.6665	-1.5961	0.8670	1.4681	0.35655 2629	HiCnLOH	0
ENSG00000141456	PELP1	0.6665	-1.2099	-0.2582	2.3716	0.35655 2629	HiCnLOH	0
ENSG00000105379	ETFB	0.6663	1.5722	-0.8729	-1.4201	0.35655 2629	LoSCINS	0
ENSG00000109084	TMEM97	0.6661	-1.6204	1.3765	0.8080	0.35655 2629	HiAiCNA	0
ENSG00000167612	ANKRD33	0.6657	1.6401	-1.2358	-1.0343	0.35655 2629	LoSCINS	0
ENSG00000117906	RCN2	0.6656	-1.6421	1.2219	1.0568	0.35655 2629	HiAiCNA	0
ENSG00000162298	SYVN1	0.6655	1.6874	-1.0928	-1.3098	0.35655 2629	LoSCINS	0
ENSG00000197324	LRP10	0.6650	1.6615	-1.2308	-1.0767	0.35655 2629	LoSCINS	0
ENSG00000100426	ZBED4	0.6649	-1.7132	1.1484	1.2763	0.35655 2629	HiCnLOH	0
ENSG00000156802	ATAD2	0.6649	-1.5282	1.5393	0.4304	0.35655 2629	HiAiCNA	0
ENSG00000125772	GPCPD1	0.6648	1.6611	-1.1601	-1.1734	0.35655 2629	LoSCINS	0
ENSG00000104231	ZFAND1	0.6648	-1.2702	1.8624	-0.4438	0.35655 2629	HiAiCNA	0
ENSG00000100121	GGTLC2	0.6646	1.5595	-0.8351	-1.4508	0.35655 2629	LoSCINS	0
ENSG00000148700	ADD3	0.6646	1.6233	-1.2431	-0.9962	0.35655 2629	LoSCINS	0
ENSG00000086475	SEPHS1	0.6643	-1.6427	1.2444	1.0268	0.35655 2629	HiAiCNA	0
ENSG00000090581	GNPTG	0.6643	1.6804	-1.2772	-1.0446	0.35655 2629	LoSCINS	0
ENSG00000239672	NME1	0.6634	-1.6491	1.1938	1.1071	0.35655 2629	HiAiCNA	0
ENSG00000132640	BTBD3	0.6632	-1.6113	0.9625	1.3621	0.35655 2629	HiCnLOH	0
ENSG00000131876	SNRPA1	0.6630	-1.6277	1.2666	0.9713	0.35655 2629	HiAiCNA	0
ENSG00000129625	REEP5	0.6622	1.5909	-1.0589	-1.1956	0.35655 2629	LoSCINS	0
ENSG00000147687	TATDN1	0.6620	-1.3214	1.7909	-0.2601	0.35655 2629	HiAiCNA	0
ENSG00000179409	GEMIN4	0.6618	-1.6280	0.7700	1.6546	0.35655 2629	HiCnLOH	0
ENSG00000143363	PRUNE	0.6616	-1.6449	0.7087	1.7671	0.35655 2629	HiCnLOH	1
ENSG00000187522	HSPA14	0.6610	-1.5927	1.3226	0.8359	0.71722 7253	HiAiCNA	0
ENSG00000143368	SF3B4	0.6609	-1.0530	-0.4893	2.4278	0.71722 7253	HiCnLOH	0
ENSG00000164163	ABCE1	0.6604	-1.6653	0.9906	1.4135	0.71722 7253	HiCnLOH	0
ENSG00000237649	KIFC1	0.6603	-1.5922	0.9046	1.4097	0.71722 7253	HiCnLOH	1
ENSG00000167840	ZNF232	0.6600	-1.7348	1.2327	1.1965	0.71722 7253	HiAiCNA	0
ENSG00000116750	UCHL5	0.6597	-1.6886	1.2536	1.0907	0.71722 7253	HiAiCNA	0
ENSG00000085552	IGSF9	0.6596	-1.3265	0.1219	2.0432	0.71722	HiCnLOH	0



							7253		
ENSG00000128891	C15orf57	0.6592	1.5549	-0.3845	-2.0629	0.71722	7253	LoSCINS	0
ENSG00000176485	PLA2G16	0.6582	1.4976	-1.3925	-0.5813	0.71722	7253	LoSCINS	0
ENSG00000138778	CENPE	0.6579	-1.4787	0.3612	1.9679	0.71722	7253	HiCnLOH	0
ENSG00000011426	ANLN	0.6573	-1.6098	1.1884	1.0489	0.71722	7253	HiAiCNA	0
ENSG00000121270	ABCC11	0.6573	1.4762	-0.7416	-1.4408	0.71722	7253	LoSCINS	1
ENSG00000128789	PSMG2	0.6570	-1.5306	1.7546	0.1385	0.71722	7253	HiAiCNA	0
ENSG00000213759	UGT2B11	0.6566	1.4650	-0.8085	-1.3300	0.71722	7253	LoSCINS	0
ENSG00000225921	NOL7	0.6563	-1.5213	1.7240	0.1650	0.71722	7253	HiAiCNA	0
ENSG00000075131	TIPIN	0.6559	-1.6783	0.7920	1.7080	0.71722	7253	HiCnLOH	0
ENSG00000165997	ARL5B	0.6558	-1.6265	0.9427	1.4147	0.71722	7253	HiCnLOH	0
ENSG00000156374	PCGF6	0.6557	-1.5532	1.7781	0.1437	0.71722	7253	HiAiCNA	0
ENSG00000163072	NOSTRIN	0.6551	1.4902	-0.6369	-1.6079	0.71722	7253	LoSCINS	0
ENSG00000061676	NCKAP1	0.6545	-1.3588	1.8624	-0.2962	0.71722	7253	HiAiCNA	0
ENSG00000143376	SNX27	0.6545	-1.5421	0.4186	1.9945	0.71722	7253	HiCnLOH	0
ENSG00000174442	ZWILCH	0.6545	-1.6559	1.0996	1.2480	0.71722	7253	HiCnLOH	0
ENSG00000109906	ZBTB16	0.6544	1.5302	-1.0609	-1.0916	0.71722	7253	LoSCINS	0
ENSG00000011465	DCN	0.6542	1.3476	-0.2422	-1.9130	0.71722	7253	LoSCINS	0
ENSG00000143321	HDGF	0.6532	-1.5442	0.6343	1.7016	0.71722	7253	HiCnLOH	0
ENSG00000163002	NUP35	0.6514	-1.5382	1.7579	0.1466	0.71722	7253	HiAiCNA	0
ENSG00000096092	TMEM14A	0.6509	-1.5828	1.2525	0.9158	0.71722	7253	HiAiCNA	0
ENSG00000137804	NUSAP1	0.6504	-1.4989	0.4728	1.8480	0.71722	7253	HiCnLOH	0
ENSG00000157456	CCNB2	0.6504	-1.5152	0.7412	1.5062	0.71722	7253	HiCnLOH	0
ENSG00000227357	HLA-DRB4	0.6503	0.7814	-1.7405	1.0908	0.71722	7253	HiCnLOH	0
ENSG00000116128	BCL9	0.6501	-0.7925	-0.8002	2.4212	0.71722	7253	HiCnLOH	0
ENSG00000000971	CFH	0.6499	1.6163	-1.0875	-1.1985	0.71722	7253	LoSCINS	0
ENSG00000185614	FAM212A	0.6497	1.6841	-1.4901	-0.7579	0.71722	7253	LoSCINS	0
ENSG00000163637	PRICKLE2	0.6497	1.5723	-0.9845	-1.2667	0.71722	7253	LoSCINS	0
ENSG00000153071	DAB2	0.6496	1.5721	-0.9854	-1.2653	0.71722	7253	LoSCINS	0
ENSG00000112242	E2F3	0.6491	-1.5713	0.8239	1.4860	0.71722	7253	HiCnLOH	0
ENSG00000117399	CDC20	0.6488	-1.4102	0.4158	1.7786	0.71722	7253	HiCnLOH	0
ENSG00000163444	TMEM183A	0.6488	-1.6573	1.2520	1.0407	0.71722	7253	HiAiCNA	0
ENSG00000130826	DKC1	0.6487	-1.6271	1.2348	1.0139	0.71722	7253	HiAiCNA	0
ENSG00000144554	FANCD2	0.6482	-1.5558	0.6900	1.6442	0.71722	7253	HiCnLOH	0
ENSG00000117151	CTBS	0.6481	1.4160	-0.1610	-2.1387	0.71722	7253	LoSCINS	0
ENSG00000177054	ZDHC13	0.6480	-1.5144	1.5480	0.3955	0.71722	7253	HiAiCNA	0
ENSG00000185875	THNSL1	0.6478	-1.5978	1.3377	0.8235	0.71722	7253	HiAiCNA	0
ENSG00000112742	TTK	0.6474	-1.5571	1.1006	1.0817	0.71722	7253	HiAiCNA	0

ENSG00000183765	CHEK2	0.6473	-1.4555	1.7527	0.0158	0.71722	7253	HiAiCNA	0
ENSG00000155096	AZIN1	0.6471	-1.5182	1.5510	0.3976	0.71722	7253	HiAiCNA	0
ENSG00000151715	TMEM45B	0.6471	1.6147	-1.2416	-0.9839	0.71722	7253	LoSCINS	1
ENSG00000197275	RAD54B	0.6467	-1.6887	1.4196	0.8626	0.71722	7253	HiAiCNA	0
ENSG00000116774	OLFML3	0.6467	1.5240	-1.1624	-0.9417	0.71722	7253	LoSCINS	0
ENSG00000174547	MRPL11	0.6466	-1.5890	1.4320	0.6793	0.71722	7253	HiAiCNA	0
ENSG00000145386	CCNA2	0.6459	-1.5334	0.8065	1.4467	0.71722	7253	HiCnLOH	0
ENSG00000067533	RRP15	0.6458	-1.6427	1.0188	1.3370	0.71722	7253	HiCnLOH	0
ENSG00000239900	ADSL	0.6447	-1.1699	1.9625	-0.7487	0.71722	7253	HiAiCNA	0
ENSG00000132746	ALDH3B2	0.6443	1.4453	-1.2378	-0.7069	0.71722	7253	LoSCINS	0
ENSG00000167261	DPEP2	0.6442	1.6207	-0.8874	-1.4810	0.71722	7253	LoSCINS	0
ENSG00000113758	DBN1	0.6435	-0.1224	-1.3981	2.1263	0.71722	7253	HiCnLOH	0
ENSG00000127415	IDUA	0.6435	1.5626	-1.5162	-0.5196	0.71722	7253	LoSCINS	0
ENSG00000117724	CENPF	0.6431	-1.4750	0.6122	1.6166	0.71722	7253	HiCnLOH	0
ENSG00000163811	WDR43	0.6429	-1.5542	1.6142	0.3709	0.71722	7253	HiAiCNA	0
ENSG00000184661	CDCA2	0.6427	-1.5745	1.1424	1.0533	0.71722	7253	HiAiCNA	0
ENSG00000198056	PRIM1	0.6425	-1.6331	1.2787	0.9636	0.71722	7253	HiAiCNA	0
ENSG00000118193	KIF14	0.6424	-1.5484	0.6679	1.6624	0.71722	7253	HiCnLOH	1
ENSG00000135226	UGT2B28	0.6420	1.4233	-0.7173	-1.3858	0.71722	7253	LoSCINS	0
ENSG00000170312	CDK1	0.6418	-1.4885	0.6554	1.5796	0.71722	7253	HiCnLOH	0
ENSG00000151502	VPS26B	0.6405	1.6927	-1.2496	-1.1030	0.71722	7253	LoSCINS	0
ENSG00000129810	SGOL1	0.6401	-1.6357	1.0834	1.2366	0.71722	7253	HiCnLOH	1
ENSG00000100031	GGT1	0.6401	1.4758	-0.7536	-1.4235	0.71722	7253	LoSCINS	0
ENSG00000156113	KCNMA1	0.6399	1.4937	-0.7215	-1.4975	0.71722	7253	LoSCINS	0
ENSG00000168350	DEGS2	0.6396	1.5587	-1.3582	-0.7303	0.71722	7253	LoSCINS	0
ENSG00000133872	TMEM66	0.6394	1.4658	-0.3981	-1.8957	0.71722	7253	LoSCINS	0
ENSG00000197912	SPG7	0.6392	0.7701	-1.8562	1.2688	0.71722	7253	HiCnLOH	0
ENSG00000197905	TEAD4	0.6391	-1.4177	1.6580	0.0830	0.71722	7253	HiAiCNA	0
ENSG00000107951	MTPAP	0.6388	-1.6112	1.1173	1.1490	0.71722	7253	HiCnLOH	0
ENSG00000123485	HJURP	0.6382	-1.4968	0.6281	1.6310	0.71722	7253	HiCnLOH	1
ENSG00000104889	RNASEH2A	0.6381	-1.4049	0.2150	2.0458	0.71722	7253	HiCnLOH	0
ENSG00000142731	PLK4	0.6379	-1.5892	1.0157	1.2522	0.71722	7253	HiCnLOH	0
ENSG00000122952	ZWINT	0.6371	-1.5067	0.7675	1.4558	0.71722	7253	HiCnLOH	0
ENSG00000175416	CLTB	0.6363	1.5841	-1.4896	-0.5920	0.71722	7253	LoSCINS	0
ENSG00000196405	EVL	0.6361	1.5344	-1.3738	-0.6684	0.71722	7253	LoSCINS	0
ENSG00000075702	WDR62	0.6359	-1.4745	0.1986	2.1844	0.71722	7253	HiCnLOH	0
ENSG00000140941	MAP1LC3B	0.6355	1.6181	-1.6190	-0.4706	0.71722	7253	LoSCINS	0
ENSG00000133740	E2F5	0.6353	-1.5013	1.3059	0.7065	0.71722	7253	HiAiCNA	0

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ENSG00000172594	SMPDL3A	0.6353	1.4639	-0.5472	-1.6875	0.71722	7253	LoSCINS	0
ENSG00000175221	MED16	0.6353	1.2996	-1.8317	0.3526	0.71722	7253	LoSCINS	0
ENSG00000134853	PDGFRA	0.6344	1.5525	-0.9830	-1.2359	0.76592	7869	LoSCINS	0
ENSG00000131470	PSMC3IP	0.6340	-1.6330	1.4346	0.7492	0.76592	7869	HiAiCNA	1
ENSG00000170759	KIF5B	0.6324	-1.5890	1.2592	0.9169	0.76592	7869	HiAiCNA	0
ENSG00000169252	ADRB2	0.6322	1.4600	-0.4350	-1.8352	0.76592	7869	LoSCINS	0
ENSG00000087274	ADD1	0.6317	1.3776	-1.8146	0.1991	0.76592	7869	LoSCINS	0
ENSG00000153207	AHCTF1	0.6313	-1.4940	1.5785	0.3196	0.76592	7869	HiAiCNA	0
ENSG00000186638	KIF24	0.6304	-1.1758	-0.2806	2.3455	0.76592	7869	HiCnLOH	1
ENSG00000175309	AGXT2L2	0.6303	1.7014	-1.1473	-1.2582	0.76592	7869	LoSCINS	0
ENSG00000117448	AKR1A1	0.6300	1.5740	-1.1697	-1.0150	0.76592	7869	LoSCINS	0
ENSG00000159131	GART	0.6298	-1.5597	1.4024	0.6711	0.76592	7869	HiAiCNA	0
ENSG00000165124	SVEP1	0.6291	1.4603	-0.7358	-1.4221	0.76592	7869	LoSCINS	0
ENSG00000143367	TUFT1	0.6289	-1.1411	-0.1548	2.1147	0.76592	7869	HiCnLOH	0
ENSG00000111843	TMEM14C	0.6289	-1.4893	1.5111	0.4043	0.76592	7869	HiAiCNA	0
ENSG00000139344	AMDHD1	0.6288	-0.8409	1.8492	-1.1412	0.76592	7869	HiAiCNA	0
ENSG00000183576	SETD3	0.6286	1.6234	-0.7735	-1.6422	0.76592	7869	LoSCINS	0
ENSG00000239697	TNFSF12	0.6285	1.6083	-1.4115	-0.7396	0.76592	7869	LoSCINS	0
ENSG00000115255	REEP6	0.6285	1.4409	-0.9862	-1.0455	0.76592	7869	LoSCINS	0
ENSG00000198700	IPO9	0.6280	-1.4780	0.3984	1.9154	0.76592	7869	HiCnLOH	0
ENSG00000149503	INCENP	0.6278	-1.5845	0.5934	1.8248	0.76592	7869	HiCnLOH	0
ENSG00000179041	RRS1	0.6276	-1.4976	1.4549	0.4955	0.76592	7869	HiAiCNA	0
ENSG00000179593	ALOX15B	0.6275	1.4386	-0.9763	-1.0553	0.76592	7869	LoSCINS	0
ENSG00000165732	DDX21	0.6275	-1.4896	1.3963	0.5628	0.76592	7869	HiAiCNA	0
ENSG00000103197	TSC2	0.6273	0.6335	-1.8984	1.5545	0.76592	7869	HiCnLOH	0
ENSG00000143157	POGK	0.6273	-1.5392	0.8706	1.3683	0.76592	7869	HiCnLOH	0
ENSG00000184113	CLDN5	0.6273	1.5175	-1.0970	-1.0209	0.76592	7869	LoSCINS	0
ENSG00000136758	YME1L1	0.6267	-1.3125	1.6813	-0.1242	0.76592	7869	HiAiCNA	0
ENSG00000117650	NEK2	0.6263	-1.6270	1.0792	1.2278	0.76592	7869	HiCnLOH	1
ENSG00000008405	CRY1	0.6260	-1.2502	1.8430	-0.4504	0.76592	7869	HiAiCNA	0
ENSG00000163683	SMIM14	0.6256	1.4721	-0.8638	-1.2658	0.76592	7869	LoSCINS	0
ENSG00000075188	NUP37	0.6254	-1.5482	1.4411	0.5988	0.76592	7869	HiAiCNA	0
ENSG00000178950	GAK	0.6251	1.5445	-1.5044	-0.5056	0.76592	7869	LoSCINS	0
ENSG00000136824	SMC2	0.6250	-1.5811	0.5821	1.8348	0.76592	7869	HiCnLOH	0
ENSG00000169583	CLIC3	0.6248	1.3798	-1.3880	-0.3911	0.76592	7869	LoSCINS	0
ENSG00000256043	CTSO	0.6248	1.2520	-1.7547	0.3261	0.76592	7869	LoSCINS	0
ENSG00000151498	ACAD8	0.6241	1.5693	-1.1458	-1.0401	0.76592	7869	LoSCINS	0

ENSG00000123219	CENPK	0.6240	-1.5889	0.9204	1.3825	0.76592 7869	HiCnLOH	0
ENSG00000172167	MTBP	0.6237	-1.6289	1.4122	0.7731	0.76592 7869	HiAiCNA	0
ENSG00000187955	COL14A1	0.6237	1.4818	-0.6979	-1.5100	0.76592 7869	LoSCINS	0
ENSG00000035687	ADSS	0.6237	-1.1818	1.8054	-0.5129	0.76592 7869	HiAiCNA	0
ENSG00000204856	FAM216A	0.6233	-1.4244	1.5288	0.2719	0.76592 7869	HiAiCNA	0
ENSG00000166226	CCT2	0.6226	-1.5895	1.1850	1.0198	0.76592 7869	HiAiCNA	0
ENSG00000100307	CBX7	0.6225	1.5497	-0.7310	-1.5778	0.76592 7869	LoSCINS	0
ENSG00000143614	GATAD2B	0.6224	-1.4535	0.3287	1.9706	0.76592 7869	HiCnLOH	0
ENSG00000249773	MRPS17	0.6220	-1.4860	0.6715	1.5534	0.76592 7869	HiCnLOH	0
ENSG00000121310	ECHDC2	0.6218	1.4761	-1.2682	-0.7163	0.76592 7869	LoSCINS	0
ENSG00000142632	ARHGEF19	0.6218	-1.2597	0.0684	2.0054	0.76592 7869	HiCnLOH	0
ENSG00000173638	SLC19A1	0.6216	-1.5770	0.8229	1.4968	0.76592 7869	HiCnLOH	0
ENSG00000047346	FAM214A	0.6215	1.4650	-0.6555	-1.5403	0.76592 7869	LoSCINS	0
ENSG00000013288	MAN2B2	0.6213	1.5278	-1.3100	-0.7450	0.76592 7869	LoSCINS	0
ENSG00000159377	PSMB4	0.6212	-1.3314	0.1291	2.0415	0.76592 7869	HiCnLOH	0
ENSG00000178028	DMAP1	0.6210	1.1921	-1.8991	0.6244	0.76592 7869	LoSCINS	0
ENSG00000010322	NISCH	0.6204	1.3137	-1.8022	0.2884	0.76592 7869	LoSCINS	0
ENSG00000165629	ATP5C1	0.6203	-1.5480	0.9415	1.2855	0.76592 7869	HiCnLOH	0
ENSG00000146066	HIGD2A	0.6202	1.5680	-1.4851	-0.5713	0.76592 7869	LoSCINS	0
ENSG00000116299	KIAA1324	0.6200	1.3871	-1.2383	-0.6091	0.76592 7869	LoSCINS	1
ENSG00000166548	TK2	0.6200	1.6538	-1.2114	-1.0907	0.76592 7869	LoSCINS	0
ENSG00000002586	CD99	0.6198	1.5032	-1.2305	-0.8133	0.76592 7869	LoSCINS	0
ENSG00000080546	SESN1	0.6191	1.5316	-1.0103	-1.1635	0.76592 7869	LoSCINS	0
ENSG00000160818	GPATCH4	0.6183	-1.5481	0.9997	1.2055	0.76592 7869	HiCnLOH	0
ENSG00000182899	RPL35A	0.6181	-1.5324	1.3014	0.7645	0.76592 7869	HiAiCNA	0
ENSG00000124795	DEK	0.6173	-1.4206	1.4231	0.4108	0.76592 7869	HiAiCNA	0
ENSG00000068489	PRR11	0.6170	-1.5718	1.0415	1.1876	0.76592 7869	HiCnLOH	0
ENSG00000203485	INF2	0.6170	1.0244	-1.7642	0.7185	0.76592 7869	LoSCINS	0
ENSG00000183340	JRKL	0.6166	-1.7394	1.2264	1.2127	0.76592 7869	HiAiCNA	0
ENSG00000143498	TAF1A	0.6161	-1.7309	1.1878	1.2515	0.76592 7869	HiCnLOH	0
ENSG00000116161	CACYBP	0.6155	-1.4619	1.3203	0.6212	0.76592 7869	HiAiCNA	0
ENSG00000135776	ABCB10	0.6151	-1.5205	1.4508	0.5394	0.96560 5563	HiAiCNA	0
ENSG00000179344	HLA-DQB1	0.6150	1.1923	-1.5613	0.1597	0.96560 5563	LoSCINS	0
ENSG00000144231	POLR2D	0.6150	-1.5830	0.8135	1.5197	0.96560 5563	HiCnLOH	0
ENSG00000121211	MND1	0.6149	-1.4793	0.6079	1.6296	0.96560 5563	HiCnLOH	0
ENSG00000152583	SPARCL1	0.6149	1.4353	-0.7937	-1.3008	0.96560 5563	LoSCINS	0
ENSG00000020922	MRE11A	0.6142	-1.6875	1.2636	1.0751	0.96560 5563	HiAiCNA	0
ENSG00000149554	CHEK1	0.6139	-1.4403	0.6041	1.5700	0.96560	HiCnLOH	0

						5563		
						0.96560		
ENSG00000162959	MEMO1	0.6139	-1.4322	1.6786	0.0790	5563	HiAiCNA	0
						0.96560		
ENSG00000130222	GADD45G	0.6136	1.3381	-1.5306	-0.1255	5563	LoSCINS	0
						0.96560		
ENSG00000154839	SKA1	0.6126	-1.3499	0.2991	1.8385	5563	HiCnLOH	0
						0.96560		
ENSG00000109929	SC5DL	0.6124	1.4391	-0.9282	-1.1223	5563	LoSCINS	1
						0.96560		
ENSG00000141401	IMPA2	0.6118	-1.4389	0.8563	1.2207	5563	HiCnLOH	0
						0.96560		
ENSG00000138639	ARHGAP24	0.6116	1.5892	-1.1155	-1.1148	5563	LoSCINS	0
						0.96560		
ENSG00000124160	NCOA5	0.6113	-1.2232	-0.0982	2.1736	5563	HiCnLOH	0
						0.96560		
ENSG00000156127	BATF	0.6111	1.4635	-0.9202	-1.1739	5563	LoSCINS	0
						0.96560		
ENSG00000080986	NDC80	0.6105	-1.4650	0.6506	1.5470	5563	HiCnLOH	0
						0.96560		
ENSG00000159842	ABR	0.6103	1.3325	-1.6974	0.1130	5563	LoSCINS	0
						0.96560		
ENSG00000005100	DHX33	0.6097	-1.5222	0.7406	1.5187	5563	HiCnLOH	0
						0.96560		
ENSG00000172081	MOB3A	0.6097	1.5234	-1.6195	-0.3121	5563	LoSCINS	0
						0.96560		
ENSG00000120370	GORAB	0.6096	-1.4927	1.5531	0.3523	5563	HiAiCNA	0
						0.96560		
ENSG00000137770	CTDSPL2	0.6092	-1.4780	1.9067	-0.1584	5563	HiAiCNA	0
						0.96560		
ENSG00000167617	CDC42EP5	0.6092	1.4456	-1.0550	-0.9587	5563	LoSCINS	0
						0.96560		
ENSG00000138326	RPS24	0.6089	-1.4560	1.0994	0.9150	5563	HiAiCNA	0
						0.96560		
ENSG00000001167	NFYA	0.6087	-1.5863	1.2210	0.9649	5563	HiAiCNA	0
						0.96560		
ENSG00000105176	URI1	0.6087	-1.5209	1.2603	0.8019	5563	HiAiCNA	0
						0.96560		
ENSG00000165609	NUDT5	0.6081	-1.4515	1.3229	0.6001	5563	HiAiCNA	0
						0.96560		
ENSG00000088882	CPXM1	0.6077	1.4759	-1.0003	-1.0843	5563	LoSCINS	0
						0.96560		
ENSG00000121851	POLR3GL	0.6075	1.5704	-1.2630	-0.8806	5563	LoSCINS	0
						0.96560		
ENSG00000114812	VIPR1	0.6071	1.4760	-0.9172	-1.1989	5563	LoSCINS	0
						0.96560		
ENSG00000135914	HTR2B	0.6068	1.3689	-0.3549	-1.7934	5563	LoSCINS	0
						0.96560		
ENSG00000175348	TMEM9B	0.6067	1.5363	-0.6665	-1.6441	5563	LoSCINS	0
						0.96560		
ENSG00000117289	TXNIP	0.6063	1.4886	-0.9234	-1.2113	5563	LoSCINS	0
						0.96560		
ENSG00000112902	SEMA5A	0.6063	1.6563	-1.2589	-1.0297	5563	LoSCINS	0
						0.96560		
ENSG00000119787	ATL2	0.6056	-1.4572	1.2795	0.6693	5563	HiAiCNA	0
						0.96560		
ENSG00000171793	CTPS1	0.6052	-1.4617	0.7413	1.4170	5563	HiCnLOH	0
						0.96560		
ENSG00000115252	PDE1A	0.6051	1.4945	-0.7705	-1.4315	5563	LoSCINS	0
						0.96560		
ENSG00000073737	DHRS9	0.6049	1.1355	0.0419	-1.9500	5563	LoSCINS	0
						0.96560		
ENSG00000152253	SPC25	0.6049	-1.5714	1.0585	1.1636	5563	HiCnLOH	1
						0.96560		
ENSG00000155366	RHOC	0.6048	1.4790	-1.3515	-0.6066	5563	LoSCINS	0
						0.96560		
ENSG00000128016	ZFP36	0.6047	1.4594	-0.9258	-1.1594	5563	LoSCINS	0
						0.96560		
ENSG00000143612	C1orf43	0.6046	-1.5654	1.0899	1.1104	5563	HiCnLOH	0
						0.96560		
ENSG00000171234	UGT2B7	0.6041	1.3417	-0.7088	-1.2615	5563	LoSCINS	0
						0.96560		
ENSG00000101844	ATG4A	0.6039	1.6097	-0.9718	-1.3465	5563	LoSCINS	0
						0.96560		
ENSG00000075303	SLC25A40	0.6038	-1.5385	1.4887	0.5172	5563	HiAiCNA	0

ENSG00000144034	TPRKB	0.6037	-1.4778	1.4557	0.4614	0.96560	5563	HiAiCNA	0
ENSG00000166482	MFAP4	0.6035	1.3964	-0.8415	-1.1703	0.96560	5563	LoSCINS	0
ENSG00000099783	HNRNPM	0.6035	-1.2672	-0.0733	2.2127	0.96560	5563	HiCnLOH	0
ENSG00000163808	KIF15	0.6031	-1.5420	1.0100	1.1813	0.96560	5563	HiCnLOH	1
ENSG00000174607	UGT8	0.6031	-1.3341	1.4528	0.2260	0.96560	5563	HiAiCNA	0
ENSG00000113924	HGD	0.6030	1.4361	-0.7851	-1.3140	0.96560	5563	LoSCINS	0
ENSG00000051341	POLQ	0.6026	-1.3773	0.4063	1.7369	0.96560	5563	HiCnLOH	0
ENSG00000105472	CLEC11A	0.6020	1.4450	-0.8810	-1.1969	0.96560	5563	LoSCINS	0
ENSG00000135452	TSPAN31	0.6019	1.5150	-1.1783	-0.9049	0.96560	5563	LoSCINS	0
ENSG00000205593	DENND6B	0.6015	1.5323	-0.8983	-1.3187	0.96560	5563	LoSCINS	0
ENSG00000184347	SLIT3	0.6011	1.4699	-1.0761	-0.9701	0.96560	5563	LoSCINS	0
ENSG00000104738	MCM4	0.6009	-1.3969	0.5513	1.5700	0.96560	5563	HiCnLOH	0
ENSG00000150594	ADRA2A	0.6007	1.5849	-1.2905	-0.8670	0.96560	5563	LoSCINS	0
ENSG00000164944	KIAA1429	0.6004	-1.5357	1.6491	0.2920	0.96560	5563	HiAiCNA	0
ENSG00000171316	CHD7	0.6002	-1.4899	1.2019	0.8305	0.96560	5563	HiAiCNA	0
ENSG00000152382	TADA1	0.6000	-1.5327	0.9124	1.2999	0.96560	5563	HiCnLOH	0
ENSG00000100526	CDKN3	0.6000	-1.4572	0.9632	1.1042	0.96560	5563	HiCnLOH	0
ENSG00000149100	EIF3M	0.5996	-1.0849	1.7039	-0.5346	0.96560	5563	HiAiCNA	0
ENSG00000006757	PNPLA4	0.5996	1.6674	-1.0543	-1.3293	0.96560	5563	LoSCINS	1
ENSG00000100139	MICALL1	0.5994	-1.4139	0.4632	1.7196	0.96560	5563	HiCnLOH	0
ENSG00000170899	GSTA4	0.5992	-1.4409	0.9118	1.1477	0.96560	5563	HiCnLOH	0
ENSG00000188167	TMPPE	0.5991	-1.5957	1.6118	0.4433	0.96560	5563	HiAiCNA	0
ENSG00000068912	ERLEC1	0.5990	1.1202	0.2385	-2.1949	0.96560	5563	LoSCINS	0
ENSG00000155957	TMBIM4	0.5989	1.2630	-0.1178	-1.9430	0.96560	5563	LoSCINS	0
ENSG00000130770	ATPIF1	0.5985	1.4776	-1.2522	-0.7408	0.96560	5563	LoSCINS	0
ENSG00000164331	ANKRA2	0.5985	1.5663	-0.8782	-1.4029	0.96560	5563	LoSCINS	0
ENSG00000132622	HSPA12B	0.5984	1.4728	-0.8451	-1.2927	0.96560	5563	LoSCINS	0
ENSG00000113368	LMNB1	0.5983	-1.4243	0.3200	1.9339	0.96560	5563	HiCnLOH	0
ENSG00000153767	GTF2E1	0.5980	-1.5827	1.1486	1.0586	0.96560	5563	HiAiCNA	0
ENSG00000166508	MCM7	0.5978	-1.4014	1.4640	0.3227	0.96560	5563	HiAiCNA	0
ENSG00000184220	CMSS1	0.5978	-1.4998	1.3191	0.6859	0.96560	5563	HiAiCNA	0
ENSG00000174953	DHX36	0.5973	-1.4931	0.7048	1.5194	0.96560	5563	HiCnLOH	0
ENSG00000155959	VBP1	0.5972	-1.4530	1.3219	0.6040	0.96560	5563	HiAiCNA	0
ENSG00000125388	GRK4	0.5971	1.5870	-1.0898	-1.1465	0.96560	5563	LoSCINS	0
ENSG00000179979	CRIPAK	0.5969	1.4104	-1.4230	-0.3941	0.96560	5563	LoSCINS	0
ENSG00000172725	CORO1B	0.5969	1.5193	-1.1479	-0.9539	0.96560	5563	LoSCINS	0
ENSG00000153560	UBP1	0.5968	-1.4455	1.4890	0.3619	0.96560	5563	HiAiCNA	0
ENSG00000244462	RBM12	0.5966	-1.6356	0.9281	1.4500	0.96560	5563	HiCnLOH	0

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ENSG00000019144	PHLDB1	0.5964	1.2779	-1.5851	0.0497	1.33204 8468	LoSCINS		0
ENSG00000072858	SIDT1	0.5963	1.4356	-0.7538	-1.3561	1.33204 8468	LoSCINS		0
ENSG00000127564	PKMYT1	0.5962	-1.4147	0.4940	1.6786	1.33204 8468	HiCnLOH		0
ENSG00000159445	THEM4	0.5961	-1.1364	-0.2047	2.1754	1.33204 8468	HiCnLOH		0
ENSG00000113328	CCNG1	0.5960	1.4461	-0.7278	-1.4094	1.33204 8468	LoSCINS		0
ENSG00000145147	SLIT2	0.5959	1.4730	-0.8593	-1.2736	1.33204 8468	LoSCINS		0
ENSG00000166197	NOLC1	0.5958	-1.4961	1.2324	0.7990	1.33204 8468	HiAiCNA		0
ENSG00000198015	MRPL42	0.5958	-1.4930	1.0505	1.0439	1.33204 8468	HiAiCNA		0
ENSG00000182902	SLC25A18	0.5958	1.4375	-0.8924	-1.1688	1.33204 8468	LoSCINS		0
ENSG00000138182	KIF20B	0.5958	-1.4792	0.9520	1.1563	1.33204 8468	HiCnLOH		0
ENSG00000148773	MKI67	0.5947	-1.2654	0.0677	2.0159	1.33204 8468	HiCnLOH		0
ENSG00000100867	DHRS2	0.5942	1.3676	-0.7277	-1.2788	1.33204 8468	LoSCINS		0
ENSG00000159763	PIP	0.5937	1.3305	-0.8561	-1.0404	1.33204 8468	LoSCINS		0
ENSG00000183019	C19orf59	0.5935	-1.5525	1.2683	0.8436	1.33204 8468	HiAiCNA		0
ENSG00000196139	AKR1C3	0.5933	1.3804	-0.9674	-0.9704	1.33204 8468	LoSCINS		0
ENSG00000111206	FOXMI	0.5932	-1.3964	0.7795	1.2555	1.33204 8468	HiCnLOH		0
ENSG00000175832	ETV4	0.5922	-1.4342	0.9767	1.0474	1.33204 8468	HiCnLOH		0
ENSG00000118007	STAG1	0.5921	-1.5434	0.7541	1.5355	1.33204 8468	HiCnLOH		0
ENSG00000173566	NUDT18	0.5920	1.4958	-0.8522	-1.3213	1.33204 8468	LoSCINS		0
ENSG00000241644	INMT	0.5919	1.4230	-0.5985	-1.5486	1.33204 8468	LoSCINS		0
ENSG00000143514	TP53BP2	0.5919	-1.4217	0.8136	1.2508	1.33204 8468	HiCnLOH		0
ENSG00000117643	MAN1C1	0.5918	1.4538	-1.1687	-0.8160	1.33204 8468	LoSCINS		0
ENSG00000143248	RGS5	0.5917	1.4011	-1.2853	-0.5679	1.33204 8468	LoSCINS		0
ENSG00000213463	SYNJ2BP	0.5917	1.4742	-1.0803	-0.9717	1.33204 8468	LoSCINS		0
ENSG00000119138	KLF9	0.5914	1.3308	-0.4268	-1.6311	1.33204 8468	LoSCINS		0
ENSG00000185798	WDR53	0.5911	-1.5057	0.6379	1.6323	1.33204 8468	HiCnLOH		0
ENSG00000112651	MRPL2	0.5911	-1.3927	0.3951	1.7779	1.33204 8468	HiCnLOH		0
ENSG00000150907	FOXO1	0.5910	1.4438	-0.7317	-1.4003	1.33204 8468	LoSCINS		0
ENSG00000102384	CENPI	0.5907	-1.6549	0.7532	1.7225	1.33204 8468	HiCnLOH		1
ENSG00000114503	NCBP2	0.5905	-1.5079	0.9309	1.2332	1.33204 8468	HiCnLOH		0
ENSG00000137812	CASC5	0.5901	-1.6886	0.7879	1.7310	1.33204 8468	HiCnLOH		0
ENSG00000102172	SMS	0.5899	-1.3950	1.3385	0.4845	1.33204 8468	HiAiCNA		0
ENSG00000132313	MRPL35	0.5897	-1.6440	1.3264	0.9161	1.33204 8468	HiAiCNA		0
ENSG00000110169	HPX	0.5897	1.3922	-0.9891	-0.9603	1.33204 8468	LoSCINS		0
ENSG00000118096	IFT46	0.5895	1.4162	-0.5886	-1.5509	1.33204 8468	LoSCINS		0
ENSG00000147140	NONO	0.5895	-0.3103	-1.2654	2.2571	1.33204 8468	HiCnLOH		0
ENSG00000154330	PGM5	0.5892	1.2264	-0.2058	-1.7610	1.33204 8468	LoSCINS		0

ENSG00000176273	SLC35G1	0.5892	-1.5622	1.3308	0.7738	1.33204 8468	HiAiCNA	0
ENSG00000143179	UCK2	0.5881	-1.4209	0.7839	1.2903	1.33204 8468	HiCnLOH	0
ENSG00000134755	DSC2	0.5880	-1.1694	1.5334	-0.1595	1.33204 8468	HiAiCNA	0
ENSG00000160124	CCDC58	0.5879	-1.3370	0.4101	1.6645	1.33204 8468	HiCnLOH	0
ENSG00000128228	SDF2L1	0.5879	1.2227	-0.1104	-1.8860	1.33204 8468	LoSCINS	0
ENSG00000197746	PSAP	0.5876	1.3094	-1.6835	0.1324	1.33204 8468	LoSCINS	0
ENSG00000166855	CLPX	0.5876	-1.5197	1.2790	0.7742	1.33204 8468	HiAiCNA	0
ENSG00000121022	COPS5	0.5868	-1.1439	1.6962	-0.4258	1.33204 8468	HiAiCNA	0
ENSG00000089289	IGBP1	0.5863	1.5058	-0.9952	-1.1413	1.33204 8468	LoSCINS	0
ENSG00000126705	AHDC1	0.5860	0.8434	-1.8101	1.0832	1.33204 8468	HiCnLOH	0
ENSG00000187231	SESTD1	0.5859	-1.4402	1.2992	0.6140	1.33204 8468	HiAiCNA	0
ENSG00000163006	CCDC138	0.5856	-1.5317	0.6401	1.6728	1.33204 8468	HiCnLOH	0
ENSG00000147536	GINS4	0.5852	-1.3863	0.4095	1.7475	1.33204 8468	HiCnLOH	0
ENSG00000109475	RPL34	0.5852	-1.4317	0.9579	1.0690	1.33204 8468	HiCnLOH	0
ENSG00000133961	NUMB	0.5852	1.5413	-1.0212	-1.1648	1.33204 8468	LoSCINS	0
ENSG00000137955	RABGGTB	0.5847	-1.3757	1.4580	0.2880	1.33204 8468	HiAiCNA	0
ENSG00000147604	RPL7	0.5846	-1.3979	1.3207	0.5139	1.33204 8468	HiAiCNA	0
ENSG00000164754	RAD21	0.5846	-1.2001	1.5186	-0.0879	1.33204 8468	HiAiCNA	0
ENSG00000138614	VWA9	0.5845	-1.4444	1.4443	0.4215	1.33204 8468	HiAiCNA	0
ENSG00000184162	NR2C2AP	0.5842	-1.4808	0.9071	1.2207	1.33204 8468	HiCnLOH	0
ENSG00000169071	ROR2	0.5842	1.4433	-0.9492	-1.1004	1.33204 8468	LoSCINS	0
ENSG00000046653	GPM6B	0.5842	-1.4820	1.2178	0.7955	1.33204 8468	HiAiCNA	0
ENSG00000137563	GGH	0.5837	-1.3637	1.1367	0.7099	1.33204 8468	HiAiCNA	0
ENSG00000147573	TRIM55	0.5836	1.4297	-0.9030	-1.1412	1.33204 8468	LoSCINS	0
ENSG00000087338	GMCL1	0.5834	-1.3042	1.6807	-0.1373	1.33204 8468	HiAiCNA	0
ENSG00000160703	NLRX1	0.5833	1.4256	-1.5636	-0.2261	1.33204 8468	LoSCINS	0
ENSG00000111581	NUP107	0.5832	-1.4342	0.5402	1.6476	1.33204 8468	HiCnLOH	0
ENSG00000200913	SNORD46	0.5830	-0.9011	1.7037	-0.8409	1.33204 8468	HiAiCNA	0
ENSG00000111665	CDCA3	0.5829	-1.3686	0.7283	1.2795	1.33204 8468	HiCnLOH	0
ENSG00000198818	SFT2D1	0.5829	-1.2547	1.5840	-0.0869	1.33204 8468	HiAiCNA	0
ENSG00000131149	GSE1	0.5825	1.3861	-1.2957	-0.5286	1.33204 8468	LoSCINS	0
ENSG00000108953	YWHAE	0.5823	-1.5548	1.4915	0.5405	1.33204 8468	HiAiCNA	0
ENSG00000104903	LYL1	0.5822	1.4465	-1.1183	-0.8731	1.33204 8468	LoSCINS	0
ENSG00000257704	PRR24	0.5820	1.4386	-1.3075	-0.5999	1.33204 8468	LoSCINS	0
ENSG00000105355	PLIN3	0.5817	1.4201	-1.2172	-0.6932	1.33204 8468	LoSCINS	0
ENSG00000076248	UNG	0.5816	-1.3100	1.4151	0.2376	1.33204 8468	HiAiCNA	0
ENSG00000157800	SLC37A3	0.5815	-1.4454	1.5287	0.3070	1.33204 8468	HiAiCNA	0
ENSG00000215068	LOC153684	0.5810	1.6383	-1.0037	-1.3504	1.33204	LoSCINS	0



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ENSG00000135451	TROAP	0.5810	-1.2261	0.1866	1.7870	1.33204	8468	HiCnLOH	0
ENSG00000154262	ABCA6	0.5810	1.4479	-0.7865	-1.3318	1.33204	8468	LoSCINS	0
ENSG00000136717	BIN1	0.5802	1.3849	-1.1742	-0.6937	1.33204	8468	LoSCINS	0
ENSG00000175792	RUVBL1	0.5800	-1.3985	0.5755	1.5395	1.33204	8468	HiCnLOH	0
ENSG00000156970	BUB1B	0.5799	-1.1502	-0.2834	2.3067	1.33204	8468	HiCnLOH	0
ENSG00000182636	NDN	0.5794	1.3683	-0.7821	-1.2052	1.33204	8468	LoSCINS	0
ENSG00000167005	NUDT21	0.5792	-1.2458	1.6054	-0.1310	1.33204	8468	HiAiCNA	0
ENSG00000143575	HAX1	0.5792	-1.5163	1.1124	0.9976	1.33204	8468	HiAiCNA	0
ENSG00000174348	PODN	0.5786	1.2623	-0.4251	-1.5192	1.33204	8468	LoSCINS	0
ENSG00000144655	CSRNP1	0.5783	1.4263	-1.2154	-0.7060	1.33204	8468	LoSCINS	0
ENSG00000164125	FAM198B	0.5778	1.3636	-0.7428	-1.2513	1.33204	8468	LoSCINS	0
ENSG00000143742	SRP9	0.5777	-1.4741	0.7454	1.4320	1.90290	0633	HiCnLOH	0
ENSG00000134240	HMGS2	0.5776	1.3153	-0.9990	-0.8185	1.90290	0633	LoSCINS	0
ENSG00000141030	COPS3	0.5774	-1.4867	1.3472	0.6253	1.90290	0633	HiAiCNA	0
ENSG00000111845	PAK1IP1	0.5773	-1.3562	1.3896	0.3496	1.90290	0633	HiAiCNA	0
ENSG00000188092	GPR89B	0.5772	-1.2036	1.6150	-0.2147	1.90290	0633	HiAiCNA	0
ENSG00000124767	GLO1	0.5770	-0.9206	1.6717	-0.7643	1.90290	0633	HiAiCNA	0
ENSG00000155438	MKI67IP	0.5770	-1.4214	1.3993	0.4450	1.90290	0633	HiAiCNA	0
ENSG00000131808	FSHB	0.5766	-1.2452	-0.1621	2.2981	1.90290	0633	HiCnLOH	0
ENSG00000186594	MIR22HG	0.5766	1.4348	-1.4258	-0.4310	1.90290	0633	LoSCINS	0
ENSG00000119711	ALDH6A1	0.5764	1.4127	-1.0599	-0.8971	1.90290	0633	LoSCINS	0
ENSG00000160803	UBQLN4	0.5764	-1.2871	0.3308	1.6903	1.90290	0633	HiCnLOH	0
ENSG00000079337	RAPGEF3	0.5763	1.4493	-1.5047	-0.3464	1.90290	0633	LoSCINS	0
ENSG00000116957	TBCE	0.5761	-1.4614	0.8623	1.2500	1.90290	0633	HiCnLOH	0
ENSG00000134265	NAPG	0.5759	-1.3942	0.3645	1.8224	1.90290	0633	HiCnLOH	0
ENSG00000041357	PSMA4	0.5757	-1.4728	0.9993	1.0806	1.90290	0633	HiCnLOH	0
ENSG00000183598	HIST2H3D	0.5756	-1.3706	0.3130	1.8540	1.90290	0633	HiCnLOH	0
ENSG00000106605	BLVRA	0.5755	1.3550	-1.3086	-0.4590	1.90290	0633	LoSCINS	0
ENSG00000136875	PRPF4	0.5755	-1.2526	0.1253	1.9153	1.90290	0633	HiCnLOH	0
ENSG00000099864	PALM	0.5753	1.2434	-1.4162	-0.1250	1.90290	0633	LoSCINS	0
ENSG00000109625	CPZ	0.5752	1.4793	-0.8093	-1.3527	1.90290	0633	LoSCINS	0
ENSG00000127922	SHFM1	0.5750	-1.3840	1.3869	0.3997	1.90290	0633	HiAiCNA	0
ENSG00000170456	DENND5B	0.5745	1.3219	-0.2738	-1.8267	1.90290	0633	LoSCINS	0
ENSG00000201302	SNORA65	0.5745	-1.3070	1.7714	-0.2573	1.90290	0633	HiAiCNA	0
ENSG00000196290	NIF3L1	0.5744	-1.4365	1.5212	0.3025	1.90290	0633	HiAiCNA	0
ENSG00000184675	AMER1	0.5743	-1.0966	-0.0628	1.9141	1.90290	0633	HiCnLOH	0
ENSG00000136518	ACTL6A	0.5743	-1.4210	0.9410	1.0745	1.90290	0633	HiCnLOH	0

ENSG00000157657	ZNF618	0.5737	-0.8444	-0.5216	2.1246	1.90290 0633	HiCnLOH	0
ENSG00000170632	ARMC10	0.5737	-1.0650	1.7272	-0.5998	1.90290 0633	HiAiCNA	0
ENSG00000064102	ASUN	0.5736	-1.3622	1.3534	0.4095	1.90290 0633	HiAiCNA	0
ENSG00000164056	SPRY1	0.5736	1.3629	-1.1712	-0.6611	1.90290 0633	LoSCINS	1
ENSG00000139734	DIAPH3	0.5735	-1.4945	1.2511	0.7706	1.90290 0633	HiAiCNA	0
ENSG00000139350	NEDD1	0.5735	-1.4131	1.5936	0.1640	1.90290 0633	HiAiCNA	0
ENSG00000112640	PPP2R5D	0.5734	-1.5409	1.3792	0.6717	1.90290 0633	HiAiCNA	0
ENSG00000112667	DNPH1	0.5733	-1.3543	1.3322	0.4254	1.90290 0633	HiAiCNA	0
ENSG00000130518	KIAA1683	0.5729	1.4153	-1.1926	-0.7190	1.90290 0633	LoSCINS	0
ENSG00000165891	E2F7	0.5726	-1.2559	0.2028	1.8143	1.90290 0633	HiCnLOH	0
ENSG00000089157	RPLP0	0.5725	-1.0956	1.5428	-0.2954	1.90290 0633	HiAiCNA	0
ENSG00000121039	RDH10	0.5722	-1.2487	1.3077	0.2830	1.90290 0633	HiAiCNA	0
ENSG00000112081	SRSF3	0.5721	-1.2806	1.6274	-0.1034	1.90290 0633	HiAiCNA	0
ENSG00000124615	MOCS1	0.5719	1.2849	-1.4829	-0.1026	1.90290 0633	LoSCINS	0
ENSG00000134716	CYP2J2	0.5718	1.3083	-0.7014	-1.2161	1.90290 0633	LoSCINS	0
ENSG00000143549	TPM3	0.5718	-1.4215	1.1419	0.7990	1.90290 0633	HiAiCNA	0
ENSG00000133874	RNF122	0.5714	-1.3730	0.2806	1.9026	1.90290 0633	HiCnLOH	0
ENSG00000088280	ASAP3	0.5713	0.9970	-1.6346	0.5859	1.90290 0633	LoSCINS	0
ENSG00000162961	DPY30	0.5710	-1.3350	1.5864	0.0437	1.90290 0633	HiAiCNA	0
ENSG00000158711	ELK4	0.5707	-1.6829	1.4762	0.7751	1.90290 0633	HiAiCNA	0
ENSG00000111602	TIMELESS	0.5706	-1.0707	-0.1434	1.9817	1.90290 0633	HiCnLOH	0
ENSG00000188322	SBK1	0.5706	-1.2887	0.5436	1.4004	1.90290 0633	HiCnLOH	0
ENSG00000164087	POC1A	0.5705	-1.4318	0.9778	1.0419	1.90290 0633	HiCnLOH	0
ENSG00000254911	SCARNA9	0.5704	1.4469	-0.9982	-1.0390	1.90290 0633	LoSCINS	0
ENSG00000149557	FEZ1	0.5704	1.3713	-0.6988	-1.3247	1.90290 0633	LoSCINS	0
ENSG00000099875	MKNK2	0.5703	1.2984	-1.3796	-0.2670	1.90290 0633	LoSCINS	0
ENSG00000178966	RMI1	0.5701	-1.4175	0.5941	1.5457	1.90290 0633	HiCnLOH	0
ENSG00000084652	TXLNA	0.5700	0.7070	-1.7424	1.2175	1.90290 0633	HiCnLOH	0
ENSG00000213551	DNAJC9	0.5700	-1.3144	0.4269	1.6037	1.90290 0633	HiCnLOH	0
ENSG00000161016	RPL8	0.5695	-1.1014	1.5321	-0.2710	1.90290 0633	HiAiCNA	0
ENSG00000157379	DHRS1	0.5695	1.3951	-1.0509	-0.8801	1.90290 0633	LoSCINS	0
ENSG00000115163	CENPA	0.5694	-1.3451	0.7373	1.2281	1.90290 0633	HiCnLOH	0
ENSG00000085788	DDHD2	0.5693	-1.4098	0.8334	1.2037	1.90290 0633	HiCnLOH	0
ENSG00000100056	DGCR14	0.5690	-1.2975	0.0841	2.0469	1.90290 0633	HiCnLOH	0
ENSG00000143643	TTC13	0.5690	-1.3575	1.3390	0.4213	1.90290 0633	HiAiCNA	0
ENSG00000172236	TPSAB1	0.5684	1.2442	-0.4204	-1.4955	1.90290 0633	LoSCINS	0
ENSG00000179163	FUCA1	0.5683	1.3171	-0.5170	-1.4843	1.90290 0633	LoSCINS	0
ENSG00000186141	POLR3C	0.5679	-1.4248	0.8148	1.2543	1.90290	HiCnLOH	0

ENSG00000176853	FAM91A1	0.5677	-1.2752	1.5516	-0.0082	1.90290	0633	HiAiCNA	0
ENSG00000124523	SIRT5	0.5676	-1.3531	1.3688	0.3731	1.90290	0633	HiAiCNA	0
ENSG00000143379	SETDB1	0.5676	-1.3328	0.3901	1.6850	1.90290	0633	HiCnLOH	0
ENSG00000197713	RPE	0.5675	-0.9857	1.6678	-0.6505	1.90290	0633	HiAiCNA	0
ENSG00000171204	TMEM126B	0.5674	-0.6963	1.6814	-1.1513	1.90290	0633	HiAiCNA	0
ENSG00000117682	DHDDS	0.5673	1.2402	-1.6687	0.2274	1.90290	0633	LoSCINS	0
ENSG00000177556	ATOX1	0.5670	1.3633	-1.2365	-0.5720	1.90290	0633	LoSCINS	0
ENSG00000184867	ARMCX2	0.5669	-0.7694	-0.5273	2.0073	1.90290	0633	HiCnLOH	0
ENSG00000140798	ABCC12	0.5668	1.3386	-0.7952	-1.1376	1.90290	0633	LoSCINS	0
ENSG00000163382	APOA1BP	0.5668	-0.9737	-0.2902	2.0219	1.90290	0633	HiCnLOH	0
ENSG00000011021	CLCN6	0.5664	1.4974	-1.3169	-0.6849	1.90290	0633	LoSCINS	0
ENSG00000106144	CASP2	0.5664	-1.2011	0.0579	1.9223	1.90290	0633	HiCnLOH	0
ENSG00000171150	SOCS5	0.5662	-1.1816	1.7099	-0.3818	1.90290	0633	HiAiCNA	0
ENSG00000181019	NQO1	0.5659	1.2911	-1.1441	-0.5787	1.90290	0633	LoSCINS	0
ENSG00000117593	DARS2	0.5657	-1.4156	1.0915	0.8586	1.90290	0633	HiAiCNA	0
ENSG00000103966	EHD4	0.5657	1.3810	-1.4106	-0.3621	1.90290	0633	LoSCINS	0
ENSG00000138138	ATAD1	0.5656	-1.4156	1.1959	0.7149	1.90290	0633	HiAiCNA	0
ENSG00000162066	AMDHD2	0.5653	1.4127	-0.9340	-1.0702	1.90290	0633	LoSCINS	0
ENSG00000120992	LYPLA1	0.5653	-1.3409	1.9211	-0.4067	1.90290	0633	HiAiCNA	0
ENSG00000138381	ASNSD1	0.5649	-1.2760	1.6337	-0.1197	1.90290	0633	HiAiCNA	0
ENSG00000141380	SS18	0.5649	-1.1506	1.9053	-0.7021	1.90290	0633	HiAiCNA	0
ENSG00000143198	MGST3	0.5647	-1.3208	1.3507	0.3441	1.90290	0633	HiAiCNA	0
ENSG00000159147	DONSON	0.5647	-1.4480	0.8939	1.1842	1.90290	0633	HiCnLOH	1
ENSG00000010810	FYN	0.5645	1.3950	-1.0505	-0.8806	1.90290	0633	LoSCINS	0
ENSG00000196230	TUBB	0.5643	-1.3866	0.6314	1.4429	1.90290	0633	HiCnLOH	0
ENSG00000005513	SOX8	0.5642	-1.0350	1.4530	-0.2728	1.90290	0633	HiAiCNA	0
ENSG00000143126	CELSR2	0.5639	-0.8373	-0.4436	2.0055	1.90290	0633	HiCnLOH	0
ENSG00000166816	LDHD	0.5636	1.3651	-1.0564	-0.8227	1.90290	0633	LoSCINS	0
ENSG00000100410	PHF5A	0.5635	-1.2531	1.5658	-0.0646	1.90290	0633	HiAiCNA	0
ENSG00000164221	CCDC112	0.5633	-1.3621	1.5768	0.1021	1.90290	0633	HiAiCNA	0
ENSG00000111669	TPI1	0.5631	-1.3482	1.0398	0.8173	1.90290	0633	HiAiCNA	0
ENSG00000106153	CHCHD2	0.5629	-1.2044	0.2395	1.6780	1.90290	0633	HiCnLOH	0
ENSG00000173660	UQCRH	0.5629	-1.4001	1.0828	0.8447	1.90290	0633	HiAiCNA	0
ENSG00000129946	SHC2	0.5618	1.4278	-0.4896	-1.7064	1.90290	0633	LoSCINS	0
ENSG00000131143	COX4I1	0.5617	1.1113	-1.6762	0.4526	1.90290	0633	LoSCINS	0
ENSG00000128513	POT1	0.5617	-1.4346	1.4131	0.4481	1.90290	0633	HiAiCNA	0
ENSG00000159692	CTBP1	0.5616	1.0861	-1.7047	0.5339	1.90290	0633	LoSCINS	0

ENSG00000133475	GGT2	0.5615	1.3114	-0.6838	-1.2454	1.90290 0633	LoSCINS	0
ENSG00000165512	ZNF22	0.5605	-0.9701	1.6056	-0.5909	1.90290 0633	HiAiCNA	0
ENSG00000187735	TCEA1	0.5604	-1.2068	1.4396	0.0319	1.90290 0633	HiAiCNA	0
ENSG00000172551	MUCL1	0.5604	1.2560	-0.8696	-0.8975	1.90290 0633	LoSCINS	1
ENSG00000112941	PAPD7	0.5604	-1.3565	0.4934	1.5824	1.90290 0633	HiCnLOH	0
ENSG00000178573	MAF	0.5602	1.6572	-1.1861	-1.1311	1.90290 0633	LoSCINS	0
ENSG00000104133	SPG11	0.5600	1.4234	-0.8737	-1.1709	1.90290 0633	LoSCINS	0
ENSG00000176435	CLEC14A	0.5599	1.3612	-0.6803	-1.3334	1.90290 0633	LoSCINS	0
ENSG00000169398	PTK2	0.5597	-1.4665	1.5527	0.3091	1.90290 0633	HiAiCNA	0
ENSG00000173894	CBX2	0.5596	-1.1952	0.3309	1.5370	1.90290 0633	HiCnLOH	0
ENSG00000170476	MZB1	0.5594	1.0529	-0.0440	-1.6943	2.54378 7775	LoSCINS	0
ENSG00000124783	SSR1	0.5594	-1.3583	1.3624	0.3906	2.54378 7775	HiAiCNA	0
ENSG00000179021	C3orf38	0.5594	-1.2791	1.5718	-0.0294	2.54378 7775	HiAiCNA	0
ENSG00000177000	MTHFR	0.5592	1.3474	-1.4588	-0.2399	2.54378 7775	LoSCINS	0
ENSG00000101782	RIOK3	0.5586	-1.1293	1.5655	-0.2705	2.54378 7775	HiAiCNA	0
ENSG00000107317	PTGDS	0.5584	1.2922	-0.8711	-0.9560	2.54378 7775	LoSCINS	0
ENSG00000131469	RPL27	0.5583	-1.3685	1.5337	0.1720	2.54378 7775	HiAiCNA	0
ENSG00000215424	MCM3AP- AS1	0.5583	-1.0739	-0.1554	2.0035	2.54378 7775	HiCnLOH	0
ENSG00000100321	SYNGR1	0.5581	1.2850	-1.3899	-0.2305	2.54378 7775	LoSCINS	0
ENSG00000196510	ANAPC7	0.5580	-1.3821	1.6323	0.0591	2.54378 7775	HiAiCNA	0
ENSG00000041802	LSG1	0.5579	-1.2898	0.2618	1.7897	2.54378 7775	HiCnLOH	0
ENSG00000187145	MRPS21	0.5579	-1.3523	1.0270	0.8417	2.54378 7775	HiAiCNA	0
ENSG00000114248	LRRC31	0.5578	1.3400	-0.9045	-0.9896	2.54378 7775	LoSCINS	0
ENSG00000170191	NANP	0.5575	-1.7104	1.5382	0.7357	2.54378 7775	HiAiCNA	0
ENSG00000040608	RTN4R	0.5573	-1.3775	0.5826	1.4947	2.54378 7775	HiCnLOH	0
ENSG00000205307	SAP25	0.5571	1.3245	-1.1831	-0.5808	2.54378 7775	LoSCINS	0
ENSG00000091138	SLC26A3	0.5567	1.2494	-0.5709	-1.2973	2.54378 7775	LoSCINS	0
ENSG00000151726	ACSL1	0.5563	1.3086	-1.0428	-0.7471	2.54378 7775	LoSCINS	0
ENSG00000167671	UBXN6	0.5560	1.4521	-1.2885	-0.6485	2.54378 7775	LoSCINS	0
ENSG00000124789	NUP153	0.5554	-1.4228	1.1538	0.7849	2.54378 7775	HiAiCNA	0
ENSG00000253729	PRKDC	0.5552	-1.4155	0.8137	1.2402	2.54378 7775	HiCnLOH	1
ENSG00000090263	MRPS33	0.5549	-1.3609	1.3069	0.4712	2.54378 7775	HiAiCNA	0
ENSG00000122254	HS3ST2	0.5545	1.3087	-0.6386	-1.3031	2.54378 7775	LoSCINS	0
ENSG00000142945	KIF2C	0.5545	-1.2550	0.4175	1.5176	2.54378 7775	HiCnLOH	0
ENSG00000124532	MRS2	0.5544	-1.4360	1.1362	0.8310	2.54378 7775	HiAiCNA	0
ENSG00000166033	HTRA1	0.5541	1.2972	-0.8348	-1.0141	2.54378 7775	LoSCINS	0
ENSG00000169116	PARM1	0.5541	1.3471	-0.9723	-0.9083	2.54378 7775	LoSCINS	0
ENSG00000074755	ZZEF1	0.5541	0.9447	-1.7618	0.8480	2.54378	LoSCINS	0

						7775		
ENSG00000135829	DHX9	0.5539	-1.3185	1.4379	0.2204	2.54378	HiAiCNA	0
						7775		
ENSG00000129422	MTUS1	0.5536	1.3392	-0.7631	-1.1829	2.54378	LoSCINS	0
						7775		
ENSG00000128534	NAA38	0.5532	-1.4062	1.3047	0.5498	2.54378	HiAiCNA	0
						7775		
ENSG00000073849	ST6GAL1	0.5531	1.3144	-1.0912	-0.6903	2.54378	LoSCINS	0
						7775		
ENSG00000106483	SFRP4	0.5530	1.1971	-0.4185	-1.4197	2.54378	LoSCINS	0
						7775		
ENSG00000119888	EPCAM	0.5529	-0.4519	1.4865	-1.2908	2.54378	HiAiCNA	0
						7775		
ENSG00000114841	DNAH1	0.5529	1.4454	-1.4127	-0.4666	2.54378	LoSCINS	0
						7775		
ENSG00000005175	RPAP3	0.5527	-1.3944	1.3476	0.4710	2.54378	HiAiCNA	0
						7775		
ENSG00000158710	TAGLN2	0.5524	-1.3177	1.1823	0.5705	2.54378	HiAiCNA	0
						7775		
ENSG00000116062	MSH6	0.5522	-1.3966	0.9611	1.0061	2.54378	HiCnLOH	0
						7775		
ENSG00000115756	HPCAL1	0.5522	1.3470	-1.2905	-0.4705	2.54378	LoSCINS	0
						7775		
ENSG00000104213	PDGFRL	0.5521	1.2173	-0.4092	-1.4662	2.54378	LoSCINS	0
						7775		
ENSG00000104643	MTMR9	0.5519	1.4226	-1.0467	-0.9318	2.54378	LoSCINS	0
						7775		
ENSG00000100100	PIK3IP1	0.5516	1.3529	-0.7619	-1.2073	2.54378	LoSCINS	0
						7775		
ENSG00000247626	MARS2	0.5516	-1.3215	1.4724	0.1780	2.54378	HiAiCNA	0
						7775		
ENSG00000117751	PPP1R8	0.5513	-1.4400	1.3416	0.5553	2.54378	HiAiCNA	0
						7775		
ENSG00000146731	CCT6A	0.5513	-1.2209	0.2973	1.6260	2.54378	HiCnLOH	0
						7775		
ENSG00000162882	HAAO	0.5512	1.4681	-1.2246	-0.7630	2.54378	LoSCINS	0
						7775		
ENSG00000113580	NR3C1	0.5511	1.5600	-0.8330	-1.4546	2.54378	LoSCINS	0
						7775		
ENSG00000101331	CCM2L	0.5511	1.4018	-1.0533	-0.8881	2.54378	LoSCINS	0
						7775		
ENSG00000165125	TRPV6	0.5510	1.2986	-0.9300	-0.8857	2.54378	LoSCINS	0
						7775		
ENSG00000138613	APH1B	0.5510	1.4032	-1.0595	-0.8819	2.54378	LoSCINS	0
						7775		
ENSG00000101146	RAE1	0.5510	-1.3679	0.7221	1.2870	2.54378	HiCnLOH	0
						7775		
ENSG00000171858	RPS21	0.5508	-1.2470	1.3718	0.1921	2.54378	HiAiCNA	0
						7775		
ENSG00000182871	COL18A1	0.5508	1.2431	-1.2977	-0.2874	2.54378	LoSCINS	0
						7775		
ENSG00000196569	LAMA2	0.5507	1.1187	-0.0664	-1.7732	2.54378	LoSCINS	1
						7775		
ENSG00000156709	AIFM1	0.5505	1.1098	-1.6022	0.3535	2.54378	LoSCINS	0
						7775		
ENSG00000096384	HSP90AB1	0.5505	-1.4002	0.9893	0.9733	2.54378	HiAiCNA	0
						7775		
ENSG00000118496	FBXO30	0.5505	-1.3328	1.3935	0.3053	2.54378	HiAiCNA	0
						7775		
ENSG00000106028	SSBP1	0.5504	-1.4170	1.0665	0.8952	2.54378	HiAiCNA	0
						7775		
ENSG00000105402	NAPA	0.5503	1.4802	-1.7230	-0.0979	2.54378	LoSCINS	0
						7775		
ENSG00000134285	FKBP11	0.5501	1.0226	0.0573	-1.7831	2.54378	LoSCINS	0
						7775		
ENSG00000157216	SSBP3	0.5501	-1.3431	-0.0492	2.3062	2.54378	HiCnLOH	0
						7775		
ENSG00000167216	KATNAL2	0.5500	-0.9870	-0.2891	2.0426	2.54378	HiCnLOH	0
						7775		
ENSG00000109472	CPE	0.5499	1.2787	-0.6215	-1.2766	2.54378	LoSCINS	0
						7775		
ENSG00000137507	LRRC32	0.5491	1.3264	-0.9614	-0.8887	2.54378	LoSCINS	0
						7775		
ENSG00000141378	PTRH2	0.5491	-1.2550	1.4694	0.0711	2.54378	HiAiCNA	0
						7775		

ENSG00000142046	TMEM91	0.5490	1.0606	-1.5448	0.3564	2.54378 7775	LoSCINS	0
ENSG00000144120	TMEM177	0.5489	-1.1762	0.0819	1.8477	2.54378 7775	HiCnLOH	0
ENSG00000177150	FAM210A	0.5487	-1.3776	1.2802	0.5357	2.54378 7775	HiAiCNA	0
ENSG00000128606	LRRC17	0.5485	1.2393	-0.5248	-1.3438	2.54378 7775	LoSCINS	0
ENSG00000196167	C11orf92	0.5485	-0.2924	-1.0962	1.9946	2.54378 7775	HiCnLOH	0
ENSG00000100938	GMPR2	0.5481	1.3826	-1.1660	-0.7010	2.54378 7775	LoSCINS	0
ENSG00000122482	ZNF644	0.5480	-1.6552	0.9315	1.4778	2.54378 7775	HiCnLOH	1
ENSG00000176407	KCMF1	0.5473	-1.4965	1.3037	0.7016	2.54378 7775	HiAiCNA	0
ENSG00000169083	AR	0.5469	1.2951	-1.0135	-0.7650	2.54378 7775	LoSCINS	0
ENSG00000145996	CDKAL1	0.5469	-1.3716	1.0234	0.8788	2.54378 7775	HiAiCNA	0
ENSG00000162738	VANGL2	0.5466	-1.1413	0.2767	1.5218	2.54378 7775	HiCnLOH	0
ENSG00000122644	ARL4A	0.5466	-0.0860	1.6914	-2.1823	2.54378 7775	HiAiCNA	0
ENSG00000111276	CDKN1B	0.5465	-1.3416	1.0161	0.8388	2.54378 7775	HiAiCNA	0
ENSG00000164953	TMEM67	0.5464	-1.2237	1.6834	-0.2752	2.54378 7775	HiAiCNA	0
ENSG00000142166	IFNAR1	0.5459	1.4226	-0.9185	-1.1081	2.54378 7775	LoSCINS	0
ENSG00000121957	GPSM2	0.5456	-1.3024	0.6914	1.2199	2.54378 7775	HiCnLOH	1
ENSG00000150433	TMEM218	0.5454	1.4024	-0.7774	-1.2684	2.54378 7775	LoSCINS	0
ENSG00000189409	MMP23B	0.5453	1.2718	-0.5510	-1.3620	2.54378 7775	LoSCINS	0
ENSG00000158006	PAFAH2	0.5453	1.3499	-1.3458	-0.3994	2.54378 7775	LoSCINS	0
ENSG00000105369	CD79A	0.5451	1.0619	-0.1158	-1.6106	2.54378 7775	LoSCINS	0
ENSG00000119326	CTNNAL1	0.5451	-1.2448	1.2917	0.2987	2.54378 7775	HiAiCNA	0
ENSG00000247077	PGAM5	0.5451	-1.2102	1.6206	-0.2113	2.54378 7775	HiAiCNA	0
ENSG00000126088	UROD	0.5446	1.4205	-0.9941	-1.0006	2.54378 7775	LoSCINS	0
ENSG00000137513	NARS2	0.5444	-1.3747	1.2048	0.6346	2.54378 7775	HiAiCNA	0
ENSG00000137975	CLCA2	0.5443	1.1565	-1.2373	-0.2262	2.54378 7775	LoSCINS	1
ENSG00000140990	NDUFB10	0.5443	0.9859	-1.6160	0.5789	2.54378 7775	LoSCINS	0
ENSG00000170242	USP47	0.5441	1.5195	-1.1506	-0.9504	2.54378 7775	LoSCINS	0
ENSG00000143147	GPR161	0.5439	-1.3917	0.7665	1.2657	2.54378 7775	HiCnLOH	0
ENSG00000112130	RNF8	0.5438	-1.3784	1.2916	0.5214	2.54378 7775	HiAiCNA	0
ENSG00000167074	TEF	0.5437	1.2055	-1.5946	0.1833	2.54378 7775	LoSCINS	0
ENSG00000157326	DHRS4	0.5437	1.3400	-0.7861	-1.1525	2.54378 7775	LoSCINS	0
ENSG00000120910	PPP3CC	0.5436	1.3917	-0.9248	-1.0478	2.54378 7775	LoSCINS	0
ENSG00000123473	STIL	0.5436	-1.2043	0.2985	1.5967	2.54378 7775	HiCnLOH	1
ENSG00000164162	ANAPC10	0.5434	-1.4264	0.7809	1.3036	2.54378 7775	HiCnLOH	0
ENSG00000105173	CCNE1	0.5433	-1.3026	0.6974	1.2122	2.54378 7775	HiCnLOH	0
ENSG00000111300	NAA25	0.5431	-1.2175	1.5957	-0.1648	2.54378 7775	HiAiCNA	0
ENSG00000166963	MAP1A	0.5431	1.3823	-1.0588	-0.8480	2.54378 7775	LoSCINS	0
ENSG00000156482	RPL30	0.5429	-1.3209	1.3319	0.3701	2.54378	HiAiCNA	0

							7775		
ENSG00000177192	PUS1	0.5428	-1.1910	1.5212	-0.1067	2.54378	7775	HiAiCNA	0
ENSG00000250722	SEPP1	0.5426	1.2489	-0.7576	-1.0399	3.23579	5572	LoSCINS	0
ENSG00000091127	PUS7	0.5425	-1.2449	1.3285	0.2481	3.23579	5572	HiAiCNA	0
ENSG00000107562	CXCL12	0.5424	1.2006	-0.4275	-1.4133	3.23579	5572	LoSCINS	0
ENSG00000133142	TCEAL4	0.5422	1.3443	-1.2655	-0.5005	3.23579	5572	LoSCINS	0
ENSG00000149639	SOGA1	0.5421	-0.5467	-0.7614	1.9581	3.23579	5572	HiCnLOH	0
ENSG00000117153	KLHL12	0.5417	-1.4807	0.8639	1.2799	3.23579	5572	HiCnLOH	0
ENSG00000141905	NFIC	0.5416	1.2931	-1.1644	-0.5542	3.23579	5572	LoSCINS	0
ENSG00000117528	ABCD3	0.5412	-1.3493	1.4848	0.2072	3.23579	5572	HiAiCNA	0
ENSG00000080845	DLGAP4	0.5408	-0.1862	-1.1367	1.8732	3.23579	5572	HiCnLOH	0
ENSG00000171806	METTL18	0.5407	-1.4104	0.6273	1.4881	3.23579	5572	HiCnLOH	0
ENSG00000184634	MED12	0.5407	-0.2475	-1.1442	1.9858	3.23579	5572	HiCnLOH	0
ENSG00000112576	CCND3	0.5406	0.9181	-1.6091	0.6823	3.23579	5572	LoSCINS	0
ENSG00000095370	SH2D3C	0.5406	1.3237	-1.2343	-0.5090	3.23579	5572	LoSCINS	0
ENSG00000160783	PMF1	0.5405	-1.0092	-0.2555	2.0333	3.23579	5572	HiCnLOH	0
ENSG00000172250	SERHL	0.5402	1.3144	-0.7855	-1.1105	3.23579	5572	LoSCINS	0
ENSG00000036448	MYOM2	0.5401	1.2570	-0.7956	-1.0011	3.23579	5572	LoSCINS	0
ENSG00000104147	OIP5	0.5396	-1.3190	0.8271	1.0610	3.23579	5572	HiCnLOH	0
ENSG00000122779	TRIM24	0.5396	-1.2777	1.4362	0.1547	3.23579	5572	HiAiCNA	0
ENSG00000072571	HMMR	0.5395	-1.3214	0.9821	0.8519	3.23579	5572	HiAiCNA	0
ENSG00000108395	TRIM37	0.5393	-1.3562	1.3092	0.4603	3.23579	5572	HiAiCNA	0
ENSG00000154783	FGD5	0.5391	1.3195	-0.7262	-1.2007	3.23579	5572	LoSCINS	0
ENSG00000101811	CSTF2	0.5390	-0.8366	-0.4759	2.0487	3.23579	5572	HiCnLOH	0
ENSG00000177954	RPS27	0.5388	-1.4260	1.3409	0.5328	3.23579	5572	HiAiCNA	0
ENSG00000185730	ZNF696	0.5388	-1.3417	0.6568	1.3332	3.23579	5572	HiCnLOH	0
ENSG00000114209	PDCD10	0.5387	-1.3506	0.7596	1.2065	3.23579	5572	HiCnLOH	0
ENSG00000115596	WNT6	0.5384	-1.4737	0.7013	1.4919	3.23579	5572	HiCnLOH	0
ENSG00000105810	CDK6	0.5383	-1.0350	1.4100	-0.2138	3.23579	5572	HiAiCNA	0
ENSG00000166086	JAM3	0.5382	1.3019	-1.0337	-0.7484	3.23579	5572	LoSCINS	0
ENSG00000108784	NAGLU	0.5381	1.3343	-0.5239	-1.5035	3.23579	5572	LoSCINS	0
ENSG00000148429	USP6NL	0.5377	-1.2492	1.3867	0.1753	3.23579	5572	HiAiCNA	0
ENSG00000131871	VIMP	0.5376	-0.4979	1.4908	-1.2199	3.23579	5572	HiAiCNA	0
ENSG00000084463	WBP11	0.5369	-1.3178	0.8828	0.9824	3.23579	5572	HiCnLOH	0
ENSG00000176894	PXMP2	0.5369	-1.1927	1.3452	0.1382	3.23579	5572	HiAiCNA	0
ENSG00000168078	PBK	0.5368	-1.3188	0.9257	0.9250	3.23579	5572	HiAiCNA	0
ENSG00000198554	WDHD1	0.5367	-1.5339	1.0730	1.0812	3.23579	5572	HiCnLOH	0
ENSG00000107829	FBXW4	0.5364	1.2146	-1.4457	-0.0365	5572	LoSCINS	0	

ENSG00000119403	PHF19	0.5363	-1.3399	0.7678	1.1774	3.23579 5572	HiCnLOH	0
ENSG00000159873	CCDC117	0.5362	-1.1235	1.4867	-0.1716	3.23579 5572	HiAiCNA	0
ENSG00000116251	RPL22	0.5360	-1.2555	1.4196	0.1405	3.23579 5572	HiAiCNA	0
ENSG00000267374	LINC00669	0.5360	-1.5250	1.1282	0.9905	3.23579 5572	HiAiCNA	0
ENSG00000097046	CDC7	0.5359	-1.1531	0.1734	1.6834	3.23579 5572	HiCnLOH	1
ENSG00000101752	MIB1	0.5359	-1.0757	1.6728	-0.5073	3.23579 5572	HiAiCNA	0
ENSG00000168807	SNTB2	0.5356	1.3625	-0.8714	-1.0727	3.23579 5572	LoSCINS	0
ENSG00000188153	COL4A5	0.5353	1.0592	-1.3874	0.1423	3.23579 5572	LoSCINS	0
ENSG00000084234	APLP2	0.5352	1.3120	-0.7880	-1.1033	3.23579 5572	LoSCINS	0
ENSG00000133943	C14orf159	0.5351	1.3220	-0.8951	-0.9726	3.23579 5572	LoSCINS	0
ENSG00000126249	PDCD2L	0.5349	-1.3092	1.1585	0.5891	3.23579 5572	HiAiCNA	0
ENSG00000179598	PLD6	0.5349	-1.4326	1.4437	0.4026	3.23579 5572	HiAiCNA	0
ENSG00000232859	LYRM9	0.5349	1.4766	-0.6090	-1.6236	3.23579 5572	LoSCINS	0
ENSG00000135870	RC3H1	0.5341	-0.8303	-0.6986	2.3445	3.23579 5572	HiCnLOH	0
ENSG00000135763	URB2	0.5340	-1.3517	0.6220	1.3976	3.23579 5572	HiCnLOH	0
ENSG00000175061	C17orf76- AS1	0.5338	-1.2589	1.2470	0.3835	3.23579 5572	HiAiCNA	0
ENSG00000205726	ITSN1	0.5337	1.2917	-1.1742	-0.5384	3.23579 5572	LoSCINS	0
ENSG00000120451	SNX19	0.5336	1.5000	-0.7532	-1.4644	3.23579 5572	LoSCINS	0
ENSG00000137776	SLTM	0.5336	1.4003	-0.7496	-1.3031	3.23579 5572	LoSCINS	0
ENSG00000115993	TRAK2	0.5335	1.1542	-0.2024	-1.6455	3.23579 5572	LoSCINS	0
ENSG00000071242	RPS6KA2	0.5334	1.3065	-0.7677	-1.1219	3.23579 5572	LoSCINS	0
ENSG00000169019	COMMD8	0.5331	-0.9444	1.5301	-0.5299	3.23579 5572	HiAiCNA	0
ENSG00000114942	EEF1B2	0.5330	-0.4167	1.4471	-1.2954	3.23579 5572	HiAiCNA	0
ENSG00000197892	KIF13B	0.5330	1.3154	-0.9271	-0.9176	3.23579 5572	LoSCINS	0
ENSG00000181444	ZNF467	0.5329	0.8889	-1.4706	0.5405	3.23579 5572	LoSCINS	0
ENSG00000152240	HAUS1	0.5329	-1.3666	1.1438	0.7050	3.23579 5572	HiAiCNA	0
ENSG00000110104	CCDC86	0.5326	-1.2793	0.4880	1.4611	3.23579 5572	HiCnLOH	0
ENSG00000122643	NT5C3	0.5323	-1.1380	1.4073	-0.0385	3.23579 5572	HiAiCNA	0
ENSG00000116871	MAP7D1	0.5323	1.2161	-1.4649	-0.0125	3.23579 5572	LoSCINS	0
ENSG00000182700	IGIP	0.5323	1.3528	-0.7854	-1.1746	3.23579 5572	LoSCINS	0
ENSG00000126756	UXT	0.5321	-1.2909	1.7029	-0.1900	3.23579 5572	HiAiCNA	0
ENSG00000175287	PHYHD1	0.5320	1.3257	-0.8474	-1.0442	3.23579 5572	LoSCINS	0
ENSG00000174059	CD34	0.5320	1.2830	-0.9632	-0.8140	3.23579 5572	LoSCINS	0
ENSG00000051108	HERPUD1	0.5320	0.9805	0.1134	-1.7902	3.23579 5572	LoSCINS	0
ENSG00000122970	IFT81	0.5319	-1.5806	1.0041	1.2536	3.23579 5572	HiCnLOH	0
ENSG00000139146	FAM60A	0.5318	-1.2753	0.9929	0.7603	3.23579 5572	HiAiCNA	0
ENSG00000071967	CYBRD1	0.5318	1.0682	-0.1063	-1.6343	3.23579 5572	LoSCINS	0
ENSG00000114547	ROPN1B	0.5317	-1.1974	1.0758	0.5164	3.23579	HiAiCNA	0



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ENSG00000120129	DUSP1	0.5316	1.2584	-0.9347	-0.8122		5572	LoSCINS	0
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ENSG00000135049	AGTPBP1	0.5316	-1.1523	1.4447	-0.0660		5572	HiAiCNA	0
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ENSG00000110076	NRXN2	0.5315	1.1885	-0.2669	-1.6138		5572	LoSCINS	0
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ENSG00000163872	YEATS2	0.5314	-1.1781	0.2803	1.5781		5572	HiCnLOH	0
	LOC100129						3.23579		
ENSG00000262454	781	0.5314	1.4220	-0.7707	-1.3102		5572	LoSCINS	0
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ENSG00000170445	HARS	0.5313	1.3086	-1.4217	-0.2261		5572	LoSCINS	0
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ENSG00000232956	SNHG15	0.5311	-1.3466	1.0792	0.7603		5572	HiAiCNA	0
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ENSG00000175305	CCNE2	0.5309	-1.2864	0.8722	0.9448		5572	HiCnLOH	0
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ENSG00000170035	UBE2E3	0.5309	-1.3082	0.7481	1.1517		5572	HiCnLOH	0
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ENSG00000030066	NUP160	0.5307	-1.3409	0.9176	0.9731		5572	HiCnLOH	0
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ENSG00000258947	TUBB3	0.5305	-0.7963	-0.3168	1.7627		5572	HiCnLOH	0
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ENSG00000124535	WRNIP1	0.5305	-1.3286	1.2477	0.4986		5572	HiAiCNA	0
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ENSG00000104129	DNAJC17	0.5303	1.4146	-0.9671	-1.0279		5572	LoSCINS	0
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ENSG00000071243	ING3	0.5302	-1.1963	1.5451	-0.1306		5572	HiAiCNA	0
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ENSG00000066056	TIE1	0.5301	1.5181	-1.2379	-0.8281		5572	LoSCINS	0
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ENSG00000104341	LAPTM4B	0.5300	-1.2507	0.7223	1.0913		5572	HiCnLOH	0
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ENSG00000134825	TMEM258	0.5300	-1.4062	0.9707	1.0090		5572	HiCnLOH	0
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ENSG00000145214	DGKQ	0.5298	1.3083	-1.2061	-0.5221		5572	LoSCINS	0
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ENSG00000158164	TMSB15A	0.5297	-0.7646	-0.3524	1.7589		5572	HiCnLOH	0
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ENSG00000081760	AACS	0.5295	1.2613	-0.8431	-0.9429		5572	LoSCINS	0
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ENSG00000163682	RPL9	0.5295	-1.0693	1.5353	-0.3288		5572	HiAiCNA	0
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ENSG00000175354	PTPN2	0.5294	-1.1256	1.5056	-0.1942		5572	HiAiCNA	0
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ENSG00000100060	MFNG	0.5294	1.3174	-0.8609	-1.0119		5572	LoSCINS	0
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ENSG00000138449	SLC40A1	0.5293	1.1744	-0.4560	-1.3303		5572	LoSCINS	1
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ENSG00000111249	CUX2	0.5292	1.2589	-0.6570	-1.1949		5572	LoSCINS	0
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ENSG00000123080	CDKN2C	0.5292	1.0492	0.0341	-1.7956		5572	LoSCINS	0
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ENSG00000115525	ST3GAL5	0.5291	1.3144	-0.8029	-1.0867		5572	LoSCINS	0
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ENSG00000133422	MORC2	0.5290	-1.2713	0.4611	1.4848		5572	HiCnLOH	0
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ENSG00000160318	CLDND2	0.5287	1.3022	-0.7251	-1.1733		5572	LoSCINS	0
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ENSG00000167476	JSRP1	0.5285	0.8116	0.2986	-1.7633		5572	LoSCINS	0
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ENSG00000089022	MAPKAPK5	0.5285	-1.2563	1.5487	-0.0356		5572	HiAiCNA	0
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ENSG00000127774	EMC6	0.5285	-1.1722	1.4841	-0.0871		5572	HiAiCNA	0
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ENSG00000174804	FZD4	0.5283	1.2545	-0.9574	-0.7745		5572	LoSCINS	0
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ENSG00000143344	RGL1	0.5283	1.2743	-1.1045	-0.6053		5572	LoSCINS	0
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ENSG00000124214	STAU1	0.5283	-1.2440	0.2973	1.6646		5572	HiCnLOH	0
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ENSG00000161055	SCGB3A1	0.5283	1.1891	-0.9960	-0.6124		5572	LoSCINS	0
							3.23579		
ENSG00000003436	TFPI	0.5282	1.0594	-0.0522	-1.6939		5572	LoSCINS	0

ENSG00000184428	TOP1MT	0.5282	-1.0729	1.4999	-0.2741	3.23579 5572	HiAiCNA	0
ENSG00000141338	ABCA8	0.5281	1.2212	-0.4736	-1.3842	3.23579 5572	LoSCINS	0
ENSG00000117360	PRPF3	0.5280	-1.1830	0.3095	1.5462	3.23579 5572	HiCnLOH	0
ENSG00000214548	MEG3	0.5279	1.2527	-0.7996	-0.9884	3.23579 5572	LoSCINS	0
ENSG00000166681	NGFRAP1	0.5279	0.2704	-1.4504	1.5437	3.23579 5572	HiCnLOH	0
ENSG00000153721	CNKSR3	0.5279	-1.2534	1.0467	0.6497	3.23579 5572	HiAiCNA	0
ENSG00000184898	RBM43	0.5275	1.3638	-1.0479	-0.8322	3.23579 5572	LoSCINS	0
ENSG00000154175	ABI3BP	0.5274	1.2534	-0.7574	-1.0476	3.23579 5572	LoSCINS	0
ENSG00000130024	PHF10	0.5273	-1.3508	0.9485	0.9472	3.23579 5572	HiAiCNA	0
ENSG00000088808	PPP1R13B	0.5273	1.0494	-1.4649	0.2653	3.23579 5572	LoSCINS	0
ENSG00000227471	AKR1B15	0.5270	1.2121	-0.9590	-0.7017	3.23579 5572	LoSCINS	0
ENSG00000159055	MIS18A	0.5269	-1.3333	0.5476	1.4693	3.23579 5572	HiCnLOH	0
ENSG00000126351	THRA	0.5269	1.2321	-0.6579	-1.1489	3.23579 5572	LoSCINS	0
ENSG00000245848	CEBPA	0.5268	1.2170	-1.1453	-0.4536	3.23579 5572	LoSCINS	0
ENSG00000055044	NOP58	0.5268	-1.1732	1.3890	0.0454	3.23579 5572	HiAiCNA	0
ENSG00000113391	FAM172A	0.5264	1.3599	-0.9490	-0.9616	3.23579 5572	LoSCINS	0
ENSG00000183578	TNFAIP8L3	0.5263	1.2375	-1.4625	-0.0516	3.23579 5572	LoSCINS	0
ENSG00000089685	BIRC5	0.5262	-0.8878	-0.1944	1.7469	3.23579 5572	HiCnLOH	0
ENSG00000137692	DCUN1D5	0.5262	-1.2900	1.0284	0.7360	3.23579 5572	HiAiCNA	0
ENSG00000142669	SH3BGL3	0.5261	0.9485	-1.5223	0.5125	3.23579 5572	LoSCINS	0
ENSG00000182704	TSKU	0.5260	1.2271	-0.6842	-1.1044	3.23579 5572	LoSCINS	0
ENSG00000129654	FOXJ1	0.5259	-1.1503	0.0576	1.8380	3.23579 5572	HiCnLOH	0
ENSG00000183520	UTP11L	0.5256	-1.3472	1.1607	0.6493	3.23579 5572	HiAiCNA	0
ENSG00000147872	PLIN2	0.5256	-1.2330	0.5790	1.2589	3.23579 5572	HiCnLOH	0
ENSG00000115128	SF3B14	0.5256	-1.1967	1.2987	0.2088	3.23579 5572	HiAiCNA	0
ENSG00000132661	NXT1	0.5255	-1.2949	0.5648	1.3815	3.23579 5572	HiCnLOH	0
ENSG00000167107	ACSF2	0.5255	1.2885	-1.1184	-0.6097	3.23579 5572	LoSCINS	0
ENSG00000158402	CDC25C	0.5252	-1.2581	0.3267	1.6477	3.23579 5572	HiCnLOH	1
ENSG00000084070	SMAP2	0.5251	1.2397	-1.1914	-0.4281	3.23579 5572	LoSCINS	0
ENSG00000143793	C1orf35	0.5251	-1.3096	0.5814	1.3832	3.23579 5572	HiCnLOH	0
ENSG00000133466	C1QTNF6	0.5251	1.2383	-1.1106	-0.5368	3.23579 5572	LoSCINS	0
ENSG00000143258	USP21	0.5248	-1.2679	0.4622	1.4776	3.23579 5572	HiCnLOH	0
ENSG00000113721	PDGFRB	0.5248	1.2602	-0.9792	-0.7538	3.23579 5572	LoSCINS	0
ENSG00000126215	XRCC3	0.5248	-1.2480	0.1898	1.8190	3.23579 5572	HiCnLOH	0
ENSG00000105202	FBL	0.5247	-1.2916	0.8149	1.0321	4.39575 9945	HiCnLOH	0
ENSG00000146233	CYP39A1	0.5244	-1.1733	1.3364	0.1180	4.39575 9945	HiAiCNA	0
ENSG00000214617	SLC6A10P	0.5242	-1.5329	0.9627	1.2311	4.39575 9945	HiCnLOH	0
ENSG00000095209	TMEM38B	0.5242	-1.2076	1.2702	0.2661	4.39575	HiAiCNA	0

						9945		
						4.39575		
ENSG00000089094	KDM2B	0.5242	-1.2658	1.2058	0.4518	9945	HiAiCNA	0
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ENSG00000136280	CCM2	0.5241	1.3184	-1.2652	-0.4578	9945	LoSCINS	0
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ENSG00000166582	CENPV	0.5241	-1.2240	0.9929	0.6748	9945	HiAiCNA	0
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ENSG00000213079	SCAF8	0.5241	-1.3671	1.4019	0.3509	9945	HiAiCNA	0
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ENSG00000119878	CRIPT	0.5238	-1.0387	1.4909	-0.3188	9945	HiAiCNA	0
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ENSG00000112964	GHR	0.5237	1.2308	-0.7451	-1.0269	9945	LoSCINS	0
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ENSG00000135486	HNRNPA1	0.5237	-1.3424	0.8804	1.0268	9945	HiCnLOH	0
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ENSG00000164916	FOXK1	0.5236	-1.1869	0.2889	1.5810	9945	HiCnLOH	0
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ENSG00000168288	MMADHC	0.5235	-1.2602	1.2937	0.3214	9945	HiAiCNA	0
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ENSG00000143294	PRCC	0.5234	-1.2038	0.2421	1.6734	9945	HiCnLOH	0
						4.39575		
ENSG00000013810	TACC3	0.5234	-0.5711	-0.6878	1.8976	9945	HiCnLOH	0
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ENSG00000151789	ZNF385D	0.5232	1.3485	-0.7466	-1.2210	9945	LoSCINS	0
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ENSG00000138166	DUSP5	0.5231	1.1445	-0.2594	-1.5507	9945	LoSCINS	0
						4.39575		
ENSG00000128590	DNAJB9	0.5231	0.6102	0.6601	-1.9246	9945	HiAiCNA	0
						4.39575		
ENSG00000187446	CHP1	0.5229	1.2758	-1.2600	-0.3939	9945	LoSCINS	0
						4.39575		
ENSG00000109062	SLC9A3R1	0.5228	1.1661	-1.1899	-0.3075	9945	LoSCINS	0
						4.39575		
ENSG00000139508	SLC46A3	0.5227	1.0262	-0.0148	-1.6900	9945	LoSCINS	0
						4.39575		
ENSG00000078668	VDAC3	0.5226	-1.2777	0.6692	1.2093	9945	HiCnLOH	0
						4.39575		
ENSG00000124762	CDKN1A	0.5226	1.2234	-1.1238	-0.4938	9945	LoSCINS	0
						4.39575		
ENSG00000046604	DSG2	0.5224	-1.2479	1.0899	0.5813	9945	HiAiCNA	0
						4.39575		
ENSG00000152683	SLC30A6	0.5224	-1.4233	1.5827	0.1959	9945	HiAiCNA	0
						4.39575		
ENSG00000125703	ATG4C	0.5219	-0.6447	1.6020	-1.1282	9945	HiAiCNA	0
						4.39575		
ENSG00000110075	PPP6R3	0.5216	0.6262	0.7178	-2.0306	9945	HiAiCNA	0
						4.39575		
ENSG00000196644	GPR89C	0.5216	-1.2092	1.3177	0.2035	9945	HiAiCNA	0
						4.39575		
ENSG00000229645	LINC00341	0.5216	1.3361	-0.7883	-1.1430	9945	LoSCINS	0
						4.39575		
ENSG00000143013	LMO4	0.5214	-1.0955	0.2249	1.5165	9945	HiCnLOH	0
						4.39575		
ENSG00000117984	CTSD	0.5214	1.2764	-0.7127	-1.1474	9945	LoSCINS	0
						4.39575		
ENSG00000115540	MOB4	0.5214	-0.9434	1.5759	-0.5945	9945	HiAiCNA	0
						4.39575		
ENSG00000137337	MDC1	0.5212	-1.1616	0.2549	1.5856	9945	HiCnLOH	1
						4.39575		
ENSG00000106823	ECM2	0.5208	1.1740	-0.4082	-1.3955	9945	LoSCINS	0
						4.39575		
ENSG00000120798	NR2C1	0.5204	-1.3032	1.4819	0.1344	9945	HiAiCNA	0
						4.39575		
ENSG00000067704	IARS2	0.5204	-1.3340	0.8580	1.0436	9945	HiCnLOH	0
						4.39575		
ENSG00000170860	LSM3	0.5204	-1.2823	1.0468	0.6978	9945	HiAiCNA	0
						4.39575		
ENSG00000114346	ECT2	0.5204	-1.1176	0.2354	1.5389	9945	HiCnLOH	1
						4.39575		
ENSG00000151632	AKR1C2	0.5202	1.1703	-0.9502	-0.6440	9945	LoSCINS	0
						4.39575		
ENSG00000157353	FUK	0.5202	1.1342	-1.4353	0.0833	9945	LoSCINS	0
						4.39575		
ENSG00000148835	TAF5	0.5201	-1.3760	1.2772	0.5372	9945	HiAiCNA	0

ENSG00000131507	NDFIP1	0.5201	1.3920	-1.0058	-0.9371	4.39575 9945	LoSCINS	0
ENSG00000183888	C1orf64	0.5201	1.1708	-0.5742	-1.1618	4.39575 9945	LoSCINS	0
ENSG00000151468	CCDC3	0.5201	1.2439	-1.1021	-0.5577	4.39575 9945	LoSCINS	0
ENSG00000203875	SNHG5	0.5200	-1.0067	1.3682	-0.2035	4.39575 9945	HiAiCNA	0
ENSG00000102893	PHKB	0.5200	1.0733	-0.0569	-1.7106	4.39575 9945	LoSCINS	0
ENSG00000185480	PARPBP	0.5199	-1.3020	0.9847	0.8160	4.39575 9945	HiAiCNA	0
ENSG00000064687	ABCA7	0.5199	1.2453	-1.2790	-0.3169	4.39575 9945	LoSCINS	0
ENSG00000164430	MB21D1	0.5199	-1.2978	1.3024	0.3722	4.39575 9945	HiAiCNA	0
ENSG00000244754	N4BP2L2	0.5197	1.2296	-0.5521	-1.2903	4.39575 9945	LoSCINS	0
ENSG00000189171	S100A13	0.5197	-1.0314	1.3171	-0.0920	4.39575 9945	HiAiCNA	0
ENSG00000108518	PFN1	0.5197	-0.3996	-0.9633	1.9905	4.39575 9945	HiCnLOH	0
ENSG00000110628	SLC22A18	0.5195	1.2503	-0.7419	-1.0637	4.39575 9945	LoSCINS	0
ENSG00000243147	MRPL33	0.5194	-1.1562	1.3260	0.1037	4.39575 9945	HiAiCNA	0
ENSG00000162599	NFIA	0.5194	1.2331	-0.5135	-1.3492	4.39575 9945	LoSCINS	0
ENSG00000101773	RBBP8	0.5193	-1.2764	0.8851	0.9102	4.39575 9945	HiCnLOH	0
ENSG00000137486	ARRB1	0.5192	1.2405	-1.1592	-0.4736	4.39575 9945	LoSCINS	0
ENSG00000166987	MBD6	0.5192	1.1272	-1.4382	0.0989	4.39575 9945	LoSCINS	0
ENSG00000111897	SERINC1	0.5191	1.3225	-0.7024	-1.2383	4.39575 9945	LoSCINS	0
ENSG00000135476	ESPL1	0.5191	-1.1084	-0.0541	1.9217	4.39575 9945	HiCnLOH	0
ENSG00000152193	RNF219	0.5190	-1.0209	1.5450	-0.4229	4.39575 9945	HiAiCNA	0
ENSG00000091986	CCDC80	0.5189	1.3146	-0.9568	-0.8754	4.39575 9945	LoSCINS	0
ENSG00000144591	GMPPA	0.5189	1.2989	-1.1733	-0.5515	4.39575 9945	LoSCINS	0
ENSG00000117620	SLC35A3	0.5188	0.4589	0.8211	-1.8939	4.39575 9945	HiAiCNA	0
ENSG00000080822	CLDND1	0.5186	-1.3156	0.9385	0.9023	4.39575 9945	HiAiCNA	0
ENSG00000167513	CDT1	0.5185	-1.0481	0.0803	1.6365	4.39575 9945	HiCnLOH	0
ENSG00000186625	KATNA1	0.5185	-1.2981	0.9850	0.8091	4.39575 9945	HiAiCNA	0
ENSG00000166233	ARIH1	0.5184	-1.2183	0.3126	1.6006	4.39575 9945	HiCnLOH	0
ENSG00000142197	DOPEY2	0.5183	1.2536	-1.0896	-0.5911	4.39575 9945	LoSCINS	0
ENSG00000131626	PPFIA1	0.5182	-0.8777	1.5878	-0.7205	4.39575 9945	HiAiCNA	0
ENSG00000184232	OAF	0.5182	1.2601	-0.8175	-0.9761	4.39575 9945	LoSCINS	0
ENSG00000144648	CCBP2	0.5182	1.1523	-1.0837	-0.4304	4.39575 9945	LoSCINS	0
ENSG00000213005	PTTG3P	0.5181	-1.2046	0.5699	1.2241	4.39575 9945	HiCnLOH	0
ENSG00000168883	USP39	0.5174	-1.3486	1.0181	0.8478	4.39575 9945	HiAiCNA	0
ENSG00000169249	ZRSR2	0.5173	1.3002	-1.1965	-0.5219	4.39575 9945	LoSCINS	0
ENSG00000143771	CNIH4	0.5172	-1.2834	0.9067	0.8924	4.39575 9945	HiAiCNA	0
ENSG00000101445	PPP1R16B	0.5170	1.2557	-0.7637	-1.0428	4.39575 9945	LoSCINS	0
ENSG00000169026	MFSD7	0.5166	1.1806	-0.4757	-1.3135	4.39575 9945	LoSCINS	0
ENSG00000144747	TMF1	0.5164	-1.0479	1.6861	-0.5718	4.39575	HiAiCNA	0

ENSG0000048462	TNFRSF17	0.5160	0.9642	0.0106	-1.6215	4.39575	9945	LoSCINS	0
ENSG00000164134	NAA15	0.5159	-1.1581	0.1350	1.7445	4.39575	9945	HiCnLOH	0
ENSG00000147526	TACC1	0.5158	1.0591	-0.0883	-1.6438	4.39575	9945	LoSCINS	0
ENSG00000104408	EIF3E	0.5158	-1.0044	1.4909	-0.3760	4.39575	9945	HiAiCNA	0
ENSG00000156463	SH3RF2	0.5157	1.2906	-1.1321	-0.5945	4.39575	9945	LoSCINS	0
ENSG00000142444	C19orf52	0.5155	-1.2800	0.5433	1.3862	4.39575	9945	HiCnLOH	0
ENSG00000228782	MRPL45P2	0.5153	-1.1365	1.3583	0.0265	4.39575	9945	HiAiCNA	0
ENSG00000113140	SPARC	0.5151	1.1127	-0.3279	-1.4036	4.39575	9945	LoSCINS	0
ENSG00000077348	EXOSC5	0.5149	-1.2826	0.8236	1.0052	4.39575	9945	HiCnLOH	0
ENSG00000166311	SMPD1	0.5149	1.4607	-1.2412	-0.7279	4.39575	9945	LoSCINS	0
ENSG00000181061	HIGD1A	0.5146	-1.2557	1.0552	0.6420	4.39575	9945	HiAiCNA	0
ENSG00000099330	OCEL1	0.5145	1.2772	-0.7171	-1.1427	4.39575	9945	LoSCINS	0
ENSG00000198522	GPN1	0.5145	-1.3059	0.9970	0.8055	4.39575	9945	HiAiCNA	0
ENSG00000237223	SULT1C2P1	0.5145	1.2148	-0.7256	-1.0269	4.39575	9945	LoSCINS	0
ENSG00000162885	B3GALNT2	0.5144	-1.3726	1.1643	0.6868	4.39575	9945	HiAiCNA	0
ENSG00000159259	CHAF1B	0.5144	-1.1733	0.4053	1.3983	4.39575	9945	HiCnLOH	0
ENSG00000197321	SVIL	0.5142	-1.2406	0.5244	1.3465	4.39575	9945	HiCnLOH	0
ENSG00000111716	LDHB	0.5142	-1.1998	0.8821	0.7867	4.39575	9945	HiAiCNA	0
ENSG00000019186	CYP24A1	0.5142	-1.1870	1.4672	-0.0392	4.39575	9945	HiAiCNA	0
ENSG00000130287	NCAN	0.5141	-1.2410	1.1014	0.5539	4.39575	9945	HiAiCNA	0
ENSG00000078902	TOLLIP	0.5140	1.3326	-1.0179	-0.8213	4.39575	9945	LoSCINS	0
ENSG00000162949	CAPN13	0.5140	1.1840	-0.8234	-0.8412	4.39575	9945	LoSCINS	0
ENSG00000104783	KCNN4	0.5138	-1.1950	1.2339	0.2950	4.39575	9945	HiAiCNA	0
ENSG00000104447	TRPS1	0.5136	-1.3030	0.9182	0.9092	4.39575	9945	HiAiCNA	0
ENSG00000108582	CPD	0.5132	0.8918	0.2241	-1.7945	4.39575	9945	LoSCINS	0
ENSG00000168306	ACOX2	0.5132	1.1682	-0.5619	-1.1745	4.39575	9945	LoSCINS	0
ENSG00000140718	FTO	0.5131	1.0768	-1.4554	0.2064	4.39575	9945	LoSCINS	0
ENSG00000160208	RRP1B	0.5130	-1.3102	0.9137	0.9273	4.39575	9945	HiCnLOH	0
ENSG00000114416	FXR1	0.5129	-1.2800	0.9696	0.8000	4.39575	9945	HiAiCNA	0
ENSG00000158863	FAM160B2	0.5128	1.1959	-1.4800	0.0419	4.39575	9945	LoSCINS	0
ENSG00000170345	FOS	0.5126	1.1684	-0.5774	-1.1535	4.39575	9945	LoSCINS	0
ENSG00000088035	ALG6	0.5126	-1.1753	1.3186	0.1457	4.39575	9945	HiAiCNA	0
ENSG00000119013	NDUFB3	0.5125	-1.2855	1.0324	0.7230	4.39575	9945	HiAiCNA	0
ENSG00000005238	FAM214B	0.5125	0.5996	-1.5360	1.1127	4.39575	9945	HiCnLOH	0
ENSG00000256683	ZNF350	0.5124	0.9960	0.0934	-1.7885	4.39575	9945	LoSCINS	0
ENSG00000167771	RCOR2	0.5124	-1.2086	0.6932	1.0611	4.39575	9945	HiCnLOH	0
ENSG00000185432	METTL7A	0.5123	1.2693	-1.0192	-0.7141	4.39575	9945	LoSCINS	0

ENSG00000183801	OLFML1	0.5123	1.2211	-0.5095	-1.3345	4.39575 9945	LoSCINS	0
ENSG00000111319	SCNN1A	0.5122	1.1717	-0.7818	-0.8778	4.39575 9945	LoSCINS	1
ENSG00000160593	AMICA1	0.5122	1.2233	-0.6155	-1.1926	4.39575 9945	LoSCINS	0
ENSG00000160679	CHTOP	0.5121	-1.2841	0.3754	1.6240	4.39575 9945	HiCnLOH	0
ENSG00000214113	LYRM4	0.5121	-1.3340	1.0797	0.7387	4.39575 9945	HiAiCNA	0
ENSG00000184709	LRRC26	0.5121	1.1636	-0.7640	-0.8888	4.39575 9945	LoSCINS	0
ENSG00000071246	VASH1	0.5118	1.1994	-1.3756	-0.1076	4.39575 9945	LoSCINS	0
ENSG00000013297	CLDN11	0.5118	1.2096	-0.7153	-1.0324	4.39575 9945	LoSCINS	0
ENSG00000182481	KPNA2	0.5116	-1.2111	0.6952	1.0627	4.39575 9945	HiCnLOH	1
ENSG00000112237	CCNC	0.5115	-0.9249	1.4097	-0.3969	4.39575 9945	HiAiCNA	0
ENSG00000183722	LHFP	0.5113	1.2494	-0.8824	-0.8691	4.39575 9945	LoSCINS	0
ENSG00000070501	POLB	0.5108	-1.0737	0.1464	1.5881	4.39575 9945	HiCnLOH	0
ENSG00000204388	HSPA1B	0.5108	-1.2571	0.8845	0.8790	4.39575 9945	HiAiCNA	0
ENSG00000100297	MCM5	0.5106	-1.1274	0.2245	1.5703	4.39575 9945	HiCnLOH	0
ENSG00000168542	COL3A1	0.5099	1.1127	-0.3423	-1.3837	4.39575 9945	LoSCINS	0
ENSG00000166347	CYB5A	0.5099	1.1961	-0.9826	-0.6424	4.39575 9945	LoSCINS	0
ENSG00000157106	SMG1	0.5098	-1.2606	1.2313	0.4080	4.39575 9945	HiAiCNA	0
ENSG00000176658	MYO1D	0.5097	1.2338	-0.5625	-1.2828	4.39575 9945	LoSCINS	0
ENSG00000103264	FBXO31	0.5097	1.2340	-1.3803	-0.1589	4.39575 9945	LoSCINS	0
ENSG00000213088	DARC	0.5096	1.1889	-0.8439	-0.8211	4.39575 9945	LoSCINS	0
ENSG00000050405	LIMA1	0.5094	1.2088	-0.5169	-1.3038	4.39575 9945	LoSCINS	0
ENSG00000133321	RARRES3	0.5094	1.1735	-0.9548	-0.6429	4.39575 9945	LoSCINS	0
ENSG00000229807	XIST	0.5092	1.2145	-1.0447	-0.5877	4.39575 9945	LoSCINS	0
ENSG00000132563	REEP2	0.5091	-1.1171	0.0399	1.8069	4.39575 9945	HiCnLOH	0
ENSG00000181104	F2R	0.5091	0.4004	-1.6155	1.5539	4.39575 9945	HiCnLOH	0
ENSG00000167202	TBC1D2B	0.5089	1.3005	-1.1304	-0.6132	4.39575 9945	LoSCINS	0
ENSG00000167081	PBX3	0.5089	1.0904	-0.2007	-1.5414	4.39575 9945	LoSCINS	0
ENSG00000135709	KIAA0513	0.5088	1.2287	-1.1804	-0.4248	4.39575 9945	LoSCINS	0
ENSG00000123505	AMD1	0.5088	-1.0260	1.3338	-0.1240	4.39575 9945	HiAiCNA	0
ENSG00000135723	FHOD1	0.5088	1.2420	-0.9586	-0.7518	4.39575 9945	LoSCINS	0
ENSG00000095015	MAP3K1	0.5087	1.2593	-0.8338	-0.9523	4.39575 9945	LoSCINS	0
ENSG00000033627	ATP6V0A1	0.5086	1.0410	-1.4599	0.2723	4.39575 9945	LoSCINS	0
ENSG00000149292	TTC12	0.5085	1.2918	-0.9157	-0.8939	4.39575 9945	LoSCINS	0
ENSG00000140961	OSGIN1	0.5085	1.2021	-0.7427	-0.9822	4.39575 9945	LoSCINS	0
ENSG00000182208	MOB2	0.5083	1.3277	-0.7122	-1.2335	4.39575 9945	LoSCINS	0
ENSG00000144381	HSPD1	0.5080	-1.0951	1.3344	-0.0096	4.39575 9945	HiAiCNA	0
ENSG00000131503	ANKHD1- EIF4EBP3	0.5080	1.3864	-1.1732	-0.6976	4.39575 9945	LoSCINS	0
ENSG00000064313	TAF2	0.5077	-1.1548	1.3571	0.0586	4.39575	HiAiCNA	0

						9945		
ENSG00000198860	TSEN15	0.5076	-1.1564	1.3800	0.0298	4.39575		
						9945	HiAiCNA	0
ENSG00000109339	MAPK10	0.5076	1.0566	-1.3085	0.0382	4.39575		
						9945	LoSCINS	0
ENSG00000116678	LEPR	0.5075	1.1813	-0.4113	-1.4033	4.39575		
						9945	LoSCINS	0
ENSG00000172935	MRGPRF	0.5075	1.3172	-0.9079	-0.9469	4.39575		
						9945	LoSCINS	0
ENSG00000197694	SPTAN1	0.5073	0.4066	-1.4647	1.3364	4.39575		
						9945	HiCnLOH	0
ENSG00000144028	SNRNP200	0.5072	1.2251	-1.3703	-0.1576	4.39575		
						9945	LoSCINS	0
ENSG00000112996	MRPS30	0.5072	-1.2772	1.1600	0.5336	4.39575		
						9945	HiAiCNA	0
ENSG00000090447	TFAP4	0.5072	-1.1528	0.0332	1.8758	4.39575		
						9945	HiCnLOH	0
ENSG00000125319	C17orf53	0.5070	-1.1983	0.5288	1.2700	4.39575		
						9945	HiCnLOH	0
ENSG00000171566	PLRG1	0.5069	-1.2613	0.4879	1.4313	4.39575		
						9945	HiCnLOH	0
ENSG00000182022	CHST15	0.5068	1.2423	-0.7898	-0.9845	4.39575		
						9945	LoSCINS	0
ENSG00000148154	UGCG	0.5066	1.2569	-0.9055	-0.8497	4.39575		
						9945	LoSCINS	0
ENSG00000164488	DACT2	0.5066	-0.4664	-0.8337	1.9237	4.39575		
						9945	HiCnLOH	0
ENSG00000213782	DDX47	0.5065	-1.1790	1.1555	0.3762	4.39575		
						9945	HiAiCNA	0
ENSG00000181192	DHTKD1	0.5064	-1.2424	0.6723	1.1463	4.39575		
						9945	HiCnLOH	0
ENSG00000103569	AQP9	0.5062	-1.1235	1.2019	0.2199	4.39575		
						9945	HiAiCNA	0
ENSG00000197170	PSMD12	0.5061	-1.2355	1.2122	0.3923	4.39575		
						9945	HiAiCNA	0
ENSG00000198643	FAM3D	0.5061	1.1956	-0.9865	-0.6362	4.39575		
						9945	LoSCINS	0
ENSG00000125122	LRRC29	0.5060	1.2489	-1.4332	-0.1109	4.39575		
						9945	LoSCINS	0
ENSG00000163170	BOLA3	0.5059	-1.2566	1.1603	0.4990	4.39575		
						9945	HiAiCNA	0
ENSG00000183684	ALYREF	0.5055	-1.1854	0.5858	1.1702	4.39575		
						9945	HiCnLOH	0
ENSG00000114124	GRK7	0.5055	-1.4782	0.3809	1.9398	4.39575		
						9945	HiCnLOH	0
ENSG00000142235	LMTK3	0.5055	1.1638	-0.7441	-0.9165	4.39575		
						9945	LoSCINS	0
ENSG00000067167	TRAM1	0.5053	-0.4460	1.4463	-1.2454	4.39575		
						9945	HiAiCNA	0
ENSG00000197548	ATG7	0.5053	1.2531	-1.2756	-0.3345	4.39575		
						9945	LoSCINS	0
ENSG00000169744	LDB2	0.5053	1.1849	-0.5092	-1.2746	4.39575		
						9945	LoSCINS	0
ENSG00000007968	E2F2	0.5052	-0.9348	-0.0675	1.6508	4.39575		
						9945	HiCnLOH	0
ENSG00000116133	DHCR24	0.5050	1.0559	-1.2350	-0.0618	4.39575		
						9945	LoSCINS	0
ENSG00000138185	ENTPD1	0.5049	1.1186	-0.2432	-1.5301	4.39575		
						9945	LoSCINS	0
ENSG00000087076	HSD17B14	0.5048	1.2853	-0.8693	-0.9469	4.39575		
						9945	LoSCINS	0
ENSG00000105609	LILRB5	0.5047	1.1869	-0.6496	-1.0851	5.42382		
						0082	LoSCINS	0
ENSG00000173068	BNC2	0.5047	1.2815	-0.8851	-0.9190	5.42382		
						0082	LoSCINS	0
ENSG00000130713	EXOSC2	0.5046	-1.1408	0.2053	1.6190	5.42382		
						0082	HiCnLOH	0
ENSG00000166557	TMED3	0.5045	1.0035	-1.3301	0.1563	5.42382		
						0082	LoSCINS	0
ENSG00000186501	TMEM222	0.5045	0.9642	-1.5530	0.5284	5.42382		
						0082	LoSCINS	0
ENSG00000129009	ISLR	0.5043	1.3806	-0.6871	-1.3563	5.42382		
						0082	LoSCINS	0
ENSG00000174444	SNORD16	0.5041	-0.9772	1.6139	-0.5905	5.42382		
						0082	HiAiCNA	0

ENSG00000154582	TCEB1	0.5041	-1.1821	1.2525	0.2479	5.42382	0082	HiAiCNA	0
ENSG00000155100	OTUD6B	0.5040	-1.2724	1.2441	0.4100	5.42382	0082	HiAiCNA	0
ENSG00000143319	ISG20L2	0.5039	-1.2800	0.5283	1.4069	5.42382	0082	HiCnLOH	0
ENSG00000127954	STEAP4	0.5039	1.1500	-1.2762	-0.1620	5.42382	0082	LoSCINS	0
ENSG00000153914	SREK1	0.5038	1.2687	-1.0962	-0.6072	5.42382	0082	LoSCINS	0
ENSG00000163923	RPL39L	0.5036	-1.1652	0.5408	1.1985	5.42382	0082	HiCnLOH	0
ENSG00000065371	ROPN1	0.5033	-1.1284	0.9856	0.5256	5.42382	0082	HiAiCNA	0
ENSG00000170619	COMMD5	0.5032	-1.1905	1.4356	0.0102	5.42382	0082	HiAiCNA	0
ENSG00000259484	LOC145783	0.5031	-1.2837	0.3617	1.6421	5.42382	0082	HiCnLOH	0
ENSG00000008282	SYPL1	0.5031	-0.7819	1.4390	-0.6754	5.42382	0082	HiAiCNA	0
ENSG00000127423	AUNIP	0.5031	-1.2267	0.7862	0.9634	5.42382	0082	HiCnLOH	0
ENSG00000146733	PSPH	0.5030	-1.1124	0.2527	1.5066	5.42382	0082	HiCnLOH	0
ENSG00000011105	TSPAN9	0.5030	1.2195	-0.8080	-0.9215	5.42382	0082	LoSCINS	0
ENSG00000124383	MPHOSPH1 0	0.5029	-1.1981	1.3727	0.1093	5.42382	0082	HiAiCNA	0
ENSG00000141127	PRPSAP2	0.5028	-1.3051	0.6975	1.2160	5.42382	0082	HiCnLOH	0
ENSG00000065150	IPO5	0.5027	-1.1676	1.3835	0.0436	5.42382	0082	HiAiCNA	0
ENSG00000150672	DLG2	0.5027	1.2708	-0.6262	-1.2570	5.42382	0082	LoSCINS	0
ENSG00000125352	RNF113A	0.5026	1.2153	-0.3664	-1.5217	5.42382	0082	LoSCINS	0
ENSG00000188807	TMEM201	0.5025	-1.3496	0.6411	1.3678	5.42382	0082	HiCnLOH	0
ENSG00000183508	FAM46C	0.5024	1.0804	-0.3498	-1.3198	5.42382	0082	LoSCINS	0
ENSG00000170340	B3GNT2	0.5024	-0.4115	1.4182	-1.2643	5.42382	0082	HiAiCNA	0
ENSG00000133216	EPHB2	0.5023	0.5106	-1.5523	1.2834	5.42382	0082	HiCnLOH	0
ENSG00000157593	SLC35B2	0.5022	-1.2307	1.0172	0.6526	5.42382	0082	HiAiCNA	0
ENSG00000169851	PCDH7	0.5020	1.2549	-0.9310	-0.8114	5.42382	0082	LoSCINS	0
ENSG00000161179	YDJC	0.5020	-1.3745	0.8928	1.0632	5.42382	0082	HiCnLOH	0
ENSG00000183150	GPR19	0.5017	-1.2274	1.0215	0.6411	5.42382	0082	HiAiCNA	0
ENSG00000141034	GID4	0.5016	-1.1572	1.5969	-0.2671	5.42382	0082	HiAiCNA	0
ENSG00000129317	PUS7L	0.5015	-0.8728	1.5986	-0.7434	5.42382	0082	HiAiCNA	0
ENSG00000106462	EZH2	0.5014	-1.1283	0.3348	1.4202	5.42382	0082	HiCnLOH	1
ENSG00000006695	COX10	0.5013	-1.3002	1.0871	0.6722	5.42382	0082	HiAiCNA	0
ENSG00000146457	WTAP	0.5012	-1.3248	0.9744	0.8681	5.42382	0082	HiAiCNA	0
ENSG00000064300	NGFR	0.5012	0.5194	-1.6443	1.3953	5.42382	0082	HiCnLOH	0
ENSG00000185070	FLRT2	0.5011	1.2764	-0.7786	-1.0568	5.42382	0082	LoSCINS	1
ENSG00000103495	MAZ	0.5010	-1.2058	1.3481	0.1560	5.42382	0082	HiAiCNA	0
ENSG00000168275	COA6	0.5008	-1.2679	1.0574	0.6592	5.42382	0082	HiAiCNA	0
ENSG00000166801	FAM111A	0.5007	1.2539	-0.9551	-0.7765	5.42382	0082	LoSCINS	0
ENSG00000165105	RASEF	0.5007	1.1854	-0.8579	-0.7961	5.42382	0082	LoSCINS	0
ENSG00000127329	PTPRB	0.5007	1.3875	-0.8703	-1.1159	5.42382	0082	LoSCINS	0



						0082			
ENSG00000129460	NGDN	0.5007	-0.9658	1.4499	-0.3841	5.42382	0082	HiAiCNA	0
ENSG00000112096	SOD2	0.5006	-1.1669	0.9798	0.5977	5.42382	0082	HiAiCNA	0
ENSG00000048991	R3HDM1	0.5005	-1.3832	0.7750	1.2396	5.42382	0082	HiCnLOH	0
ENSG00000146109	ABT1	0.5004	-1.4147	1.2322	0.6635	5.42382	0082	HiAiCNA	0
ENSG00000134590	FAM127A	0.5003	0.7964	-1.4490	0.6651	5.42382	0082	LoSCINS	0
ENSG00000136918	WDR38	0.5001	-1.5495	0.7836	1.5050	5.42382	0082	HiCnLOH	0
ENSG00000101557	USP14	0.5001	-1.1432	1.3460	0.0546	5.42382	0082	HiAiCNA	0
ENSG00000105011	ASF1B	0.5001	-1.0995	0.2355	1.5088	5.42382	0082	HiCnLOH	0
ENSG00000221829	FANCG	0.5000	-0.8818	-0.2154	1.7659	5.42382	0082	HiCnLOH	0
ENSG00000064787	BCAS1	0.4999	1.2315	-0.6636	-1.1400	5.42382	0082	LoSCINS	0
ENSG00000123136	DDX39A	0.4997	-1.2203	0.6252	1.1742	5.42382	0082	HiCnLOH	0
ENSG00000070669	ASNS	0.4997	-0.8968	1.3642	-0.3811	5.42382	0082	HiAiCNA	0
ENSG00000115392	FANCL	0.4996	-1.2327	1.1124	0.5250	5.42382	0082	HiAiCNA	0
ENSG00000130513	GDF15	0.4995	1.1869	-0.7115	-0.9998	5.42382	0082	LoSCINS	0
ENSG00000143416	SELENBP1	0.4994	0.8940	-1.3392	0.3514	5.42382	0082	LoSCINS	0
ENSG00000179941	BBS10	0.4993	-1.4340	1.0642	0.9266	5.42382	0082	HiAiCNA	0
ENSG00000145220	LYAR	0.4993	-1.2277	0.6162	1.1989	5.42382	0082	HiCnLOH	0
ENSG00000003509	NDUFAF7	0.4992	-1.2990	1.3081	0.3663	5.42382	0082	HiAiCNA	0
ENSG00000198298	ZNF485	0.4992	-1.0668	1.4997	-0.2840	5.42382	0082	HiAiCNA	0
ENSG00000198839	ZNF277	0.4991	0.2726	0.9797	-1.8015	5.42382	0082	HiAiCNA	0
ENSG00000103310	ZP2	0.4989	1.1774	-0.6840	-1.0219	5.42382	0082	LoSCINS	0
ENSG00000182993	C12orf60	0.4987	-1.3353	0.8390	1.0719	5.42382	0082	HiCnLOH	0
ENSG00000142208	AKT1	0.4986	1.0490	-1.3470	0.1038	5.42382	0082	LoSCINS	0
ENSG00000070081	NUCB2	0.4985	0.9787	-0.0499	-1.5626	5.42382	0082	LoSCINS	0
ENSG00000107371	EXOSC3	0.4984	-1.2461	0.9165	0.8166	5.42382	0082	HiAiCNA	0
ENSG00000128928	IVD	0.4983	1.1705	-0.4938	-1.2720	5.42382	0082	LoSCINS	0
ENSG00000138347	MYPN	0.4983	1.4781	-1.0555	-1.0122	5.42382	0082	LoSCINS	0
ENSG00000136986	DERL1	0.4982	-0.8351	1.4865	-0.6521	5.42382	0082	HiAiCNA	0
ENSG00000137267	TUBB2A	0.4982	-0.4870	-0.6940	1.7660	5.42382	0082	HiCnLOH	0
ENSG00000160180	TFF3	0.4981	1.0767	-0.4379	-1.1923	5.42382	0082	LoSCINS	0
ENSG00000121895	TMEM156	0.4980	1.2185	-0.5833	-1.2288	5.42382	0082	LoSCINS	0
ENSG00000196220	SRGAP3	0.4979	1.1320	-1.3302	-0.0576	5.42382	0082	LoSCINS	0
ENSG00000108349	CASC3	0.4976	-1.2478	1.1637	0.4796	5.42382	0082	HiAiCNA	0
ENSG00000090924	PLEKHG2	0.4976	-0.9423	-0.1968	1.8412	5.42382	0082	HiCnLOH	0
ENSG00000181690	PLAG1	0.4976	-0.2689	1.4491	-1.5443	5.42382	0082	HiAiCNA	0
ENSG00000076554	TPD52	0.4975	0.0411	1.0715	-1.5417	5.42382	0082	HiAiCNA	0
ENSG00000108106	UBE2S	0.4974	-1.0965	0.3301	1.3735	5.42382	0082	HiCnLOH	0

ENSG00000108559	NUP88	0.4973	-1.2489	1.0047	0.7000	5.42382	0082	HiAiCNA	0
ENSG00000181610	MRPS23	0.4971	-1.2634	1.2421	0.3979	5.42382	0082	HiAiCNA	0
ENSG00000136997	MYC	0.4970	-1.1657	0.8176	0.8187	5.42382	0082	HiCnLOH	0
ENSG00000101460	MAP1LC3A	0.4970	0.3119	-1.2981	1.2650	5.42382	0082	HiCnLOH	0
ENSG00000120539	MASTL	0.4970	-1.2186	0.5963	1.2111	5.42382	0082	HiCnLOH	0
ENSG00000204385	SLC44A4	0.4968	1.1564	-0.8098	-0.8139	5.42382	0082	LoSCINS	0
ENSG00000091831	ESR1	0.4968	1.1304	-0.3006	-1.4708	5.42382	0082	LoSCINS	0
ENSG00000124562	SNRPC	0.4967	-1.1333	1.3235	0.0689	5.42382	0082	HiAiCNA	0
ENSG00000196176	HIST1H4C	0.4967	-1.2141	0.9754	0.6822	5.42382	0082	HiAiCNA	0
ENSG00000169740	ZNF32	0.4966	-0.9631	1.5880	-0.5784	5.42382	0082	HiAiCNA	0
ENSG00000132485	ZRANB2	0.4965	-1.2447	1.1007	0.5610	5.42382	0082	HiAiCNA	0
ENSG00000110422	HIPK3	0.4964	-1.2321	1.5701	-0.1054	5.42382	0082	HiAiCNA	0
ENSG00000143815	LBR	0.4963	-1.2229	0.9183	0.7754	5.42382	0082	HiAiCNA	0
ENSG00000114861	FOXP1	0.4963	1.2947	-1.4486	-0.1660	5.42382	0082	LoSCINS	0
ENSG00000135624	CCT7	0.4962	-0.9210	1.3996	-0.3895	5.42382	0082	HiAiCNA	0
ENSG00000092529	CAPN3	0.4962	1.2622	-0.9072	-0.8563	5.42382	0082	LoSCINS	0
ENSG00000158828	PINK1	0.4961	1.2728	-0.7539	-1.0848	5.42382	0082	LoSCINS	0
ENSG00000186350	RXRA	0.4958	0.5042	-1.3866	1.0663	5.42382	0082	HiCnLOH	0
ENSG00000076662	ICAM3	0.4958	1.0094	-0.0714	-1.5843	5.42382	0082	LoSCINS	0
ENSG00000173992	CCS	0.4957	1.2645	-0.9059	-0.8618	5.42382	0082	LoSCINS	0
ENSG00000155755	TMEM237	0.4957	-1.2143	0.9839	0.6708	5.42382	0082	HiAiCNA	0
ENSG00000121774	KHDRBS1	0.4956	-1.2345	0.4306	1.4654	5.42382	0082	HiCnLOH	0
ENSG00000143393	PI4KB	0.4955	-0.6485	-0.5699	1.8645	5.42382	0082	HiCnLOH	0
ENSG00000139531	SUOX	0.4953	1.2254	-1.0613	-0.5830	5.42382	0082	LoSCINS	0
ENSG00000119640	ACYP1	0.4953	-1.3034	0.3054	1.7524	5.42382	0082	HiCnLOH	0
ENSG00000160613	PCSK7	0.4953	1.6311	-1.1113	-1.1904	5.42382	0082	LoSCINS	0
ENSG00000099622	CIRBP	0.4951	1.2254	-0.9105	-0.7903	5.42382	0082	LoSCINS	0
ENSG00000174640	SLCO2A1	0.4951	0.9329	-1.3256	0.2678	5.42382	0082	LoSCINS	0
ENSG00000142459	EVI5L	0.4951	0.9466	-1.4552	0.4233	5.42382	0082	LoSCINS	0
ENSG00000168528	SERINC2	0.4951	1.0157	-1.2679	0.0505	5.42382	0082	LoSCINS	0
ENSG00000107614	TRDMT1	0.4950	-0.9004	1.5396	-0.6163	5.42382	0082	HiAiCNA	0
ENSG00000134443	GRP	0.4949	1.1447	-0.7727	-0.8453	5.42382	0082	LoSCINS	0
ENSG00000096060	FKBP5	0.4949	1.1253	-0.5513	-1.1174	5.42382	0082	LoSCINS	0
ENSG00000005486	RHBDD2	0.4949	0.9358	-1.3916	0.3537	5.42382	0082	LoSCINS	0
ENSG00000205002	AARD	0.4948	-1.1157	0.9962	0.4898	5.42382	0082	HiAiCNA	0
ENSG00000144649	FAM198A	0.4948	-1.2901	0.3656	1.6474	5.42382	0082	HiCnLOH	0
ENSG00000085563	ABCB1	0.4947	1.2842	-0.5279	-1.4144	5.42382	0082	LoSCINS	0
ENSG00000111666	CHPT1	0.4946	-1.0762	1.1628	0.1948	5.42382	0082	HiAiCNA	0

ENSG00000135972	MRPS9	0.4942	-1.2315	1.1841	0.4244	5.42382	0082	HiAiCNA	0
ENSG00000132646	PCNA	0.4942	-1.1934	0.6859	1.0460	5.42382	0082	HiCnLOH	0
ENSG00000135828	RNASEL	0.4941	1.2767	-1.0404	-0.6974	5.42382	0082	LoSCINS	0
ENSG00000127191	TRAF2	0.4939	-1.1553	0.3761	1.4083	5.42382	0082	HiCnLOH	0
ENSG00000121068	TBX2	0.4938	1.2327	-0.9764	-0.7120	5.42382	0082	LoSCINS	0
ENSG00000107872	FBXL15	0.4938	1.3372	-0.8236	-1.0963	5.42382	0082	LoSCINS	0
ENSG00000132680	KIAA0907	0.4936	-1.2078	0.5666	1.2339	5.42382	0082	HiCnLOH	0
ENSG00000102471	NDFIP2	0.4933	-0.0949	1.1990	-1.4906	5.42382	0082	HiAiCNA	0
ENSG00000106123	EPHB6	0.4933	0.1332	-1.1767	1.3961	5.42382	0082	HiCnLOH	0
ENSG00000116906	GNPAT	0.4932	-1.1847	1.2457	0.2616	5.42382	0082	HiAiCNA	0
ENSG00000099194	SCD	0.4931	1.1360	-0.5972	-1.0722	5.42382	0082	LoSCINS	0
ENSG00000121289	CEP89	0.4930	-1.1368	0.2469	1.5552	5.42382	0082	HiCnLOH	0
ENSG00000171476	HOPX	0.4929	1.0217	-0.1827	-1.4516	5.42382	0082	LoSCINS	0
ENSG00000158552	ZFAND2B	0.4929	1.2811	-0.8413	-0.9784	5.42382	0082	LoSCINS	0
ENSG00000102221	PHF16	0.4928	-1.0898	1.3116	0.0128	5.42382	0082	HiAiCNA	0
ENSG00000189129	PLAC9	0.4927	1.1432	-0.6314	-1.0373	5.42382	0082	LoSCINS	0
ENSG00000039523	FAM65A	0.4926	1.2379	-1.0651	-0.5985	5.42382	0082	LoSCINS	0
ENSG00000175220	ARHGAP1	0.4925	1.2142	-1.0547	-0.5734	5.42382	0082	LoSCINS	0
ENSG00000074695	LMAN1	0.4925	-1.2369	1.3525	0.2019	5.42382	0082	HiAiCNA	0
ENSG00000054598	FOXC1	0.4925	-0.9871	0.1791	1.3988	5.42382	0082	HiCnLOH	0
ENSG00000180667	YOD1	0.4919	-1.2255	1.0352	0.6192	5.42382	0082	HiAiCNA	0
ENSG00000096401	CDC5L	0.4918	-1.2508	0.7968	0.9890	5.42382	0082	HiCnLOH	0
ENSG00000104805	NUCB1	0.4916	1.0266	-1.4280	0.2525	5.42382	0082	LoSCINS	0
ENSG00000110171	TRIM3	0.4915	1.2464	-0.9341	-0.7929	5.42382	0082	LoSCINS	0
ENSG00000170776	AKAP13	0.4914	1.2552	-0.7880	-1.0084	5.42382	0082	LoSCINS	0
ENSG00000119938	PPP1R3C	0.4913	1.1389	-0.5393	-1.1567	5.42382	0082	LoSCINS	0
ENSG00000103254	FAM173A	0.4912	0.8388	0.2449	-1.7348	5.42382	0082	LoSCINS	0
ENSG00000118197	DDX59	0.4911	-1.2939	1.1787	0.5358	5.42382	0082	HiAiCNA	0
ENSG00000146072	TNFRSF21	0.4911	-0.8712	1.3394	-0.3896	5.42382	0082	HiAiCNA	0
ENSG00000151136	BTBD11	0.4910	1.0754	-0.2543	-1.4426	5.42382	0082	LoSCINS	0
ENSG00000126107	HECTD3	0.4909	1.1894	-1.2384	-0.2796	5.42382	0082	LoSCINS	0
ENSG00000103351	CLUAP1	0.4909	-0.6230	1.4780	-0.9938	5.42382	0082	HiAiCNA	0
ENSG00000156219	ART3	0.4908	-0.9599	1.2095	-0.0632	5.42382	0082	HiAiCNA	0
ENSG00000143878	RHOB	0.4905	1.1731	-0.8275	-0.8175	5.42382	0082	LoSCINS	0
ENSG00000152464	RPP38	0.4905	-1.2718	1.1153	0.5861	5.42382	0082	HiAiCNA	0
ENSG00000126062	TMEM115	0.4905	1.1337	-1.4029	0.0395	5.42382	0082	LoSCINS	0
ENSG00000113732	ATP6V0E1	0.4904	1.2660	-0.8431	-0.9508	5.42382	0082	LoSCINS	0

ENSG00000186868	MAPT	0.4904	1.1268	-0.4092	-1.3153	5.423820082	LoSCINS	0
ENSG00000039319	ZFYVE16	0.4903	1.2935	-0.4460	-1.5427	5.423820082	LoSCINS	0
ENSG00000167747	C19orf48	0.4902	-1.1962	0.6087	1.1568	5.423820082	HiCnLOH	0
ENSG00000172216	CEBPB	0.4901	-1.1137	0.3594	1.3620	5.423820082	HiCnLOH	0
ENSG00000156875	HIAT1	0.4901	-1.1264	1.3568	0.0117	5.423820082	HiAiCNA	0
ENSG00000196872	KIAA1211L	0.4901	1.1401	-1.0729	-0.4250	5.423820082	LoSCINS	0
ENSG00000112695	COX7A2	0.4901	-1.2370	1.0600	0.6042	5.423820082	HiAiCNA	0
ENSG00000143252	SDHC	0.4898	-1.1930	1.1396	0.4214	5.423820082	HiAiCNA	0
ENSG00000124357	NAGK	0.4898	1.2347	-1.0409	-0.6266	5.423820082	LoSCINS	0
ENSG00000170006	TMEM154	0.4897	1.2198	-0.8902	-0.8090	5.423820082	LoSCINS	0
ENSG00000092330	TINF2	0.4897	1.0998	-0.3050	-1.4135	5.423820082	LoSCINS	0
ENSG00000198551	ZNF627	0.4896	-1.2511	0.7298	1.0817	5.423820082	HiCnLOH	0
ENSG00000064270	ATP2C2	0.4896	0.9912	-0.0826	-1.5384	5.423820082	LoSCINS	0
ENSG00000163795	ZNF513	0.4895	0.9913	-1.5737	0.5118	5.423820082	LoSCINS	0
ENSG00000006704	GTF2IRD1	0.4894	-0.9679	-0.0590	1.6942	5.423820082	HiCnLOH	0
ENSG00000083093	PALB2	0.4894	-1.3018	1.1686	0.5629	5.423820082	HiAiCNA	0
ENSG00000005810	MYCBP2	0.4893	1.0959	-0.3166	-1.3911	5.423820082	LoSCINS	0
ENSG00000175175	PPM1E	0.4892	-1.0609	1.3533	-0.0926	5.423820082	HiAiCNA	0
ENSG00000149927	DOC2A	0.4891	-1.2728	0.1037	1.9788	5.423820082	HiCnLOH	0
ENSG00000005007	UPF1	0.4889	-0.0860	-1.1564	1.7333	5.423820082	HiCnLOH	0
ENSG00000181784	RNASE4	0.4888	1.1586	-0.6259	-1.0704	5.423820082	LoSCINS	0
ENSG00000176155	CCDC57	0.4888	1.2034	-0.6272	-1.1433	5.423820082	LoSCINS	0
ENSG00000111077	TENC1	0.4888	1.3492	-1.4098	-0.3102	5.423820082	LoSCINS	0
ENSG00000167333	TRIM68	0.4885	1.1656	-0.5400	-1.2001	5.423820082	LoSCINS	0
ENSG00000007944	MYLIP	0.4884	1.0251	-0.1404	-1.5153	5.423820082	LoSCINS	0
ENSG00000104679	R3HCC1	0.4882	1.1912	-1.2988	-0.1996	5.423820082	LoSCINS	0
ENSG00000172667	ZMAT3	0.4881	1.0372	-0.1764	-1.4862	5.423820082	LoSCINS	0
ENSG00000106009	BRAT1	0.4881	0.8043	-1.4290	0.6245	5.423820082	LoSCINS	0
ENSG00000178449	COX14	0.4881	1.1745	-0.3997	-1.4079	5.423820082	LoSCINS	0
ENSG00000145506	NKD2	0.4881	1.1363	-0.6063	-1.0601	5.423820082	LoSCINS	0
ENSG00000152784	PRDM8	0.4880	1.3049	-0.8791	-0.9661	5.423820082	LoSCINS	0
ENSG00000023191	RNH1	0.4880	1.2748	-0.8793	-0.9156	5.423820082	LoSCINS	0
ENSG00000162521	RBBP4	0.4879	-1.1874	0.9763	0.6366	5.423820082	HiAiCNA	0
ENSG00000124942	AHNAK	0.4878	1.1979	-0.9495	-0.6910	5.423820082	LoSCINS	0
ENSG00000079102	RUNX1T1	0.4878	1.2357	-0.7472	-1.0321	5.423820082	LoSCINS	0
ENSG00000103356	EARS2	0.4877	-1.3169	0.8880	0.9739	5.423820082	HiCnLOH	0
ENSG00000134184	GSTM1	0.4876	0.9280	-0.0383	-1.4940	5.423820082	LoSCINS	0
ENSG00000121486	TRMT1L	0.4876	-1.2014	1.4704	-0.0196	5.423820082	HiAiCNA	0

						0082			
ENSG00000038210	PI4K2B	0.4875	-0.7621	1.4903	-0.7791	5.42382	0082	HiAiCNA	0
ENSG00000137842	TMEM62	0.4874	1.0553	-0.2795	-1.3744	5.42382	0082	LoSCINS	0
ENSG00000149328	GLB1L2	0.4874	1.1722	-0.9241	-0.6831	5.42382	0082	LoSCINS	0
ENSG00000196954	CASP4	0.4873	1.1197	-1.2589	-0.1352	5.42382	0082	LoSCINS	0
ENSG00000131462	TUBG1	0.4873	-1.1640	0.4742	1.2880	5.42382	0082	HiCnLOH	0
ENSG00000109436	TBC1D9	0.4871	1.1809	-0.9134	-0.7123	5.42382	0082	LoSCINS	0
ENSG00000160211	G6PD	0.4871	1.0853	-1.1495	-0.2283	5.42382	0082	LoSCINS	0
ENSG00000134463	ECHDC3	0.4870	-1.1423	1.0229	0.4973	5.42382	0082	HiAiCNA	0
ENSG00000170891	CYTL1	0.4869	1.1533	-0.2687	-1.5528	5.42382	0082	LoSCINS	0
ENSG00000148175	STOM	0.4869	1.2040	-0.6652	-1.0921	5.42382	0082	LoSCINS	0
ENSG00000106355	LSM5	0.4868	-1.0729	1.3208	-0.0279	5.42382	0082	HiAiCNA	0
ENSG00000138297	TIMM23	0.4868	-1.1332	1.2441	0.1781	5.42382	0082	HiAiCNA	0
ENSG00000047621	C12orf4	0.4868	-0.9148	1.4301	-0.4418	5.42382	0082	HiAiCNA	0
ENSG00000111640	GAPDH	0.4867	-1.1392	1.1273	0.3486	5.42382	0082	HiAiCNA	0
ENSG00000101190	TCFL5	0.4867	-1.1324	1.2177	0.2129	5.42382	0082	HiAiCNA	0
ENSG00000124664	SPDEF	0.4867	1.1059	-0.7030	-0.8766	5.42382	0082	LoSCINS	0
ENSG00000159086	PAXBP1	0.4867	-1.2212	0.4281	1.4466	5.42382	0082	HiCnLOH	0
ENSG00000111196	MAGOHB	0.4865	-1.1963	1.2044	0.3378	5.42382	0082	HiAiCNA	0
ENSG00000133393	FOPNL	0.4863	-1.2096	1.0810	0.5297	5.42382	0082	HiAiCNA	0
ENSG00000157992	KRTCAP3	0.4863	-1.1464	0.5523	1.1512	5.42382	0082	HiCnLOH	0
ENSG00000163064	EN1	0.4861	-1.1904	0.7600	0.9391	5.42382	0082	HiCnLOH	0
ENSG00000103485	QPRT	0.4861	1.0294	-0.2894	-1.3178	5.42382	0082	LoSCINS	0
ENSG00000240505	TNFRSF13B	0.4861	1.1854	-0.6389	-1.0972	5.42382	0082	LoSCINS	0
ENSG00000261371	PECAM1	0.4860	0.9246	0.0796	-1.6505	5.42382	0082	LoSCINS	0
ENSG00000122033	MTIF3	0.4860	0.8715	0.2885	-1.8491	5.42382	0082	LoSCINS	0
ENSG00000144218	AFF3	0.4858	0.9734	-1.2646	0.1164	5.42382	0082	LoSCINS	0
ENSG00000083844	ZNF264	0.4858	1.2246	-1.1642	-0.4402	5.42382	0082	LoSCINS	0
ENSG00000167699	GLOD4	0.4857	-1.2548	0.7053	1.1216	5.42382	0082	HiCnLOH	0
ENSG00000016391	CHDH	0.4854	-1.3511	1.3483	0.3979	5.42382	0082	HiAiCNA	0
ENSG00000132005	RFX1	0.4854	0.7901	-1.5102	0.7597	5.42382	0082	LoSCINS	0
ENSG00000148057	IDNK	0.4854	1.2259	-0.9414	-0.7488	5.42382	0082	LoSCINS	0
ENSG00000162972	C2orf47	0.4854	-1.0374	1.3806	-0.1693	5.42382	0082	HiAiCNA	0
ENSG00000137434	C6orf52	0.4854	-1.1672	0.9864	0.5892	5.42382	0082	HiAiCNA	0
ENSG00000116670	MAD2L2	0.4853	-0.2311	-0.9681	1.7164	5.42382	0082	HiCnLOH	0
ENSG00000181038	METTL23	0.4852	-1.1122	1.4098	-0.0848	6.94562	9756	HiAiCNA	0
ENSG00000152217	SETBP1	0.4852	1.1430	-1.1255	-0.3575	6.94562	9756	LoSCINS	0
ENSG00000176720	BOK	0.4852	1.2093	-1.0671	-0.5482	6.94562	9756	LoSCINS	0

ENSG00000106344	RBM28	0.4851	-1.2583	0.8252	0.9626	6.94562 9756	HiCnLOH	0
ENSG00000176024	ZNF613	0.4850	1.1581	-0.6022	-1.1023	6.94562 9756	LoSCINS	0
ENSG00000163935	SFMBT1	0.4850	-1.3045	0.9928	0.8092	6.94562 9756	HiAiCNA	0
ENSG00000160051	IQCC	0.4849	-0.5168	-0.7695	1.9195	6.94562 9756	HiCnLOH	0
ENSG00000166575	TMEM135	0.4849	1.2029	-0.8561	-0.8277	6.94562 9756	LoSCINS	1
ENSG00000013573	DDX11	0.4848	-1.0806	0.2937	1.3972	6.94562 9756	HiCnLOH	0
ENSG00000100473	COCH	0.4848	-1.1414	0.8263	0.7662	6.94562 9756	HiAiCNA	0
ENSG00000257745	UGT2B10	0.4846	1.0821	-0.4792	-1.1446	6.94562 9756	LoSCINS	0
ENSG00000156136	DCK	0.4846	-1.0645	1.2938	-0.0047	6.94562 9756	HiAiCNA	0
ENSG00000167778	SPRYD3	0.4846	1.2216	-1.0832	-0.5465	6.94562 9756	LoSCINS	0
ENSG00000110651	CD81	0.4846	1.1931	-0.4441	-1.3778	6.94562 9756	LoSCINS	0
ENSG00000125354	06-Sep	0.4845	1.0863	-1.3084	-0.0115	6.94562 9756	LoSCINS	0
ENSG00000021574	SPAST	0.4843	-1.1059	1.3715	-0.0427	6.94562 9756	HiAiCNA	0
ENSG00000169291	SHE	0.4841	1.2785	-0.8273	-0.9933	6.94562 9756	LoSCINS	0
ENSG00000131446	MGAT1	0.4841	1.1773	-1.2329	-0.2669	6.94562 9756	LoSCINS	0
ENSG00000171236	LRG1	0.4840	1.1070	-0.5549	-1.0821	6.94562 9756	LoSCINS	0
ENSG00000075415	SLC25A3	0.4840	-1.1805	1.1655	0.3649	6.94562 9756	HiAiCNA	0
ENSG00000079134	THOC1	0.4840	-1.1831	1.1343	0.4121	6.94562 9756	HiAiCNA	0
ENSG00000134352	IL6ST	0.4839	0.9803	-0.0263	-1.5977	6.94562 9756	LoSCINS	0
ENSG00000102287	GABRE	0.4838	1.1920	-1.0489	-0.5443	6.94562 9756	LoSCINS	0
ENSG00000245750	LOC145837	0.4838	1.0851	-0.4127	-1.2410	6.94562 9756	LoSCINS	0
ENSG00000127083	OMD	0.4837	1.1070	-0.4073	-1.2850	6.94562 9756	LoSCINS	0
ENSG00000196935	SRGAP1	0.4837	1.1654	-1.1313	-0.3868	6.94562 9756	LoSCINS	0
ENSG00000129514	FOXA1	0.4836	1.0954	-0.6914	-0.8749	6.94562 9756	LoSCINS	0
ENSG00000182934	SRPR	0.4836	1.2135	-1.0492	-0.5798	6.94562 9756	LoSCINS	0
ENSG00000197859	ADAMTSL2	0.4835	1.1376	-1.0942	-0.3916	6.94562 9756	LoSCINS	0
ENSG00000197345	MRPL21	0.4834	-0.5919	1.4051	-0.9455	6.94562 9756	HiAiCNA	0
ENSG00000149809	TM7SF2	0.4834	1.1256	-0.8571	-0.6975	6.94562 9756	LoSCINS	0
ENSG00000119335	SET	0.4834	-1.1164	1.2614	0.1263	6.94562 9756	HiAiCNA	0
ENSG00000116731	PRDM2	0.4833	1.3996	-1.3083	-0.5337	6.94562 9756	LoSCINS	0
ENSG00000164182	NDUFAF2	0.4833	0.8055	0.3225	-1.7859	6.94562 9756	LoSCINS	0
ENSG00000168918	INPP5D	0.4833	1.2243	-0.8972	-0.8068	6.94562 9756	LoSCINS	0
ENSG00000182379	NXPH4	0.4832	1.2552	-1.3873	-0.1844	6.94562 9756	LoSCINS	0
ENSG00000142330	CAPN10	0.4831	-1.6484	1.1536	1.1611	6.94562 9756	HiCnLOH	0
ENSG00000156427	FGF18	0.4831	1.3764	-0.8628	-1.1077	6.94562 9756	LoSCINS	0
ENSG00000185068	GTF2H5	0.4830	-1.2075	0.9117	0.7590	6.94562 9756	HiAiCNA	0
ENSG00000176208	ATAD5	0.4830	-1.3934	0.8842	1.1065	6.94562 9756	HiCnLOH	0
ENSG00000169184	MN1	0.4828	1.1618	-1.0301	-0.5200	6.94562	LoSCINS	0

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ENSG00000163513	TGFBR2	0.4828	1.1773	-0.8884	-0.7407	6.94562	LoSCINS	0
ENSG00000100650	SRSF5	0.4827	1.2452	-0.9197	-0.8107	6.94562	LoSCINS	0
ENSG00000175634	RPS6KB2	0.4826	1.1996	-1.1289	-0.4470	6.94562	LoSCINS	0
ENSG00000140287	HDC	0.4825	1.1524	-0.5689	-1.1384	6.94562	LoSCINS	0
ENSG00000183549	ACSM5	0.4824	1.4100	-1.2165	-0.6773	6.94562	LoSCINS	0
ENSG00000133316	WDR74	0.4823	-1.2590	0.8411	0.9419	6.94562	HiCnLOH	0
ENSG00000104825	NFKBIB	0.4823	-1.2826	1.2707	0.3904	6.94562	HiAiCNA	0
ENSG00000229891	LOC100134361	0.4821	-0.9774	1.2526	-0.0933	6.94562	HiAiCNA	0
ENSG00000071553	ATP6AP1	0.4820	1.0976	-1.1988	-0.1808	6.94562	LoSCINS	0
ENSG00000171522	PTGER4	0.4819	1.1826	-0.5751	-1.1802	6.94562	LoSCINS	0
ENSG00000078043	PIAS2	0.4819	-1.2412	0.3218	1.6262	6.94562	HiCnLOH	0
ENSG00000162188	GNG3	0.4819	-0.9991	-0.2987	2.0759	6.94562	HiCnLOH	0
ENSG00000101189	MRGBP	0.4819	-1.1925	0.9648	0.6609	6.94562	HiAiCNA	0
ENSG00000171119	NRTN	0.4818	-1.1449	0.4645	1.2694	6.94562	HiCnLOH	0
ENSG00000066379	ZNRD1	0.4818	-1.1680	1.2591	0.2154	6.94562	HiAiCNA	0
ENSG00000075618	FSCN1	0.4815	-0.7367	-0.2949	1.6333	6.94562	HiCnLOH	0
ENSG00000112936	C7	0.4815	1.1757	-0.6772	-1.0283	6.94562	LoSCINS	1
ENSG00000124107	SLPI	0.4815	0.9787	-1.1614	-0.0343	6.94562	LoSCINS	0
ENSG00000129003	VPS13C	0.4814	0.9666	0.0677	-1.7042	6.94562	LoSCINS	0
ENSG00000116641	DOCK7	0.4814	-1.1851	1.0520	0.5286	6.94562	HiAiCNA	0
ENSG00000077943	ITGA8	0.4813	1.1919	-0.1984	-1.7137	6.94562	LoSCINS	0
ENSG00000013275	PSMC4	0.4813	-1.0986	0.3291	1.3785	6.94562	HiCnLOH	0
ENSG00000134717	BTF3L4	0.4813	-1.1808	0.5809	1.1692	6.94562	HiCnLOH	0
ENSG00000266964	FXYP1	0.4812	1.2842	-1.2128	-0.4728	6.94562	LoSCINS	0
ENSG00000079689	SCGN	0.4811	1.2420	-1.0967	-0.5620	6.94562	LoSCINS	0
ENSG00000119969	HELLS	0.4810	-1.3083	1.0975	0.6715	6.94562	HiAiCNA	0
ENSG00000160801	PTH1R	0.4807	1.1015	-1.1526	-0.2510	6.94562	LoSCINS	0
ENSG00000154309	DISP1	0.4806	0.7244	-1.4484	0.7841	6.94562	HiCnLOH	0
ENSG00000121680	PEX16	0.4805	1.1492	-0.4279	-1.3271	6.94562	LoSCINS	0
ENSG00000148600	CDHR1	0.4805	-1.2070	0.0842	1.8960	6.94562	HiCnLOH	0
ENSG00000143751	SDE2	0.4805	-1.2684	0.8739	0.9123	6.94562	HiCnLOH	0
ENSG00000163125	RPRD2	0.4804	-1.0230	0.0114	1.6894	6.94562	HiCnLOH	0
ENSG00000159479	MED8	0.4804	-1.1765	0.7225	0.9674	6.94562	HiCnLOH	0
ENSG00000111237	VPS29	0.4804	-0.9220	1.4551	-0.4641	6.94562	HiAiCNA	0
ENSG00000068654	POLR1A	0.4803	-1.5324	1.1576	0.9623	6.94562	HiAiCNA	0
ENSG00000167088	SNRPD1	0.4802	-1.2558	1.1068	0.5710	6.94562	HiAiCNA	0
ENSG00000184304	PRKD1	0.4800	1.1827	-1.1983	-0.3234	6.94562	LoSCINS	0

ENSG00000090372	STRN4	0.4799	0.0754	-1.4045	1.8054	6.94562 9756	HiCnLOH	0
ENSG00000099139	PCSK5	0.4797	1.1696	-0.7694	-0.8914	6.94562 9756	LoSCINS	0
ENSG00000183020	AP2A2	0.4797	1.1390	-1.4212	0.0559	6.94562 9756	LoSCINS	0
ENSG00000106443	PHF14	0.4795	-1.1887	0.5858	1.1756	6.94562 9756	HiCnLOH	0
ENSG00000182851	GPIHBP1	0.4795	1.2101	-0.8958	-0.7852	6.94562 9756	LoSCINS	0
ENSG00000244687	UBE2V1	0.4794	-1.2448	1.3684	0.1931	6.94562 9756	HiAiCNA	0
ENSG00000187840	EIF4EBP1	0.4793	-1.1275	0.3823	1.3535	6.94562 9756	HiCnLOH	0
ENSG00000082458	DLG3	0.4793	1.2042	-1.2303	-0.3154	6.94562 9756	LoSCINS	0
ENSG00000080839	RBL1	0.4792	-1.2952	0.9456	0.8585	6.94562 9756	HiAiCNA	1
ENSG00000138294	MSMB	0.4792	1.0638	-0.4045	-1.2168	6.94562 9756	LoSCINS	0
ENSG00000132170	PPARG	0.4792	1.1357	-0.8524	-0.7208	6.94562 9756	LoSCINS	0
ENSG00000178409	BEND3	0.4791	-1.2325	1.0018	0.6766	6.94562 9756	HiAiCNA	0
ENSG00000141425	RPRD1A	0.4791	-1.1509	1.1153	0.3847	6.94562 9756	HiAiCNA	0
ENSG00000161395	PGAP3	0.4790	1.2228	-0.8972	-0.8043	6.94562 9756	LoSCINS	0
ENSG00000196812	ZSCAN16	0.4789	-1.1907	0.7440	0.9614	6.94562 9756	HiCnLOH	0
ENSG00000163145	C1QTNF7	0.4789	1.3867	-0.8421	-1.1534	6.94562 9756	LoSCINS	0
ENSG00000100577	GSTZ1	0.4789	1.1919	-0.8459	-0.8233	6.94562 9756	LoSCINS	0
ENSG00000110492	MDK	0.4787	-0.8759	-0.1783	1.7049	6.94562 9756	HiCnLOH	0
ENSG00000005469	CROT	0.4787	1.1372	-0.8752	-0.6918	6.94562 9756	LoSCINS	0
ENSG00000105894	PTN	0.4786	1.2046	-1.1324	-0.4506	6.94562 9756	LoSCINS	0
ENSG00000111639	MRPL51	0.4786	-1.1371	1.0923	0.3933	6.94562 9756	HiAiCNA	0
ENSG00000124313	IQSEC2	0.4786	0.9612	-1.5407	0.5165	6.94562 9756	LoSCINS	0
ENSG00000100280	AP1B1	0.4786	1.2007	-1.0807	-0.5153	6.94562 9756	LoSCINS	0
ENSG00000102078	SLC25A14	0.4785	1.1393	-1.3037	-0.1063	6.94562 9756	LoSCINS	0
ENSG00000122188	LAX1	0.4783	0.9434	-0.0502	-1.5033	6.94562 9756	LoSCINS	0
ENSG00000129255	MPDU1	0.4780	0.4462	0.7610	-1.7901	6.94562 9756	HiAiCNA	0
ENSG00000170727	BOP1	0.4779	-1.1642	1.1830	0.3137	6.94562 9756	HiAiCNA	0
ENSG00000136628	EPRS	0.4778	-1.2028	0.8242	0.8714	6.94562 9756	HiCnLOH	0
ENSG00000162604	TM2D1	0.4777	-0.3927	1.3570	-1.2114	6.94562 9756	HiAiCNA	0
ENSG00000116918	TSNAX	0.4775	-1.1646	1.0381	0.5137	6.94562 9756	HiAiCNA	0
ENSG00000197622	CDC42SE1	0.4773	-0.7993	-0.2823	1.7203	6.94562 9756	HiCnLOH	0
ENSG00000171951	SCG2	0.4771	1.1772	-0.8151	-0.8413	6.94562 9756	LoSCINS	0
ENSG00000140937	CDH11	0.4771	1.1473	-0.7729	-0.8495	6.94562 9756	LoSCINS	0
ENSG00000163608	C3orf17	0.4770	-1.4478	1.3143	0.6058	6.94562 9756	HiAiCNA	0
ENSG00000147119	CHST7	0.4770	1.1047	-0.2537	-1.4923	6.94562 9756	LoSCINS	0
ENSG00000204574	ABCF1	0.4768	-1.2421	0.7618	1.0227	6.94562 9756	HiCnLOH	0
ENSG00000177030	DEAF1	0.4768	1.1799	-0.9699	-0.6328	6.94562 9756	LoSCINS	0
ENSG00000106689	LHX2	0.4767	-0.3762	-0.7476	1.6549	6.94562	HiCnLOH	0



						9756		
ENSG00000134207	SYT6	0.4767	1.3383	-0.5551	-1.4673	6.94562	LoSCINS	0
ENSG00000108700	CCL8	0.4767	-1.0239	1.1045	0.1878	6.94562	HiAiCNA	0
ENSG00000179954	SSC5D	0.4765	1.1208	-0.6609	-0.9592	6.94562	LoSCINS	0
ENSG00000135932	CAB39	0.4765	1.1294	-0.3106	-1.4552	6.94562	LoSCINS	0
ENSG00000198087	CD2AP	0.4765	-1.0373	1.3632	-0.1456	6.94562	HiAiCNA	0
ENSG00000091262	ABCC6	0.4764	1.2340	-1.0470	-0.6170	6.94562	LoSCINS	0
ENSG00000124074	ENKD1	0.4764	1.1771	-1.1316	-0.4059	6.94562	LoSCINS	0
ENSG00000069966	GNB5	0.4764	1.1475	-0.1653	-1.6853	6.94562	LoSCINS	0
ENSG00000105483	CARD8	0.4763	1.1769	-0.4906	-1.2869	6.94562	LoSCINS	0
ENSG00000119929	CUTC	0.4760	-0.8837	1.3967	-0.4477	6.94562	HiAiCNA	0
ENSG00000111615	KRR1	0.4760	-0.8511	1.5465	-0.7080	6.94562	HiAiCNA	0
ENSG00000051180	RAD51	0.4760	-1.3210	0.9419	0.9066	6.94562	HiAiCNA	0
ENSG00000081791	KIAA0141	0.4760	1.2840	-0.9214	-0.8730	6.94562	LoSCINS	0
ENSG00000139329	LUM	0.4759	0.9242	-0.0187	-1.5146	6.94562	LoSCINS	0
ENSG00000108406	DHX40	0.4759	-1.2387	1.0363	0.6396	6.94562	HiAiCNA	0
ENSG00000120533	ENY2	0.4758	-1.1325	1.1059	0.3669	6.94562	HiAiCNA	0
ENSG00000102900	NUP93	0.4757	-1.2097	0.9543	0.7041	6.94562	HiAiCNA	0
ENSG00000171766	GATM	0.4757	1.0262	-0.2375	-1.3836	6.94562	LoSCINS	0
ENSG00000110799	VWF	0.4756	1.1473	-0.7029	-0.9456	6.94562	LoSCINS	0
ENSG00000104218	CSPP1	0.4756	-1.2018	1.3172	0.1917	6.94562	HiAiCNA	0
ENSG00000197429	IPP	0.4755	1.1188	-1.4153	0.0813	6.94562	LoSCINS	0
ENSG00000104312	RIPK2	0.4755	-1.1636	0.9769	0.5961	6.94562	HiAiCNA	0
ENSG00000130592	LSP1	0.4755	1.2279	-0.7517	-1.0128	6.94562	LoSCINS	0
ENSG00000243480	AMY2A	0.4754	1.4243	-0.3104	-1.9470	6.94562	LoSCINS	0
ENSG00000175130	MARCKSL1	0.4753	-0.6704	-0.3993	1.6664	6.94562	HiCnLOH	0
ENSG00000171863	RPS7	0.4753	-1.0538	1.1715	0.1456	6.94562	HiAiCNA	0
ENSG00000164638	SLC29A4	0.4753	-0.6355	-0.4212	1.6384	6.94562	HiCnLOH	0
ENSG00000143190	POU2F1	0.4752	-1.1861	0.2442	1.6411	6.94562	HiCnLOH	0
ENSG00000100138	NHP2L1	0.4752	-0.7602	1.4189	-0.6840	6.94562	HiAiCNA	0
ENSG00000146410	MTFR2	0.4751	-1.2194	0.8879	0.8114	6.94562	HiAiCNA	0
ENSG00000154269	ENPP3	0.4750	1.0834	-1.0129	-0.4129	6.94562	LoSCINS	1
ENSG00000080608	KIAA0020	0.4749	-1.1181	0.5380	1.1238	6.94562	HiCnLOH	0
ENSG00000182472	CAPN12	0.4748	-1.0023	1.2971	-0.1130	6.94562	HiAiCNA	0
ENSG00000204257	HLA-DMA	0.4748	1.1330	-0.9053	-0.6436	6.94562	LoSCINS	0
ENSG00000117614	SYF2	0.4747	1.2793	-1.0728	-0.6570	6.94562	LoSCINS	0
ENSG00000138107	ACTR1A	0.4747	0.9835	-1.3864	0.2672	6.94562	LoSCINS	0
ENSG00000118454	ANKRD13C	0.4746	-1.0296	1.5333	-0.3923	6.94562	HiAiCNA	0

ENSG00000010292	NCAPD2	0.4746	-1.1084	0.5310	1.1172	6.94562 9756	HiCnLOH	0
ENSG000000166268	MYRFL	0.4746	1.1473	-0.4421	-1.3043	6.94562 9756	LoSCINS	0
ENSG000000127364	TAS2R4	0.4744	-1.1451	-0.2370	2.2344	6.94562 9756	HiCnLOH	0
ENSG000000173376	NDNF	0.4743	1.0695	-1.1855	-0.1523	6.94562 9756	LoSCINS	0
ENSG000000162407	PPAP2B	0.4743	1.1632	-0.8464	-0.7748	6.94562 9756	LoSCINS	0
ENSG000000124134	KCNS1	0.4743	0.3586	-1.2633	1.1395	6.94562 9756	HiCnLOH	0
ENSG000000157978	LDLRAP1	0.4742	1.2000	-1.1378	-0.4356	6.94562 9756	LoSCINS	0
ENSG000000149534	MS4A2	0.4740	1.1295	-0.3484	-1.4034	6.94562 9756	LoSCINS	0
ENSG000000110315	RNF141	0.4740	1.1900	-0.8839	-0.7680	6.94562 9756	LoSCINS	0
ENSG000000137501	SYTL2	0.4739	0.9353	0.1525	-1.7685	6.94562 9756	LoSCINS	0
ENSG000000102409	BEX4	0.4739	1.1297	-0.8906	-0.6583	6.94562 9756	LoSCINS	0
ENSG000000135334	AKIRIN2	0.4739	-1.2246	0.8922	0.8142	6.94562 9756	HiAiCNA	0
ENSG000000148948	LRRC4C	0.4738	1.2173	-0.9347	-0.7437	6.94562 9756	LoSCINS	0
ENSG000000116521	SCAMP3	0.4737	-0.8248	-0.2516	1.7206	6.94562 9756	HiCnLOH	0
ENSG000000255112	CHMP1B	0.4736	-1.1747	0.9314	0.6773	6.94562 9756	HiAiCNA	0
ENSG000000144048	DUSP11	0.4735	-1.2177	1.3204	0.2140	6.94562 9756	HiAiCNA	0
ENSG000000138336	TET1	0.4735	-1.3708	0.6866	1.3406	6.94562 9756	HiCnLOH	0
ENSG000000163686	ABHD6	0.4734	1.1520	-0.4263	-1.3338	6.94562 9756	LoSCINS	0
ENSG000000122406	SNORD21	0.4732	-0.8592	1.5249	-0.6648	6.94562 9756	HiAiCNA	0
ENSG000000177200	CHD9	0.4732	1.1634	-0.5487	-1.1845	6.94562 9756	LoSCINS	0
ENSG000000164096	C4orf3	0.4730	1.1729	-0.8472	-0.7898	6.94562 9756	LoSCINS	0
ENSG000000183087	GAS6	0.4729	0.9921	-1.1926	-0.0136	6.94562 9756	LoSCINS	0
ENSG000000048707	VPS13D	0.4728	1.1651	-1.2608	-0.2081	6.94562 9756	LoSCINS	0
ENSG000000132294	EFR3A	0.4728	0.5168	0.6524	-1.7584	6.94562 9756	HiAiCNA	0
ENSG000000156471	PTDSS1	0.4728	-1.1395	1.0895	0.4011	6.94562 9756	HiAiCNA	0
ENSG000000181035	SLC25A42	0.4727	1.1945	-0.9038	-0.7481	6.94562 9756	LoSCINS	0
ENSG000000133110	POSTN	0.4726	0.6797	0.3547	-1.6205	6.94562 9756	LoSCINS	0
ENSG000000127947	PTPN12	0.4726	-1.2000	0.9213	0.7333	6.94562 9756	HiAiCNA	0
ENSG000000169919	GUSB	0.4725	1.1151	-0.7900	-0.7722	6.94562 9756	LoSCINS	0
ENSG000000171467	ZNF318	0.4724	-1.2402	0.9107	0.8147	6.94562 9756	HiAiCNA	0
ENSG000000119801	YPEL5	0.4723	1.1144	-0.3009	-1.4437	6.94562 9756	LoSCINS	0
ENSG000000106682	EIF4H	0.4723	-1.2116	0.9778	0.6748	6.94562 9756	HiAiCNA	0
ENSG000000067225	PKM	0.4718	-0.5326	-0.6024	1.7160	6.94562 9756	HiCnLOH	0
ENSG000000060971	ACAA1	0.4718	1.1516	-0.6324	-1.0499	6.94562 9756	LoSCINS	0
ENSG000000164088	PPM1M	0.4717	1.2221	-0.7063	-1.0657	6.94562 9756	LoSCINS	0
ENSG000000180370	PAK2	0.4716	-0.6224	1.4359	-0.9370	6.94562 9756	HiAiCNA	0
ENSG000000004809	SLC22A16	0.4714	-0.5401	1.3908	-1.0123	6.94562 9756	HiAiCNA	0
ENSG000000163527	STT3B	0.4713	-0.5887	1.3783	-0.9139	6.94562	HiAiCNA	0

						9756		
ENSG00000144642	RBMS3	0.4713	1.2864	-0.7665	-1.0901	6.94562	LoSCINS	0
						9756		
ENSG00000161970	RPL26	0.4713	-0.9402	1.2838	-0.1982	6.94562	HiAiCNA	0
						9756		
ENSG00000125835	SNRPB	0.4712	-1.1056	0.4334	1.2468	6.94562	HiCnLOH	0
						9756		
ENSG00000143196	DPT	0.4712	1.0012	-0.2596	-1.3118	6.94562	LoSCINS	0
						9756		
ENSG00000148143	ZNF462	0.4712	-0.9557	0.1202	1.4275	6.94562	HiCnLOH	0
						9756		
ENSG00000143374	TARS2	0.4712	-1.0955	0.0951	1.6950	6.94562	HiCnLOH	0
						9756		
ENSG00000146858	ZC3HAV1L	0.4711	-1.3421	0.4363	1.6369	6.94562	HiCnLOH	0
						9756		
ENSG00000167183	PRR15L	0.4709	1.0894	-0.5695	-1.0326	6.94562	LoSCINS	0
						9756		
ENSG00000165621	OXGR1	0.4706	-0.9998	1.3812	-0.2328	6.94562	HiAiCNA	0
						9756		
ENSG00000149196	C11orf73	0.4706	-1.0182	1.3043	-0.0965	6.94562	HiAiCNA	0
						9756		
ENSG00000179152	TCAIM	0.4706	-1.2251	1.0120	0.6504	6.94562	HiAiCNA	0
						9756		
ENSG00000113108	APBB3	0.4704	1.1707	-0.9993	-0.5770	6.94562	LoSCINS	0
						9756		
ENSG00000113716	HMGXB3	0.4704	1.2476	-0.9307	-0.7996	6.94562	LoSCINS	0
						9756		
ENSG00000211448	DIO2	0.4703	0.9822	-0.2036	-1.3570	6.94562	LoSCINS	0
						9756		
ENSG00000179588	ZFPM1	0.4702	0.7617	-1.4205	0.6837	6.94562	LoSCINS	0
						9756		
ENSG00000110700	RPS13	0.4701	-0.5911	1.3639	-0.8903	6.94562	HiAiCNA	0
						9756		
ENSG00000074201	CLNS1A	0.4701	-1.0680	1.1619	0.1823	6.94562	HiAiCNA	0
						9756		
ENSG00000082898	XPO1	0.4700	-1.2214	0.6824	1.0973	6.94562	HiCnLOH	0
						9756		
ENSG00000181788	SIAH2	0.4699	-1.2074	0.9328	0.7297	6.94562	HiAiCNA	0
						9756		
ENSG00000152558	TMEM123	0.4699	-1.0636	1.1295	0.2196	6.94562	HiAiCNA	0
						9756		
ENSG00000197766	CFD	0.4698	1.0726	-0.5425	-1.0418	6.94562	LoSCINS	0
						9756		
ENSG00000071282	LMCD1	0.4698	1.0936	-1.0854	-0.3303	6.94562	LoSCINS	0
						9756		
ENSG00000156469	MTERFD1	0.4697	-1.1859	0.8340	0.8298	6.94562	HiAiCNA	0
						9756		
ENSG00000162623	TYW3	0.4696	-1.0494	-0.3200	2.1890	6.94562	HiCnLOH	0
						9756		
ENSG00000204262	COL5A2	0.4696	1.0027	-0.2608	-1.3126	6.94562	LoSCINS	0
						9756		
ENSG00000093072	CECR1	0.4695	1.0567	-0.3978	-1.2142	6.94562	LoSCINS	0
						9756		
ENSG00000179715	PCED1B	0.4695	1.0737	-0.4495	-1.1713	6.94562	LoSCINS	0
						9756		
ENSG00000166797	FAM96A	0.4694	-1.0476	1.2381	0.0436	6.94562	HiAiCNA	0
						9756		
ENSG00000137309	HMGA1	0.4694	-1.1063	0.9669	0.5144	6.94562	HiAiCNA	0
						9756		
ENSG00000008838	MED24	0.4694	-0.4311	-0.7749	1.7840	6.94562	HiCnLOH	0
						9756		
ENSG00000056736	IL17RB	0.4693	-1.1100	0.9416	0.5552	6.94562	HiAiCNA	0
						9756		
ENSG00000134046	MBD2	0.4692	-1.1798	0.5456	1.2162	6.94562	HiCnLOH	0
						9756		
ENSG00000146063	TRIM41	0.4692	1.2544	-1.0871	-0.5959	6.94562	LoSCINS	0
						9756		
ENSG00000105193	RPS16	0.4692	-1.1890	1.1576	0.3899	6.94562	HiAiCNA	0
						9756		
ENSG00000131931	THAP1	0.4691	-1.0749	1.2447	0.0802	6.94562	HiAiCNA	0
						9756		
ENSG00000213015	ZNF580	0.4690	1.0827	-1.2625	-0.0686	6.94562	LoSCINS	0
						9756		
ENSG00000130699	TAF4	0.4690	-1.1878	1.0334	0.5587	6.94562	HiAiCNA	0
						9756		

ENSG0000002822	MAD1L1	0.4689	-0.5838	-0.8899	2.1966	6.94562 9756	HiCnLOH	0
ENSG00000181722	ZBTB20	0.4688	1.1226	-0.8867	-0.6518	6.94562 9756	LoSCINS	0
ENSG00000172172	MRPL13	0.4687	-0.7960	1.3394	-0.5150	6.94562 9756	HiAiCNA	0
ENSG00000111684	LPCAT3	0.4687	1.1408	-0.7128	-0.9213	6.94562 9756	LoSCINS	0
ENSG00000155330	C16orf87	0.4687	-0.8690	1.4091	-0.4892	6.94562 9756	HiAiCNA	0
ENSG00000154198	CYP4Z2P	0.4687	1.0901	-0.6622	-0.9063	6.94562 9756	LoSCINS	0
ENSG00000165548	TMEM63C	0.4685	1.2772	-0.9216	-0.8614	6.94562 9756	LoSCINS	0
ENSG00000185252	ZNF74	0.4685	-0.7576	-0.3656	1.7653	6.94562 9756	HiCnLOH	0
ENSG00000111641	NOP2	0.4684	-1.1594	0.8652	0.7426	6.94562 9756	HiAiCNA	0
ENSG00000129347	KRI1	0.4684	-0.9872	0.0116	1.6294	6.94562 9756	HiCnLOH	0
ENSG00000183269	OR52E8	0.4684	1.5209	-0.3740	-2.0207	6.94562 9756	LoSCINS	0
ENSG00000154920	EME1	0.4683	-1.3227	0.5912	1.3916	6.94562 9756	HiCnLOH	0
ENSG00000003056	M6PR	0.4683	-0.5983	1.3515	-0.8612	6.94562 9756	HiAiCNA	0
ENSG00000183496	MEX3B	0.4682	-0.8363	-0.1735	1.6323	6.94562 9756	HiCnLOH	0
ENSG00000162650	ATXN7L2	0.4681	-0.4686	-0.7149	1.7639	6.94562 9756	HiCnLOH	0
ENSG00000172345	STARD5	0.4680	1.0500	-0.1658	-1.5221	6.94562 9756	LoSCINS	0
ENSG00000213741	RPS29	0.4678	1.0811	-0.4409	-1.1955	6.94562 9756	LoSCINS	0
ENSG00000207424	SNORD30	0.4675	-1.2407	1.3144	0.2605	6.94562 9756	HiAiCNA	0
ENSG00000175216	CKAP5	0.4672	-1.1769	0.8983	0.7262	6.94562 9756	HiAiCNA	0
ENSG00000117305	HMGCL	0.4671	1.2327	-1.1495	-0.4739	6.94562 9756	LoSCINS	0
ENSG00000197448	GSTK1	0.4670	1.0934	-1.1371	-0.2588	6.94562 9756	LoSCINS	0
ENSG0000028839	TBPL1	0.4669	-0.9372	1.3218	-0.2555	8.35380 6505	HiAiCNA	0
ENSG00000176912	C18orf56	0.4668	-1.0659	1.0488	0.3345	8.35380 6505	HiAiCNA	0
ENSG00000172247	C1QTNF4	0.4666	1.1299	-0.4864	-1.2144	8.35380 6505	LoSCINS	0
ENSG00000115459	ELMOD3	0.4665	1.1968	-1.0001	-0.6195	8.35380 6505	LoSCINS	0
ENSG00000011260	UTP18	0.4664	-1.2269	0.9653	0.7175	8.35380 6505	HiAiCNA	0
ENSG00000109255	NMU	0.4663	-1.0294	0.3649	1.2139	8.35380 6505	HiCnLOH	0
ENSG00000156261	CCT8	0.4663	-1.1688	1.0145	0.5531	8.35380 6505	HiAiCNA	0
ENSG00000186160	CYP4Z1	0.4662	1.0533	-0.9449	-0.4562	8.35380 6505	LoSCINS	0
ENSG00000130300	PLVAP	0.4661	1.1445	-1.1215	-0.3654	8.35380 6505	LoSCINS	0
ENSG00000104472	CHRAC1	0.4658	-1.1852	0.7804	0.9023	8.35380 6505	HiCnLOH	0
ENSG00000099337	KCNK6	0.4657	1.0594	-0.3558	-1.2765	8.35380 6505	LoSCINS	0
ENSG00000100448	CTSG	0.4657	0.9914	-0.2683	-1.2833	8.35380 6505	LoSCINS	0
ENSG00000085840	ORC1	0.4657	-1.1892	0.4284	1.3929	8.35380 6505	HiCnLOH	0
ENSG00000139737	SLAIN1	0.4657	-1.0369	1.3347	-0.1071	8.35380 6505	HiAiCNA	0
ENSG00000169976	SF3B5	0.4655	-1.1471	1.1014	0.3974	8.35380 6505	HiAiCNA	0
ENSG00000161714	PLCD3	0.4655	-0.4640	-0.7943	1.8655	8.35380 6505	HiCnLOH	0
ENSG00000148331	ASB6	0.4654	-0.1041	-1.0572	1.6272	8.35380	HiCnLOH	0

ENSG00000148498	PARD3	0.4654	-1.1045	-0.0550	1.9165	8.35380 6505	HiCnLOH	0
ENSG00000229453	SPINK8	0.4654	1.0096	-0.3920	-1.1436	8.35380 6505	LoSCINS	0
ENSG00000090776	EFNB1	0.4654	0.4831	-1.3966	1.1152	8.35380 6505	HiCnLOH	0
ENSG00000132819	RBM38	0.4653	-1.1142	0.6016	1.0298	8.35380 6505	HiCnLOH	0
ENSG00000163751	CPA3	0.4653	0.9988	-0.2659	-1.2989	8.35380 6505	LoSCINS	0
ENSG00000202477	SNORD25	0.4653	-1.0692	1.4164	-0.1656	8.35380 6505	HiAiCNA	0
ENSG00000162639	HENMT1	0.4652	-1.1390	0.7216	0.9061	8.35380 6505	HiCnLOH	0
ENSG00000198176	TFDP1	0.4652	-1.1181	0.6620	0.9533	8.35380 6505	HiCnLOH	0
ENSG00000139629	GALNT6	0.4652	1.0861	-1.1192	-0.2713	8.35380 6505	LoSCINS	0
ENSG00000092208	GEMIN2	0.4651	-1.2131	0.9916	0.6584	8.35380 6505	HiAiCNA	0
ENSG00000118707	TGIF2	0.4651	-1.0527	0.3134	1.3236	8.35380 6505	HiCnLOH	0
ENSG00000131844	MCCC2	0.4650	1.1403	-0.6651	-0.9860	8.35380 6505	LoSCINS	0
ENSG00000188739	RBM34	0.4650	-1.1410	0.9144	0.6443	8.35380 6505	HiAiCNA	0
ENSG00000110172	CHORDC1	0.4650	-1.0270	1.2448	0.0000	8.35380 6505	HiAiCNA	0
ENSG00000123989	CHPF	0.4650	1.1225	-0.6970	-0.9124	8.35380 6505	LoSCINS	0
ENSG00000071564	TCF3	0.4649	-1.0522	0.2518	1.4074	8.35380 6505	HiCnLOH	0
ENSG00000126003	PLAGL2	0.4648	-1.1384	0.5300	1.1686	8.35380 6505	HiCnLOH	0
ENSG00000151576	QTRTD1	0.4645	-0.9808	-0.0412	1.6914	8.35380 6505	HiCnLOH	0
ENSG00000137976	DNASE2B	0.4643	1.1857	-0.8205	-0.8480	8.35380 6505	LoSCINS	0
ENSG00000164124	TMEM144	0.4643	1.1585	-0.8038	-0.8256	8.35380 6505	LoSCINS	0
ENSG00000116688	MFN2	0.4642	1.1332	-1.1507	-0.3064	8.35380 6505	LoSCINS	0
ENSG00000175166	PSMD2	0.4642	-0.5534	-0.5723	1.7093	8.35380 6505	HiCnLOH	0
ENSG00000168993	CPLX1	0.4641	0.9861	-1.3358	0.1933	8.35380 6505	LoSCINS	0
ENSG00000214274	ANG	0.4640	1.0802	-0.4942	-1.1208	8.35380 6505	LoSCINS	0
ENSG00000143178	TBX19	0.4639	-1.1959	1.1100	0.4669	8.35380 6505	HiAiCNA	0
ENSG00000154096	THY1	0.4637	1.0786	-1.0083	-0.4113	8.35380 6505	LoSCINS	0
ENSG00000189227	C15orf61	0.4636	-1.1291	0.4540	1.2577	8.35380 6505	HiCnLOH	0
ENSG00000167291	TBC1D16	0.4636	1.1031	-0.9972	-0.4674	8.35380 6505	LoSCINS	0
ENSG00000130935	NOL11	0.4636	-1.1251	1.1587	0.2821	8.35380 6505	HiAiCNA	0
ENSG00000060688	SNRNP40	0.4634	-1.2008	0.8723	0.8020	8.35380 6505	HiAiCNA	0
ENSG00000076650	GPATCH1	0.4634	-0.9755	-0.0340	1.6726	8.35380 6505	HiCnLOH	0
ENSG00000135185	TMEM243	0.4633	0.2391	0.9022	-1.6389	8.35380 6505	HiAiCNA	0
ENSG00000104332	SFRP1	0.4629	-0.9731	1.0636	0.1594	8.35380 6505	HiAiCNA	0
ENSG00000204463	BAG6	0.4629	0.1338	-1.2212	1.4562	8.35380 6505	HiCnLOH	0
ENSG00000196821	C6orf106	0.4629	-0.3201	1.4201	-1.4191	8.35380 6505	HiAiCNA	0
ENSG00000121775	TMEM39B	0.4627	-0.7640	-0.3060	1.6941	8.35380 6505	HiCnLOH	0
ENSG00000101439	CST3	0.4627	1.0899	-1.0132	-0.4234	8.35380 6505	LoSCINS	0

ENSG00000114686	MRPL3	0.4626	-1.1576	0.6115	1.0885	8.35380 6505	HiCnLOH	0
ENSG00000173163	COMMD1	0.4626	1.1888	-1.0017	-0.6040	8.35380 6505	LoSCINS	0
ENSG00000197467	COL13A1	0.4625	1.1973	-0.9605	-0.6748	8.35380 6505	LoSCINS	0
ENSG00000167232	ZNF91	0.4623	0.8640	-1.2419	0.2677	8.35380 6505	LoSCINS	0
ENSG00000152582	SPEF2	0.4623	-1.0698	-0.0976	1.9172	8.35380 6505	HiCnLOH	0
ENSG00000133773	CCDC59	0.4621	-1.1650	1.0125	0.5495	8.35380 6505	HiAiCNA	0
ENSG00000085978	ATG16L1	0.4620	1.1661	-0.6830	-1.0042	8.35380 6505	LoSCINS	0
ENSG00000213983	AP1G2	0.4620	1.1406	-0.9825	-0.5501	8.35380 6505	LoSCINS	0
ENSG00000162782	TDRD5	0.4620	-1.1630	0.7595	0.8941	8.35380 6505	HiCnLOH	0
ENSG00000043093	DCUN1D1	0.4620	-1.0228	1.2782	-0.0529	8.35380 6505	HiAiCNA	0
ENSG00000205502	C2CD4B	0.4620	1.0967	-0.7472	-0.8004	8.35380 6505	LoSCINS	0
ENSG00000197343	ZNF655	0.4620	-0.7794	1.4953	-0.7571	8.35380 6505	HiAiCNA	0
ENSG00000167522	ANKRD11	0.4619	0.2524	-1.2317	1.2730	8.35380 6505	HiCnLOH	0
ENSG00000101440	ASIP	0.4618	1.0730	-0.3464	-1.3119	8.35380 6505	LoSCINS	0
ENSG00000168060	NAALADL1	0.4618	1.2518	-0.6580	-1.1817	8.35380 6505	LoSCINS	0
ENSG00000100983	GSS	0.4618	1.0094	-1.2309	0.0102	8.35380 6505	LoSCINS	0
ENSG00000076555	ACACB	0.4617	0.9600	-1.2124	0.0670	8.35380 6505	LoSCINS	0
ENSG00000134504	KCTD1	0.4617	0.5258	-1.4096	1.0618	8.35380 6505	HiCnLOH	0
ENSG00000125744	RTN2	0.4617	-1.0543	1.3186	-0.0560	8.35380 6505	HiAiCNA	0
ENSG00000100285	NEFH	0.4616	1.1134	-0.8621	-0.6703	8.35380 6505	LoSCINS	0
ENSG00000161281	COX7A1	0.4616	0.9522	-0.1601	-1.3668	8.35380 6505	LoSCINS	0
ENSG00000088002	SULT2B1	0.4616	1.0641	-0.9797	-0.4263	8.35380 6505	LoSCINS	0
ENSG00000157350	ST3GAL2	0.4615	1.2393	-0.9737	-0.7267	8.35380 6505	LoSCINS	0
ENSG00000143727	ACP1	0.4610	-0.8707	1.3022	-0.3393	8.35380 6505	HiAiCNA	0
ENSG00000139496	NUPL1	0.4610	-1.0931	1.5900	-0.3644	8.35380 6505	HiAiCNA	0
ENSG00000162444	RBP7	0.4610	-1.0109	1.0633	0.2228	8.35380 6505	HiAiCNA	0
ENSG00000141622	RNF165	0.4610	-0.8687	-0.0345	1.4953	8.35380 6505	HiCnLOH	0
ENSG00000139354	GAS2L3	0.4608	-1.1472	1.2243	0.2285	8.35380 6505	HiAiCNA	0
ENSG00000078403	MLLT10	0.4607	-1.1883	0.7703	0.9213	8.35380 6505	HiCnLOH	0
ENSG00000105879	CBLL1	0.4606	-1.2813	0.8773	0.9292	8.35380 6505	HiCnLOH	0
ENSG00000081870	HSPB11	0.4605	-1.1350	1.0879	0.3958	8.35380 6505	HiAiCNA	0
ENSG00000138641	HERC3	0.4605	1.0975	-0.5236	-1.1093	8.35380 6505	LoSCINS	0
ENSG00000161905	ALOX15	0.4605	0.5532	-1.6579	1.3576	8.35380 6505	HiCnLOH	0
ENSG00000166181	API5	0.4604	-1.0206	1.2504	-0.0183	8.35380 6505	HiAiCNA	0
ENSG00000166946	CCNDBP1	0.4603	1.0624	-0.3347	-1.3105	8.35380 6505	LoSCINS	0
ENSG00000146425	DYNLT1	0.4603	-1.1534	0.7619	0.8747	8.35380 6505	HiCnLOH	0
ENSG00000119041	GTF3C3	0.4602	-1.1484	1.1595	0.3197	8.35380 6505	HiAiCNA	0
ENSG00000101266	CSNK2A1	0.4601	-1.1408	0.5373	1.1626	8.35380	HiCnLOH	0

						6505			
						8.35380			
ENSG00000166888	STAT6	0.4600	0.8662	-1.3294	0.3843	6505	LoSCINS		0
						8.35380			
ENSG00000171984	C20orf196	0.4599	1.1989	-0.6641	-1.0850	6505	LoSCINS		0
						8.35380			
ENSG00000117569	PTBP2	0.4599	-1.1500	0.7169	0.9309	6505	HiCnLOH		0
						8.35380			
ENSG00000104081	BMF	0.4599	1.0369	-1.2656	0.0121	6505	LoSCINS		0
						8.35380			
ENSG00000137404	NRM	0.4598	-0.9156	-0.0525	1.5982	6505	HiCnLOH		0
						8.35380			
ENSG00000244734	HBB	0.4597	0.8026	0.0934	-1.4660	6505	LoSCINS		0
						8.35380			
ENSG00000117598	LPPR5	0.4597	1.0757	-1.2980	-0.0081	6505	LoSCINS		0
						8.35380			
ENSG00000113231	PDE8B	0.4597	1.0566	-1.0893	-0.2632	6505	LoSCINS		0
						8.35380			
ENSG00000133065	SLC41A1	0.4597	-1.0413	0.2243	1.4270	6505	HiCnLOH		0
						8.35380			
ENSG00000131351	HAUS8	0.4597	-1.2625	0.7604	1.0586	6505	HiCnLOH		0
						8.35380			
ENSG00000171298	GAA	0.4596	0.9341	-1.2724	0.1928	6505	LoSCINS		0
						8.35380			
ENSG00000138629	UBL7	0.4596	0.0901	-1.2091	1.5123	6505	HiCnLOH		0
						8.35380			
ENSG00000082269	FAM135A	0.4595	-1.1751	1.3141	0.1516	6505	HiAiCNA		0
						8.35380			
ENSG00000166250	CLMP	0.4595	1.0799	-1.1551	-0.2115	6505	LoSCINS		0
						8.35380			
ENSG00000182718	ANXA2	0.4595	-0.7748	1.2701	-0.4550	6505	HiAiCNA		0
						8.35380			
ENSG00000196511	TPK1	0.4595	1.1668	-0.5734	-1.1563	6505	LoSCINS		0
						8.35380			
ENSG00000172534	HCFC1	0.4594	-0.6703	-0.4593	1.7487	6505	HiCnLOH		0
						8.35380			
ENSG00000099282	TSPAN15	0.4594	1.1070	-0.7253	-0.8478	6505	LoSCINS		0
						8.35380			
ENSG00000151117	TMEM86A	0.4593	1.1065	-0.5951	-1.0259	6505	LoSCINS		0
						8.35380			
ENSG00000147533	GOLGA7	0.4592	-1.1330	0.9881	0.5296	6505	HiAiCNA		0
						8.35380			
ENSG00000164172	MOCS2	0.4592	0.7707	-1.6577	0.9949	6505	HiCnLOH		0
						8.35380			
ENSG00000013364	MVP	0.4589	1.1110	-0.9885	-0.4924	6505	LoSCINS		0
						8.35380			
ENSG00000120820	GLT8D2	0.4587	1.0085	-0.2913	-1.2803	6505	LoSCINS		0
						8.35380			
ENSG00000148335	NTMT1	0.4587	-1.1194	-0.0794	1.9750	6505	HiCnLOH		0
						8.35380			
ENSG00000166927	MS4A7	0.4586	0.9178	-0.0599	-1.4472	6505	LoSCINS		0
						8.35380			
ENSG00000143390	RFX5	0.4586	-1.1342	0.7852	0.8106	6505	HiCnLOH		0
						8.35380			
ENSG00000113240	CLK4	0.4585	1.1670	-0.4210	-1.3661	6505	LoSCINS		0
						8.35380			
ENSG00000081181	ARG2	0.4585	-0.8091	-0.3507	1.8308	6505	HiCnLOH		0
						8.35380			
ENSG00000105948	TTC26	0.4585	-1.1815	0.6448	1.0827	6505	HiCnLOH		0
						8.35380			
ENSG00000226777	KIAA0125	0.4584	0.8612	0.0867	-1.5547	6505	LoSCINS		0
						8.35380			
ENSG00000107331	ABCA2	0.4584	0.6756	-1.4341	0.8459	6505	HiCnLOH		0
						8.35380			
ENSG00000146281	PM20D2	0.4583	-1.1375	0.8918	0.6696	6505	HiAiCNA		0
						8.35380			
ENSG00000148719	DNAJB12	0.4583	0.9496	-1.3693	0.3001	6505	LoSCINS		0
						8.35380			
ENSG00000075223	SEMA3C	0.4583	1.1128	-1.0370	-0.4288	6505	LoSCINS		0
						8.35380			
ENSG00000131944	C19orf40	0.4582	-1.2988	1.1578	0.5726	6505	HiAiCNA		0
						8.35380			
ENSG00000164535	DAGLB	0.4579	0.7676	-1.3667	0.5999	6505	LoSCINS		0
						8.35380			
ENSG00000139926	FRMD6	0.4577	1.0053	-0.2381	-1.3480	6505	LoSCINS		0

ENSG00000164818	HEATR2	0.4577	-1.1375	0.5875	1.0881	8.35380 6505	HiCnLOH	0
ENSG00000165280	VCP	0.4577	-0.5925	-0.5229	1.7064	8.35380 6505	HiCnLOH	0
ENSG00000096088	PGC	0.4575	1.0432	-0.6044	-0.9075	8.35380 6505	LoSCINS	0
ENSG00000099308	MAST3	0.4575	0.6503	-1.3792	0.8127	8.35380 6505	HiCnLOH	0
ENSG00000015171	ZMYND11	0.4574	-1.3121	0.7104	1.2099	8.35380 6505	HiCnLOH	0
ENSG00000169371	SNUPN	0.4574	-0.3869	-0.7836	1.7222	8.35380 6505	HiCnLOH	0
ENSG00000074416	MGLL	0.4574	1.1065	-0.7120	-0.8652	8.35380 6505	LoSCINS	0
ENSG00000160710	ADAR	0.4573	-0.9753	0.1658	1.3975	8.35380 6505	HiCnLOH	0
ENSG00000113761	ZNF346	0.4572	1.2200	-1.4412	-0.0517	8.35380 6505	LoSCINS	0
ENSG00000175591	P2RY2	0.4572	1.1368	-0.8068	-0.7853	8.35380 6505	LoSCINS	0
ENSG00000168610	STAT3	0.4572	-0.8946	1.3081	-0.3076	8.35380 6505	HiAiCNA	0
ENSG00000141391	SLMO1	0.4567	-1.0844	0.5671	1.0275	8.35380 6505	HiCnLOH	0
ENSG00000146729	GBAS	0.4567	-1.0786	0.3841	1.2695	8.35380 6505	HiCnLOH	0
ENSG00000171443	ZNF524	0.4566	1.0532	-1.1992	-0.1065	8.35380 6505	LoSCINS	0
ENSG00000077312	SNRPA	0.4565	-0.8942	-0.1097	1.6413	8.35380 6505	HiCnLOH	0
ENSG00000159352	PSMD4	0.4565	-1.0875	0.3867	1.2808	8.35380 6505	HiCnLOH	0
ENSG00000179241	LDLRAD3	0.4563	-0.8905	1.2733	-0.2666	8.35380 6505	HiAiCNA	0
ENSG00000198855	FICD	0.4562	1.1278	-0.5194	-1.1655	8.35380 6505	LoSCINS	0
ENSG00000165996	PTPLA	0.4561	-1.0322	0.9608	0.3993	8.35380 6505	HiAiCNA	0
ENSG00000186111	PIP5K1C	0.4559	1.0418	-1.2542	-0.0117	8.35380 6505	LoSCINS	0
ENSG00000157764	BRAF	0.4558	-1.1936	1.0720	0.5153	8.35380 6505	HiAiCNA	0
ENSG00000007402	CACNA2D2	0.4557	1.2372	-0.8397	-0.9074	8.35380 6505	LoSCINS	0
ENSG00000197375	SLC22A5	0.4557	1.1146	-0.5211	-1.1412	8.35380 6505	LoSCINS	0
ENSG00000197142	ACSL5	0.4556	1.1140	-0.7404	-0.8386	8.35380 6505	LoSCINS	0
ENSG00000146802	TMEM168	0.4556	-1.1923	1.0367	0.5618	8.35380 6505	HiAiCNA	0
ENSG00000120915	EPHX2	0.4555	1.0667	-1.0429	-0.3439	8.35380 6505	LoSCINS	0
ENSG00000152348	ATG10	0.4555	1.1276	-1.1647	-0.2779	8.35380 6505	LoSCINS	0
ENSG00000214194	LOC401397	0.4554	-1.1399	0.9368	0.6117	8.35380 6505	HiAiCNA	0
ENSG00000175482	POLD4	0.4553	1.1178	-0.4028	-1.3091	8.35380 6505	LoSCINS	0
ENSG00000182957	SPATA13	0.4553	1.0259	-0.1246	-1.5385	8.35380 6505	LoSCINS	0

\*Ordered by D-score  
Only genes q < 0.1 shown



## Supplementary Table S3: Sheet 3

HiAicNA-HiCnLOH KCL

Gene ID	Gene Name	score.d	Fold.change	q.value	local.fdr	Log2 HiAicNA/ HiCnLOH. expression	Log2 LoSCINS. expression
ENSG00000143452	HORMAD1	-3.5068	1.2245	0	0.3311	2.8470	2.5549
ENSG00000147889	CDKN2A	-3.8850	1.1304	0	0.1429	3.1228	2.9460
ENSG00000118193	KIF14	-3.7315	1.1299	0	0.1461	2.8316	2.6554
ENSG00000131747	NA	-4.3516	1.1295	0	0.3576	3.2121	3.0365
ENSG00000129810	SGOL1	-4.0243	1.1252	0	0.1863	2.8850	2.7149
ENSG00000143228	NUF2	-3.5564	1.1241	0	0.2648	2.9913	2.8226
ENSG00000165304	MELK	-3.4318	1.1188	0	0.4680	2.8654	2.7035
ENSG00000066279	ASPM	-4.0554	1.1174	0	0.1999	3.0004	2.8403
ENSG00000143401	ANP32E	-3.5651	1.1134	0	0.2548	3.0541	2.8992
ENSG00000024526	DEPDC1	-3.5052	1.1111	0	0.3335	2.7646	2.6126
ENSG00000146918	NCAPG2	-4.1425	1.1071	0	0.2424	2.8611	2.7143
ENSG00000109805	NCAPG	-3.9041	1.1046	0	0.1467	2.9555	2.8120
ENSG00000117724	CENPF	-3.6922	1.1044	0	0.1597	3.1907	3.0475
ENSG00000071539	TRIP13	-4.0712	1.1036	0	0.2072	3.0009	2.8587
ENSG00000163808	KIF15	-3.7753	1.1031	0	0.1379	2.8216	2.6801
ENSG00000094804	CDC6	-4.1933	1.1029	0	0.2691	2.8773	2.7361
ENSG00000088325	TPX2	-4.0159	1.1021	0	0.1829	3.2151	3.0748
ENSG00000184661	CDCA2	-3.9209	1.1013	0	0.1508	2.8879	2.7487
ENSG00000182217	HIST2H4B	-3.8151	1.1012	0	0.1359	3.0677	2.9287
ENSG00000183941	HIST2H4A	-3.7142	1.0992	0	0.1513	3.0788	2.9423
ENSG00000102384	CENPI	-3.5339	1.0982	0	0.2927	2.9071	2.7719
ENSG00000076382	SPAG5	-4.9569	1.0970	0	0.6967	2.9738	2.8403
ENSG00000138180	CEP55	-3.5684	1.0967	0	0.2512	2.9728	2.8396
ENSG00000172167	MTBP	-3.4151	1.0965	0	0.5050	2.6951	2.5622
ENSG00000136492	BRIP1	-3.3750	1.0951	0	0.6060	2.9729	2.8418
ENSG00000072571	HMMR	-3.4587	1.0941	0	0.4132	2.6841	2.5544
ENSG00000097046	CDC7	-4.1664	1.0930	0	0.2548	2.7565	2.6282
ENSG00000203811	HIST2H3C	-4.2136	1.0920	0	0.2801	3.2157	3.0887
ENSG00000123473	STIL	-3.6435	1.0920	0	0.1860	3.0558	2.9289
ENSG00000111206	FOXM1	-3.5244	1.0920	0	0.3056	3.1437	3.0167
ENSG00000142945	KIF2C	-3.9271	1.0893	0	0.1524	2.9132	2.7899
ENSG00000129173	E2F8	-3.6009	1.0892	0	0.2190	2.8985	2.7752
ENSG00000147536	GINS4	-3.5045	1.0879	0	0.3346	2.7508	2.6292
ENSG00000174371	EXO1	-3.3538	1.0856	0	0.6661	2.9591	2.8406
ENSG00000112984	KIF20A	-3.4654	1.0832	0	0.4007	3.0493	2.9340
ENSG00000176208	ATAD5	-3.3063	1.0828	0	0.8197	2.7558	2.6410
ENSG00000087586	AURKA	-3.3508	1.0827	0	0.6751	3.0724	2.9578
ENSG00000080839	RBL1	-3.2744	1.0822	0	0.9386	2.9696	2.8557
ENSG00000117650	NEK2	-3.6409	1.0815	0	0.1877	3.0625	2.9495
ENSG00000137310	TCF19	-4.2901	1.0807	0	0.3225	2.9800	2.8680
ENSG00000090889	KIF4B	-3.6752	1.0804	0	0.1676	2.9320	2.8205
ENSG00000051341	POLQ	-3.6446	1.0804	0	0.1852	2.6833	2.5718
ENSG00000204197	KIFC1	-4.4830	1.0800	0	0.4348	2.9734	2.8624
ENSG00000117399	CDC20	-3.5279	1.0777	0	0.3007	3.1656	3.0576
ENSG00000124795	DEK	-3.8341	1.0769	0	0.1366	3.2355	3.1286
ENSG00000129195	FAM64A	-4.2016	1.0752	0	0.2736	2.9037	2.7991
ENSG00000198901	PRC1	-3.5776	1.0744	0	0.2414	3.1750	3.0714
ENSG00000134690	CDCA8	-3.5246	1.0731	0	0.3053	2.9922	2.8905
ENSG00000175792	RUVBL1	-4.6006	1.0711	0	0.5036	3.1045	3.0053
ENSG00000145604	SKP2	-3.7731	1.0704	0	0.1382	3.2760	3.1778
ENSG00000092853	CLSPN	-3.6355	1.0699	0	0.1914	2.6253	2.5278
ENSG00000187990	HIST1H2BG	-3.3561	1.0695	0	0.6593	3.3785	3.2815
ENSG00000176890	TYMS	-3.3855	1.0694	0	0.5778	3.2045	3.1077
ENSG00000113810	SMC4	-3.5512	1.0693	0	0.2710	3.1748	3.0781
ENSG00000171793	CTPS	-3.3362	1.0685	0	0.7200	3.0537	2.9581

ENSG00000183598	HIST2H3D	-3.9659	1.0684	0	0.1642	3.6208	3.5253
ENSG00000106462	EZH2	-3.4214	1.0677	0	0.4908	3.1923	3.0979
ENSG00000164611	PTTG1	-3.3659	1.0675	0	0.6310	2.9116	2.8173
ENSG00000183856	IQGAP3	-3.2868	1.0669	0	0.8907	2.9866	2.8932
ENSG00000159228	CBR1	-3.5671	1.0668	0	0.2527	2.9130	2.8197
ENSG00000182134	TDRKH	-3.3899	1.0666	0	0.5667	2.9574	2.8643
ENSG00000203852	HIST2H3A	-3.5653	1.0664	0	0.2546	3.3547	3.2620
ENSG00000158402	CDC25C	-3.6016	1.0653	0	0.2183	2.6761	2.5848
ENSG00000178999	AURKB	-3.5177	1.0637	0	0.3150	3.1036	3.0146
ENSG00000164104	HMGB2	-3.7859	1.0618	0	0.1369	3.0367	2.9502
ENSG00000112312	GMNN	-3.2868	1.0615	0	0.8907	2.8703	2.7842
ENSG00000093009	CDC45L	-3.6236	1.0592	0	0.2002	2.9937	2.9108
ENSG00000137337	MDC1	-3.9546	1.0589	0	0.1605	2.9034	2.8209
ENSG00000112118	MCM3	-3.6240	1.0589	0	0.1999	3.1944	3.1119
ENSG00000115163	CENPA	-3.4639	1.0586	0	0.4035	3.0717	2.9896
ENSG00000189285	NA	-3.2893	1.0575	0	0.8813	2.8741	2.7935
ENSG00000005156	LIG3	-3.3070	1.0565	0	0.8172	3.0565	2.9772
ENSG00000073111	MCM2	-3.7886	1.0562	0	0.1367	3.0300	2.9512
ENSG00000113368	LMNB1	-3.2709	1.0557	0	0.9523	2.9718	2.8935
ENSG00000198937	C6orf129	-3.3315	1.0537	0	0.7349	2.9738	2.8983
ENSG00000132383	RPA1	-3.7391	1.0535	0	0.1442	3.2080	3.1328
ENSG00000124571	XPO5	-3.4408	1.0531	0	0.4489	3.1754	3.1007
ENSG00000122966	CIT	-3.2929	1.0518	0	0.8678	2.8836	2.8107
ENSG00000131470	PSMC3IP	-3.8322	1.0511	0	0.1365	2.7629	2.6909
ENSG00000177646	ACAD9	-3.7091	1.0476	0	0.1530	3.2321	3.1650
ENSG00000065060	UHRF1BP1	-3.2896	1.0445	0	0.8803	2.9120	2.8491
ENSG00000161956	SENP3	-3.6578	1.0410	0	0.1771	3.0321	2.9741
				0.8755			
ENSG00000185697	MYBL1	-3.1767	1.1551	01097	1.3951	2.9903	2.7823
				0.8755			
ENSG00000152977	ZIC1	-3.1300	1.1426	01097	1.6693	2.7865	2.5942
				0.8755			
ENSG00000099256	PRTFDC1	-3.1986	1.1360	01097	1.2796	3.0125	2.8285
				0.8755			
ENSG00000112742	TTK	-3.0345	1.1161	01097	2.3626	2.9373	2.7789
				0.8755			
ENSG00000121621	KIF18A	-3.0938	1.1084	01097	1.9102	2.8994	2.7510
				0.8755			
ENSG00000154839	C18orf24	-3.2323	1.0993	01097	1.1174	2.7256	2.5890
				0.8755			
ENSG00000181544	FANCB	-3.2604	1.0956	01097	0.9953	2.7714	2.6397
				0.8755			
ENSG00000137563	GGH	-3.1746	1.0948	01097	1.4064	2.9250	2.7943
				0.8755			
ENSG00000138160	KIF11	-3.1324	1.0929	01097	1.6539	2.9355	2.8073
				0.8755			
ENSG00000121957	GPSM2	-3.1810	1.0919	01097	1.3717	3.0002	2.8733
				0.8755			
ENSG00000137807	KIF23	-3.1944	1.0881	01097	1.3010	2.9978	2.8759
				0.8755			
ENSG00000196584	XRCC2	-3.1690	1.0864	01097	1.4376	2.9548	2.8353
				0.8755			
ENSG00000105173	CCNE1	-3.0573	1.0856	01097	2.1795	2.9604	2.8420
	ARHGAP11			0.8755			
ENSG00000198826	A	-3.1035	1.0854	01097	1.8428	3.0087	2.8905
				0.8755			
ENSG00000117228	GBP1	-3.0720	1.0854	01097	2.0682	3.3664	3.2482
				0.8755			
ENSG00000146263	C6orf167	-3.1064	1.0853	01097	1.8232	2.8976	2.7795
				0.8755			
ENSG00000166845	C18orf54	-3.1156	1.0850	01097	1.7618	2.6515	2.5338
				0.8755			
ENSG00000136982	DSCC1	-3.0757	1.0816	01097	2.0404	2.7304	2.6172
				0.8755			
ENSG00000146281	PM20D2	-3.1722	1.0815	01097	1.4196	2.9846	2.8715
				0.8755			
ENSG00000156802	ATAD2	-3.1528	1.0805	01097	1.5307	3.1405	3.0288

ENSG00000169607	CKAP2L	-3.0641	1.0801	0.8755 01097	2.1271	2.9135	2.8023
ENSG00000140534	C15orf42	-3.0038	1.0784	0.8755 01097	2.6276	2.9493	2.8403
ENSG00000148773	MKI67	-3.2093	1.0780	0.8755 01097	1.2259	3.1729	3.0646
ENSG00000114346	ECT2	-3.0539	1.0761	0.8755 01097	2.2065	3.0628	2.9570
ENSG00000168126	NA	-3.0162	1.0756	0.8755 01097	2.5185	2.7668	2.6616
ENSG00000044459	CNTLN	-3.0128	1.0692	0.8755 01097	2.5480	2.6280	2.5315
ENSG00000154548	SRSF12	-3.2102	1.0670	0.8755 01097	1.2215	2.7110	2.6174
ENSG00000187951	ARHGAP11 B	-3.0358	1.0666	0.8755 01097	2.3517	3.0221	2.9291
ENSG00000077152	UBE2T	-3.0257	1.0665	0.8755 01097	2.4362	3.1134	3.0205
ENSG00000196793	ZNF239	-3.0327	1.0649	0.8755 01097	2.3779	2.7127	2.6219
ENSG00000112992	NNT	-3.1146	1.0640	0.8755 01097	1.7685	3.1166	3.0271
ENSG00000166851	PLK1	-3.1543	1.0632	0.8755 01097	1.5214	3.2554	3.1670
ENSG00000132182	NUP210	-3.0040	1.0630	0.8755 01097	2.6259	3.2179	3.1298
ENSG00000108272	DHRS11	-3.2424	1.0629	0.8755 01097	1.0718	3.0801	2.9921
ENSG00000178556	CKS1BP6	-3.2494	1.0614	0.8755 01097	1.0415	3.1827	3.0967
ENSG00000186638	KIF24	-3.2609	1.0595	0.8755 01097	0.9929	2.7271	2.6436
ENSG00000186871	ERCC6L	-3.0871	1.0595	0.8755 01097	1.9578	2.5293	2.4459
ENSG00000212713	NA	-3.1274	1.0574	0.8755 01097	1.6858	2.9430	2.8624
ENSG00000163781	TOPBP1	-3.2117	1.0554	0.8755 01097	1.2146	3.1527	3.0749
ENSG00000132780	NASP	-3.0890	1.0550	0.8755 01097	1.9437	2.9400	2.8628
ENSG00000123485	HJURP	-3.0825	1.0543	0.8755 01097	1.9909	3.0054	2.9292
ENSG00000143363	PRUNE	-3.2037	1.0531	0.8755 01097	1.2537	3.0888	3.0142
ENSG00000173207	CKS1B	-3.0934	1.0528	0.8755 01097	1.9126	3.2100	3.1359
ENSG00000112941	POLS	-3.2624	1.0496	0.8755 01097	0.9869	3.1638	3.0939
ENSG00000184675	FAM123B	-3.1261	1.0494	0.8755 01097	1.6942	2.8581	2.7885
ENSG00000187741	FANCA	-3.0297	1.0488	0.8755 01097	2.4024	2.9033	2.8346
ENSG00000167721	TSR1	-3.1380	1.0479	0.8755 01097	1.6195	2.9947	2.9273
ENSG00000147065	MSN	-3.1504	1.0476	0.8755 01097	1.5448	3.4045	3.3374
ENSG00000198952	SMG5	-3.2436	1.0473	0.8755 01097	1.0665	3.1227	3.0561
ENSG00000065882	TBC1D1	-3.1145	1.0472	0.8755 01097	1.7691	3.0751	3.0085
ENSG00000100714	MTHFD1	-3.0181	1.0470	0.8755 01097	2.5019	3.0277	2.9614
ENSG00000143398	PIP5K1A	-3.0785	1.0469	0.8755 01097	2.0198	3.2528	3.1867
ENSG00000085999	RAD54L	-3.0094	1.0468	0.8755 01097	2.5774	2.8429	2.7769
ENSG00000149636	DSN1	-3.2412	1.0467	0.8755 01097	1.0773	3.2017	3.1359
ENSG00000138092	CENPO	-3.0708	1.0456	0.8755 01097	2.0770	2.9640	2.8997
ENSG00000125454	SLC25A19	-3.1218	1.0453	0.8755	1.7215	2.9192	2.8553

ENSG00000124702	KLHDC3	-3.1284	1.0447	01097 0.8755 01097	1.6795	3.3215	3.2583
ENSG00000143436	MRPL9	-2.9981	1.0430	0.8755 01097	2.6792	3.2671	3.2064
ENSG00000168496	FEN1	-3.1322	1.0419	0.8755 01097	1.6552	2.9837	2.9245
ENSG00000125319	C17orf53	-3.2111	1.0414	0.8755 01097	1.2171	2.9121	2.8537
ENSG00000124562	SNRPC	-3.0235	1.0384	0.8755 01097	2.4548	3.0437	2.9893
ENSG00000184260	HIST2H2AC	-3.0908	1.0366	0.8755 01097	1.9311	3.4919	3.4401
ENSG00000183624	C3orf37	-3.0064	1.0359	0.8755 01097	2.6045	3.1542	3.1033
ENSG00000162775	RBM15	-3.1006	1.0351	0.8755 01097	1.8629	2.9929	2.9431
ENSG00000196632	WNK3	-2.9853	1.1095	0.9830 18775	2.7984	2.6393	2.4893
ENSG00000168078	PBK	-2.9789	1.1050	0.9830 18775	2.8590	2.8780	2.7340
ENSG00000124657	OR2B6	-2.8915	1.0956	0.9830 18775	3.7971	2.4731	2.3414
ENSG00000152253	SPC25	-2.9399	1.0875	0.9830 18775	3.2519	2.6164	2.4954
ENSG00000101003	GIN51	-2.9562	1.0758	0.9830 18775	3.0835	3.1168	3.0114
ENSG00000122483	CCDC18	-2.8801	1.0739	0.9830 18775	3.9347	2.4983	2.3954
ENSG00000156876	SASS6	-2.9388	1.0731	0.9830 18775	3.2637	2.9734	2.8715
ENSG00000172197	MBOAT1	-2.8907	1.0725	0.9830 18775	3.8062	3.2368	3.1359
ENSG00000140525	FANCI	-2.9810	1.0699	0.9830 18775	2.8388	3.0521	2.9545
ENSG00000000460	C1orf112	-2.8805	1.0686	0.9830 18775	3.9292	2.9219	2.8262
ENSG00000197472	ZNF695	-2.8869	1.0669	0.9830 18775	3.8526	2.7528	2.6594
ENSG00000006634	DBF4	-2.9635	1.0654	0.9830 18775	3.0101	2.6808	2.5894
ENSG00000031691	CENPQ	-2.9814	1.0651	0.9830 18775	2.8349	2.6024	2.5114
ENSG00000143476	DTL	-2.8797	1.0638	0.9830 18775	3.9392	3.2080	3.1188
ENSG00000213160	KLHL23	-2.8921	1.0624	0.9830 18775	3.7893	2.7135	2.6263
ENSG00000144554	FANCD2	-2.9955	1.0608	0.9830 18775	2.7028	2.8877	2.8026
ENSG00000107890	ANKRD26	-2.9617	1.0604	0.9830 18775	3.0276	2.6529	2.5683
ENSG00000124635	HIST1H2BJ	-2.9370	1.0604	0.9830 18775	3.2828	3.1327	3.0481
ENSG00000163918	RFC4	-2.8863	1.0571	0.9830 18775	3.8587	3.1032	3.0232
ENSG00000121152	NCAPH	-2.9382	1.0554	0.9830 18775	3.2701	3.0027	2.9249
ENSG00000161800	RACGAP1	-2.9127	1.0553	0.9830 18775	3.5510	3.1916	3.1140
ENSG00000071794	HLTF	-2.9380	1.0552	0.9830 18775	3.2730	3.1167	3.0391
ENSG00000116830	TTF2	-2.9027	1.0526	0.9830 18775	3.6653	2.9518	2.8778
ENSG00000182481	KPNA2	-2.9047	1.0501	0.9830 18775	3.6423	3.4573	3.3868
ENSG00000160208	RRP1B	-2.9475	1.0499	0.9830 18775	3.1729	3.0666	2.9963
ENSG00000121031	PRKDC	-2.9154	1.0495	0.9830 18775	3.5195	3.2569	3.1872
ENSG00000116062	MSH6	-2.9358	1.0481	18775	3.2958	3.0562	2.9883

ENSG00000113569	NUP155	-2.9088	1.0474	0.9830 18775	3.5953	3.2749	3.2080
ENSG00000165097	AOF1	-2.9347	1.0465	0.9830 18775	3.3080	3.0879	3.0223
ENSG00000005100	DHX33	-2.9921	1.0458	0.9830 18775	2.7341	3.0156	2.9510
ENSG00000141698	NT5C3L	-2.9756	1.0456	0.9830 18775	2.8908	3.1173	3.0529
ENSG00000197043	ANXA6	-2.8917	1.0452	0.9830 18775	3.7941	3.3510	3.2872
ENSG00000150753	CCT5	-2.9844	1.0436	0.9830 18775	2.8064	3.2796	3.2180
ENSG00000162385	MAGOH	-2.9513	1.0430	0.9830 18775	3.1336	2.7946	2.7339
ENSG00000108262	GIT1	-2.9929	1.0427	0.9830 18775	2.7273	3.1958	3.1354
ENSG00000182952	HMGNA4	-2.9787	1.0413	0.9830 18775	2.8610	3.3182	3.2598
ENSG00000143256	PFDN2	-2.9543	1.0412	0.9830 18775	3.1029	3.1995	3.1412
ENSG00000187837	HIST1H1C	-2.8808	1.0379	0.9830 18775	3.9257	3.2279	3.1742
ENSG00000112640	PPP2R5D	-2.8963	1.0336	0.9830 18775	3.7403	3.1081	3.0603
ENSG00000081985	IL12RB2	-2.7865	1.1111	1.5858 13307	5.2143	2.7850	2.6331
ENSG00000141682	PMAIP1	-2.8595	1.1007	1.5858 13307	4.1930	2.9779	2.8395
ENSG00000080986	NDC80	-2.7860	1.0937	1.5858 13307	5.2209	2.7929	2.6637
ENSG00000011426	ANLN	-2.8299	1.0796	1.5858 13307	4.5872	3.1977	3.0872
ENSG00000163923	RPL39L	-2.8711	1.0704	1.5858 13307	4.0462	2.9876	2.8895
ENSG00000151287	C13orf27	-2.7819	1.0694	1.5858 13307	5.2835	2.6860	2.5892
ENSG00000198554	WDHD1	-2.8051	1.0636	1.5858 13307	4.9375	2.8567	2.7677
ENSG00000108578	BLMH	-2.8645	1.0631	1.5858 13307	4.1294	2.9606	2.8723
ENSG00000134057	CCNB1	-2.8475	1.0627	1.5858 13307	4.3489	3.0351	2.9473
ENSG00000213033	NA	-2.8678	1.0618	1.5858 13307	4.0873	3.0246	2.9381
ENSG00000159147	DONSON	-2.8118	1.0566	1.5858 13307	4.8408	3.1316	3.0521
ENSG00000106701	FSD1L	-2.8131	1.0553	1.5858 13307	4.8230	2.5176	2.4399
ENSG00000158169	FANCC	-2.8244	1.0506	1.5858 13307	4.6624	2.8245	2.7532
ENSG00000089685	BIRC5	-2.8761	1.0495	1.5858 13307	3.9834	2.9770	2.9073
ENSG00000177602	GSG2	-2.8015	1.0486	1.5858 13307	4.9899	2.7522	2.6837
ENSG00000196787	HIST1H2AG	-2.8767	1.0452	1.5858 13307	3.9764	3.1333	3.0695
ENSG00000198715	C1orf85	-2.8526	1.0439	1.5858 13307	4.2823	3.2067	3.1447
ENSG00000120334	CENPL	-2.8316	1.0433	1.5858 13307	4.5629	2.8263	2.7652
ENSG00000186185	KIF18B	-2.8553	1.0413	1.5858 13307	4.2473	2.9874	2.9291
ENSG00000125450	NUP85	-2.8523	1.0410	1.5858 13307	4.2862	3.0924	3.0344
ENSG00000175216	CKAP5	-2.7814	1.0409	1.5858 13307	5.2918	3.2423	3.1844
ENSG00000108773	GCN5L2	-2.8096	1.0393	1.5858 13307	4.8724	3.0948	3.0391
ENSG00000118655	DCLRE1B	-2.7863	1.0380	1.5858 13307	5.2174	2.9070	2.8533
ENSG00000101189	C20orf20	-2.8358	1.0373	1.5858	4.5067	3.0914	3.0386

ENSG00000149136	SSRP1	-2.8514	1.0366	13307 1.5858 13307	4.2985	2.9278	2.8760
ENSG00000137200	KIAA0082	-2.8407	1.0361	1.5858 13307	4.4405	2.9730	2.9218
ENSG00000116455	WDR77	-2.8705	1.0351	1.5858 13307	4.0540	3.0058	2.9559
ENSG00000124641	MED20	-2.8297	1.0330	1.5858 13307	4.5897	3.1571	3.1102
ENSG00000112651	MRPL2	-2.7836	1.0321	1.5858 13307	5.2575	2.9196	2.8740
ENSG00000163902	RPN1	-2.8707	1.0291	1.5858 13307	4.0511	3.3726	3.3313
ENSG00000101190	TCFL5	-2.7942	1.0268	1.5858 13307	5.0982	3.1653	3.1271
ENSG00000154277	UCHL1	-2.6898	1.0970	2.1012 02632	6.8412	3.0101	2.8765
ENSG00000111247	RAD51AP1	-2.6900	1.0924	2.1012 02632	6.8376	2.8082	2.6806
ENSG00000100167	03-Sep	-2.7026	1.0901	2.1012 02632	6.6053	3.1266	3.0021
ENSG00000185875	THNSL1	-2.7443	1.0862	2.1012 02632	5.8836	2.8296	2.7104
ENSG00000170312	CDC2	-2.7098	1.0836	2.1012 02632	6.4773	2.9772	2.8613
ENSG00000163507	KIAA1524	-2.7574	1.0788	2.1012 02632	5.6691	2.8189	2.7095
ENSG00000065328	MCM10	-2.7019	1.0757	2.1012 02632	6.6183	2.9515	2.8461
ENSG00000196503	ARL9	-2.7467	1.0706	2.1012 02632	5.8442	2.6457	2.5473
ENSG00000197299	BLM	-2.7129	1.0696	2.1012 02632	6.4211	2.8156	2.7185
ENSG00000163535	SGOL2	-2.7246	1.0681	2.1012 02632	6.2167	2.9038	2.8088
ENSG00000117155	SSX2IP	-2.6915	1.0660	2.1012 02632	6.8095	2.8275	2.7353
ENSG00000175063	UBE2C	-2.7682	1.0653	2.1012 02632	5.4967	3.0266	2.9353
ENSG00000117632	STMN1	-2.7476	1.0560	2.1012 02632	5.8280	3.2594	3.1808
ENSG00000035499	DEPDC1B	-2.7189	1.0558	2.1012 02632	6.3155	2.8044	2.7261
ENSG00000162607	USP1	-2.7378	1.0531	2.1012 02632	5.9915	3.0114	2.9367
ENSG00000167325	RRM1	-2.7537	1.0513	2.1012 02632	5.7293	3.1763	3.1041
ENSG00000198339	HIST1H4I	-2.7474	1.0512	2.1012 02632	5.8324	2.8939	2.8218
ENSG00000155561	NUP205	-2.6962	1.0506	2.1012 02632	6.7233	3.1423	3.0711
ENSG00000132436	FIGNL1	-2.6936	1.0503	2.1012 02632	6.7700	2.9114	2.8407
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ENSG00000143553	SNAPIN	-2.7740	1.0461	2.1012 02632	5.4058	3.0588	2.9938
ENSG00000198176	TFDP1	-2.6978	1.0431	2.1012 02632	6.6938	3.3830	3.3221
ENSG00000160710	ADAR	-2.7296	1.0416	2.1012 02632	6.1308	3.3213	3.2624
ENSG00000108671	PSMD11	-2.6963	1.0395	2.1012 02632	6.7206	3.2281	3.1722
ENSG00000198700	IPO9	-2.7513	1.0382	2.1012 02632	5.7687	3.1429	3.0887
ENSG00000143374	TARS2	-2.7204	1.0374	2.1012 02632	6.2906	2.9873	2.9344
ENSG00000154429	C1orf96	-2.7691	1.0348	2.1012 02632	5.4832	3.0724	3.0231
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ENSG00000168090	COPS6	-2.7635	1.0326	2.1012 02632	5.5705	3.3563	3.3100
ENSG00000001497	LAS1L	-2.6880	1.0323	2.1012 02632	6.8740	3.0536	3.0077
ENSG00000177302	TOP3A	-2.7043	1.0309	2.1012 02632	6.5753	2.9569	2.9130
ENSG00000204221	WDR46	-2.6919	1.0307	2.1012 02632	6.8021	2.9154	2.8717
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ENSG00000180992	MRPL14	-2.7784	1.0299	2.1012 02632	5.3378	3.0880	3.0454
ENSG00000164687	FABP5L2	-2.5851	1.0867	2.5383 65596	9.0003	2.8185	2.6985
ENSG00000138778	CENPE	-2.6403	1.0813	2.5383 65596	7.8074	2.7607	2.6479
ENSG00000068489	PRR11	-2.5864	1.0776	2.5383 65596	8.9702	2.9765	2.8686
ENSG00000138346	DNA2	-2.6840	1.0757	2.5383 65596	6.9492	2.8386	2.7332
ENSG00000154655	L3MBTL4	-2.5768	1.0726	2.5383 65596	9.1894	2.9134	2.8123
ENSG00000164985	PSIP1	-2.6645	1.0722	2.5383 65596	7.3230	2.9385	2.8379
ENSG00000164430	C6orf150	-2.6128	1.0720	2.5383 65596	8.3858	2.7481	2.6477
ENSG00000126970	KIAA1166	-2.5952	1.0714	2.5383 65596	8.7713	2.8605	2.7610
ENSG00000178053	MLF1	-2.6519	1.0714	2.5383 65596	7.5719	2.8084	2.7089
ENSG00000184825	HIST1H2AH	-2.5894	1.0707	2.5383 65596	8.9028	2.8699	2.7714
ENSG00000127423	C1orf135	-2.5845	1.0688	2.5383 65596	9.0125	2.7004	2.6044
ENSG00000091127	PUS7	-2.6568	1.0687	2.5383 65596	7.4746	2.9337	2.8378
ENSG00000140479	PCSK6	-2.6150	1.0679	2.5383 65596	8.3375	2.9120	2.8171
ENSG00000151967	SCHIP1	-2.6068	1.0658	2.5383 65596	8.5168	3.0182	2.9263
ENSG00000183814	LIN9	-2.6186	1.0643	2.5383 65596	8.2606	2.8702	2.7803
ENSG00000213281	NRAS	-2.6591	1.0616	2.5383 65596	7.4279	3.3667	3.2804
ENSG00000148459	PDSS1	-2.6038	1.0580	2.5383 65596	8.5811	2.9989	2.9176
ENSG00000010292	NCAPD2	-2.5900	1.0580	2.5383 65596	8.8890	3.2175	3.1362
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ENSG00000109674	NEIL3	-2.5802	1.0570	2.5383 65596	9.1110	2.8892	2.8093
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ENSG00000120437	ACAT2	-2.5895	1.0545	2.5383 65596	8.9001	2.8251	2.7486
ENSG00000159259	CHAF1B	-2.6093	1.0535	2.5383 65596	8.4610	2.9121	2.8368
ENSG00000006652	IFRD1	-2.5825	1.0532	2.5383 65596	9.0587	2.9588	2.8840
ENSG00000059588	TARBP1	-2.6254	1.0524	2.5383 65596	8.1159	3.0856	3.0119
ENSG00000117593	DARS2	-2.6818	1.0503	2.5383 65596	6.9905	3.0726	3.0018
ENSG00000101868	POLA1	-2.6282	1.0484	2.5383 65596	8.0583	2.9381	2.8700
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ENSG00000108021	C10orf18	-2.5807	1.0474	2.5383 65596	9.1006	3.2102	3.1434

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ENSG00000109113	RAB34	-2.5983	1.0467	65596	8.7030	3.0813	3.0154
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ENSG00000081479	LRP2	-2.4756	1.1324	24626	11.7519	2.7415	2.5621
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ENSG00000144278	GALNT13	-2.4855	1.0912	24626	11.4821	2.5670	2.4411
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ENSG00000148798	INA	-2.4615	1.0901	24626	12.1466	2.6599	2.5354
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ENSG00000197463	CSAG2	-2.5073	1.0721	24626	10.8996	2.7670	2.6665
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ENSG00000157456	CCNB2	-2.5727	1.0708	24626	9.2843	3.0733	2.9747



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ENSG00000123975	CKS2	-2.5525	1.0644	3.4014 24626	9.7648	3.1217	3.0317
ENSG00000154040	CABYR	-2.5402	1.0625	3.4014 24626	10.0642	2.8157	2.7282
ENSG00000058056	USP13	-2.5318	1.0579	3.4014 24626	10.2730	2.9723	2.8911
ENSG00000184445	KNTC1	-2.4739	1.0577	3.4014 24626	11.8007	2.9596	2.8787
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ENSG00000095002	MSH2	-2.5156	1.0561	3.4014 24626	10.6838	2.9725	2.8938
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ENSG00000143815	LBR	-2.5027	1.0548	3.4014 24626	11.0205	3.1301	3.0532
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ENSG00000107937	GTPBP4	-2.5572	1.0531	3.4014 24626	9.6496	3.0437	2.9691
ENSG00000146670	CDCA5	-2.5261	1.0526	3.4014 24626	10.4171	2.9642	2.8903
ENSG00000104147	OIP5	-2.4908	1.0516	3.4014 24626	11.3395	2.7767	2.7041
ENSG00000163029	SMC6	-2.5513	1.0510	3.4014 24626	9.7938	2.9975	2.9257
ENSG00000204267	TAP2	-2.5698	1.0506	3.4014 24626	9.3516	3.1057	3.0346
ENSG00000183441	NA	-2.5176	1.0504	3.4014 24626	10.6323	3.3181	3.2471
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ENSG00000184357	HIST1H1B	-2.4792	1.0499	3.4014 24626	11.6537	3.1639	3.0936
ENSG00000134375	TIMM17A	-2.4641	1.0498	3.4014 24626	12.0725	3.0606	2.9904
ENSG00000185509	NA	-2.4624	1.0494	3.4014 24626	12.1215	2.5959	2.5263
ENSG00000170264	FAM161A	-2.5023	1.0492	3.4014 24626	11.0326	2.5011	2.4318
ENSG00000145912	NOLA2	-2.5378	1.0492	3.4014 24626	10.1237	3.0115	2.9422
ENSG00000168274	HIST1H2AE	-2.4580	1.0489	3.4014 24626	12.2467	3.3527	3.2838
ENSG00000111665	CDCA3	-2.5722	1.0485	3.4014 24626	9.2971	2.8759	2.8076
ENSG00000108651	UTP6	-2.4886	1.0482	3.4014 24626	11.3972	2.9897	2.9219
ENSG00000062282	DGAT2	-2.4566	1.0481	3.4014 24626	12.2869	3.1705	3.1027
ENSG00000108055	SMC3	-2.4740	1.0475	3.4014 24626	11.7973	3.0995	3.0325
ENSG00000138376	BARD1	-2.5127	1.0474	3.4014 24626	10.7607	2.9943	2.9275
ENSG00000152455	SUV39H2	-2.5677	1.0473	3.4014 24626	9.4025	3.1293	3.0626
ENSG00000182289	LOC100128 612	-2.5306	1.0469	3.4014 24626	10.3042	2.6045	2.5383
ENSG00000123240	OPTN	-2.5636	1.0462	3.4014 24626	9.4977	2.9814	2.9162
ENSG00000122952	ZWINT	-2.5218	1.0451	3.4014 24626	10.5264	3.0174	2.9537
ENSG00000179331	RAB39	-2.4650	1.0450	3.4014 24626	12.0473	2.5191	2.4555
ENSG00000108559	NUP88	-2.5671	1.0447	3.4014	9.4153	3.1951	3.1320

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ENSG00000134779	C18orf10	-2.5128	1.0443	24626	10.7573	3.3442	3.2816
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ENSG00000163159	VPS72	-2.4634	1.0443	24626	12.0938	3.2782	3.2157
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ENSG00000072210	ALDH3A2	-2.5036	1.0435	24626	10.9985	3.0594	2.9980
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ENSG00000170734	POLH	-2.4746	1.0432	24626	11.7803	3.1170	3.0559
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ENSG00000082898	XPO1	-2.4613	1.0420	24626	12.1515	3.2185	3.1591
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ENSG00000157212	PAXIP1	-2.5710	1.0418	24626	9.3247	3.0228	2.9638
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ENSG00000112667	C6orf108	-2.4703	1.0408	24626	11.8992	3.2502	3.1924
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ENSG00000123136	DDX39	-2.4661	1.0403	24626	12.0166	3.0380	2.9809
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ENSG00000141030	COPS3	-2.5339	1.0394	24626	10.2203	3.1797	3.1239
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ENSG00000144158	NA	-2.4661	1.0385	24626	12.0168	3.0140	2.9595
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ENSG00000143379	SETDB1	-2.5048	1.0382	24626	10.9659	3.0087	2.9546
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ENSG00000184270	HIST2H2AB	-2.4895	1.0375	24626	11.3739	3.4927	3.4396
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ENSG00000070950	RAD18	-2.4582	1.0375	24626	12.2395	3.0138	2.9607
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ENSG00000213500	NA	-2.4832	1.0371	24626	11.5443	3.0233	2.9707
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ENSG00000124789	NUP153	-2.5477	1.0365	24626	9.8800	3.3450	3.2932
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ENSG00000072501	SMC1A	-2.5548	1.0359	24626	9.7078	3.1804	3.1295
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ENSG00000204392	LSM2	-2.4976	1.0349	24626	11.1555	2.9936	2.9441
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ENSG00000163486	SRGAP2	-2.4792	1.0341	24626	11.6523	3.0884	3.0401
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ENSG00000143321	HDGF	-2.4772	1.0335	24626	11.7078	3.3737	3.3261
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ENSG00000124529	HIST1H4B	-2.4954	1.0333	24626	11.2140	3.1781	3.1308
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ENSG00000112493	TAPBP	-2.4772	1.0325	24626	11.7096	3.3597	3.3135
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ENSG00000108883	EFTUD2	-2.4523	1.0324	24626	12.4079	3.2413	3.1952
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ENSG00000101182	PSMA7	-2.5266	1.0315	24626	10.4043	3.1805	3.1358
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ENSG00000108468	CBX1	-2.4609	1.0314	24626	12.1639	3.1074	3.0627
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ENSG00000100410	PHF5A	-2.5153	1.0310	24626	10.6934	3.0749	3.0309
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ENSG00000117222	RBBP5	-2.5185	1.0308	24626	10.6106	3.0340	2.9902
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ENSG00000069275	NUCKS1	-2.5608	1.0305	24626	9.5648	3.3848	3.3414
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ENSG00000122218	COPA	-2.5188	1.0287	24626	10.6018	3.4604	3.4195
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ENSG00000204220	PFDN6	-2.5550	1.0285	24626	9.7047	3.0178	2.9773
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ENSG00000170191	NANP	-2.4972	1.0281	24626	11.1660	2.8201	2.7802
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ENSG00000149657	LSM14B	-2.5728	1.0271	3.4014 24626	9.2837	3.0059	2.9673
ENSG00000141456	PELP1	-2.4928	1.0266	3.4014 24626	11.2849	2.9821	2.9441
ENSG00000222277	C2orf43	-2.4490	1.0257	3.4014 24626	12.5046	3.0849	3.0482
ENSG00000166426	CRABP1	-2.3825	1.1227	4.5362 01202	14.5320	3.1201	2.9532
ENSG00000179750	APOBEC3B	-2.4416	1.0838	4.5362 01202	12.7188	3.2274	3.1113
ENSG00000184324	CSAG3A	-2.3522	1.0773	4.5362 01202	15.5272	2.7259	2.6185
ENSG00000177054	ZDHC13	-2.3714	1.0707	4.5362 01202	14.8899	3.1421	3.0436
ENSG00000126787	DLG7	-2.3692	1.0706	4.5362 01202	14.9613	2.9721	2.8737
ENSG00000119969	HELLS	-2.4051	1.0676	4.5362 01202	13.8197	2.7340	2.6396
ENSG00000154645	CHODL	-2.4318	1.0656	4.5362 01202	13.0084	2.8137	2.7220
ENSG0000018510	AGPS	-2.3857	1.0641	4.5362 01202	14.4284	2.9779	2.8882
ENSG00000157570	TSPAN18	-2.4074	1.0623	4.5362 01202	13.7478	2.9568	2.8697
ENSG00000168394	TAP1	-2.4463	1.0604	4.5362 01202	12.5825	3.3333	3.2486
ENSG00000172244	C5orf34	-2.4117	1.0586	4.5362 01202	13.6134	2.5862	2.5040
ENSG00000107551	RASSF4	-2.3792	1.0580	4.5362 01202	14.6370	3.0139	2.9326
ENSG00000136824	SMC2	-2.4395	1.0573	4.5362 01202	12.7798	2.9468	2.8664
ENSG00000148019	CEP78	-2.3978	1.0557	4.5362 01202	14.0458	2.8893	2.8110
ENSG00000142731	PLK4	-2.4422	1.0541	4.5362 01202	12.7003	2.7420	2.6660
ENSG00000197275	RAD54B	-2.3594	1.0540	4.5362 01202	15.2856	2.9281	2.8522
ENSG00000066697	TMEFF1	-2.4075	1.0537	4.5362 01202	13.7454	2.8048	2.7293
ENSG00000167088	SNRPD1	-2.4099	1.0525	4.5362 01202	13.6713	2.9348	2.8610
ENSG00000109854	HTATIP2	-2.3585	1.0509	4.5362 01202	15.3162	3.0155	2.9438
ENSG00000092470	WDR76	-2.3682	1.0502	4.5362 01202	14.9948	3.0130	2.9423
ENSG00000131153	GIN52	-2.3687	1.0502	4.5362 01202	14.9792	3.0346	2.9640
ENSG00000204364	C2	-2.3811	1.0501	4.5362 01202	14.5759	3.0244	2.9538
ENSG00000213064	SFT2D2	-2.3919	1.0498	4.5362 01202	14.2307	3.3430	3.2729
ENSG00000164754	RAD21	-2.4164	1.0494	4.5362 01202	13.4711	3.3009	3.2313
ENSG00000068650	ATP11A	-2.4269	1.0488	4.5362 01202	13.1544	2.9800	2.9113
ENSG00000175054	ATR	-2.3856	1.0488	4.5362 01202	14.4317	2.9588	2.8902
ENSG00000162738	VANGL2	-2.3645	1.0486	4.5362 01202	15.1168	2.9802	2.9116
ENSG00000181192	DHTKD1	-2.4084	1.0480	4.5362 01202	13.7171	3.1947	3.1271
ENSG00000196176	HIST1H4A	-2.3735	1.0479	4.5362 01202	14.8215	2.9169	2.8493
ENSG00000163840	DTX3L	-2.3703	1.0473	4.5362 01202	14.9260	3.2292	3.1625
ENSG00000124784	RIOK1	-2.3499	1.0468	4.5362 01202	15.6041	2.9717	2.9057
ENSG00000196866	HIST1H2A M	-2.3670	1.0458	4.5362 01202	15.0361	3.1839	3.1193
ENSG00000143390	RFX5	-2.4465	1.0458	4.5362	12.5765	2.9860	2.9214

				01202			
				4.5362			
ENSG00000196712	NF1	-2.3696	1.0451	01202	14.9491	3.2197	3.1560
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ENSG00000197846	HIST1H2BF	-2.4208	1.0447	01202	13.3385	3.4169	3.3538
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ENSG00000030066	NUP160	-2.4326	1.0440	01202	12.9843	3.0921	3.0299
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ENSG00000107863	ARHGAP21	-2.3780	1.0438	01202	14.6767	3.1764	3.1146
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ENSG00000105011	ASF1B	-2.4192	1.0437	01202	13.3865	3.1135	3.0518
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ENSG00000042493	CAPG	-2.4204	1.0431	01202	13.3489	3.1307	3.0699
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ENSG00000167207	NOD2	-2.3524	1.0426	01202	15.5190	2.8258	2.7656
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ENSG00000176148	TCP11L1	-2.3826	1.0424	01202	14.5281	2.8964	2.8366
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ENSG00000131876	SNRPA1	-2.4298	1.0399	01202	13.0679	3.1186	3.0621
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ENSG00000160766	NA	-2.4166	1.0394	01202	13.4645	3.1713	3.1155
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ENSG00000013810	TACC3	-2.3819	1.0385	01202	14.5491	2.8699	2.8153
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ENSG00000164151	KIAA0947	-2.3685	1.0383	01202	14.9871	2.9817	2.9274
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ENSG00000180385	NA	-2.4270	1.0382	01202	13.1499	2.8210	2.7669
				4.5362			
ENSG00000064995	TAF11	-2.4363	1.0380	01202	12.8742	2.9397	2.8859
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ENSG00000112078	KCTD20	-2.3858	1.0380	01202	14.4270	3.1132	3.0594
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ENSG00000197409	HIST1H3D	-2.3796	1.0380	01202	14.6252	3.4003	3.3465
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ENSG00000165283	STOML2	-2.3878	1.0378	01202	14.3612	3.2752	3.2216
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ENSG00000141127	PRPSAP2	-2.4388	1.0368	01202	12.8002	2.8323	2.7802
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ENSG00000143575	HAX1	-2.4271	1.0364	01202	13.1487	3.1038	3.0522
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ENSG00000010165	KIAA0859	-2.4294	1.0362	01202	13.0785	2.9988	2.9475
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ENSG00000180329	CCDC43	-2.4127	1.0360	01202	13.5840	2.9474	2.8964
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ENSG00000214973	NA	-2.4428	1.0356	01202	12.6852	3.2182	3.1678
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ENSG00000163156	SCNM1	-2.3660	1.0347	01202	15.0662	3.1686	3.1194
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ENSG00000112578	BYSL	-2.4052	1.0346	01202	13.8162	2.9833	2.9342
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ENSG00000065600	TMEM206	-2.3663	1.0341	01202	15.0569	2.9172	2.8688
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ENSG00000106554	CHCHD3	-2.4414	1.0341	01202	12.7247	3.3226	3.2742
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ENSG00000165244	ZNF367	-2.3911	1.0336	01202	14.2580	2.9727	2.9250
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ENSG00000204356	RDBP	-2.4119	1.0332	01202	13.6083	3.1029	3.0557
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ENSG00000125459	MSTO2	-2.4262	1.0326	01202	13.1741	3.0242	2.9779
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ENSG00000159352	PSMD4	-2.3516	1.0320	01202	15.5461	3.3472	3.3019
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ENSG00000171453	POLR1C	-2.3912	1.0316	01202	14.2533	2.9273	2.8824
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ENSG00000112039	FANCE	-2.3907	1.0313	01202	14.2697	2.9787	2.9343
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ENSG00000129250	KIF1C	-2.4409	1.0311	01202	12.7410	3.0441	2.9999
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ENSG00000164610	RP9	-2.3945	1.0311	01202	14.1488	2.7850	2.7408
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ENSG00000114491	UMPS	-2.4024	1.0307	01202	13.9024	3.0299	2.9862

ENSG00000143376	SNX27	-2.3622	1.0304	4.5362	15.1917	3.1829	3.1397
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ENSG00000161692	DBF4B	-2.3888	1.0303	4.5362	14.3314	2.7215	2.6784
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ENSG00000185722	ANKFY1	-2.3995	1.0285	4.5362	13.9926	3.0464	3.0058
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ENSG00000108523	RNF167	-2.3807	1.0284	4.5362	14.5892	3.0961	3.0556
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ENSG00000106290	TAF6	-2.4002	1.0282	4.5362	13.9710	3.0891	3.0489
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ENSG00000214354	NA	-2.4289	1.0280	4.5362	13.0931	2.8334	2.7936
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ENSG00000172301	C17orf79	-2.4182	1.0272	4.5362	13.4172	2.9108	2.8722
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ENSG00000204427	BAT5	-2.3667	1.0266	4.5362	15.0452	3.0437	3.0059
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ENSG00000149503	INCENP	-2.4307	1.0258	4.5362	13.0406	2.9997	2.9630
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ENSG00000171456	ASXL1	-2.3515	1.0252	4.5362	15.5495	3.0736	3.0377
				01202			
ENSG00000204019	CXorf61	-2.2824	1.1288	5.4846	17.9920	2.8820	2.7072
				20627			
ENSG00000203760	C6orf173	-2.3329	1.0791	5.4846	16.1822	2.6490	2.5392
				20627			
ENSG00000121039	RDH10	-2.2927	1.0762	5.4846	17.6113	3.3421	3.2362
				20627			
ENSG00000155380	SLC16A1	-2.2769	1.0711	5.4846	18.1980	3.0572	2.9581
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ENSG00000136010	ALDH1L2	-2.2861	1.0677	5.4846	17.8556	2.9442	2.8497
				20627			
ENSG00000144369	KIAA1946	-2.2781	1.0673	5.4846	18.1499	3.1334	3.0394
				20627			
ENSG00000147874	FAM29A	-2.3306	1.0638	5.4846	16.2636	2.8400	2.7507
				20627			
ENSG00000165480	C13orf3	-2.3350	1.0624	5.4846	16.1099	2.9644	2.8771
				20627			
ENSG00000137812	CASC5	-2.2918	1.0596	5.4846	17.6436	2.9639	2.8804
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ENSG00000156970	BUB1B	-2.3258	1.0595	5.4846	16.4289	3.0362	2.9527
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ENSG00000120647	CCDC77	-2.2974	1.0576	5.4846	17.4404	2.8929	2.8121
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ENSG00000101057	MYBL2	-2.2871	1.0533	5.4846	17.8173	3.2014	3.1265
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ENSG00000206432	NA	-2.2869	1.0530	5.4846	17.8266	2.6986	2.6241
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ENSG00000167315	ACAA2	-2.2641	1.0523	5.4846	18.6780	3.1527	3.0792
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ENSG00000169231	THBS3	-2.3143	1.0518	5.4846	16.8346	2.9750	2.9022
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ENSG00000198056	PRIM1	-2.3449	1.0473	5.4846	15.7716	3.0396	2.9728
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ENSG00000106615	RHEB	-2.3448	1.0464	5.4846	15.7770	3.0877	3.0223
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ENSG00000076003	MCM6	-2.3215	1.0463	5.4846	16.5816	3.0041	2.9387
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ENSG00000101945	SUV39H1	-2.3254	1.0460	5.4846	16.4444	2.7728	2.7078
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ENSG00000058804	TMEM48	-2.3007	1.0450	5.4846	17.3214	3.0957	3.0322
				20627			
ENSG00000184886	PIGW	-2.3088	1.0450	5.4846	17.0303	2.8890	2.8255
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ENSG00000152457	DCLRE1C	-2.2578	1.0428	5.4846	18.9195	2.8725	2.8120
				20627			
ENSG00000183765	CHEK2	-2.2950	1.0426	5.4846	17.5272	2.6669	2.6067
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ENSG00000105185	PDCC5	-2.3276	1.0423	5.4846	16.3669	3.0716	3.0118
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ENSG00000135249	RINT1	-2.2625	1.0421	5.4846	18.7402	2.8607	2.8011
				20627			
ENSG00000177628	GBA	-2.3330	1.0420	5.4846	16.1819	3.2346	3.1752
				20627			

ENSG00000143033	MTF2	-2.2593	1.0400	20627 5.4846	18.8619	3.0570	3.0005
ENSG00000112079	STK38	-2.3066	1.0398	20627 5.4846	17.1078	3.2240	3.1677
ENSG00000082213	C5orf22	-2.2736	1.0390	20627 5.4846	18.3181	3.0800	3.0248
ENSG00000154920	EME1	-2.3362	1.0388	20627 5.4846	16.0716	2.7129	2.6579
ENSG00000178878	APOLD1	-2.2801	1.0381	20627 5.4846	18.0757	3.0103	2.9564
ENSG00000206560	ANKRD28	-2.2986	1.0376	20627 5.4846	17.3977	3.1293	3.0761
ENSG00000135763	KIAA0133	-2.3087	1.0375	20627 5.4846	17.0337	2.9536	2.9004
ENSG00000111445	RFC5	-2.2612	1.0375	20627 5.4846	18.7873	2.9399	2.8868
ENSG00000132646	PCNA	-2.3045	1.0373	20627 5.4846	17.1833	3.0572	3.0044
ENSG00000153207	AHCTF1P	-2.2995	1.0372	20627 5.4846	17.3637	3.1638	3.1112
ENSG00000143314	MRPL24	-2.3354	1.0366	20627 5.4846	16.0969	3.0852	3.0333
ENSG00000075407	ZNF37A	-2.2949	1.0354	20627 5.4846	17.5313	2.9314	2.8812
ENSG00000124541	C6orf153	-2.2925	1.0351	20627 5.4846	17.6212	3.0623	3.0126
ENSG00000159055	C21orf45	-2.3435	1.0341	20627 5.4846	15.8189	3.0702	3.0218
ENSG00000163382	APOA1BP	-2.2996	1.0340	20627 5.4846	17.3598	3.2970	3.2488
ENSG00000133065	SLC41A1	-2.3236	1.0337	20627 5.4846	16.5087	3.0922	3.0444
ENSG00000132589	FLOT2	-2.3233	1.0337	20627 5.4846	16.5190	3.1165	3.0687
ENSG00000137420	NOL7	-2.2746	1.0334	20627 5.4846	18.2813	3.0418	2.9943
ENSG00000204763	NA	-2.3224	1.0332	20627 5.4846	16.5505	2.9462	2.8991
ENSG00000214035	NA	-2.3300	1.0332	20627 5.4846	16.2842	2.4236	2.3765
ENSG00000135476	ESPL1	-2.2626	1.0330	20627 5.4846	18.7348	2.8376	2.7907
ENSG00000081721	DUSP12	-2.3074	1.0329	20627 5.4846	17.0802	3.0145	2.9678
ENSG00000133028	SCO1	-2.2941	1.0329	20627 5.4846	17.5625	2.9854	2.9387
ENSG00000132694	ARHGEF11	-2.2803	1.0325	20627 5.4846	18.0683	3.0225	2.9764
ENSG00000172336	POP7	-2.2884	1.0317	20627 5.4846	17.7698	3.1092	3.0642
ENSG00000106344	RBM28	-2.2643	1.0317	20627 5.4846	18.6689	2.9303	2.8853
ENSG00000102900	NUP93	-2.2758	1.0316	20627 5.4846	18.2384	3.2409	3.1960
ENSG00000160299	PCNT	-2.2862	1.0305	20627 5.4846	17.8510	2.8722	2.8288
ENSG00000113456	RAD1	-2.3048	1.0287	20627 5.4846	17.1727	2.8953	2.8545
ENSG00000132382	MYBBP1A	-2.2656	1.0278	20627 5.4846	18.6205	3.0330	2.9934
ENSG00000143543	JTB	-2.2937	1.0277	20627 5.4846	17.5766	3.2253	3.1859
ENSG00000171161	ZNF672	-2.2593	1.0272	20627 5.4846	18.8595	3.0685	3.0297
ENSG00000101346	POFUT1	-2.2983	1.0272	20627 5.4846	17.4076	2.9428	2.9040
ENSG00000214637	NA	-2.2887	1.0261	20627 5.4846	17.7577	2.7923	2.7551
ENSG00000009954	BAZ1B	-2.2879	1.0258	20627	17.7899	3.1568	3.1200

ENSG00000185379	RAD51L3	-2.3044	1.0248	5.4846 20627	17.1887	2.9503	2.9149
ENSG00000096080	MRPS18A	-2.3465	1.0246	5.4846 20627	15.7196	3.2385	3.2034
ENSG00000204560	DHX16	-2.2828	1.0237	5.4846 20627	17.9775	2.9735	2.9397
ENSG00000047579	DTNBP1	-2.3008	1.0224	5.4846 20627	17.3195	2.8928	2.8608
ENSG00000091527	CDV3	-2.3332	1.0212	5.4846 20627	16.1740	3.4147	3.3845
ENSG00000185686	PRAME	-2.2156	1.1031	6.8129 90353	20.5815	2.8644	2.7229
ENSG00000133863	TEX15	-2.2142	1.0914	6.8129 90353	20.6380	2.3852	2.2589
ENSG00000077935	SMC1B	-2.1881	1.0764	6.8129 90353	21.7132	2.4596	2.3534
ENSG00000165490	C11orf82	-2.2474	1.0719	6.8129 90353	19.3215	2.8314	2.7311
ENSG00000138182	MPHOSPH1	-2.2034	1.0686	6.8129 90353	21.0797	2.7364	2.6407
ENSG00000178460	C8orf45	-2.2018	1.0611	6.8129 90353	21.1455	2.6192	2.5337
ENSG00000101347	SAMHD1	-2.1736	1.0595	6.8129 90353	22.3266	3.1913	3.1079
ENSG00000104369	JPH1	-2.1827	1.0590	6.8129 90353	21.9405	2.8978	2.8151
ENSG00000163531	NFASC	-2.2118	1.0589	6.8129 90353	20.7350	2.8478	2.7653
ENSG00000204261	PSMB9	-2.2347	1.0564	6.8129 90353	19.8177	3.0197	2.9406
ENSG00000109881	CCDC34	-2.1818	1.0530	6.8129 90353	21.9782	2.8805	2.8061
ENSG00000138035	PNPT1	-2.1791	1.0504	6.8129 90353	22.0917	2.9881	2.9171
ENSG00000143514	TP53BP2	-2.2346	1.0488	6.8129 90353	19.8229	3.1198	3.0511
ENSG00000166123	GPT2	-2.2275	1.0475	6.8129 90353	20.1046	2.9550	2.8880
ENSG00000164466	SFXN1	-2.2475	1.0473	6.8129 90353	19.3146	3.1355	3.0688
ENSG00000156787	WDR67	-2.2253	1.0473	6.8129 90353	20.1892	2.7373	2.6707
ENSG00000175319	NA	-2.1984	1.0465	6.8129 90353	21.2825	3.3065	3.2409
ENSG00000165609	NUDT5	-2.2334	1.0464	6.8129 90353	19.8685	3.0278	2.9624
ENSG00000125347	IRF1	-2.2324	1.0458	6.8129 90353	19.9070	3.0066	2.9420
ENSG00000115758	ODC1	-2.2488	1.0448	6.8129 90353	19.2666	3.2503	3.1870
ENSG00000108423	TUBD1	-2.1928	1.0446	6.8129 90353	21.5153	2.8071	2.7441
ENSG00000109084	TMEM97	-2.2154	1.0446	6.8129 90353	20.5876	3.1566	3.0937
ENSG00000167695	FAM57A	-2.1935	1.0436	6.8129 90353	21.4877	3.1274	3.0658
ENSG00000143494	VASH2	-2.2136	1.0424	6.8129 90353	20.6636	3.0063	2.9464
ENSG00000108352	RAPGEFL1	-2.2478	1.0422	6.8129 90353	19.3054	2.6995	2.6398
ENSG00000167840	ZNF232	-2.2080	1.0408	6.8129 90353	20.8907	2.7982	2.7404
ENSG00000137404	NRM	-2.2021	1.0395	6.8129 90353	21.1300	2.9025	2.8466
ENSG00000043514	TRIT1	-2.2066	1.0386	6.8129 90353	20.9476	3.0452	2.9905
ENSG00000144395	CCDC150	-2.2033	1.0386	6.8129 90353	21.0817	2.4365	2.3818
ENSG00000103187	COTL1	-2.2472	1.0384	6.8129 90353	19.3279	3.2058	3.1515
ENSG00000014138	POLA2	-2.2460	1.0377	6.8129	19.3734	2.8540	2.8006

ENSG00000137055	PLAA	-2.2184	1.0370	90353 6.8129	20.4673	3.1003	3.0479
ENSG00000136643	RPS6KC1	-2.1743	1.0365	90353 6.8129	22.2968	3.0063	2.9546
ENSG00000178691	SUZ12	-2.2513	1.0356	90353 6.8129	19.1683	3.2475	3.1970
ENSG00000185798	WDR53	-2.2098	1.0354	90353 6.8129	20.8161	2.8214	2.7711
ENSG00000119403	PHF19	-2.1877	1.0339	90353 6.8129	21.7295	2.9606	2.9125
ENSG00000037474	NSUN2	-2.2196	1.0339	90353 6.8129	20.4191	3.1518	3.1037
ENSG00000160767	C1orf2	-2.1884	1.0335	90353 6.8129	21.6980	3.1055	3.0580
ENSG00000108264	TADA2L	-2.2020	1.0334	90353 6.8129	21.1347	2.8795	2.8320
ENSG00000147121	ZNF673	-2.1799	1.0334	90353 6.8129	22.0556	2.9257	2.8784
ENSG00000049656	CLPTM1L	-2.2266	1.0328	90353 6.8129	20.1388	3.1655	3.1190
ENSG00000096063	SRPK1	-2.1957	1.0327	90353 6.8129	21.3970	3.2154	3.1689
ENSG00000137135	C9orf100	-2.1955	1.0325	90353 6.8129	21.4041	2.8678	2.8216
ENSG00000113552	GNPDA1	-2.2532	1.0323	90353 6.8129	19.0951	2.9407	2.8948
ENSG00000049541	RFC2	-2.2114	1.0320	90353 6.8129	20.7529	3.1456	3.1000
ENSG00000143799	PARP1	-2.2246	1.0320	90353	20.2191	3.1029	3.0575
ENSG00000183558.ENS SG00000184678	HIST2H2AA 3,HIST2H2B E	-2.2418	1.0319	6.8129 90353	19.5378	3.2837	3.2384
ENSG00000168275	C1orf31	-2.2007	1.0314	6.8129 90353	21.1894	2.8259	2.7813
ENSG00000130227	XPO7	-2.2377	1.0311	6.8129 90353	19.6999	3.2311	3.1869
ENSG00000160785	SLC25A44	-2.2014	1.0311	6.8129 90353	21.1585	3.1020	3.0577
ENSG00000117411	B4GALT2	-2.2264	1.0307	6.8129 90353	20.1461	3.2423	3.1986
ENSG00000160220	PWP2	-2.2315	1.0306	6.8129 90353	19.9419	2.9483	2.9048
ENSG00000204576	PRR3	-2.1934	1.0297	6.8129 90353	21.4906	2.9361	2.8938
ENSG00000117362	APH1A	-2.2358	1.0293	6.8129 90353	19.7748	3.2928	3.2512
ENSG00000162613	FUBP1	-2.2517	1.0292	6.8129 90353	19.1533	3.2886	3.2470
ENSG00000213650	NA	-2.2356	1.0284	6.8129 90353	19.7801	3.2331	3.1927
ENSG00000124523	SIRT5	-2.1830	1.0279	6.8129 90353	21.9275	2.8588	2.8191
ENSG00000106244	PDAP1	-2.2118	1.0271	6.8129 90353	20.7351	2.9829	2.9443
ENSG00000213387	NA	-2.1782	1.0270	6.8129 90353	22.1281	3.0296	2.9912
ENSG00000108953	YWHAE	-2.2365	1.0258	6.8129 90353	19.7449	3.4968	3.4600
ENSG00000143437	ARNT	-2.2387	1.0256	6.8129 90353	19.6592	3.1991	3.1627
ENSG00000079616	KIF22	-2.2391	1.0249	6.8129 90353	19.6430	3.1263	3.0908
ENSG00000143093	FAM40A	-2.2425	1.0240	6.8129 90353	19.5092	2.9477	2.9135
ENSG00000197451	HNRNPAB	-2.2160	1.0226	6.8129 90353	20.5655	3.3938	3.3615
ENSG00000214253	FIS1	-2.2350	1.0226	6.8129 90353	19.8049	3.0613	3.0290
ENSG00000196369	NA	-2.2349	1.0213	6.8129	19.8084	3.3437	3.3132



ENSG00000139088	LOC728715	-2.1181	1.1422	90353 8.2808 79006	24.7676	2.7883	2.5965
ENSG00000204805	FAM27E3	-2.1010	1.0671	8.2808 79006	25.5514	2.9310	2.8373
ENSG00000175250	NA	-2.1398	1.0669	8.2808 79006	23.7956	2.4791	2.3857
ENSG00000169679	BUB1	-2.1629	1.0646	8.2808 79006	22.7822	3.0878	2.9976
ENSG00000139734	DIAPH3	-2.1353	1.0621	8.2808 79006	23.9954	2.7813	2.6943
ENSG00000149554	CHEK1	-2.1533	1.0557	8.2808 79006	23.2009	3.0592	2.9810
ENSG00000075643	MOCOS	-2.1064	1.0524	8.2808 79006	25.3027	2.8325	2.7589
ENSG00000040275	CCDC99	-2.1528	1.0520	8.2808 79006	23.2208	2.9360	2.8628
ENSG00000127252	HRASLS	-2.1348	1.0481	8.2808 79006	24.0156	2.7583	2.6906
ENSG00000120526	NUDCD1	-2.1102	1.0474	8.2808 79006	25.1314	3.0474	2.9806
ENSG00000158373	HIST2H3PS 2	-2.1378	1.0461	8.2808 79006	23.8834	3.1495	3.0845
ENSG00000175697	GPR156	-2.1241	1.0456	8.2808 79006	24.4978	2.6767	2.6123
ENSG00000162664	ZNF326	-2.1565	1.0444	8.2808 79006	23.0626	2.8836	2.8208
ENSG00000072756	TRNT1	-2.1603	1.0443	8.2808 79006	22.8970	2.7735	2.7110
ENSG00000162639	C1orf59	-2.1225	1.0436	8.2808 79006	24.5702	2.7128	2.6513
ENSG00000124787	RPP40	-2.1084	1.0429	8.2808 79006	25.2131	2.8938	2.8332
ENSG00000175324	LSM1	-2.1223	1.0417	8.2808 79006	24.5788	3.0410	2.9821
ENSG00000118007	STAG1	-2.1518	1.0409	8.2808 79006	23.2663	2.8903	2.8324
ENSG00000167323	STIM1	-2.1275	1.0370	8.2808 79006	24.3448	3.0932	3.0408
ENSG00000138031	ADCY3	-2.1069	1.0368	8.2808 79006	25.2827	3.0516	2.9995
ENSG00000158220	FAM62C	-2.1643	1.0360	8.2808 79006	22.7252	2.7293	2.6783
ENSG00000197579	TOPORS	-2.1025	1.0347	8.2808 79006	25.4853	2.8354	2.7862
ENSG00000023902	PLEKHO1	-2.1339	1.0347	8.2808 79006	24.0550	2.9007	2.8515
ENSG00000159131	GART	-2.1253	1.0339	8.2808 79006	24.4435	3.1381	3.0900
ENSG00000162402	USP24	-2.1406	1.0338	8.2808 79006	23.7572	3.1117	3.0638
ENSG00000155660	PDIA4	-2.1621	1.0320	8.2808 79006	22.8177	3.3038	3.2583
ENSG00000153395	LPCAT1	-2.1509	1.0319	8.2808 79006	23.3065	3.1214	3.0761
ENSG00000135636	DYSF	-2.1287	1.0319	8.2808 79006	24.2916	2.8850	2.8398
ENSG00000108270	AATF	-2.1685	1.0318	8.2808 79006	22.5446	3.1258	3.0807
ENSG00000002549	LAP3	-2.1182	1.0315	8.2808 79006	24.7655	3.1954	3.1506
ENSG00000137210	TMEM14D	-2.1374	1.0314	8.2808 79006	23.9022	3.5013	3.4567
ENSG00000088305	DNMT3B	-2.1670	1.0312	8.2808 79006	22.6081	2.8020	2.7576
ENSG00000141034	C17orf39	-2.1530	1.0312	8.2808 79006	23.2123	2.8655	2.8211
ENSG00000095794	CREM	-2.1359	1.0309	8.2808 79006	23.9672	2.5894	2.5456
ENSG00000104889	RNASEH2A	-2.1493	1.0307	8.2808 79006	23.3755	3.1118	3.0682

ENSG00000134697	GNL2	-2.1578	1.0304	8.2808 79006	23.0051	3.2199	3.1767
ENSG00000187988	NA	-2.1645	1.0303	8.2808 79006	22.7157	2.4211	2.3781
ENSG00000122692	SMU1	-2.1238	1.0301	8.2808 79006	24.5122	3.2089	3.1661
ENSG00000167699	GLOD4	-2.1513	1.0294	8.2808 79006	23.2867	2.9140	2.8721
ENSG00000055130	CUL1	-2.1082	1.0294	8.2808 79006	25.2224	3.2331	3.1913
ENSG00000175166	PSMD2	-2.1396	1.0285	8.2808 79006	23.8016	3.2835	3.2430
ENSG00000070785	EIF2B3	-2.1423	1.0267	8.2808 79006	23.6856	2.9228	2.8848
ENSG00000127399	LRRCC1	-2.1163	1.0265	8.2808 79006	24.8519	2.9635	2.9257
ENSG00000178502	KLHL11	-2.1612	1.0265	8.2808 79006	22.8574	3.0926	3.0549
ENSG00000160392	C19orf47	-2.1408	1.0264	8.2808 79006	23.7483	2.9152	2.8776
ENSG00000023330	ALAS1	-2.1446	1.0260	8.2808 79006	23.5833	3.0459	3.0089
ENSG00000213222	NA	-2.1628	1.0252	8.2808 79006	22.7890	3.1064	3.0705
ENSG00000153574	RPIA	-2.1028	1.0250	8.2808 79006	25.4691	2.9432	2.9076
ENSG00000204371	EHMT2	-2.1217	1.0242	8.2808 79006	24.6034	3.0433	3.0089
ENSG00000004975	DVL2	-2.1226	1.0234	8.2808 79006	24.5640	2.9242	2.8908
ENSG00000070814	TCOF1	-2.1334	1.0230	8.2808 79006	24.0793	2.9753	2.9425
ENSG00000163463	KRTCAP2	-2.1648	1.0220	8.2808 79006	22.7034	3.3555	3.3241
ENSG00000131203	INDO	-2.0318	1.1201	9.8257 67704	28.8854	3.0524	2.8888
ENSG00000137959	IFI44L	-2.0397	1.0833	9.8257 67704	28.4898	3.3473	3.2318
ENSG00000073792	IGF2BP2	-2.0496	1.0753	9.8257 67704	28.0041	2.8413	2.7366
ENSG00000174607	UGT8	-2.0246	1.0740	9.8257 67704	29.2452	2.8792	2.7762
ENSG00000102098	SCML2	-2.0835	1.0702	9.8257 67704	26.3718	2.6376	2.5397
ENSG00000111716	LDHB	-2.0186	1.0630	9.8257 67704	29.5467	3.2923	3.2041
ENSG00000162645	GBP2	-2.0383	1.0623	9.8257 67704	28.5588	3.1002	3.0131
ENSG00000130294	KIF1A	-2.0526	1.0617	9.8257 67704	27.8544	2.9587	2.8723
ENSG00000121316	PLBD1	-2.0674	1.0606	9.8257 67704	27.1397	3.0501	2.9652
ENSG00000095209	TMEM38B	-2.0151	1.0604	9.8257 67704	29.7237	2.7033	2.6186
ENSG00000039560	RAI14	-2.0557	1.0575	9.8257 67704	27.7058	3.1245	3.0439
ENSG00000198903	NA	-2.0426	1.0566	9.8257 67704	28.3486	2.7797	2.7003
ENSG00000133739	LRRCC1	-2.0620	1.0553	9.8257 67704	27.4009	3.0051	2.9275
ENSG00000008517	IL32	-2.0523	1.0543	9.8257 67704	27.8715	3.2156	3.1392
ENSG00000165704	HPRT1	-2.0764	1.0481	9.8257 67704	26.7106	3.0135	2.9458
ENSG00000137804	NUSAP1	-2.0981	1.0479	9.8257 67704	25.6878	3.1604	3.0930
ENSG00000178966	RMI1	-2.0414	1.0446	9.8257 67704	28.4043	2.8073	2.7443
ENSG00000112029	FBXO5	-2.0301	1.0444	9.8257 67704	28.9692	2.9427	2.8800
ENSG00000099810	MTAP	-2.0575	1.0444	9.8257	27.6195	2.9653	2.9027

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ENSG00000178187	ZNF454	-2.0216	1.0440	67704	29.3969	2.8423	2.7802
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ENSG00000103995	CEP152	-2.0164	1.0438	67704	29.6559	2.6281	2.5663
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ENSG00000075131	TIPIN	-2.0506	1.0431	67704	27.9531	2.7433	2.6823
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ENSG00000116990	MYCL1	-2.0181	1.0428	67704	29.5726	2.7651	2.7046
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ENSG00000108666	C17orf75	-2.0703	1.0422	67704	26.9988	2.8054	2.7458
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ENSG00000082212	ME2	-2.0681	1.0420	67704	27.1040	3.1903	3.1309
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ENSG00000128059	PPAT	-2.0743	1.0415	67704	26.8070	2.9651	2.9065
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ENSG00000178295	GEN1	-2.0761	1.0410	67704	26.7220	2.9567	2.8987
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ENSG00000165138	ANKS6	-2.0822	1.0395	67704	26.4334	2.8790	2.8232
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ENSG00000049449	RCN1	-2.0759	1.0388	67704	26.7306	3.2621	3.2071
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ENSG00000109790	KLHL5	-2.0746	1.0385	67704	26.7944	2.9176	2.8632
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ENSG00000162769	FLVCR1	-2.0927	1.0382	67704	25.9392	2.9506	2.8966
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ENSG00000085491	SLC25A24	-2.0326	1.0379	67704	28.8433	2.9850	2.9313
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ENSG00000154999	MRPS17	-2.0311	1.0378	67704	28.9184	2.9238	2.8702
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ENSG00000105821	ZRF1	-2.0520	1.0371	67704	27.8848	2.9704	2.9179
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ENSG00000187522	HSPA14	-2.0523	1.0361	67704	27.8689	2.9100	2.8588
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ENSG00000188740	NBPF5	-2.0691	1.0357	67704	27.0583	2.5452	2.4945
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ENSG00000108389	MTMR4	-2.0494	1.0356	67704	28.0150	3.1757	3.1252
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ENSG00000171492	LRRC8D	-2.0196	1.0356	67704	29.4948	3.2248	3.1744
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ENSG00000117036	ETV3	-2.0293	1.0346	67704	29.0091	3.2121	3.1630
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ENSG00000096401	CDC5L	-2.0259	1.0344	67704	29.1769	3.1717	3.1230
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ENSG00000108395	TRIM37	-2.0331	1.0343	67704	28.8161	3.0139	2.9651
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ENSG00000143179	UCK2	-2.0943	1.0340	67704	25.8645	3.2900	3.2418
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ENSG00000163714	U2SURP	-2.0338	1.0338	67704	28.7828	3.1296	3.0816
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ENSG00000143106	PSMA5	-2.0807	1.0338	67704	26.5046	3.0446	2.9966
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ENSG00000143643	TTC13	-2.0553	1.0335	67704	27.7258	2.9989	2.9513
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ENSG00000108561	C1QBP	-2.0299	1.0335	67704	28.9778	3.1744	3.1269
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ENSG00000182973	CNOT10	-2.0882	1.0334	67704	26.1510	2.8817	2.8343
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ENSG00000142528	ZNF473	-2.0469	1.0331	67704	28.1368	2.9035	2.8565
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ENSG00000203761	NA	-2.0770	1.0331	67704	26.6812	3.1253	3.0783
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ENSG00000175595	ERCC4	-2.0986	1.0330	67704	25.6639	2.8877	2.8409
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ENSG00000159208	C1orf51	-2.0336	1.0323	67704	28.7953	3.0978	3.0520
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ENSG00000123374	CDK2	-2.0921	1.0318	67704	25.9657	3.0415	2.9963
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ENSG00000164221	CCDC112	-2.0344	1.0317	67704	28.7517	2.6604	2.6153
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ENSG00000113460	BXDC2	-2.0183	1.0315	67704	29.5600	3.0130	2.9682

ENSG00000160688	FLAD1	-2.0946	1.0315	9.8257 67704	25.8511	2.9348	2.8901
ENSG00000213727	NA	-2.0758	1.0307	9.8257 67704	26.7352	2.9902	2.9466
ENSG00000108344	PSMD3	-2.0818	1.0304	9.8257 67704	26.4527	3.1966	3.1533
ENSG00000114416	FXR1	-2.0275	1.0304	9.8257 67704	29.0999	3.2425	3.1994
ENSG00000064419	TNPO3	-2.0250	1.0297	9.8257 67704	29.2239	3.1723	3.1301
ENSG00000007168	PAFAH1B1	-2.0191	1.0294	9.8257 67704	29.5223	3.1739	3.1321
ENSG00000160193	WDR4	-2.0757	1.0291	9.8257 67704	26.7437	2.9032	2.8618
ENSG00000163125	KIAA0460	-2.0910	1.0290	9.8257 67704	26.0177	3.1908	3.1496
ENSG00000100142	POLR2F	-2.0144	1.0288	9.8257 67704	29.7591	3.1952	3.1542
ENSG00000143624	INTS3	-2.0814	1.0287	9.8257 67704	26.4700	3.1873	3.1465
ENSG00000145990	GFOD1	-2.0991	1.0286	9.8257 67704	25.6396	2.8221	2.7814
ENSG00000008838	MED24	-2.0201	1.0279	9.8257 67704	29.4687	3.0948	3.0552
ENSG00000151576	QTRTD1	-2.0307	1.0273	9.8257 67704	28.9389	2.9440	2.9052
ENSG00000108591	DRG2	-2.0751	1.0272	9.8257 67704	26.7732	3.0674	3.0286
ENSG00000197771	C10orf119	-2.0264	1.0271	9.8257 67704	29.1554	3.2025	3.1639
ENSG00000185130	HIST1H2BL	-2.0732	1.0268	9.8257 67704	26.8602	3.3291	3.2910
ENSG00000138231	DBR1	-2.0514	1.0266	9.8257 67704	27.9159	2.6602	2.6223
ENSG00000204348	DOM3Z	-2.0221	1.0266	9.8257 67704	29.3690	2.9542	2.9163
ENSG00000137074	APTX	-2.0941	1.0266	9.8257 67704	25.8735	2.8884	2.8506
ENSG00000138111	TMEM180	-2.0954	1.0265	9.8257 67704	25.8152	2.9763	2.9385
ENSG00000116521	SCAMP3	-2.0238	1.0262	9.8257 67704	29.2826	3.1489	3.1116
ENSG00000176619	LMNB2	-2.0518	1.0261	9.8257 67704	27.8974	3.2272	3.1901
ENSG00000141452	C18orf8	-2.0805	1.0260	9.8257 67704	26.5149	2.9973	2.9603
ENSG00000196998	WDR45	-2.0189	1.0255	9.8257 67704	29.5320	3.0791	3.0428
ENSG00000198055	GRK6	-2.0532	1.0241	9.8257 67704	27.8289	2.9958	2.9615
ENSG00000143641	GALNT2	-2.0552	1.0238	9.8257 67704	27.7298	3.1906	3.1566
ENSG00000137409	MTCH1	-2.0470	1.0234	9.8257 67704	28.1320	3.3219	3.2885
ENSG00000143420	ENSA	-2.0530	1.0234	9.8257 67704	27.8365	3.1468	3.1134
ENSG00000180573	HIST1H2AC	-2.0273	1.0232	9.8257 67704	29.1104	3.1738	3.1408
ENSG00000110536	PTPMT1	-2.0246	1.0231	9.8257 67704	29.2467	3.1028	3.0698
ENSG00000172661	FAM21D	-2.0309	1.0231	9.8257 67704	28.9305	3.1384	3.1055
ENSG00000115241	PPM1G	-2.0361	1.0229	9.8257 67704	28.6708	3.1225	3.0899
ENSG00000160679	C1orf77	-2.0172	1.0227	9.8257 67704	29.6156	3.1934	3.1610
ENSG00000184634	MED12	-2.0418	1.0226	9.8257 67704	28.3856	3.1546	3.1223
ENSG00000134262	AP4B1	-2.0428	1.0226	9.8257 67704	28.3371	2.9133	2.8811
ENSG00000131899	LLGL1	-2.0761	1.0218	9.8257	26.7234	2.9086	2.8775

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ENSG00000108840	HDAC5	-2.0322	1.0212	67704	28.8652	3.0508	3.0205
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ENSG00000062822	POLD1	-2.0392	1.0190	67704	28.5152	2.9858	2.9587
				9.8257			
ENSG00000196230	TUBB	-2.0617	1.0167	67704	27.4165	3.4934	3.4695

\*Ordered by fold change

¶Only genes with  $q < 0.1$  are shown

## Supplementary Table S3: Sheet 4

HiAicNA-HiCnLOH METABRIC

Gene ID	Gene Name	score.d	Fold.change	q.value	local.fdr	Log2 HiAicNA/HiC nLOH. expression	Log2 LoSCIN S. expression
ENSG00000065371	ROPN1	2.7626	1.1418	1.5419	5.0653	3.0788	2.8875
ENSG00000242265	PEG10	3.9479	1.1403	0.0000	0.0000	2.8544	2.6651
ENSG00000114547	ROPN1B	2.8178	1.1364	1.0024	4.1646	3.0296	2.8451
ENSG00000114547	ROPN1B	2.9587	1.1303	0.7128	2.3176	2.9459	2.7692
ENSG00000102854	MSLN	1.9965	1.1293	9.4316	30.0904	3.0562	2.8808
<b>ENSG00000143452</b>	<b>HORMAD1</b>	<b>3.9886</b>	<b>1.1282</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.8160</b>	<b>2.6419</b>
ENSG00000156219	ART3	2.5029	1.1273	2.6800	10.8296	2.9959	2.8231
ENSG00000144354	CDCA7	3.9031	1.1248	0.0000	0.0000	3.1394	2.9696
ENSG00000160200	CBS	3.7086	1.1232	0.0000	0.0000	3.1111	2.9434
ENSG00000205002	AARD	2.7780	1.1201	1.0024	4.8028	2.9518	2.7883
NA	LOC728715	2.9071	1.1198	0.7128	2.9241	3.1200	2.9567
ENSG00000166426	CRABP1	2.0777	1.1188	7.5285	26.3295	3.0273	2.8653
ENSG00000131747	TOP2A	4.8685	1.1173	0.0000	0.1178	3.2940	3.1339
ENSG00000077152	UBE2T	5.0646	1.1134	0.0000	0.1771	3.1109	2.9560
ENSG00000186832	KRT16	2.5036	1.1122	2.6800	10.8117	3.0134	2.8599
ENSG00000101447	FAM83D	4.9864	1.1118	0.0000	0.1555	2.9544	2.8016
ENSG00000164109	MAD2L1	4.4725	1.1065	0.0000	0.0000	3.1251	2.9790
ENSG00000102243	VGLL1	2.5040	1.1064	2.6800	10.7998	3.0488	2.9030
ENSG00000005513	SOX8	2.4384	1.1061	2.6800	12.6901	2.9373	2.7917
ENSG00000154040	CABYR	3.9590	1.1001	0.0000	0.0000	2.9370	2.7994
ENSG00000178999	AURKB	4.3001	1.0998	0.0000	0.0000	3.0591	2.9218
ENSG00000163017	ACTG2	2.0322	1.0994	9.4316	28.4111	3.3547	3.2180
ENSG00000134873	CLDN10	2.4194	1.0993	3.5713	13.2728	2.6618	2.5253
ENSG00000111247	RAD51AP1	3.8207	1.0992	0.0000	0.0000	3.0567	2.9202
ENSG00000066279	ASPM	4.1171	1.0987	0.0000	0.0000	3.1135	2.9777
ENSG00000181143	MUC16	2.3245	1.0971	4.6164	16.4109	2.8781	2.7444
ENSG00000071539	TRIP13	4.0850	1.0970	0.0000	0.0000	3.0946	2.9611
ENSG00000128422	KRT17	2.2070	1.0965	6.0330	20.8266	3.2767	3.1438
ENSG00000175063	UBE2C	3.9020	1.0962	0.0000	0.0000	3.3210	3.1885
c(ENSG00000110347", "ENSG00000262406")	MMP12	2.4717	1.0960	2.6800	11.7083	2.8924	2.7602
ENSG00000175063	UBE2C	3.9670	1.0945	0.0000	0.0000	3.4017	3.2714
ENSG00000214822	KRT16P3	2.1671	1.0944	6.0330	22.4556	2.9823	2.8521

ENSG00000165304	MELK	3.8719	1.0936	0.0000	0.000	0	3.1712	3.0421
ENSG00000065328	MCM10	4.0428	1.0934	0.0000	0.000	0	3.0084	2.8795
ENSG00000162738	VANGL2	2.7302	1.0920	1.5419	5.643	0	3.0670	2.9400
ENSG00000137807	KIF23	4.8480	1.0905	0.0000	0.110	4	2.9075	2.7824
ENSG00000104332	SFRP1	2.1343	1.0902	7.5285	23.84	47	3.3467	3.2222
c(\ENSG00000188763\", \"ENSG00000263254\")	FZD9	2.4212	1.0901	3.5713	13.21	77	2.8944	2.7699
ENSG00000138180	CEP55	4.4862	1.0900	0.0000	0.000	0	3.0639	2.9396
ENSG00000121039	RDH10	2.9822	1.0898	0.7128	2.065	8	3.1524	3.0284
ENSG00000198729	PPP1R14C	2.4414	1.0897	2.6800	12.59	95	2.9238	2.7999
ENSG00000100473	COCH	2.8524	1.0895	1.0024	3.653	3	2.7648	2.6411
ENSG00000111206	FOXM1	3.4241	1.0885	0.2831	0.000	0	2.9449	2.8225
ENSG00000174371	EXO1	4.2170	1.0875	0.0000	0.000	0	3.0113	2.8902
ENSG00000189171	S100A13	2.5393	1.0873	2.6800	9.858	0	2.8970	2.7762
ENSG00000088325	TPX2	3.7676	1.0866	0.0000	0.000	0	3.0184	2.8985
ENSG00000087510	TFAP2C	4.1473	1.0864	0.0000	0.000	0	3.1230	3.0034
ENSG00000176890	TYMS	3.8030	1.0863	0.0000	0.000	0	3.2127	3.0933
c(\ENSG00000158427\", \"ENSG00000158164\")	TMSB15B	3.1241	1.0863	0.3673	0.851	9	3.0560	2.9366
ENSG00000174607	UGT8	3.1691	1.0859	0.3673	0.563	8	2.7472	2.6283
ENSG00000173207	CKS1B	5.3296	1.0858	0.0000	0.239	4	3.4897	3.3709
ENSG00000129195	FAM64A	4.1764	1.0857	0.0000	0.000	0	2.8979	2.7792
ENSG00000186832	KRT16	2.5288	1.0857	2.6800	10.13	32	2.8679	2.7494
ENSG00000152284	TCF7L1	4.1058	1.0857	0.0000	0.000	0	2.8021	2.6836
ENSG00000134690	CDCA8	4.0881	1.0853	0.0000	0.000	0	3.0051	2.8870
ENSG00000198901	PRC1	4.4121	1.0851	0.0000	0.000	0	3.2907	3.1730
c(\ENSG00000158427\", \"ENSG00000158164\")	TMSB15B	3.0370	1.0844	0.4527	1.538	5	3.0489	2.9320
ENSG00000112742	TTK	3.6804	1.0837	0.0000	0.000	0	3.0166	2.9007
ENSG00000165304	MELK	3.4860	1.0833	0.0000	0.000	0	3.0230	2.9077
ENSG00000111665	CDCA3	3.3247	1.0827	0.2831	0.000	0	2.9883	2.8736
ENSG00000214822	KRT16P3	2.0302	1.0826	9.4316	28.50	31	3.0019	2.8873
ENSG00000196503	ARL9	2.4202	1.0826	3.5713	13.24	58	2.8895	2.7750
ENSG00000205358	MT1H	2.5628	1.0826	1.9419	9.261	1	2.9203	2.8058
ENSG00000169245	CXCL10	2.4662	1.0826	2.6800	11.86	63	3.4393	3.3248
ENSG00000019169	MARCO	2.1263	1.0826	7.5285	24.18	76	2.8176	2.7031
ENSG00000166582	CENPV	2.9159	1.0825	0.7128	2.814	3	3.0394	2.9250
ENSG00000115112	TFCP2L1	2.2580	1.0825	4.6164	18.83	97	2.9352	2.8208
ENSG00000169679	BUB1	4.0243	1.0823	0.0000	0.000	0	2.9679	2.8538
ENSG00000166803	KIAA0101	4.3205	1.0816	0.0000	0.000	0	3.2256	3.1124
ENSG00000164611	PTTG1	4.1789	1.0810	0.0000	0.000	0.000	3.2606	3.1481

					0		
					2.031		
ENSG00000046653	GPM6B	2.9855	1.0804	0.7128	6	2.8916	2.7801
					0.000		
ENSG00000173621	LRFN4	3.8702	1.0803	0.0000	0	2.9017	2.7903
					0.000		
ENSG00000133740	E2F5	3.5770	1.0803	0.0000	0	3.0259	2.9145
c(\ENSG00000165996",					11.96		
"\ENSG00000261677")"	PTPLA	2.4627	1.0801	2.6800	85	3.0137	2.9026
					0.000		
ENSG00000146670	CDCA5	4.1023	1.0800	0.0000	0	3.2921	3.1810
					0.000		
ENSG00000073111	MCM2	4.2450	1.0800	0.0000	0	3.1022	2.9911
					0.000		
ENSG00000175832	ETV4	3.3370	1.0799	0.2831	0	2.7555	2.6446
					0.787		
ENSG00000137563	GGH	3.1336	1.0797	0.3673	5	3.2022	3.0916
					21.51		
ENSG00000171243	SOSTDC1	2.1899	1.0797	6.0330	53	2.8751	2.7644
					0.000		
ENSG00000109805	NCAPG	3.8371	1.0792	0.0000	0	3.0377	2.9277
					0.000		
ENSG00000117724	CENPF	3.4375	1.0789	0.0000	0	3.0443	2.9347
					17.51		
ENSG00000054598	FOXC1	2.2936	1.0788	4.6164	62	3.4676	3.3583
					0.087		
ENSG00000173207	CKS1B	4.7871	1.0787	0.0000	2	3.4136	3.3043
					0.126		
ENSG00000197299	BLM	4.8935	1.0786	0.0000	4	2.8400	2.7308
					0.000		
ENSG00000123975	CKS2	4.0109	1.0785	0.0000	0	3.2198	3.1107
					0.000		
ENSG00000145386	CCNA2	3.6789	1.0782	0.0000	0	3.0250	2.9163
					11.44		
ENSG00000109255	NMU	2.4810	1.0781	2.6800	19	2.7558	2.6473
c(\ENSG00000173894",					3.136		
"\ENSG00000262762")"	CBX2	2.8904	1.0778	0.7128	9	3.1919	3.0838
					0.000		
ENSG00000065328	MCM10	4.5025	1.0774	0.0000	0	2.6921	2.5845
					23.21		
ENSG00000249992	TMEM158	2.1490	1.0774	6.0330	81	3.2959	3.1884
					0.000		
ENSG00000141401	IMPA2	3.3805	1.0773	0.2831	0	3.2426	3.1352
					0.000		
ENSG00000112984	KIF20A	3.8196	1.0768	0.0000	0	3.0637	2.9569
					0.000		
ENSG00000117632	STMN1	4.1553	1.0767	0.0000	0	3.1992	3.0925
					1.694		
ENSG00000188322	SBK1	3.0200	1.0766	0.4527	0	3.1655	3.0591
					0.089		
ENSG00000115163	CENPA	3.2628	1.0764	0.2831	3	3.0243	2.9181
					3.122		
ENSG00000167771	RCOR2	2.8915	1.0763	0.7128	6	2.8919	2.7857
					0.000		
ENSG00000087510	TFAP2C	3.6756	1.0762	0.0000	0	3.1740	3.0680
					0.000		
ENSG00000170312	CDK1	3.5533	1.0762	0.0000	0	3.0674	2.9614
					0.112		
ENSG00000164045	CDC25A	4.8524	1.0757	0.0000	0	2.7528	2.6476
					13.80		
ENSG00000105519	CAPS	2.4024	1.0757	3.5713	62	2.8471	2.7419
					0.000		
ENSG00000120254	MTHFD1L	4.1325	1.0756	0.0000	0	3.1020	2.9969
					0.000		
ENSG00000156802	ATAD2	3.5974	1.0755	0.0000	0	3.0339	2.9289
					0.000		
ENSG00000165490	C11orf82	4.0251	1.0754	0.0000	0	2.8906	2.7857
					0.000		
ENSG00000184661	CDCA2	3.7166	1.0753	0.0000	0	2.8364	2.7317
					0.000		
ENSG00000157456	CCNB2	3.5537	1.0752	0.0000	0	3.2372	3.1326
					0.000		
ENSG00000096696	DSP	3.9707	1.0751	0.0000	0	3.2720	3.1675
					0.000		
ENSG00000011426	ANLN	3.7148	1.0751	0.0000	0	2.8897	2.7852



ENSG00000145604	SKP2	4.6078	1.0749	0.0000	0.003 1	2.8253	2.7211
c(\ENSG00000237649\", \"ENSG00000233450\", \"ENSG00000056678\", \"ENSG00000204197\")	KIFC1	3.7559	1.0749	0.0000	0.000 0 3.167	3.0004	2.8962
ENSG00000111716	LDHB	2.8881	1.0746	0.7128	0 12.44	3.3615	3.2577
ENSG00000108700	CCL8	2.4466	1.0746	2.6800	32 0.000	3.2639	3.1601
ENSG00000163918	RFC4	4.0408	1.0744	0.0000	0 25.58	3.1252	3.0217
ENSG00000105880	DLX5	2.0945	1.0743	7.5285	16 0.000	2.7934	2.6901
ENSG00000087586	AURKA	3.6816	1.0743	0.0000	0 1.666	3.1200	3.0167
ENSG00000085552	IGSF9	3.0230	1.0741	0.4527	1 14.18	2.8912	2.7880
ENSG00000162444	RBP7	2.3907	1.0738	3.5713	07 0.000	2.9590	2.8563
ENSG00000143228	NUF2	3.9903	1.0736	0.0000	0 0.000	2.6822	2.5797
ENSG00000087586	AURKA	3.6504	1.0735	0.0000	0 0.000	3.1493	3.0470
ENSG00000126787	DLGAP5	3.9376	1.0735	0.0000	0 31.20	2.9110	2.8086
ENSG00000196196	HRCT1	1.9733	1.0735	9.4316	06 0.000	2.7888	2.6866
ENSG00000183814	LIN9	4.2441	1.0734	0.0000	0 0.000	2.8139	2.7116
ENSG00000122952	ZWINT	3.5783	1.0733	0.0000	0 0.000	2.9950	2.8929
ENSG00000123975	CKS2	3.8526	1.0731	0.0000	0 0.000	3.3996	3.2978
ENSG00000138326	RPS24	3.4985	1.0726	0.0000	0 0.000	3.1761	3.0749
ENSG00000024526	DEPDC1	4.3108	1.0726	0.0000	0 4.619	2.7708	2.6697
ENSG00000134755	DSC2	2.7891	1.0724	1.0024	8 13.51	2.9697	2.8688
ENSG00000234068	PAGE2	2.4115	1.0721	3.5713	99 0.000	2.5771	2.4767
ENSG00000138160	KIF11	4.1754	1.0720	0.0000	0 0.155	2.9353	2.8350
ENSG00000224531	SMIM13	4.9854	1.0719	0.0000	2 0.000	2.8560	2.7558
ENSG00000170899	GSTA4	3.3880	1.0719	0.2831	0 18.74	3.0280	2.9278
ENSG00000135069	PSAT1	2.2606	1.0716	4.6164	07 0.000	3.1335	3.0337
ENSG00000090889	KIF4A	4.0433	1.0715	0.0000	0 14.64	2.8384	2.7388
ENSG00000100167	03-Sep	2.3765	1.0714	3.5713	24 0.000	2.8881	2.7886
ENSG00000175832	ETV4	3.3364	1.0713	0.2831	0 0.000	2.6979	2.5985
ENSG00000186193	SAPCD2	3.5518	1.0713	0.0000	0 0.000	2.9958	2.8964
ENSG00000132640	BTBD3	3.6843	1.0711	0.0000	0 0.000	2.9590	2.8599
ENSG00000093009	CDC45	3.7229	1.0711	0.0000	0 11.23	3.0833	2.9842
ENSG00000114473	IQCG	2.4884	1.0711	2.6800	32 8.951	2.9571	2.8580
ENSG00000136997	MYC	2.5753	1.0708	1.9419	7 0.000	2.9805	2.8818
ENSG00000196793	ZNF239	3.5412	1.0707	0.0000	0 5.737	2.9899	2.8914
ENSG00000105173	CCNE1	2.7251	1.0706	1.5419	2 0.000	2.9931	2.8947
ENSG00000112118	MCM3	4.3026	1.0705	0.0000	0 0.000	3.1489	3.0507
ENSG00000120802	TMPO	4.1534	1.0704	0.0000	0 0.000	2.7774	2.6793
ENSG00000112029	FBXO5	3.8076	1.0702	0.0000	0.000	2.9909	2.8930

					0		
					25.47		
ENSG00000100167	03-Sep	2.0968	1.0701	7.5285	81	3.0112	2.9134
					0.000		
ENSG00000133119	RFC3	4.0041	1.0701	0.0000	0	2.8009	2.7031
					32.17		
ENSG00000118785	SPP1	1.9533	1.0700	9.4316	40	3.3858	3.2881
					26.75		
ENSG00000160183	TMPRSS3	2.0684	1.0697	7.5285	10	2.8657	2.7684
					1.245		
ENSG00000111206	FOXM1	3.0714	1.0696	0.4527	6	2.8562	2.7592
					28.27		
ENSG00000185686	PRAME	2.0351	1.0695	9.4316	81	2.8489	2.7520
c(\ENSG00000110347\","					10.47		
\"ENSG00000262406\")"	MMP12	2.5160	1.0695	2.6800	51	2.6854	2.5885
					0.000		
ENSG00000173726	TOMM20	4.2501	1.0694	0.0000	0	3.3697	3.2729
					5.240		
ENSG00000136997	MYC	2.7525	1.0693	1.5419	9	3.2974	3.2007
					8.362		
ENSG00000117228	GBP1	2.5999	1.0691	1.9419	9	3.1926	3.0961
					0.000		
NA	UHRF1	3.7106	1.0689	0.0000	0	3.1451	3.0490
					0.000		
ENSG00000117399	CDC20	3.2922	1.0689	0.2831	0	3.4015	3.3055
					0.050		
ENSG00000085415	SEH1L	4.7027	1.0685	0.0000	8	2.9395	2.8439
c(\ENSG00000182481\","					2.942		
\"ENSG00000262472\")"	KPNA2	2.9056	1.0684	0.7128	8	3.0052	2.9097
					0.000		
ENSG00000123485	HJURP	3.4700	1.0684	0.0000	0	2.9493	2.8539
					0.000		
ENSG00000100526	CDKN3	3.4272	1.0680	0.2831	0	3.0028	2.9078
					0.000		
ENSG00000169684	CHRNA5	4.1757	1.0679	0.0000	0	2.7142	2.6194
					0.000		
ENSG00000162607	USP1	3.9725	1.0678	0.0000	0	3.0573	2.9626
					20.49		
ENSG00000134873	CLDN10	2.2153	1.0677	6.0330	39	2.6071	2.5127
					0.095		
ENSG00000163535	SGOL2	4.8081	1.0675	0.0000	5	2.7909	2.6967
					1.159		
ENSG00000175305	CCNE2	3.0823	1.0674	0.4527	2	2.8647	2.7707
					8.799		
ENSG00000103569	AQP9	2.5816	1.0674	1.9419	7	2.8435	2.7494
					0.000		
ENSG00000117632	STMN1	3.9496	1.0673	0.0000	0	2.7862	2.6922
					0.000		
ENSG00000124784	RIOK1	4.5484	1.0672	0.0000	0	2.7643	2.6705
					0.000		
ENSG00000112992	NNT	3.9708	1.0672	0.0000	0	2.9440	2.8502
					0.000		
ENSG00000058804	TMEM48	4.5364	1.0671	0.0000	0	2.8312	2.7375
					10.01		
ENSG00000111666	CHPT1	2.5332	1.0671	2.6800	66	3.1497	3.0561
					0.000		
ENSG00000148459	PDSS1	4.1327	1.0669	0.0000	0	2.9126	2.8192
					0.000		
ENSG00000161800	RACGAP1	4.2465	1.0667	0.0000	0	3.1186	3.0255
					0.000		
ENSG00000164611	PTTG1	3.5390	1.0666	0.0000	0	3.3664	3.2734
					0.000		
ENSG00000149554	CHEK1	3.3957	1.0663	0.2831	0	2.9457	2.8531
					26.50		
ENSG00000133627	ACTR3B	2.0738	1.0660	7.5285	46	2.8926	2.8004
c(\ENSG00000158427\","					11.90		
\"ENSG00000158164\")"	TMSB15B	2.4650	1.0659	2.6800	10	3.1466	3.0546
					0.458		
ENSG00000115163	CENPA	3.1873	1.0658	0.3673	7	2.8868	2.7949
					0.000		
ENSG00000145604	SKP2	3.9255	1.0658	0.0000	0	3.2588	3.1669
					0.000		
ENSG00000136122	BORA	4.2812	1.0654	0.0000	0	2.9055	2.8140
					0.000		
ENSG00000177917	ARL6IP6	4.2905	1.0654	0.0000	0	3.0481	2.9568

ENSG00000139714	MORN3	3.6290	1.0654	0.0000	0.000	2.6342	2.5428
ENSG00000182185	RAD51B	2.2424	1.0654	4.6164	19.43	2.6845	2.5932
c:\ENSG00000244067", "ENSG00000243955")	GSTA1	2.0021	1.0653	9.4316	29.82	2.6832	2.5918
ENSG00000187522	HSPA14	3.6482	1.0653	0.0000	0.000	3.1367	3.0454
ENSG00000177054	ZDHHC13	3.4934	1.0652	0.0000	0.000	2.9250	2.8339
ENSG00000105173	CCNE1	3.1411	1.0651	0.3673	0.738	2.8210	2.7300
ENSG00000135374	ELF5	2.0327	1.0651	9.4316	28.38	2.8078	2.7168
ENSG00000120334	CENPL	4.2892	1.0650	0.0000	0.000	2.8698	2.7789
ENSG00000153721	CNKS3	2.9193	1.0650	0.7128	2.772	3.0311	2.9403
ENSG00000105173	CCNE1	3.0400	1.0649	0.4527	6	2.7801	2.6894
ENSG00000181218	HIST3H2A	2.5792	1.0648	1.9419	1.512	3.0340	2.9435
ENSG00000169607	CKAP2L	3.6780	1.0647	0.0000	8.858	2.9032	2.8128
ENSG00000119866	BCL11A	2.1559	1.0646	6.0330	0.000	3.1562	3.0659
ENSG00000204856	FAM216A	3.2245	1.0646	0.2831	22.92	2.8136	2.7233
ENSG00000185875	THNSL1	3.5836	1.0645	0.0000	74	2.8427	2.7526
ENSG00000176619	LMNB2	4.6793	1.0644	0.0000	0.263	3.3005	3.2105
ENSG00000174871	CNIH2	3.2968	1.0636	0.2831	9	2.7762	2.6872
ENSG00000186897	C1QL4	2.5391	1.0633	2.6800	0.000	2.6209	2.5323
ENSG00000165997	ARL5B	3.7311	1.0633	0.0000	0.039	2.8901	2.8016
ENSG00000112096	SOD2	2.7612	1.0630	1.5419	7	3.3181	3.2299
ENSG00000112578	BYSL	4.6242	1.0629	0.0000	0.000	3.1318	3.0437
ENSG00000080986	NDC80	3.3945	1.0629	0.2831	0.011	2.8077	2.7197
ENSG00000143514	TP53BP2	3.3276	1.0624	0.2831	9	3.1194	3.0321
ENSG00000166823	MESP1	2.1785	1.0622	6.0330	0.000	2.9444	2.8574
ENSG00000062038	CDH3	2.0500	1.0621	7.5285	21.98	3.1992	3.1122
ENSG00000075643	MOCOS	2.0621	1.0617	7.5285	27.58	3.0401	2.9537
ENSG00000176124	DLEU1	4.0240	1.0617	0.0000	99	2.8457	2.7593
ENSG00000168078	PBK	3.0676	1.0617	0.4527	27.03	2.8328	2.7465
ENSG00000164104	HMGB2	3.6335	1.0616	0.0000	56	3.1747	3.0885
ENSG00000127423	AUNIP	2.9526	1.0616	0.7128	0.000	2.8671	2.7809
ENSG00000096063	SRPK1	4.2199	1.0615	0.0000	1.276	3.2333	3.1472
ENSG00000118193	KIF14	3.5311	1.0615	0.0000	4	2.8200	2.7339
ENSG00000046604	DSG2	2.9354	1.0613	0.7128	0.000	2.9281	2.8423
ENSG00000142731	PLK4	3.6357	1.0613	0.0000	9	2.9318	2.8460
ENSG00000134419	RPS15A	4.0390	1.0612	0.0000	0.000	3.4363	3.3505
ENSG00000117650	NEK2	2.4558	1.0612	2.6800	12.17	2.9236	2.8379
ENSG00000123545	NDUFAF4	4.0213	1.0611	0.0000	0.000	2.9800	2.8944
ENSG00000124795	DEK	3.2784	1.0610	0.2831	0	3.2099	3.1245

ENSG00000142449	FBN3	2.0857	1.0610	7.5285	25.9707	2.7135	2.6281
ENSG00000176912	C18orf56	2.5665	1.0608	1.9419	9.1688	2.9985	2.9133
ENSG00000105519	CAPS	2.0319	1.0607	9.4316	28.4221	3.0200	2.9349
ENSG00000148459	PDSS1	3.7847	1.0607	0.0000	0.0000	3.0322	2.9472
ENSG00000119326	CTNNAL1	2.8445	1.0606	1.0024	3.7673	2.8648	2.7799
ENSG00000082212	ME2	3.8928	1.0606	0.0000	0.0000	3.0875	3.0026
ENSG00000086475	SEPHS1	3.7140	1.0605	0.0000	0.0000	3.0658	2.9811
ENSG00000119285	HEATR1	3.9051	1.0604	0.0000	0.0000	3.1859	3.1013
ENSG00000121957	GPSM2	3.0491	1.0604	0.4527	1.4321	3.0259	2.9413
c(\ENSG00000106484\";	MEST	2.0726	1.0604	7.5285	26.5620	2.6642	2.5796
\"ENSG00000264872\"")					0.0000		
ENSG00000140534	TICRR	4.0244	1.0603	0.0000	0.0000	2.7002	2.6157
ENSG00000142945	KIF2C	2.9639	1.0602	0.7128	2.2602	2.9919	2.9076
ENSG00000143155	TIPRL	4.2580	1.0598	0.0000	0.0000	3.1171	3.0333
ENSG00000213005	PTTG3P	2.8138	1.0597	1.0024	4.2266	3.1808	3.0971
ENSG00000129810	SGOL1	3.7260	1.0596	0.0000	0.0000	2.7181	2.6346
ENSG00000000460	C1orf112	3.7942	1.0595	0.0000	0.0000	2.9714	2.8880
ENSG00000116161	CACYBP	3.2939	1.0595	0.2831	0.0000	3.1676	3.0842
ENSG00000119787	ATL2	3.3421	1.0595	0.2831	0.0000	3.0846	3.0013
ENSG00000072571	HMMR	3.0149	1.0593	0.4527	1.7416	2.9079	2.8248
ENSG00000164758	MED30	3.4542	1.0593	0.0000	0.0000	3.2500	3.1669
ENSG00000105810	CDK6	2.3232	1.0591	4.6164	16.4550	3.1396	3.0567
ENSG00000144554	FANCD2	3.5700	1.0591	0.0000	0.0000	2.9779	2.8951
ENSG00000096092	TMEM14A	3.6594	1.0591	0.0000	0.0000	3.2482	3.1654
ENSG00000132819	RBM38	2.7083	1.0591	1.5419	6.0551	2.8381	2.7553
ENSG00000157992	KRTCAP3	2.6770	1.0590	1.5419	6.6743	2.9011	2.8183
c(\ENSG00000109084\";	TMEM97	3.6718	1.0590	0.0000	0.0000	3.1864	3.1037
\"ENSG00000262046\"")					0.0000		
c(\ENSG00000154839\";	SKA1	3.0737	1.0589	0.4527	1.2274	2.7990	2.7165
\"ENSG00000262634\"")					0.0000		
ENSG00000137168	PPIL1	4.2823	1.0588	0.0000	0.0000	2.9908	2.9084
ENSG00000188313	PLSCR1	2.4018	1.0587	3.5713	13.8240	2.9069	2.8246
ENSG00000166508	MCM7	3.2340	1.0586	0.2831	0.2180	2.7570	2.6748
ENSG00000137804	NUSAP1	3.3218	1.0586	0.2831	0.0000	2.8882	2.8060
ENSG00000119866	BCL11A	2.1475	1.0585	6.0330	23.2790	2.8642	2.7821
ENSG00000143476	DTL	3.9024	1.0585	0.0000	0.0000	2.7445	2.6625
ENSG00000056736	IL17RB	2.4772	1.0585	2.6800	11.5513	2.9577	2.8757
ENSG00000163064	EN1	2.7176	1.0584	1.5419	5.8772	2.6872	2.6053
ENSG00000089009	RPL6	3.5260	1.0584	0.0000	0.0000	3.0617	2.9798
ENSG00000113569	NUP155	4.1422	1.0582	0.0000	0.0000	3.0916	3.0099

ENSG00000162851	TFB2M	4.1243	1.0581	0.0000	0.000	0	3.1876	3.1061
ENSG00000151461	UPF2	3.9609	1.0581	0.0000	0.000	0	2.9290	2.8475
ENSG00000131876	SNRPA1	3.6835	1.0578	0.0000	0.000	0	3.1830	3.1019
ENSG00000121211	MND1	3.3425	1.0578	0.2831	0.000	0	2.7598	2.6787
ENSG00000104738	MCM4	3.1527	1.0576	0.3673	0.663	5	3.0609	2.9800
ENSG00000138160	KIF11	3.0626	1.0576	0.4527	1.318	1	2.8511	2.7702
ENSG00000130287	NCAN	2.8751	1.0575	1.0024	3.339	9	2.6714	2.5907
ENSG00000112096	SOD2	2.3957	1.0574	3.5713	14.02	09	3.0106	2.9302
ENSG00000148468	FAM171A1	2.0530	1.0572	7.5285	27.45	16	3.2207	3.1404
ENSG00000229891	LOC100134361	2.3107	1.0571	4.6164	16.89	69	2.9375	2.8574
ENSG00000105185	PDCD5	4.0519	1.0570	0.0000	0.000	0	3.3046	3.2247
ENSG00000104147	OIP5	3.0784	1.0570	0.4527	1.189	8	2.9895	2.9096
ENSG00000151465	CDC123	3.7812	1.0569	0.0000	0.000	0	3.2644	3.1846
ENSG00000135451	TROAP	2.8425	1.0568	1.0024	3.796	0	2.9228	2.8431
ENSG00000137434	C6orf52	2.7072	1.0567	1.5419	6.075	1	2.8716	2.7920
ENSG00000068489	PRR11	3.5552	1.0567	0.0000	0.000	0	2.7655	2.6860
ENSG00000264247	LOC400657	3.7673	1.0566	0.0000	0.000	0	2.8395	2.7601
ENSG00000198056	PRIM1	3.6357	1.0565	0.0000	0.000	0	2.8029	2.7236
ENSG00000163923	RPL39L	2.7918	1.0564	1.0024	4.575	2	3.2616	3.1824
ENSG00000046653	GPM6B	2.1837	1.0564	6.0330	21.77	03	2.8897	2.8106
ENSG00000183150	GPR19	2.8759	1.0563	1.0024	3.328	7	2.7675	2.6886
ENSG00000134463	ECHDC3	2.6925	1.0561	1.5419	6.363	1	3.1528	3.0740
ENSG00000171793	CTPS1	3.3515	1.0561	0.2831	0.000	0	3.0865	3.0077
ENSG00000089685	BIRC5	2.2287	1.0561	4.6164	19.96	75	3.0902	3.0114
ENSG00000159147	DONSON	3.0371	1.0560	0.4527	1.537	6	2.9133	2.8347
ENSG00000165732	DDX21	3.3843	1.0560	0.2831	0.000	0	3.1980	3.1195
ENSG00000046653	GPM6B	3.3255	1.0559	0.2831	0.000	0	2.6306	2.5521
ENSG00000144744	UBA3	3.7673	1.0559	0.0000	0.000	0	2.9808	2.9023
ENSG00000168496	FEN1	3.6645	1.0558	0.0000	0.000	0	3.2667	3.1883
ENSG00000238269	PAGE2B	2.1127	1.0558	7.5285	24.77	84	2.5347	2.4564
ENSG00000141391	SLMO1	2.5157	1.0554	2.6800	10.48	09	2.9282	2.8503
ENSG00000168522	FNTA	3.1972	1.0554	0.3673	0.404	3	3.0428	2.9650
ENSG00000143436	MRPL9	4.3789	1.0554	0.0000	0.000	0	3.0437	2.9659
ENSG00000162851	TFB2M	4.1180	1.0554	0.0000	0.000	0	3.1743	3.0965
ENSG00000147687	TATDN1	2.9458	1.0554	0.7128	2.460	9	3.0877	3.0100
ENSG00000050344	NFE2L3	2.0528	1.0553	7.5285	27.45	81	3.1021	3.0244
ENSG00000121211	MND1	3.0116	1.0552	0.4527	1.773	5	2.7756	2.6980
ENSG00000138778	CENPE	3.3246	1.0552	0.2831	0.000	0	2.9510	2.8735

					0		
					1.917		
ENSG00000076248	UNG	2.9968	1.0552	0.4527	9	3.1500	3.0725
					4.482		
ENSG00000147872	PLIN2	2.7976	1.0552	1.0024	8	3.0851	3.0076
					0.617		
ENSG00000145996	CDKAL1	3.1601	1.0550	0.3673	7	2.7288	2.6516
					8.317		
ENSG00000163923	RPL39L	2.6019	1.0550	1.9419	2	3.1690	3.0918
					0.803		
ENSG00000051341	POLQ	3.1313	1.0550	0.3673	3	2.8910	2.8138
					7.059		
ENSG00000146233	CYP39A1	2.6585	1.0550	1.5419	2	2.6816	2.6043
					0.000		
ENSG00000112242	E2F3	3.5440	1.0549	0.0000	0	3.2310	3.1539
	ERVMER34-				20.30		
ENSG00000226887	1	2.2200	1.0548	6.0330	85	2.7044	2.6274
					5.601		
ENSG00000164754	RAD21	2.7324	1.0548	1.5419	7	3.2120	3.1351
					9.421		
ENSG00000170545	SMAGP	2.5564	1.0547	1.9419	4	2.8308	2.7539
					13.68		
ENSG00000123505	AMD1	2.4063	1.0547	3.5713	27	3.0054	2.9285
					0.000		
ENSG00000171316	CHD7	3.3294	1.0547	0.2831	0	2.9498	2.8730
					0.522		
ENSG00000197905	TEAD4	3.1760	1.0546	0.3673	8	2.9430	2.8662
	c(\ENSG00000160767\,				0.000		
ENSG0000026666\)"	FAM189B	3.9685	1.0546	0.0000	0	2.7768	2.7001
					0.000		
ENSG00000179041	RRS1	3.3747	1.0546	0.2831	0	3.0448	2.9681
	c(\ENSG00000187145\,				1.291		
ENSG00000266472\)"	MRPS21	3.0658	1.0544	0.4527	7	3.1939	3.1174
					8.808		
ENSG00000143013	LMO4	2.5813	1.0544	1.9419	1	3.4189	3.3424
					10.27		
ENSG00000119326	CTNNAL1	2.5236	1.0544	2.6800	12	2.8260	2.7495
					4.486		
ENSG00000158710	TAGLN2	2.7973	1.0544	1.0024	3	2.9841	2.9077
					0.000		
ENSG00000085415	SEH1L	3.4709	1.0543	0.0000	0	2.7869	2.7105
					28.26		
ENSG00000140511	HAPLN3	2.0353	1.0543	9.4316	52	2.9576	2.8813
					0.000		
ENSG00000113810	SMC4	3.4105	1.0542	0.2831	0	3.2087	3.1325
					2.750		
ENSG00000104341	LAPTM4B	2.9212	1.0541	0.7128	2	3.4653	3.3893
					3.114		
ENSG00000177054	ZDHHC13	2.8921	1.0541	0.7128	9	2.8353	2.7592
					0.000		
ENSG00000099901	RANBP1	3.8404	1.0540	0.0000	0	3.3200	3.2441
					0.000		
ENSG00000129351	ILF3	3.6123	1.0540	0.0000	0	3.0505	2.9746
					0.000		
ENSG00000136108	CKAP2	3.8450	1.0540	0.0000	0	2.9173	2.8414
					0.000		
ENSG00000112118	MCM3	3.9353	1.0540	0.0000	0	3.4454	3.3696
					0.000		
ENSG00000107937	GTPBP4	3.7292	1.0539	0.0000	0	3.3991	3.3234
					5.644		
ENSG00000159259	CHAF1B	2.7301	1.0538	1.5419	0	2.9354	2.8597
					2.782		
ENSG00000104341	LAPTM4B	2.9185	1.0538	0.7128	5	3.4925	3.4168
					8.860		
ENSG00000010292	NCAPD2	2.5791	1.0538	1.9419	1	3.0822	3.0066
					0.000		
ENSG00000123219	CENPK	3.5376	1.0537	0.0000	0	2.7880	2.7125
					0.133		
ENSG00000117593	DARS2	3.2526	1.0537	0.2831	2	2.8384	2.7630
					0.329		
ENSG00000175643	RMI2	3.2114	1.0537	0.2831	4	3.0724	2.9970
					10.08		
ENSG00000104044	OCA2	2.5308	1.0536	2.6800	01	2.6063	2.5309
					4.534		
ENSG00000125319	C17orf53	2.7943	1.0535	1.0024	7	2.9213	2.8461

ENSG00000143179	UCK2	3.2425	1.0534	0.2831	0.178 6	3.2174	3.1423
ENSG00000160124	CCDC58	3.0274	1.0534	0.4527	1.624 8	2.9844	2.9093
ENSG00000120647	CCDC77	2.5599	1.0533	1.9419	9.334 8	3.0432	2.9682
ENSG00000134755	DSC2	2.1875	1.0533	6.0330	21.61 57	3.1957	3.1208
ENSG00000143756	FBXO28	3.8817	1.0532	0.0000	0.000 0	3.0687	2.9939
ENSG00000143549	TPM3	3.2150	1.0531	0.2831	0.311 2	2.9220	2.8473
ENSG00000095209	TMEM38B	2.7424	1.0531	1.5419	5.419 7	2.8449	2.7702
ENSG00000117650	NEK2	3.6066	1.0530	0.0000	0.000 0	2.6998	2.6253
ENSG00000138182	KIF20B	3.3062	1.0530	0.2831	0.000 0	3.0486	2.9741
ENSG00000107104	KANK1	2.3081	1.0529	4.6164	16.98 99	3.0479	2.9736
ENSG00000115507	OTX1	2.4198	1.0529	3.5713	13.25 95	2.6331	2.5587
ENSG00000104783	KCNN4	2.7273	1.0527	1.5419	5.696 5	2.7983	2.7242
ENSG00000176244	ACBD7	1.9758	1.0527	9.4316	31.07 82	2.6929	2.6188
ENSG00000104738	MCM4	3.0277	1.0526	0.4527	1.622 7	3.2385	3.1645
ENSG00000171863	RPS7	2.5092	1.0526	2.6800	10.65 71	2.9507	2.8768
ENSG00000143674	KIAA1804	3.8977	1.0526	0.0000	0.000 0	2.6516	2.5777
ENSG00000143621	ILF2	4.0708	1.0525	0.0000	0.000 0	3.5514	3.4776
ENSG00000163918	RFC4	3.2499	1.0525	0.2831	0.144 9	3.1385	3.0647
ENSG00000157193	LRP8	2.1519	1.0524	6.0330	23.09 57	2.9046	2.8309
c(\ENSG00000159131", "ENSG00000262473")	GART	3.4413	1.0524	0.0000	0.000 0	2.9218	2.8481
ENSG00000117906	RCN2	3.6341	1.0524	0.0000	0.000 0	3.2901	3.2165
ENSG00000163808	KIF15	3.4339	1.0524	0.0000	0.000 0	2.7985	2.7248
ENSG00000129810	SGOL1	3.4391	1.0523	0.0000	0.000 0	2.7214	2.6478
ENSG00000171119	NRTN	2.6873	1.0521	1.5419	6.466 9	2.6476	2.5743
ENSG00000124207	CSE1L	4.0542	1.0521	0.0000	0.000 0	3.3834	3.3101
ENSG00000169085	C8orf46	2.1854	1.0521	6.0330	21.70 13	2.6268	2.5535
ENSG00000138442	WDR12	3.8623	1.0521	0.0000	0.000 0	3.0800	3.0067
ENSG00000161016	RPL8	2.4605	1.0520	2.6800	12.03 22	3.0803	3.0071
ENSG00000184588	PDE4B	2.1874	1.0519	6.0330	21.62 00	2.8258	2.7528
ENSG00000136689	IL1RN	2.2024	1.0519	6.0330	21.01 05	2.8588	2.7858
ENSG00000184588	PDE4B	1.9848	1.0517	9.4316	30.64 57	3.1086	3.0359
ENSG00000119403	PHF19	3.0148	1.0516	0.4527	1.742 4	2.7609	2.6883
ENSG00000124571	XPO5	3.8065	1.0516	0.0000	0.000 0	3.0392	2.9667
ENSG00000112312	GMNN	2.6576	1.0514	1.5419	7.078 8	2.9007	2.8284
c(\ENSG00000123584", "ENSG00000166008")	MAGEA9B	2.2033	1.0513	6.0330	20.97 51	2.5677	2.4955
ENSG00000143815	LBR	2.7376	1.0513	1.5419	5.507 2	2.8752	2.8031
ENSG00000119866	BCL11A	2.1900	1.0513	6.0330	21.51 30	2.7885	2.7163
ENSG00000167513	CDT1	2.4652	1.0512	2.6800	11.89	2.9173	2.8452

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ENSG00000158710	TAGLN2	3.0034	1.0512	0.4527	1.8529	3.1901	3.1180
ENSG00000109475	RPL34	3.2127	1.0512	0.2831	0.3226	3.2490	3.1769
ENSG00000162607	USP1	2.8613	1.0512	1.0024	3.5291	2.7470	2.6749
ENSG00000075131	TIPIN	3.7247	1.0512	0.0000	0.0000	2.6793	2.6073
ENSG00000183684	ALYREF	2.7826	1.0512	1.0024	4.7261	3.2785	3.2065
NA	OR7E156P	2.0273	1.0512	9.4316	28.6399	2.8854	2.8134
ENSG00000127252	HRASLS	2.3049	1.0510	4.6164	17.1057	2.8584	2.7867
ENSG00000170545	SMAGP	2.3977	1.0509	3.5713	13.9551	3.0300	2.9583
ENSG00000137309	HMGA1	2.6139	1.0508	1.9419	8.0397	3.2429	3.1714
ENSG00000161040	FBXL13	2.0655	1.0507	7.5285	26.8835	2.6166	2.5453
ENSG00000167840	ZNF232	3.8032	1.0507	0.0000	0.0000	2.7649	2.6936
ENSG00000168496	FEN1	3.1265	1.0507	0.3673	0.8353	2.8832	2.8118
ENSG00000137804	NUSAP1	3.0004	1.0507	0.4527	1.8824	3.1705	3.0992
ENSG00000127564	PKMYT1	3.2027	1.0506	0.3673	0.3749	2.8471	2.7758
ENSG00000010072	SPRTN	4.4541	1.0506	0.0000	0.0000	2.8089	2.7377
ENSG00000123374	CDK2	4.0655	1.0505	0.0000	0.0000	3.0884	3.0173
ENSG00000159147	DONSON	3.2486	1.0505	0.2831	0.1510	2.6701	2.5991
ENSG00000124784	RIOK1	3.4239	1.0505	0.2831	0.0000	3.0104	2.9394
ENSG00000142632	ARHGEF19	2.8382	1.0504	1.0024	3.8595	3.0069	2.9359
ENSG00000170759	KIF5B	3.4931	1.0504	0.0000	0.0000	3.0318	2.9608
ENSG00000143549	TPM3	2.9187	1.0503	0.7128	2.7799	3.0798	3.0089
ENSG00000159871	LYPD5	2.1488	1.0503	6.0330	23.2240	2.7056	2.6348
ENSG00000176894	PXMP2	2.7345	1.0503	1.5419	5.5633	3.0478	2.9769
NA	PRIM2	3.7239	1.0503	0.0000	0.0000	2.7944	2.7236
ENSG00000159479	MED8	2.7530	1.0502	1.5419	5.2313	2.9917	2.9209
ENSG00000179431	FJX1	2.1209	1.0502	7.5285	24.4219	3.0107	2.9401
ENSG00000170035	UBE2E3	3.0000	1.0502	0.4527	1.8861	2.9620	2.8914
ENSG00000106462	EZH2	2.6188	1.0501	1.9419	7.9290	2.8965	2.8260
ENSG00000134779	TPGS2	2.0686	1.0501	7.5285	26.7400	3.0219	2.9514
ENSG00000185480	PARPBP	2.9567	1.0500	0.7128	2.3393	2.8379	2.7675
ENSG00000121957	GPSM2	2.6018	1.0500	1.9419	8.3204	3.0402	2.9698
ENSG00000131470	PSMC3IP	3.5763	1.0500	0.0000	0.0000	2.7064	2.6361
ENSG00000108688	CCL7	2.2941	1.0500	4.6164	17.4960	2.5675	2.4972
ENSG00000134326	CMPK2	2.3238	1.0499	4.6164	16.4355	2.6555	2.5852
ENSG00000173473	SMARCC1	4.1622	1.0499	0.0000	0.0000	3.2437	3.1735
ENSG00000100426	ZBED4	3.7045	1.0499	0.0000	0.0000	2.9422	2.8720
ENSG00000111276	CDKN1B	3.0020	1.0498	0.4527	1.8660	3.1280	3.0579



ENSG00000066557	LRRC40	3.3807	1.0498	0.2831	0.000	2.7242	2.6541
c(\ENSG00000152253",	SPC25	3.4834	1.0498	0.0000	0.000	2.7713	2.7013
"ENSG00000262452")"					0.000		
ENSG00000163655	GMPS	3.5389	1.0497	0.0000	0	3.2573	3.1872
ENSG00000136518	ACTL6A	3.2548	1.0496	0.2831	0.123	3.1569	3.0870
ENSG00000143147	GPR161	3.1871	1.0496	0.3673	0.459	2.6082	2.5383
ENSG00000163159	VPS72	3.9298	1.0496	0.0000	0	3.1446	3.0748
ENSG00000013573	DDX11	2.4759	1.0496	2.6800	11.58	2.8141	2.7443
ENSG00000069248	NUP133	3.9727	1.0495	0.0000	79	3.1007	3.0309
ENSG000000213782	DDX47	2.6478	1.0495	1.9419	0.000	3.0860	3.0163
ENSG000000132436	FIGNL1	3.4895	1.0494	0.0000	7.286	2.7215	2.6520
ENSG000000242516	LOC401074	2.0449	1.0493	7.5285	9	2.7346	2.6652
ENSG000000203875	SNHG5	2.3526	1.0492	3.5713	27.82	3.3458	3.2765
ENSG00000100139	MICALL1	3.1355	1.0492	0.3673	38	2.8372	2.7679
ENSG000000253729	PRKDC	3.1118	1.0492	0.3673	15.44	2.6917	2.6225
ENSG00000124279	FASTKD3	4.3087	1.0492	0.0000	22	2.7786	2.7094
ENSG00000114346	ECT2	2.5082	1.0491	2.6800	0.774	3.0758	3.0066
ENSG00000143742	SRP9	2.9958	1.0491	0.4527	6	2.8858	2.8166
ENSG00000064102	ASUN	3.0350	1.0491	0.4527	0.938	2.9834	2.9143
ENSG00000165609	NUDT5	3.2533	1.0491	0.2831	2	3.3663	3.2972
ENSG00000198056	PRIM1	3.0008	1.0491	0.4527	0.000	2.9286	2.8595
ENSG00000120438	TCP1	2.1978	1.0490	6.0330	10.68	2.8451	2.7762
ENSG00000132819	RBM38	2.6400	1.0490	1.9419	43	2.7303	2.6614
ENSG00000146281	PM20D2	2.5903	1.0490	1.9419	1.927	2.7222	2.6533
ENSG00000107951	MTPAP	3.5577	1.0489	0.0000	9	3.1177	3.0487
ENSG00000164163	ABCE1	3.6228	1.0489	0.0000	1.556	3.0861	3.0172
ENSG00000174442	ZWILCH	3.6140	1.0489	0.0000	3	3.0983	3.0294
ENSG00000104447	TRPS1	3.0049	1.0489	0.4527	0.129	2.7758	2.7069
ENSG00000043039	BARX2	2.2865	1.0489	4.6164	9	2.7339	2.6650
ENSG00000166197	NOLC1	3.3203	1.0488	0.2831	1.878	2.9596	2.8908
ENSG00000081721	DUSP12	4.0570	1.0488	0.0000	4	3.2184	3.1497
ENSG00000160818	GPATCH4	3.4083	1.0487	0.2831	21.19	3.1336	3.0650
ENSG00000183765	CHEK2	3.1794	1.0487	0.3673	76	2.8346	2.7660
ENSG00000187231	SESTD1	3.1905	1.0487	0.3673	7.457	2.9879	2.9193
ENSG00000089157	RPLP0	2.4268	1.0486	3.5713	8.590	3.2126	3.1441
ENSG00000065320	NTN1	2.2665	1.0486	4.6164	9	2.7871	2.7186
ENSG00000164283	ESM1	2.3374	1.0486	3.5713	0.000	2.8254	2.7570
ENSG00000141622	RNF165	1.9868	1.0486	9.4316	0.000	2.7460	2.6775
ENSG00000132640	BTBD3	2.7909	1.0486	1.0024	0.000	2.8844	2.8160
					0		
					0.503		
					4		
					0.441		
					0		
					13.04		
					40		
					18.51		
					72		
					15.96		
					16		
					30.55		
					08		
					4.590		

					3		
ENSG00000147003	TMEM27	2.4413	1.0485	2.6800	12.60	2.6580	2.5896
					35		
ENSG00000173638	SLC19A1	3.4585	1.0485	0.0000	0.000	2.8195	2.7511
					0		
ENSG00000121644	DESI2	3.9066	1.0485	0.0000	0.000	3.1938	3.1254
					0		
ENSG00000143228	NUF2	2.7573	1.0485	1.5419	5.157	2.6713	2.6030
					1		
ENSG00000139146	FAM60A	2.9096	1.0484	0.7128	2.891	3.4454	3.3771
					9		
ENSG00000198015	MRPL42	3.3094	1.0484	0.2831	0.000	3.0952	3.0269
					0		
ENSG00000086475	SEPHS1	2.8875	1.0484	0.7128	3.173	3.1847	3.1165
					8		
ENSG00000183019	C19orf59	3.4483	1.0484	0.0000	0.000	2.6141	2.5460
					0		
ENSG00000153207	AHCTF1	3.2424	1.0483	0.2831	0.178	2.9797	2.9116
					8		
ENSG00000184575	XPOT	3.7021	1.0483	0.0000	0.000	3.1564	3.0883
					0		
ENSG00000111669	TPI1	3.0637	1.0483	0.4527	1.308	3.5550	3.4869
					9		
ENSG00000162782	TDRD5	2.7200	1.0483	1.5419	5.832	2.6817	2.6136
					8		
ENSG00000187735	TCEA1	2.6765	1.0483	1.5419	6.684	3.1445	3.0765
					4		
ENSG00000108106	UBE2S	2.6526	1.0482	1.5419	7.184	3.3470	3.2792
					5		
ENSG00000164087	POC1A	3.2160	1.0481	0.2831	0.305	3.0383	2.9705
					8		
ENSG00000108055	SMC3	3.8187	1.0480	0.0000	0.000	3.0869	3.0192
					0		
ENSG00000139734	DIAPH3	3.2928	1.0480	0.2831	0.000	2.7015	2.6339
					0		
ENSG00000152382	TADA1	3.3266	1.0480	0.2831	0.000	2.8560	2.7884
					0		
ENSG00000136758	YME1L1	2.8991	1.0480	0.7128	3.024	3.1078	3.0402
					2		
ENSG00000134602	MST4	2.2998	1.0479	4.6164	17.28	2.9038	2.8363
					87		
ENSG00000163811	WDR43	3.3907	1.0478	0.2831	0.000	2.8914	2.8240
					0		
ENSG00000196418	ZNF124	3.9006	1.0478	0.0000	0.000	2.6783	2.6109
					0		
ENSG00000111641	NOP2	2.6509	1.0478	1.9419	7.221	2.8494	2.7820
					4		
ENSG00000128626	MRPS12	3.6976	1.0478	0.0000	0.000	3.1220	3.0547
					0		
ENSG00000181192	DHTKD1	2.8001	1.0477	1.0024	4.442	2.8873	2.8200
					4		
ENSG00000067533	RRP15	3.5817	1.0477	0.0000	0.000	3.0830	3.0158
					0		
ENSG00000172167	MTBP	3.5574	1.0477	0.0000	0.000	2.6831	2.6159
					0		
ENSG00000107537	PHYH	2.2728	1.0475	4.6164	18.28	2.9539	2.8869
					14		
ENSG00000160818	GPATCH4	2.0370	1.0475	9.4316	28.18	2.6987	2.6317
					60		
ENSG00000137563	GGH	2.2114	1.0475	6.0330	20.65	2.7442	2.6773
					27		
ENSG00000065911	MTHFD2	3.2720	1.0475	0.2831	0.050	3.2585	3.1916
					8		
ENSG00000123473	STIL	2.7263	1.0474	1.5419	5.714	3.0628	2.9959
					6		
ENSG00000126249	PDCD2L	2.9794	1.0474	0.7128	2.095	2.9884	2.9216
					4		
ENSG00000165891	E2F7	2.7798	1.0474	1.0024	4.773	2.6947	2.6279
					4		
ENSG00000143367	TUFT1	2.6116	1.0473	1.9419	8.092	3.1081	3.0414
					5		
ENSG00000101166	SLMO2	3.7253	1.0473	0.0000	0.000	3.1360	3.0693
					0		
ENSG00000197275	RAD54B	3.6126	1.0472	0.0000	0.000	2.7912	2.7247
					0		

ENSG00000148143	ZNF462	2.1180	1.0472	7.5285	24.54 66	3.1731	3.1066
ENSG00000135776	ABCB10	3.3554	1.0471	0.2831	0.000 0	2.9200	2.8536
ENSG00000179409	GEMIN4	3.5142	1.0471	0.0000	0.000 0	3.1320	3.0657
ENSG00000135119	RNFT2	1.9518	1.0470	9.4316	32.24 38	2.9564	2.8901
ENSG00000143363	PRUNE	3.5274	1.0470	0.0000	0.000 0	2.9403	2.8740
ENSG00000116957	TBCE	3.2377	1.0470	0.2831	0.200 5	2.9002	2.8340
ENSG00000106554	CHCHD3	3.5170	1.0470	0.0000	0.000 0	3.0087	2.9425
ENSG00000007968	E2F2	2.1964	1.0469	6.0330	21.25 41	3.0501	2.9839
ENSG00000116750	UCHL5	3.6400	1.0469	0.0000	0.000 0	3.0902	3.0240
ENSG00000155561	NUP205	3.6310	1.0469	0.0000	0.000 0	3.2896	3.2235
ENSG00000168522	FNTA	3.6143	1.0468	0.0000	0.000 0	3.3313	3.2654
ENSG00000171863	RPS7	2.3907	1.0467	3.5713	14.18 15	3.0217	2.9558
ENSG00000097046	CDC7	2.6257	1.0467	1.9419	7.773 6	2.7878	2.7219
ENSG00000112414	GPR126	2.4064	1.0466	3.5713	13.67 79	2.6996	2.6338
ENSG00000224531	SMIM13	3.4951	1.0466	0.0000	0.000 0	2.8138	2.7481
ENSG00000092621	PHGDH	2.0303	1.0465	9.4316	28.49 95	3.5451	3.4795
ENSG00000197321	SVIL	2.7916	1.0464	1.0024	4.579 5	2.8118	2.7463
ENSG00000171453	POLR1C	3.9953	1.0464	0.0000	0.000 0	3.0832	3.0178
ENSG00000136238	RAC1	2.2102	1.0464	6.0330	20.70 04	2.7987	2.7333
ENSG00000104231	ZFAND1	2.8089	1.0464	1.0024	4.303 3	3.0957	3.0303
ENSG00000113810	SMC4	3.6465	1.0464	0.0000	0.000 0	2.6613	2.5959
ENSG00000085788	DDHD2	3.1080	1.0463	0.3673	0.965 8	3.0934	3.0280
ENSG00000183684	ALYREF	2.2731	1.0463	4.6164	18.27 05	3.0158	2.9505
ENSG00000139734	DIAPH3	3.3845	1.0463	0.2831	0.000 0	2.6909	2.6256
ENSG00000184220	CMSS1	3.2844	1.0463	0.2831	0.001 5	2.9580	2.8927
ENSG00000163155	LYSMD1	4.2299	1.0462	0.0000	0.000 0	2.7027	2.6375
ENSG00000143799	PARP1	3.5699	1.0462	0.0000	0.000 0	3.4526	3.3874
ENSG00000189042	ZNF567	3.7547	1.0462	0.0000	0.000 0	2.6971	2.6320
ENSG00000105131	EPHX3	2.0606	1.0461	7.5285	27.10 63	2.6361	2.5710
ENSG00000143643	TTC13	2.9794	1.0461	0.7128	2.095 6	3.0598	2.9947
c:\(ENSG00000106477", \"ENSG00000265594\"")	CEP41	3.9238	1.0461	0.0000	0.000 0	2.7469	2.6819
NA	OR7E156P	2.0767	1.0461	7.5285	26.37 35	2.7915	2.7265
ENSG00000091127	PUS7	2.7757	1.0461	1.0024	4.841 3	3.0911	3.0261
ENSG00000135486	HNRNPA1	2.9790	1.0460	0.7128	2.099 9	2.7342	2.6692
ENSG00000143321	HDGF	3.3530	1.0460	0.2831	0.000 0	3.3643	3.2993
ENSG00000171847	FAM90A1	2.3126	1.0460	4.6164	16.82 97	2.6398	2.5750
ENSG00000137692	DCUN1D5	2.9274	1.0458	0.7128	2.675 4	3.1825	3.1179
ENSG00000163507	KIAA1524	3.6579	1.0458	0.0000	0.000	2.6869	2.6222

					0		
					1.601		
ENSG00000040608	RTN4R	3.0300	1.0458	0.4527	7	2.7184	2.6539
					11.27		
ENSG00000141391	SLMO1	2.4870	1.0457	2.6800	32	2.6882	2.6237
					9.506		
ENSG00000105011	ASF1B	2.5531	1.0457	1.9419	4	2.8620	2.7976
					0.000		
ENSG00000124207	CSE1L	3.7429	1.0457	0.0000	0	3.4466	3.3822
					1.063		
ENSG00000177150	FAM210A	3.0948	1.0456	0.4527	6	2.7475	2.6832
					14.17		
ENSG00000152782	PANK1	2.3908	1.0456	3.5713	87	2.8980	2.8337
					0.000		
ENSG00000124279	FASTKD3	4.0409	1.0455	0.0000	0	2.8266	2.7623
					25.37		
ENSG00000170775	GPR37	2.0992	1.0455	7.5285	41	2.8639	2.7997
					0.000		
ENSG00000164163	ABCE1	3.2906	1.0455	0.2831	0	3.0596	2.9954
					26.46		
ENSG00000117266	CDK18	2.0747	1.0455	7.5285	32	2.8083	2.7441
					27.59		
ENSG00000125571	IL37	2.0499	1.0454	7.5285	17	2.7587	2.6946
					10.33		
ENSG00000118707	TGIF2	2.5213	1.0454	2.6800	18	2.9290	2.8649
					0.000		
ENSG00000132383	RPA1	3.7152	1.0454	0.0000	0	3.2910	3.2269
					10.89		
ENSG00000146733	PSPH	2.5006	1.0454	2.6800	26	2.8201	2.7560
					31.35		
ENSG00000197172	MAGEA6	1.9700	1.0454	9.4316	82	2.6010	2.5370
					3.440		
ENSG00000101773	RBBP8	2.8677	1.0453	1.0024	4	3.2003	3.1364
c:\ENSG00000160767\,"					4.761		
"ENSG00000262666\)"	FAM189B	2.7805	1.0453	1.0024	1	3.2697	3.2058
					6.446		
ENSG00000132646	PCNA	2.6883	1.0453	1.5419	1	3.2455	3.1816
					4.650		
ENSG00000120539	MASTL	2.7872	1.0453	1.0024	3	2.8679	2.8040
c:\ENSG00000249773\,"					0.269		
"ENSG00000239789\)"	MRPS17	3.2233	1.0453	0.2831	6	3.3060	3.2421
					0.000		
ENSG00000001167	NFYA	3.4388	1.0453	0.0000	0	2.8292	2.7654
					1.434		
ENSG00000184220	CMSS1	3.0489	1.0452	0.4527	1	3.2282	3.1643
					1.173		
ENSG00000102172	SMS	3.0805	1.0452	0.4527	5	3.3512	3.2874
					0.000		
ENSG00000005100	DHX33	3.3525	1.0451	0.2831	0	2.9975	2.9338
					0.000		
ENSG00000132436	FIGNL1	4.0526	1.0451	0.0000	0	2.7903	2.7267
					12.96		
ENSG00000171224	C10orf35	2.4293	1.0451	2.6800	82	3.0831	3.0195
					10.42		
ENSG00000143013	LMO4	2.5180	1.0450	2.6800	02	3.5065	3.4429
					0.383		
ENSG00000155959	VBP1	3.2010	1.0450	0.3673	5	3.2054	3.1419
					0.000		
ENSG00000113460	BRX1	3.9523	1.0450	0.0000	0	3.3047	3.2413
					8.431		
ENSG00000184428	TOP1MT	2.5970	1.0449	1.9419	2	3.1398	3.0764
					4.892		
ENSG00000104221	BRF2	2.7727	1.0449	1.0024	1	3.0093	2.9459
					1.128		
ENSG00000143756	FBXO28	3.0863	1.0449	0.4527	2	3.0798	3.0165
					1.424		
ENSG00000147536	GINS4	3.0500	1.0448	0.4527	2	2.7578	2.6945
					7.909		
ENSG00000188739	RBM34	2.6196	1.0448	1.9419	1	3.0191	2.9558
					0.000		
ENSG00000105176	URI1	3.3652	1.0447	0.2831	0	3.1604	3.0973
					7.156		
NA	DLEU2L	2.6539	1.0446	1.5419	1	2.6794	2.6164
					0.037		
ENSG00000143157	POGK	3.2752	1.0446	0.2831	7	3.3571	3.2941

ENSG00000167747	C19orf48	2.7061	1.0446	1.5419	6.096	2.9471	2.8841
ENSG00000174547	MRPL11	3.4457	1.0446	0.0000	5	3.2757	3.2128
ENSG00000147872	PLIN2	2.4051	1.0445	3.5713	0.000	3.3126	3.2498
ENSG00000104147	OIP5	2.8402	1.0444	1.0024	13.71	2.7572	2.6944
ENSG00000163002	NUP35	3.2899	1.0444	0.2831	89	2.8146	2.7519
ENSG00000138138	ATAD1	3.0227	1.0444	0.4527	3.829	3.0132	2.9505
ENSG00000148411	NACC2	2.4456	1.0444	2.6800	5	2.7578	2.6951
ENSG00000132481	TRIM47	1.9935	1.0444	9.4316	0.000	3.0980	3.0354
ENSG00000125398	SOX9	2.1192	1.0443	7.5285	1.668	3.1223	3.0598
ENSG00000108691	CCL2	2.0728	1.0443	7.5285	4	3.3142	3.2517
ENSG00000122643	NT5C3	2.6094	1.0441	1.9419	12.47	3.0366	2.9743
ENSG00000184162	NR2C2AP	3.2097	1.0441	0.2831	52	3.0301	2.9678
ENSG00000139734	DIAPH3	3.0405	1.0441	0.4527	30.23	2.6752	2.6130
ENSG00000124523	SIRT5	2.9907	1.0441	0.7128	34	3.0539	2.9917
ENSG00000057149	SERPINB3	1.9788	1.0440	9.4316	24.49	2.5409	2.4787
ENSG00000080608	KIAA0020	2.5329	1.0440	2.6800	45	3.2432	3.1812
ENSG00000143633	C1orf131	3.8249	1.0439	0.0000	26.54	3.1894	3.1274
ENSG00000112667	DNPH1	2.9942	1.0439	0.4527	96	3.2771	3.2151
ENSG00000122952	ZWINT	2.5739	1.0439	1.9419	8.142	2.6565	2.5945
ENSG00000084463	WBP11	2.9532	1.0439	0.7128	4	3.2820	3.2201
ENSG00000196812	ZSCAN16	2.6911	1.0439	1.5419	0.338	2.9818	2.9199
ENSG00000170425	ADORA2B	2.0332	1.0438	9.4316	0	2.7459	2.6841
ENSG00000108106	UBE2S	2.2521	1.0438	4.6164	1.507	3.1795	3.1177
ENSG00000075303	SLC25A40	3.3641	1.0438	0.2831	3	2.7425	2.6807
ENSG00000136522	MRPL47	2.5709	1.0437	1.9419	1.979	2.6506	2.5889
ENSG00000096696	DSP	3.1330	1.0437	0.3673	4	2.6353	2.5736
ENSG00000099901	RANBP1	2.9709	1.0436	0.7128	30.93	3.3747	3.3131
ENSG00000133119	RFC3	3.0485	1.0436	0.4527	72	2.8429	2.7813
ENSG00000132676	DAP3	4.1010	1.0436	0.0000	10.02	3.4281	3.3665
ENSG00000127922	SHFM1	2.4064	1.0436	3.5713	59	2.8473	2.7858
ENSG00000176273	SLC35G1	3.3896	1.0435	0.2831	0.000	2.6426	2.5811
ENSG00000077348	EXOSC5	2.8665	1.0435	1.0024	0	3.0803	3.0189
ENSG00000184675	AMER1	2.4552	1.0435	2.6800	1.944	3.0027	2.9413
ENSG00000146842	TMEM209	3.7097	1.0435	0.0000	2	3.1107	3.0493
ENSG00000108561	C1QBP	3.5707	1.0434	0.0000	3	3.3704	3.3091
ENSG00000130826	DKC1	3.5053	1.0434	0.0000	2.378	3.3464	3.2851
ENSG00000112110	MRPL18	3.5085	1.0433	0.0000	6.390	3.2337	3.1725
ENSG00000111845	PAK1IP1	3.0444	1.0433	0.4527	2	3.2120	3.1508

ENSG00000186871	ERCC6L	4.0550	1.0433	0.0000	0.000	2.6212	2.5600
ENSG00000135845	PIGC	3.7259	1.0433	0.0000	0.000	2.9691	2.9080
ENSG00000102172	SMS	2.7341	1.0432	1.5419	5.570	3.2825	3.2216
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ENSG00000138442	WDR12	3.1661	1.0431	0.3673	0.000	3.0860	3.0252
ENSG00000139343	SNRPF	3.7004	1.0431	0.0000	0.000	3.3923	3.3315
ENSG00000239672	NME1	2.8754	1.0430	1.0024	3.335	2.9058	2.8451
ENSG00000155755	TMEM237	2.6075	1.0430	1.9419	8.188	3.0912	3.0304
ENSG00000171453	POLR1C	3.5150	1.0430	0.0000	0.000	3.2309	3.1702
ENSG00000127191	TRAF2	2.6452	1.0429	1.9419	7.343	2.8305	2.7699
ENSG00000116918	TSNAX	2.6189	1.0428	1.9419	7.926	2.9916	2.9312
ENSG00000104889	RNASEH2A	3.0418	1.0427	0.4527	1.495	2.9812	2.9209
ENSG00000175792	RUVBL1	3.0670	1.0427	0.4527	1.281	3.0834	3.0230
ENSG00000164972	C9orf24	2.3361	1.0427	3.5713	16.00	2.6176	2.5572
ENSG00000162521	RBBP4	2.6072	1.0426	1.9419	8.193	3.1556	3.0954
ENSG00000107371	EXOSC3	2.8014	1.0426	1.0024	4.421	3.0267	2.9665
ENSG00000184428	TOP1MT	2.5544	1.0425	1.9419	9.473	2.8272	2.7672
ENSG00000112237	CCNC	2.0290	1.0425	9.4316	28.56	3.0552	2.9952
ENSG00000166508	MCM7	3.0580	1.0425	0.4527	1.356	3.4620	3.4020
ENSG00000061676	NCKAP1	2.4472	1.0424	2.6800	12.42	2.8145	2.7545
ENSG00000170035	UBE2E3	2.8523	1.0424	1.0024	52	3.2360	3.1761
ENSG00000115392	FANCL	2.7350	1.0424	1.5419	3.655	2.8919	2.8320
ENSG00000196644	GPR89C	2.6937	1.0423	1.5419	5.553	2.9665	2.9067
ENSG00000148773	MKI67	2.7940	1.0423	1.0024	6.340	2.6973	2.6375
ENSG00000143549	TPM3	2.6853	1.0422	1.5419	4.539	3.2105	3.1508
ENSG00000152240	HAUS1	2.9827	1.0422	0.7128	6.506	2.7828	2.7232
ENSG00000232956	SNHG15	2.9959	1.0421	0.4527	2.061	2.9649	2.9054
ENSG00000149503	INCENP	3.3941	1.0421	0.2831	1.926	2.7536	2.6941
ENSG00000180667	YOD1	2.6934	1.0421	1.5419	0.000	2.9105	2.8510
ENSG00000132003	ZSWIM4	2.3635	1.0421	3.5713	6.344	3.2143	3.1548
ENSG00000143612	C1orf43	2.2366	1.0421	4.6164	15.07	2.9450	2.8856
ENSG00000101146	RAE1	2.6659	1.0421	1.5419	19.65	2.7241	2.6647
ENSG00000171792	RHNO1	2.4164	1.0421	3.5713	92	2.9183	2.8588
ENSG00000081692	JMJD4	2.4942	1.0420	2.6800	6.903	2.9332	2.8738
ENSG00000168268	NT5DC2	2.2520	1.0420	4.6164	11.07	3.1299	3.0706
ENSG00000140525	FANCI	2.4844	1.0419	2.6800	10	2.7598	2.7005
ENSG00000136518	ACTL6A	3.0964	1.0419	0.4527	19.06	3.3886	3.3294
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					11.34		
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					1.051		
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ENSG00000160208	RRP1B	2.8844	1.0419	0.7128	3.215 3	2.8712	2.8119
ENSG00000134779	TPGS2	2.1767	1.0419	6.0330	22.05 87	3.1110	3.0518
ENSG00000185730	ZNF696	2.9342	1.0419	0.7128	2.595 3	2.9134	2.8543
ENSG00000144034	TPRKB	3.1994	1.0419	0.3673	0.392 5	3.0353	2.9761
ENSG00000153317	ASAP1	2.3227	1.0418	4.6164	16.47 34	2.9228	2.8637
ENSG00000140600	SH3GL3	2.0939	1.0418	7.5285	25.60 47	2.6120	2.5529
ENSG00000148426	PROSER2	2.2313	1.0418	4.6164	19.86 61	2.7209	2.6619
ENSG00000198176	TFDP1	2.5107	1.0417	2.6800	10.61 64	3.3096	3.2506
ENSG00000142856	ITGB3BP	2.4468	1.0417	2.6800	12.43 74	2.8405	2.7816
ENSG00000029993	HMGB3	2.0245	1.0417	9.4316	28.77 02	3.0009	2.9420
ENSG00000187840	EIF4EBP1	2.5326	1.0417	2.6800	10.03 32	2.8006	2.7416
ENSG00000138614	VWA9	3.1345	1.0417	0.3673	0.781 7	2.8955	2.8366
ENSG00000176853	FAM91A1	2.7892	1.0417	1.0024	4.618 0	2.8114	2.7525
ENSG00000085415	SEH1L	2.8337	1.0416	1.0024	3.925 0	2.9781	2.9193
ENSG00000148429	USP6NL	2.7250	1.0416	1.5419	5.738 1	2.9040	2.8453
ENSG00000145194	ECE2	2.0696	1.0416	7.5285	26.69 61	2.9569	2.8982
ENSG00000146731	CCT6A	2.6416	1.0415	1.9419	7.421 0	3.1792	3.1205
ENSG00000107833	NPM3	2.1036	1.0415	7.5285	25.17 83	3.1813	3.1226
ENSG00000155096	AZIN1	3.2362	1.0415	0.2831	0.207 7	3.4354	3.3767
ENSG00000182472	CAPN12	2.2507	1.0415	4.6164	19.11 46	2.7166	2.6579
ENSG00000174953	DHX36	3.2641	1.0415	0.2831	0.083 4	3.0252	2.9665
c(\ENSG00000170727", \"ENSG00000261236\"))	BOP1	2.5875	1.0414	1.9419	8.658 9	2.6583	2.5998
ENSG00000006652	IFRD1	2.2932	1.0414	4.6164	17.53 12	2.9332	2.8747
ENSG00000136824	SMC2	3.3796	1.0413	0.2831	0.000 0	2.7410	2.6825
ENSG00000162639	HENMT1	2.5531	1.0413	1.9419	9.504 9	3.1613	3.1029
ENSG00000143252	SDHC	2.5352	1.0413	2.6800	9.965 5	3.0397	2.9812
ENSG00000164430	MB21D1	2.8724	1.0413	1.0024	3.376 2	2.6572	2.5988
c(\ENSG00000188092", \"ENSG00000117262", \"ENSG00000264337", \"ENSG00000264776\"))	GPR89B	2.6406	1.0413	1.9419	7.443 5	2.9064	2.8480
ENSG00000181061	HIGD1A	2.8060	1.0413	1.0024	4.348 9	3.2710	3.2126
ENSG00000130024	PHF10	2.9420	1.0412	0.7128	2.504 7	2.8884	2.8301
ENSG00000095787	WAC	3.3905	1.0412	0.2831	0.000 0	3.1931	3.1348
ENSG00000114503	NCBP2	3.2376	1.0412	0.2831	0.201 1	3.0761	3.0178
ENSG00000106462	EZH2	2.3023	1.0412	4.6164	17.19 97	2.7167	2.6585
ENSG00000143575	HAX1	3.2440	1.0412	0.2831	0.171 6	2.8776	2.8194
ENSG00000239672	NME1	3.4872	1.0412	0.0000	0.000 0	3.5634	3.5052
ENSG00000100479	POLE2	2.5671	1.0411	1.9419	9.154	2.8838	2.8257

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ENSG00000158710	TAGLN2	2.7154	1.0411	1.5419	5.919	3.5316	3.4735
					8		
					2.720		
ENSG00000118496	FBXO30	2.9237	1.0411	0.7128	1	2.8652	2.8071
					0.000		
ENSG00000139343	SNRPF	3.6550	1.0411	0.0000	0	3.4590	3.4010
					10.16		
ENSG00000117569	PTBP2	2.5276	1.0410	2.6800	52	2.8868	2.8289
					5.712		
ENSG00000146410	MTFR2	2.7264	1.0410	1.5419	2	2.7624	2.7044
					28.64		
ENSG00000133739	LRRCC1	2.0271	1.0410	9.4316	79	3.0624	3.0045
					1.135		
ENSG00000178966	RMI1	3.0854	1.0409	0.4527	1	2.8809	2.8230
					27.72		
ENSG00000070669	ASNS	2.0471	1.0408	7.5285	18	3.2810	3.2233
					3.928		
ENSG00000168275	COA6	2.8335	1.0408	1.0024	9	2.9140	2.8563
					7.874		
ENSG00000106153	CHCHD2	2.6212	1.0408	1.9419	4	3.4418	3.3841
					0.507		
ENSG00000120370	GORAB	3.1786	1.0408	0.3673	6	2.9045	2.8469
					31.67		
ENSG00000176170	SPHK1	1.9635	1.0407	9.4316	60	3.0818	3.0242
					20.69		
ENSG00000196739	COL27A1	2.2102	1.0407	6.0330	95	2.6549	2.5973
					0.000		
ENSG00000144231	POLR2D	3.3857	1.0406	0.2831	0	2.9598	2.9023
					0.000		
ENSG00000163938	GNL3	3.3208	1.0406	0.2831	0	3.1907	3.1333
					0.941		
ENSG00000128513	POT1	3.1114	1.0406	0.3673	2	2.6835	2.6261
					5.180		
ENSG00000123374	CDK2	2.7559	1.0406	1.5419	8	2.7989	2.7415
					9.626		
ENSG00000247077	PGAM5	2.5483	1.0405	1.9419	9	2.8875	2.8302
					2.067		
ENSG00000156374	PCGF6	2.9821	1.0405	0.7128	3	2.6923	2.6350
					1.704		
ENSG00000112130	RNF8	3.0188	1.0405	0.4527	8	2.8097	2.7524
					19.96		
ENSG00000023909	GCLM	2.2288	1.0405	4.6164	51	2.9884	2.9312
					7.046		
ENSG00000111196	MAGOHB	2.6591	1.0404	1.5419	1	2.6295	2.5723
					30.41		
ENSG00000132182	NUP210	1.9897	1.0404	9.4316	11	2.9042	2.8470
c(ENSG00000133818",					18.21		
"ENSG00000262489")"	RRAS2	2.2746	1.0404	4.6164	57	2.9179	2.8607
					23.74		
ENSG00000092969	TGFB2	2.1367	1.0403	6.0330	13	2.6395	2.5824
					6.062		
ENSG00000167005	NUDT21	2.7079	1.0403	1.5419	9	2.9255	2.8685
					3.307		
ENSG00000186625	KATNA1	2.8775	1.0403	0.7128	4	3.1267	3.0697
					1.899		
ENSG00000135763	URB2	2.9986	1.0403	0.4527	6	2.7989	2.7419
					0.561		
ENSG00000124532	MRS2	3.1694	1.0403	0.3673	5	2.9224	2.8654
					2.986		
ENSG00000124535	WRNIP1	2.9021	1.0402	0.7128	8	2.8587	2.8019
					27.26		
ENSG00000179241	LDLRAD3	2.0571	1.0402	7.5285	40	2.7380	2.6812
					5.156		
ENSG00000171858	RPS21	2.7573	1.0402	1.5419	7	3.3162	3.2594
					26.16		
ENSG00000169242	EFNA1	2.0814	1.0401	7.5285	26	3.0951	3.0383
					0.217		
ENSG00000156374	PCGF6	3.2342	1.0401	0.2831	1	2.9199	2.8631
					12.58		
ENSG00000168393	DTYMK	2.4417	1.0401	2.6800	96	3.0833	3.0266
					12.17		
ENSG00000156136	DCK	2.4555	1.0401	2.6800	90	2.8984	2.8417
					0.000		
ENSG00000153767	GTF2E1	3.3229	1.0401	0.2831	0	2.8971	2.8404



ENSG00000163872	YEATS2	2.6038	1.0401	1.9419	8.273 8	3.1336	3.0769
ENSG00000228782	MRPL45P2	2.5751	1.0401	1.9419	8.957 3	3.0285	2.9719
ENSG00000135829	DHX9	2.8401	1.0400	1.0024	3.830 4	2.8653	2.8086
ENSG00000035687	ADSS	2.5739	1.0400	1.9419	8.987 1	2.9201	2.8635
ENSG00000124789	NUP153	3.1127	1.0399	0.3673	0.932 0	2.9995	2.9430
ENSG00000137513	NARS2	2.9870	1.0399	0.7128	2.016 3	2.9525	2.8960
ENSG00000253729	PRKDC	2.5200	1.0399	2.6800	10.36 70	3.1681	3.1117
ENSG00000146072	TNFRSF21	1.9612	1.0399	9.4316	31.78 63	3.2810	3.2246
ENSG00000183765	CHEK2	2.8546	1.0399	1.0024	3.622 4	2.8598	2.8034
ENSG00000116830	TTF2	2.3489	1.0398	3.5713	15.56 54	3.0238	2.9675
NA	RECQL4	2.1960	1.0398	6.0330	21.26 92	2.7597	2.7034
ENSG00000030066	NUP160	2.9426	1.0398	0.7128	2.498 5	3.1303	3.0741
ENSG00000145220	LYAR	2.7952	1.0396	1.0024	4.521 4	3.0838	3.0277
ENSG00000127586	CHTF18	2.3569	1.0396	3.5713	15.29 52	2.8762	2.8202
ENSG00000184428	TOP1MT	2.3854	1.0396	3.5713	14.35 21	2.7534	2.6974
ENSG00000113368	LMNB1	3.0214	1.0396	0.4527	1.680 3	2.6684	2.6124
ENSG00000104472	CHRAC1	2.6658	1.0395	1.5419	6.906 7	2.8409	2.7850
ENSG00000101146	RAE1	3.0103	1.0395	0.4527	1.785 7	3.1850	3.1291
ENSG00000178409	BEND3	2.7740	1.0395	1.0024	4.869 8	2.7501	2.6943
ENSG00000184575	XPOT	2.2180	1.0394	6.0330	20.39 05	2.7793	2.7235
ENSG00000138614	VWA9	2.7916	1.0394	1.0024	4.579 6	2.9689	2.9131
ENSG00000171492	LRRC8D	2.3476	1.0394	3.5713	15.61 12	2.9007	2.8450
ENSG00000141425 c(\ENSG00000183598", \"ENSG00000203811\", \"ENSG00000203852\", \"ENSG00000265133\", \"ENSG00000265198\", \"ENSG00000266725\"))	RPRD1A	2.5354	1.0394	2.6800	9.960 4	3.0191	2.9634
ENSG00000253729	PRKDC	2.7631	1.0393	1.5419	1.986 0	2.6659	2.6102
ENSG00000128534	NAA38	3.0237	1.0393	0.4527	5.056 6	2.6666	2.6110
ENSG00000075188	NUP37	3.3042	1.0392	0.2831	1.659 0	2.8461	2.7905
ENSG00000100162	CENPM	2.3062	1.0392	4.6164	0.000 0	3.2568	3.2014
ENSG00000213551	DNAJC9	2.8990	1.0392	0.7128	17.05 85	2.8311	2.7756
ENSG00000137054	POLR1E	2.2150	1.0391	6.0330	3.025 3	3.2963	3.2409
ENSG00000116641	DOCK7	2.6451	1.0390	1.9419	20.50 64	2.8750	2.8196
ENSG00000141738	GRB7	2.1125	1.0390	7.5285	7.345 0	3.0476	2.9923
ENSG00000188636	LDOC1L	2.5067	1.0390	2.6800	24.78 80	2.8238	2.7685
ENSG00000143742	SRP9	2.4266	1.0390	3.5713	10.72 52	2.9480	2.8928
ENSG00000175175	PPM1E	2.3849	1.0390	3.5713	13.04 95	3.3572	3.3021
c(\ENSG00000124593\",	TOMM6	3.8001	1.0389	0.0000	14.36 93	2.6028	2.5477
					0.000	3.4751	3.4200

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ENSG00000180992	MRPL14	3.5601	1.0389	0.0000	0.000	3.4068	3.3517
ENSG00000000419	DPM1	3.0430	1.0389	0.4527	1.485	3.2726	3.2175
ENSG00000001561	ENPP4	2.3949	1.0389	3.5713	14.04	2.7664	2.7113
ENSG00000104312	RIPK2	2.6371	1.0389	1.9419	53	3.2429	3.1879
ENSG00000247626	MARS2	2.8801	1.0389	0.7128	7.519	2.7800	2.7250
ENSG00000174547	MRPL11	2.8498	1.0389	1.0024	4	3.2104	3.1554
ENSG00000122643	NT5C3	2.4344	1.0389	2.6800	3.272	3.2646	3.2096
ENSG00000146457	WTAP	2.3290	1.0388	3.5713	1	2.9068	2.8519
ENSG00000065665	SEC61A2	2.3663	1.0388	3.5713	3.691	2.7296	2.6747
ENSG00000182768	NGRN	2.3340	1.0388	3.5713	12.81	3.0817	3.0268
ENSG00000110492	MDK	2.0482	1.0388	7.5285	11	2.6040	2.5491
ENSG00000058056	USP13	2.0972	1.0388	7.5285	16.25	3.0567	3.0018
ENSG00000061676	NCKAP1	2.8422	1.0388	1.0024	34	3.0506	2.9958
ENSG00000111843	TMEM14C	3.1792	1.0387	0.3673	14.97	3.4503	3.3954
ENSG00000198700	IPO9	3.0929	1.0387	0.4527	16.07	3.0129	2.9582
ENSG00000075702	WDR62	3.0853	1.0386	0.4527	16.07	2.6423	2.5877
ENSG00000114416	FXR1	2.8268	1.0386	1.0024	71	3.2235	3.1688
ENSG00000096401	CDC5L	2.7721	1.0386	1.0024	27.66	2.9815	2.9268
ENSG00000108395	TRIM37	2.9211	1.0386	0.7128	94	2.8256	2.7710
ENSG00000181788	SIAH2	2.7388	1.0386	1.5419	25.45	2.8380	2.7834
ENSG00000114503	NCBP2	2.8102	1.0386	1.0024	93	2.9896	2.9350
ENSG00000136810	TXN	4.0508	1.0386	0.0000	3.800	3.6650	3.6105
ENSG00000198015	MRPL42	2.7514	1.0385	1.5419	8	2.8118	2.7572
ENSG00000162961	DPY30	2.8644	1.0385	1.0024	0.504	2.7356	2.6811
ENSG00000020922	MRE11A	3.4999	1.0384	0.0000	3	2.7449	2.6905
ENSG00000116957	TBCE	3.1005	1.0384	0.4527	1.077	3.1950	3.1406
c(\ENSG00000141698", "ENSG00000260753")"	NT5C3B	2.2427	1.0383	4.6164	4	3.0679	3.0137
ENSG00000185798	WDR53	3.1989	1.0383	0.3673	1.136	2.8482	2.7940
ENSG00000157593	SLC35B2	2.6543	1.0383	1.5419	4.028	3.2827	3.2285
ENSG00000112992	NNT	2.0863	1.0382	7.5285	1	2.7499	2.6958
c(\ENSG00000143614", "ENSG00000261992")"	GATAD2B	3.0460	1.0382	0.4527	4.901	2.9087	2.8546
ENSG00000119335	SET	2.5096	1.0382	2.6800	7	2.8688	2.8147
ENSG00000137692	DCUN1D5	2.5175	1.0382	2.6800	7.147	3.1568	3.1027
c(\ENSG00000049541", "ENSG00000261911")"	RFC2	2.2935	1.0382	4.6164	5	2.8011	2.7470
ENSG00000198176	TFDP1	2.3264	1.0382	3.5713	45	3.2897	3.2357
ENSG00000165704	HPRT1	2.3872	1.0382	3.5713	14.29	3.0731	3.0191
ENSG00000177192	PUS1	2.6358	1.0382	1.9419	36	2.8242	2.7702

ENSG00000013275	PSMC4	2.2221	1.0381	6.0330	20.22 80	3.1016	3.0476
ENSG00000105202	FBL	2.8340	1.0381	1.0024	3.921 1	3.4064	3.3524
ENSG00000135049	AGTPBP1	2.5047	1.0381	2.6800	10.78 19	2.9538	2.8998
ENSG00000101190	TCFL5	2.5025	1.0381	2.6800	10.84 07	3.0317	2.9777
ENSG00000013275	PSMC4	2.2202	1.0381	6.0330	20.30 00	3.0918	3.0379
ENSG00000013275	PSMC4	2.4229	1.0381	3.5713	13.16 34	3.0755	3.0217
ENSG00000163006	CCDC138	3.2581	1.0380	0.2831	0.109 0	2.6804	2.6265
ENSG00000143498 c(\ENSG00000137337", \ENSG000000231135", \ENSG000000225589", \ENSG000000228575", \ENSG000000206481", \ENSG000000224587", \ENSG000000234012", \ENSG000000237095")"	TAF1A	3.5859	1.0380	0.0000	0.000 0	2.6597	2.6058
	MDC1	2.5554	1.0380	1.9419	9.446 7	3.0361	2.9823
ENSG00000184083	FAM120C	2.2342	1.0380	4.6164	19.75 42	2.7933	2.7395
ENSG00000143771	CNIH4	2.7604	1.0379	1.5419	5.103 2	3.3547	3.3010
ENSG00000152192	POU4F1	2.0458	1.0379	7.5285	27.78 21	2.5916	2.5380
ENSG00000183340	JRKL	3.6074	1.0379	0.0000	0.000 0	2.6351	2.5815
ENSG00000160803	UBQLN4	2.7417	1.0379	1.5419	5.433 3	3.3652	3.3116
ENSG00000132749	MTL5	2.0902	1.0378	7.5285	25.77 24	2.6454	2.5918
ENSG00000136758	YME1L1	2.6024	1.0377	1.9419	8.306 8	3.1041	3.0507
ENSG00000111641	NOP2	2.1687	1.0377	6.0330	22.38 78	3.3122	3.2588
ENSG00000143643 c(\ENSG00000106477", \ENSG000000265594")"	TTC13	2.4045	1.0376	3.5713	13.73 84	2.9352	2.8819
	CEP41	2.4096	1.0376	3.5713	13.57 92	2.8808	2.8275
ENSG00000260852	FBXL19- AS1	2.2121	1.0376	6.0330	20.62 43	2.7566	2.7033
ENSG00000117523 c(\ENSG00000186141", \ENSG000000264806")"	PRRC2C	3.6191	1.0376	0.0000	0.000 0	3.2032	3.1500
	POLR3C	3.0630	1.0376	0.4527	1.314 9	3.2582	3.2050
ENSG00000166016	ABTB2	2.0190	1.0375	9.4316	29.02 78	2.6958	2.6426
ENSG00000182993	C12orf60	2.9427	1.0375	0.7128	2.496 7	2.6231	2.5699
ENSG00000189171	S100A13	2.0396	1.0375	9.4316	28.06 61	2.6547	2.6015
ENSG00000154640	BTG3	2.0618	1.0375	7.5285	27.04 75	3.2619	3.2088
ENSG00000139572	GPR84	2.0496	1.0375	7.5285	27.60 52	2.7477	2.6946
ENSG00000198551	ZNF627	2.7188	1.0374	1.5419	5.854 5	2.8525	2.7995
ENSG00000157800	SLC37A3	3.0379	1.0374	0.4527	1.530 1	2.8034	2.7504
ENSG00000166855	CLPX	3.2086	1.0374	0.2831	0.343 8	3.0400	2.9870
ENSG00000143258	USP21	2.7791	1.0374	1.0024	4.784 1	2.9487	2.8958
ENSG00000138385	SSB	3.5531	1.0374	0.0000	0.000 0	3.2438	3.1908
ENSG00000128602	SMO	2.1073	1.0374	7.5285	25.01 68	2.7903	2.7373
ENSG00000137955	RABGGTB	2.9494	1.0373	0.7128	2.421 0	3.2791	3.2262
ENSG00000179886	TIGD5	2.3040	1.0373	4.6164	17.13	3.1468	3.0940

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ENSG00000090263	MRPS33	3.0218	1.0373	0.4527	1.676	2.9119	2.8591
					9		
ENSG00000132383	RPA1	3.0440	1.0373	0.4527	1.476	3.0575	3.0047
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ENSG00000010165	METTL13	3.4369	1.0373	0.0000	0.000	3.2909	3.2381
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ENSG00000134222	PSRC1	2.0038	1.0373	9.4316	29.74	2.9237	2.8709
					48		
ENSG00000114209	PDCD10	2.9552	1.0373	0.7128	2.355	3.2183	3.1655
					9		
ENSG00000200913	SNORD46	2.0306	1.0373	9.4316	28.48	2.6390	2.5862
					67		
ENSG00000100297	MCM5	2.5287	1.0373	2.6800	10.13	3.0820	3.0293
					52		
ENSG00000151461	UPF2	2.7683	1.0373	1.0024	4.967	3.2811	3.2283
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ENSG00000143815	LBR	2.5743	1.0373	1.9419	8.978	2.6484	2.5956
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ENSG00000097021	ACOT7	1.9622	1.0372	9.4316	31.73	2.9882	2.9354
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ENSG00000101138	CSTF1	2.4910	1.0372	2.6800	11.15	2.6554	2.6026
					88		
ENSG00000128567	PODXL	2.0287	1.0372	9.4316	28.57	2.7860	2.7333
					25		
ENSG00000143178	TBX19	2.3876	1.0371	3.5713	14.28	2.7557	2.7031
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ENSG00000170540	ARL6IP1	3.5247	1.0370	0.0000	0.000	3.5328	3.4804
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ENSG00000101782	RIOK3	2.4789	1.0370	2.6800	11.50	3.0450	2.9925
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ENSG00000088035	ALG6	2.5440	1.0370	1.9419	9.738	3.0493	2.9969
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ENSG00000179152	TCAIM	2.7129	1.0370	1.5419	5.966	2.7117	2.6594
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ENSG00000126003	PLAGL2	2.5299	1.0369	2.6800	10.10	2.9797	2.9274
c(\ENSG00000077809",					31		
\ENSG00000263001\)"	GTF2I	2.1851	1.0369	6.0330	21.71	2.8287	2.7763
					49		
ENSG00000214113	LYRM4	2.8637	1.0369	1.0024	3.494	2.8340	2.7817
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ENSG00000137547	MRPL15	2.1948	1.0369	6.0330	21.31	3.2781	3.2258
					81		
ENSG00000136824	SMC2	2.4879	1.0369	2.6800	11.24	2.9070	2.8548
					79		
ENSG00000141759	TXNL4A	2.3203	1.0368	4.6164	16.55	2.7488	2.6966
c(\ENSG00000181085",					80		
\ENSG00000260463\)"	MAPK15	2.3443	1.0368	3.5713	15.72	2.6589	2.6067
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ENSG00000134717	BTF3L4	2.6239	1.0368	1.9419	7.813	3.1176	3.0654
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ENSG00000112651	MRPL2	2.9195	1.0368	0.7128	2.770	3.0414	2.9892
					9		
ENSG00000170860	LSM3	2.7736	1.0368	1.0024	4.877	3.3604	3.3082
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ENSG00000089685	BIRC5	2.1807	1.0368	6.0330	21.89	2.7188	2.6667
					27		
ENSG00000171806	METTL18	2.9921	1.0367	0.7128	1.964	2.6761	2.6240
					8		
ENSG00000136810	TXN	3.6634	1.0367	0.0000	0.000	3.5733	3.5213
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ENSG00000151461	UPF2	2.4738	1.0367	2.6800	11.64	3.1653	3.1133
					68		
ENSG00000131931	THAP1	2.3634	1.0367	3.5713	15.07	2.7630	2.7110
					81		
ENSG00000132485	ZRANB2	2.6950	1.0367	1.5419	6.312	2.9931	2.9411
					7		
ENSG00000175792	RUVBL1	2.7481	1.0366	1.5419	5.318	2.9624	2.9106
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ENSG00000164916	FOXK1	2.5942	1.0366	1.9419	8.497	3.0648	3.0130
c(\ENSG00000117360",					3		
\ENSG00000265228\)"	PRPF3	2.5322	1.0366	2.6800	10.04	3.2476	3.1959
					37		
ENSG00000171467	ZNF318	2.7218	1.0365	1.5419	5.797	2.7380	2.6863
					5		

ENSG00000188167	TMPPE	3.3028	1.0365	0.2831	0.000 0	2.5956	2.5438
ENSG00000132749	MTL5	2.4442	1.0365	2.6800	12.51 44	2.6073	2.5556
ENSG00000101557	USP14	2.4512	1.0365	2.6800	12.30 80	2.8060	2.7543
ENSG00000143252	SDHC	2.6512	1.0365	1.9419	7.214 8	3.0946	3.0429
ENSG00000075142	SRI	2.3755	1.0365	3.5713	14.67 56	2.8503	2.7986
ENSG00000143379	SETDB1	2.8525	1.0364	1.0024	3.652 9	3.0874	3.0358
NA	CCT6P1	2.4499	1.0364	2.6800	12.34 42	3.2003	3.1487
ENSG00000092208	GEMIN2	2.4405	1.0364	2.6800	12.62 63	2.8573	2.8057
ENSG00000107371	EXOSC3	2.6176	1.0364	1.9419	7.954 7	3.1228	3.0712
ENSG00000019186	CYP24A1	2.7054	1.0364	1.5419	6.109 5	2.5080	2.4564
ENSG00000134265	NAPG	2.9369	1.0364	0.7128	2.563 8	2.7392	2.6877
ENSG00000055044	NOP58	2.5525	1.0364	1.9419	9.519 6	3.1379	3.0864
ENSG00000106443	PHF14	2.5688	1.0363	1.9419	9.112 6	2.9971	2.9456
ENSG00000110104	CCDC86	2.7973	1.0363	1.0024	4.487 5	3.1376	3.0862
ENSG00000070501	POLB	2.3724	1.0363	3.5713	14.77 85	3.2455	3.1940
ENSG00000152382	TADA1	2.8660	1.0363	1.0024	3.463 9	2.8594	2.8079
ENSG00000104856	RELB	2.0612	1.0363	7.5285	27.07 54	2.8730	2.8215
ENSG00000131686	CA6	2.3952	1.0363	3.5713	14.03 59	2.6047	2.5533
ENSG00000124523	SIRT5	2.7673	1.0363	1.0024	4.983 8	2.8150	2.7636
ENSG00000101189	MRGBP	2.6276	1.0363	1.9419	7.729 7	3.2446	3.1932
ENSG00000110172	CHORDC1	2.3005	1.0363	4.6164	17.26 37	2.8567	2.8053
c:\(ENSG00000204388\", \"ENSG00000234475\", \"ENSG00000231555\", \"ENSG00000215328\", \"ENSG00000212866\", \"ENSG00000204389\", \"ENSG00000237724\", \"ENSG00000224501\", \"ENSG00000235941\", \"ENSG00000232804\")	HSPA1B	2.7396	1.0362	1.5419	5.471 2	3.4840	3.4327
ENSG00000164944	KIAA1429	3.1704	1.0362	0.3673	0.555 9	2.6826	2.6312
ENSG00000157800	SLC37A3	2.6710	1.0362	1.5419	6.798 2	2.9789	2.9275
ENSG00000111726	CMAS	2.3177	1.0362	4.6164	16.64 90	3.1930	3.1417
ENSG00000143549	TPM3	2.0853	1.0362	7.5285	25.98 90	2.7976	2.7463
ENSG00000119969	HELLS	2.4962	1.0361	2.6800	11.01 45	2.6795	2.6283
ENSG00000041357	PSMA4	3.1045	1.0361	0.4527	0.990 8	3.2363	3.1851
ENSG00000116062	MSH6	2.9638	1.0361	0.7128	2.261 1	3.2977	3.2465
ENSG00000112039	FANCE	2.0259	1.0361	9.4316	28.70 51	2.8880	2.8368
ENSG00000157800	SLC37A3	2.5427	1.0361	1.9419	9.770 3	2.6728	2.6216
ENSG00000163444	TMEM183A	3.4048	1.0361	0.2831	0.000 0	3.4223	3.3712
ENSG00000082212	ME2	2.2230	1.0361	6.0330	20.19 14	2.9971	2.9460
ENSG00000166226	CCT2	3.3108	1.0360	0.2831	0.000	3.3812	3.3302

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ENSG00000184445	KNTC1	2.2165	1.0360	6.0330	93	3.0532	3.0022
					28.17		
ENSG00000104635	SLC39A14	2.0374	1.0360	9.4316	05	2.9272	2.8761
					15.40		
ENSG00000111726	CMAS	2.3538	1.0360	3.5713	11	3.2030	3.1519
					14.73		
ENSG00000204650	MGC57346	2.3737	1.0360	3.5713	46	2.9420	2.8910
					20.26		
ENSG00000132541	HRSP12	2.2211	1.0360	6.0330	68	3.0617	3.0107
					14.23		
ENSG00000152558	TMEM123	2.3890	1.0360	3.5713	65	3.4707	3.4197
					5.871		
ENSG00000089094	KDM2B	2.7179	1.0360	1.5419	1	3.3006	3.2496
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ENSG00000184428	TOP1MT	2.1670	1.0359	6.0330	99	2.6745	2.6236
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ENSG00000108953	YWHAE	3.2640	1.0359	0.2831	1	2.6912	2.6404
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ENSG00000163975	MFI2	1.9853	1.0359	9.4316	57	2.6298	2.5789
					9.641		
ENSG00000154582	TCEB1	2.5477	1.0358	1.9419	8	3.1190	3.0682
					4.698		
ENSG00000139734	DIAPH3	2.7843	1.0358	1.0024	6	2.6285	2.5777
					20.99		
ENSG00000144668	ITGA9	2.2028	1.0358	6.0330	52	2.6687	2.6179
					3.974		
ENSG00000143198	MGST3	2.8304	1.0358	1.0024	3	3.5070	3.4563
					20.35		
ENSG00000243147	MRPL33	2.2190	1.0358	6.0330	07	3.2529	3.2022
					14.12		
ENSG00000165629	ATP5C1	2.3925	1.0358	3.5713	17	3.4062	3.3555
					13.11		
ENSG00000124523	SIRT5	2.4244	1.0357	3.5713	68	2.7115	2.6609
					8.411		
ENSG00000096696	DSP	2.5979	1.0357	1.9419	4	2.7008	2.6502
					18.82		
ENSG00000167840	ZNF232	2.2584	1.0357	4.6164	30	2.8896	2.8391
					13.02		
ENSG00000181061	HIGD1A	2.4273	1.0356	3.5713	76	3.2995	3.2489
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ENSG00000159873	CCDC117	2.4423	1.0356	2.6800	32	3.0515	3.0011
					20.65		
ENSG00000156170	NDUFAF6	2.2112	1.0355	6.0330	75	3.0374	2.9871
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ENSG00000205268	PDE7A	2.4106	1.0355	3.5713	58	2.7408	2.6905
					21.86		
ENSG00000131626	PPFIA1	2.1815	1.0355	6.0330	04	2.7700	2.7197
					14.98		
ENSG00000111602	TIMELESS	2.3662	1.0354	3.5713	45	3.0244	2.9742
					13.81		
ENSG00000177084	POLE	2.4020	1.0354	3.5713	76	2.8851	2.8349
					18.28		
NA	EMG1	2.2726	1.0354	4.6164	77	3.2185	3.1682
					21.53		
ENSG00000090487	SPG21	2.1896	1.0354	6.0330	05	2.7661	2.7158
					8.178		
ENSG00000113460	BRIX1	2.6079	1.0354	1.9419	9	3.0452	2.9950
					5.561		
ENSG00000133422	MORC2	2.7346	1.0354	1.5419	7	3.0765	3.0263
					4.994		
ENSG00000133316	WDR74	2.7667	1.0354	1.0024	3	2.8828	2.8327
					6.580		
ENSG00000158402	CDC25C	2.6817	1.0354	1.5419	1	2.7241	2.6740
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ENSG00000010072	SPRTN	3.2207	1.0353	0.2831	4	2.7220	2.6719
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ENSG00000131876	SNRPA1	2.9590	1.0353	0.7128	3	3.4484	3.3983
					11.52		
ENSG00000143390	RFX5	2.4781	1.0353	2.6800	56	3.2828	3.2327
					10.06		
ENSG00000131462	TUBG1	2.5316	1.0353	2.6800	10	3.1608	3.1107
					5.261		
ENSG00000158402	CDC25C	2.7513	1.0353	1.5419	7	2.6753	2.6252

ENSG00000159055	MIS18A	2.8770	1.0353	1.0024	3.314 0	2.8219	2.7719
ENSG00000186638	KIF24	2.5204	1.0352	2.6800	10.35 74	2.6600	2.6100
ENSG00000112640	PPP2R5D	3.2144	1.0352	0.2831	0.313 9	2.7479	2.6980
ENSG00000121621	KIF18A	2.4706	1.0352	2.6800	11.74 05	2.6582	2.6083
ENSG00000119403	PHF19	2.1989	1.0352	6.0330	21.15 40	2.8024	2.7525
ENSG00000134046	MBD2	2.5394	1.0352	2.6800	9.857 4	2.7977	2.7478
ENSG00000005175	RPAP3	2.9440	1.0351	0.7128	2.481 9	2.9737	2.9239
ENSG00000206418	RAB12	2.5383	1.0351	2.6800	9.884 3	2.6013	2.5516
ENSG00000139350	NEDD1	2.9182	1.0351	0.7128	2.786 7	2.7099	2.6602
ENSG00000118007	STAG1	3.2011	1.0351	0.3673	0.383 1	2.9558	2.9061
c(\ENSG00000174100", \"ENSG00000259980\")	MRPL45	2.0910	1.0350	7.5285	25.73 40	2.8904	2.8407
ENSG00000065154	OAT	2.0934	1.0350	7.5285	25.62 75	3.3482	3.2986
ENSG00000204899	MZT1	2.0799	1.0350	7.5285	26.23 13	2.7017	2.6521
c(\ENSG00000214706", \"ENSG00000263093\")	IFRD2	2.5664	1.0350	1.9419	9.170 8	2.8465	2.7969
ENSG00000072274	TFRC	2.2823	1.0350	4.6164	17.92 85	3.4213	3.3717
ENSG00000112941	PAPD7	2.8555	1.0350	1.0024	3.610 1	3.0922	3.0426
ENSG00000080822	CLDND1	2.8554	1.0350	1.0024	3.611 2	3.2528	3.2031
ENSG00000180764	PIPSL	2.3981	1.0350	3.5713	13.94 31	3.1278	3.0783
c(\ENSG00000147996", \"ENSG00000172785\")	CBWD5	2.3378	1.0350	3.5713	15.94 57	2.9855	2.9359
ENSG00000255112	CHMP1B	2.5731	1.0349	1.9419	9.005 8	3.2286	3.1790
ENSG00000143376	SNX27	3.1411	1.0349	0.3673	0.737 9	3.2214	3.1719
ENSG00000074201	CLNS1A	2.4344	1.0349	2.6800	12.81 19	3.3199	3.2704
ENSG00000153560	UBP1	3.0374	1.0349	0.4527	1.534 8	3.2199	3.1704
ENSG00000167695	FAM57A	2.0833	1.0349	7.5285	26.07 80	3.0343	2.9848
ENSG00000106344	RBM28	2.7031	1.0348	1.5419	6.155 0	2.9170	2.8676
ENSG00000155100	OTUD6B	2.7673	1.0348	1.0024	4.984 3	2.8376	2.7882
ENSG00000115128	SF3B14	2.5649	1.0348	1.9419	9.207 9	3.4228	3.3734
ENSG00000127947	PTPN12	2.5696	1.0348	1.9419	9.093 5	3.0407	2.9914
ENSG00000177425	PAWR	2.3457	1.0348	3.5713	15.67 57	2.9404	2.8911
ENSG00000080839	RBL1	2.7833	1.0348	1.0024	4.714 7	2.6285	2.5792
ENSG00000143793	C1orf35	2.8356	1.0348	1.0024	3.897 6	3.0487	2.9994
c(\ENSG00000079134", \"ENSG00000265755\")	THOC1	2.5312	1.0347	2.6800	10.07 02	3.0588	3.0096
ENSG00000215424	MCM3AP- AS1	2.3014	1.0347	4.6164	17.23 29	2.6792	2.6299
ENSG00000133874	RNF122	2.8899	1.0347	0.7128	3.143 3	2.6686	2.6193
ENSG00000100162	CENPM	2.1014	1.0347	7.5285	25.27 62	2.7576	2.7085
ENSG00000137073	UBAP2	2.3504	1.0346	3.5713	15.51 46	2.7898	2.7407
ENSG00000008405	CRY1	2.5790	1.0346	1.9419	8.862 8	2.9184	2.8693
ENSG00000159445	THEM4	2.4002	1.0345	3.5713	13.87	2.6731	2.6241

					47		
ENSG00000155438	MKI67IP	2.9503	1.0345	0.7128	2.410		
					7	3.1997	3.1507
ENSG00000143612	C1orf43	3.2182	1.0345	0.2831	0.295		
					0	3.2888	3.2398
ENSG00000134461	ANKRD16	2.3641	1.0345	3.5713	15.05		
					49	2.9535	2.9046
ENSG00000142444	C19orf52	2.7657	1.0345	1.0024	5.011		
					2	3.0038	2.9548
ENSG00000185068	GTF2H5	2.6410	1.0345	1.9419	7.434		
					0	3.2908	3.2418
ENSG00000143319	ISG20L2	2.7386	1.0345	1.5419	5.489		
					3	2.7668	2.7179
ENSG00000152464	RPP38	2.7424	1.0345	1.5419	5.419		
					6	2.8287	2.7799
ENSG00000141456	PELP1	2.4948	1.0345	2.6800	11.05		
					30	3.0857	3.0369
ENSG00000105948	TTC26	2.5925	1.0344	1.9419	8.538		
					6	2.8033	2.7544
ENSG00000121289	CEP89	2.4625	1.0344	2.6800	11.97		
					51	2.7839	2.7350
ENSG00000000419	DPM1	2.8099	1.0344	1.0024	4.287		
					4	3.3017	3.2529
ENSG00000071794	HLTF	2.2072	1.0344	6.0330	20.81		
					92	2.7105	2.6617
ENSG00000064313	TAF2	2.4751	1.0344	2.6800	11.60		
					89	2.9857	2.9369
ENSG00000108468	CBX1	1.9762	1.0344	9.4316	31.06		
					30	2.8144	2.7656
ENSG00000175354	PTPN2	2.4463	1.0344	2.6800	12.45		
					14	2.8981	2.8493
ENSG00000174371	EXO1	3.0298	1.0344	0.4527	1.603		
					1	2.6208	2.5720
ENSG00000102743	SLC25A15	2.5163	1.0344	2.6800	10.46		
					55	2.9443	2.8955
ENSG00000071564	TCF3	2.3237	1.0344	4.6164	16.43		
					67	2.9614	2.9127
ENSG00000136045	PWP1	3.4539	1.0343	0.0000	0.000		
					0	3.2584	3.2097
ENSG00000175216	CKAP5	2.3949	1.0343	3.5713	14.04		
					49	2.7386	2.6899
ENSG00000110330	BIRC2	2.3169	1.0343	4.6164	16.67		
					90	2.8995	2.8509
ENSG00000176624	MEX3C	2.1142	1.0343	7.5285	24.71		
					25	2.9186	2.8700
ENSG00000143156	NME7	2.2360	1.0343	4.6164	19.68		
					23	2.8998	2.8512
ENSG00000162959	MEMO1	2.7785	1.0342	1.0024	4.794		
					9	2.9092	2.8607
ENSG00000108559	NUP88	2.6853	1.0342	1.5419	6.507		
					4	3.2172	3.1686
ENSG00000175322	ZNF519	2.3943	1.0342	3.5713	14.06		
					58	2.7085	2.6600
ENSG00000162385	MAGOH	2.5476	1.0342	1.9419	9.644		
					1	2.9107	2.8623
ENSG00000013275	PSMC4	2.1406	1.0341	6.0330	23.57		
					42	2.9567	2.9083
ENSG00000132313	MRPL35	3.0099	1.0340	0.4527	1.789		
					7	3.2156	3.1673
ENSG00000133065	SLC41A1	2.3012	1.0340	4.6164	17.24		
					01	2.8530	2.8047
NA	HSP90AB3P	2.0081	1.0340	9.4316	29.54		
					09	2.9642	2.9160
ENSG00000185721	DRG1	3.4419	1.0340	0.0000	0.000		
					0	3.2691	3.2208
ENSG00000162885	B3GALNT2	2.9163	1.0340	0.7128	2.809		
					6	2.7614	2.7132
ENSG00000157106	SMG1	2.6833	1.0340	1.5419	6.546		
					0	3.0366	2.9884
ENSG00000176102	CSTF3	2.0391	1.0340	9.4316	28.08		
					94	2.8481	2.7999
ENSG00000122779	TRIM24	2.6773	1.0339	1.5419	6.667		
					9	2.9544	2.9062
ENSG00000174437	ATP2A2	2.3143	1.0339	4.6164	16.77		
					03	3.1291	3.0810



ENSG00000162959	MEMO1	2.9590	1.0339	0.7128	2.314 2	3.0975	3.0494
ENSG00000005075	POLR2J	2.0171	1.0339	9.4316	29.11 65	2.7804	2.7323
ENSG00000010165	METTL13	2.9578	1.0339	0.7128	2.326 6	3.0344	2.9862
ENSG00000112144	ICK	2.1670	1.0339	6.0330	22.45 97	3.0223	2.9741
ENSG00000169019	COMMD8	2.0732	1.0339	7.5285	26.53 36	3.0267	2.9786
ENSG00000130713	EXOSC2	2.4965	1.0339	2.6800	11.00 76	2.8692	2.8211
ENSG00000147604	RPL7	2.9277	1.0339	0.7128	2.672 4	3.6749	3.6269
ENSG00000087338	GMCL1	2.7325	1.0338	1.5419	5.600 7	2.8687	2.8207
ENSG00000106144	CASP2	2.5745	1.0338	1.9419	8.972 0	2.9400	2.8920
ENSG00000093167	LRRFIP2	2.0997	1.0338	7.5285	25.35 05	2.9622	2.9143
ENSG00000115596	WNT6	3.0415	1.0338	0.4527	1.498 4	2.5572	2.5092
ENSG00000179958	DCTPP1	2.2184	1.0337	6.0330	20.37 43	3.2987	3.2508
ENSG00000165629	ATP5C1	3.1565	1.0337	0.3673	0.640 2	3.6091	3.5613
ENSG00000198522	GPN1	2.7924	1.0337	1.0024	4.565 4	3.2328	3.1850
ENSG00000158470	B4GALT5	2.3162	1.0337	4.6164	16.70 17	3.2511	3.2034
ENSG00000111581	NUP107	3.0116	1.0337	0.4527	1.773 2	3.1351	3.0873
ENSG00000022567	SLC45A4	2.1296	1.0336	7.5285	24.04 53	2.8158	2.7681
ENSG00000164972	C9orf24	2.0218	1.0336	9.4316	28.89 56	2.6091	2.5614
ENSG00000166415	WDR72	1.9750	1.0336	9.4316	31.11 69	2.5231	2.4754
ENSG00000078403	MLLT10	2.5816	1.0336	1.9419	8.799 2	2.9510	2.9033
ENSG00000174502	SLC26A9	2.0110	1.0336	9.4316	29.40 27	2.5873	2.5396
ENSG00000182472	CAPN12	2.2631	1.0336	4.6164	18.64 47	2.7042	2.6566
ENSG00000164221	CCDC112	2.8394	1.0335	1.0024	3.840 7	2.7887	2.7412
ENSG00000108349	CASC3	2.6599	1.0335	1.5419	7.029 7	3.0081	2.9606
ENSG00000090263	MRPS33	2.8820	1.0335	0.7128	3.247 2	3.2958	3.2482
ENSG00000162062	C16orf59	2.0549	1.0335	7.5285	27.36 35	2.8568	2.8092
ENSG00000128789	PSMG2	3.1305	1.0335	0.3673	0.808 5	3.3444	3.2968
ENSG00000225921	NOL7	3.1378	1.0335	0.3673	0.759 8	3.4280	3.3805
ENSG00000145604	SKP2	2.9171	1.0335	0.7128	2.800 4	2.6061	2.5586
ENSG00000243147	MRPL33	2.4866	1.0335	2.6800	11.28 34	3.4281	3.3806
ENSG00000138386	NAB1	2.4810	1.0335	2.6800	11.44 09	2.9394	2.8919
ENSG00000167088	SNRPD1	2.6590	1.0335	1.5419	7.048 9	2.7529	2.7054
ENSG00000166233	ARIH1	2.5903	1.0334	1.9419	8.591 9	2.8701	2.8226
ENSG00000164818	HEATR2	2.4738	1.0334	2.6800	11.64 79	3.0691	3.0216
ENSG00000143315	PIGM	2.3727	1.0334	3.5713	14.76 96	2.9136	2.8662
ENSG00000143575	HAX1	2.8996	1.0334	0.7128	3.018 7	2.8181	2.7707
ENSG00000174953	DHX36	2.6506	1.0334	1.9419	7.227 8	2.8668	2.8195
ENSG00000041802	LSG1	2.6864	1.0334	1.5419	6.484	2.9297	2.8824

					0		
					32.04		
ENSG00000154548	SRSF12	1.9560	1.0334	9.4316	08	2.6262	2.5789
					2.265		
ENSG00000173660	UQCRH	2.9634	1.0334	0.7128	4	3.5878	3.5405
					29.90		
ENSG00000138193	PLCE1	2.0005	1.0334	9.4316	03	2.6581	2.6107
					4.172		
ENSG00000080822	CLDND1	2.8173	1.0333	1.0024	3	3.2568	3.2094
					18.52		
ENSG00000128944	KNSTRN	2.2664	1.0333	4.6164	10	2.8183	2.7710
					8.632		
ENSG00000103495	MAZ	2.5886	1.0333	1.9419	4	2.7895	2.7422
					11.26		
ENSG00000129654	FOXJ1	2.4873	1.0332	2.6800	25	2.5864	2.5393
					31.06		
ENSG00000085491	SLC25A24	1.9762	1.0332	9.4316	26	2.8156	2.7685
					16.96		
ENSG00000083168	KAT6A	2.3087	1.0332	4.6164	97	3.1882	3.1411
					30.44		
ENSG00000107537	PHYH	1.9890	1.0332	9.4316	46	2.7444	2.6973
					9.003		
ENSG00000132680	KIAA0907	2.5732	1.0331	1.9419	7	3.2173	3.1702
					17.49		
ENSG00000139737	SLAIN1	2.2940	1.0331	4.6164	96	2.5600	2.5130
					23.32		
ENSG00000127337	YEATS4	2.1465	1.0331	6.0330	15	2.9342	2.8872
					23.55		
NA	MBNL1-AS1	2.1411	1.0331	6.0330	40	2.6168	2.5698
					11.88		
ENSG00000065150	IPO5	2.4655	1.0331	2.6800	81	2.7702	2.7232
					1.454		
ENSG00000169398	PTK2	3.0465	1.0331	0.4527	8	2.6288	2.5818
					21.44		
ENSG00000111445	RFC5	2.1917	1.0331	6.0330	28	3.0141	2.9671
					4.527		
ENSG00000146457	WTAP	2.7947	1.0331	1.0024	9	2.9018	2.8549
					29.05		
ENSG00000176894	PXMP2	2.0183	1.0330	9.4316	91	2.8244	2.7775
					8.597		
ENSG00000242265	PEG10	2.5900	1.0330	1.9419	4	2.5571	2.5102
					14.39		
ENSG00000196363	WDR5	2.3841	1.0330	3.5713	32	2.9370	2.8901
					0.000		
ENSG00000132313	MRPL35	3.3640	1.0330	0.2831	0	2.7780	2.7311
					16.55		
ENSG00000134717	BTF3L4	2.3204	1.0330	4.6164	42	3.0112	2.9644
					4.550		
ENSG00000067704	IARS2	2.7934	1.0330	1.0024	5	3.1769	3.1301
					8.617		
ENSG00000156469	MTERFD1	2.5892	1.0329	1.9419	6	3.2252	3.1784
					8.313		
ENSG00000157764	BRAF	2.6021	1.0329	1.9419	6	2.6713	2.6246
					22.17		
ENSG00000156990	RPUSD3	2.1740	1.0329	6.0330	20	3.1935	3.1468
					22.13		
ENSG00000080345	RIF1	2.1747	1.0329	6.0330	90	2.8374	2.7907
					21.05		
ENSG00000005893	LAMP2	2.2013	1.0328	6.0330	49	3.3122	3.2655
					17.86		
ENSG00000170312	CDK1	2.2840	1.0328	4.6164	61	2.6454	2.5988
					7.420		
ENSG00000011260	UTP18	2.6416	1.0328	1.9419	5	2.8276	2.7810
					13.76		
ENSG00000101266	CSNK2A1	2.4037	1.0328	3.5713	58	2.9984	2.9519
					7.120		
ENSG00000123136	DDX39A	2.6556	1.0328	1.5419	3	3.4086	3.3621
					16.17		
ENSG00000102221	PHF16	2.3313	1.0328	3.5713	20	3.1106	3.0641
					21.76		
ENSG00000130299	GTPBP3	2.1839	1.0327	6.0330	17	3.1556	3.1092
					1.017		
ENSG00000176407	KCMF1	3.1009	1.0327	0.4527	6	2.7272	2.6808
					9.214		
ENSG00000100749	VRK1	2.5647	1.0327	1.9419	6	2.8871	2.8407

ENSG00000156471	PTDSS1	2.5044	1.0327	2.6800	10.78 79	3.3036	3.2572
c(\ENSG00000170866\", \"ENSG00000261935\", \"ENSG00000261937\", \"ENSG00000262383\")	LILRA3	2.3506	1.0327	3.5713	15.50 70 0.772	2.5835	2.5372
ENSG00000267374	LINC00669	3.1358	1.0327	0.3673	8 7.403	2.6031	2.5567
ENSG00000179021	C3orf38	2.6424	1.0326	1.9419	7 9.202	2.9186	2.8722
ENSG00000130699	TAF4	2.5652	1.0326	1.9419	1 16.65	3.0281	2.9818
ENSG00000149100	EIF3M	2.3174	1.0326	4.6164	87 0.000	3.3457	3.2994
ENSG00000143977	SNRPG	3.4191	1.0326	0.2831	0 16.69	3.6043	3.5580
ENSG00000198087	CD2AP	2.3164	1.0326	4.6164	46 18.49	2.7356	2.6893
ENSG00000182952	HMGNA4	2.2670	1.0326	4.6164	95 15.09	3.3332	3.2870
ENSG00000117597	DIEXF	2.3628	1.0325	3.5713	58 28.76	2.7605	2.7143
ENSG00000167733	HSD11B1L	2.0247	1.0325	9.4316	04 4.944	2.7649	2.7187
ENSG00000141127	PRPSAP2	2.7696	1.0325	1.0024	7 1.610	2.9375	2.8914
ENSG00000163444	TMEM183B	3.0290	1.0325	0.4527	7 29.24	3.4120	3.3659
ENSG00000018510	AGPS	2.0144	1.0325	9.4316	06 23.92	2.9700	2.9239
ENSG00000104413	ESRP1	2.1323	1.0325	7.5285	99 29.10	2.8013	2.7552
ENSG00000071794	HLTF	2.0173	1.0324	9.4316	61 28.24	3.0564	3.0104
ENSG00000092758	COL9A3	2.0358	1.0324	9.4316	27 7.234	2.6069	2.5609
ENSG00000108406	DHX40	2.6503	1.0324	1.9419	4 23.04	2.9051	2.8592
ENSG00000135766	EGLN1	2.1530	1.0324	6.0330	62 6.759	2.7603	2.7143
ENSG00000124535	WRNIP1	2.6728	1.0324	1.5419	9 10.21	3.2995	3.2536
ENSG00000247077	PGAM5	2.5258	1.0323	2.6800	28 11.99	2.6537	2.6078
ENSG00000189227	C15orf61	2.4617	1.0323	2.6800	63 3.622	3.0429	2.9971
ENSG00000188807	TMEM201	2.8546	1.0323	1.0024	4 7.766	2.6309	2.5850
ENSG00000102900	NUP93	2.6260	1.0323	1.9419	4 10.83	3.1713	3.1254
ENSG00000144120	TMEM177	2.5026	1.0323	2.6800	89 0.000	2.9685	2.9227
ENSG00000102384	CENPI	3.3320	1.0322	0.2831	0 15.84	2.6272	2.5815
ENSG00000075336	TIMM21	2.3407	1.0322	3.5713	62 18.21	3.2367	3.1909
ENSG00000182674	KCNB2	2.2745	1.0322	4.6164	95 19.49	2.5622	2.5165
ENSG00000184635	ZNF93	2.2407	1.0322	4.6164	99 7.519	2.6562	2.6105
ENSG00000104825	NFKBIB	2.6371	1.0322	1.9419	7 27.31	2.8073	2.7616
ENSG00000140451	PIF1	2.0560	1.0322	7.5285	53 26.38	2.6824	2.6367
ENSG00000170027	YWHAG	2.0764	1.0322	7.5285	86 2.924	2.8309	2.7852
ENSG00000166803	KIAA0101	2.9070	1.0321	0.7128	3 2.492	2.6005	2.5548
ENSG00000165997	ARL5B	2.9431	1.0321	0.7128	8 22.01	2.5892	2.5436
ENSG00000160710	ADAR	2.1778	1.0321	6.0330	20 8.553	3.3264	3.2808
ENSG00000197170	PSMD12	2.5919	1.0321	1.9419	8	3.1872	3.1416
ENSG00000137843	PAK6	1.9649	1.0320	9.4316	31.60	2.6843	2.6387

					49		
ENSG00000163935	SFMBT1	2.7345	1.0320	1.5419	5.563	1	2.7756 2.7301
ENSG00000170619	COMMD5	2.5247	1.0320	2.6800	10.24	05	2.6408 2.5953
ENSG00000136485	DCAF7	2.0503	1.0320	7.5285	27.57	66	3.1029 3.0574
ENSG00000117751	PPP1R8	2.9577	1.0320	0.7128	2.328	7	2.9429 2.8974
ENSG00000198554	WDHD1	3.1609	1.0320	0.3673	0.613	2	2.6171 2.5717
ENSG00000116035	VAX2	1.9931	1.0320	9.4316	30.25	25	2.6444 2.5990
ENSG00000148835	TAF5	2.8478	1.0320	1.0024	3.719	1	2.7717 2.7263
ENSG00000122483	CCDC18	2.4929	1.0319	2.6800	11.10	71	2.6767 2.6313
ENSG00000168061	SAC3D1	2.1414	1.0319	6.0330	23.53	92	3.2047 3.1594
ENSG00000051180	RAD51	2.7723	1.0319	1.0024	4.898	0	2.6047 2.5593
ENSG00000119446	RBM18	2.1389	1.0319	6.0330	23.64	54	3.0257 2.9804
ENSG00000129691	ASH2L	2.1565	1.0319	6.0330	22.90	16	3.2452 3.1998
ENSG00000115268	RPS15	1.9743	1.0319	9.4316	31.15	07	2.8099 2.7646
ENSG00000137812	CASC5	3.3664	1.0319	0.2831	0.000	0	2.5846 2.5393
ENSG00000109674	NEIL3	2.3621	1.0319	3.5713	15.12	19	2.6382 2.5929
ENSG00000136689	IL1RN	2.2344	1.0319	4.6164	19.74	53	2.6138 2.5685
ENSG00000175061	C17orf76-AS1	2.6806	1.0319	1.5419	6.602	0	3.6116 3.5663
ENSG00000129355	CDKN2D	2.0484	1.0319	7.5285	27.66	12	2.7834 2.7382
ENSG00000182899	RPL35A	3.1437	1.0318	0.3673	0.720	8	3.7074 3.6622
c:\(ENSG00000196230\",							
\"ENSG00000232421\",							
\"ENSG00000235067\",							
\"ENSG00000232575\",							
\"ENSG00000183311\",							
\"ENSG00000227739\",							
\"ENSG00000224156\",							
\"ENSG00000229684\")	TUBB	2.8571	1.0318	1.0024	3.587	9	3.4032 3.3580
ENSG00000136643	RPS6KC1	2.4445	1.0318	2.6800	12.50	69	2.7207 2.6756
ENSG00000119969	HELLS	2.7490	1.0318	1.5419	5.301	8	2.6375 2.5923
ENSG00000135521	LTV1	2.2604	1.0318	4.6164	18.74	79	3.0862 3.0411
ENSG00000108010	GLRX3	2.3324	1.0318	3.5713	16.13	57	3.1653 3.1202
ENSG00000146729	GBAS	2.2860	1.0317	4.6164	17.79	42	3.1034 3.0584
ENSG00000189046	ALKBH2	2.1491	1.0317	6.0330	23.21	31	3.0228 2.9778
ENSG00000160688	FLAD1	2.1156	1.0317	7.5285	24.65	09	3.3076 3.2626
ENSG00000143569	UBAP2L	2.0827	1.0317	7.5285	26.10	78	3.1475 3.1025
ENSG00000107807	TLX1	2.2074	1.0316	6.0330	20.80	93	2.5556 2.5106
ENSG00000127774	EMC6	2.4918	1.0316	2.6800	11.13	70	2.9910 2.9461
ENSG00000163961	RNF168	2.0807	1.0316	7.5285	26.19	67	2.9240 2.8791
ENSG00000169139	UBE2V2	2.1250	1.0316	7.5285	24.24	22	3.2119 3.1670
ENSG00000112996	MRPS30	2.6815	1.0316	1.5419	6.584	2	3.1451 3.1002
ENSG00000064726	BTBD1	2.0492	1.0316	7.5285	27.62	64	2.7798 2.7350

ENSG00000203667	COX20	2.2143	1.0316	6.0330	20.53 55	3.2039	3.1591
ENSG00000181007	ZFP82	2.2449	1.0316	4.6164	19.33 74	2.8690	2.8242
ENSG00000158711	ELK4	2.6466	1.0316	1.9419	7.313 1	2.6271	2.5822
ENSG00000159199	ATP5G1	2.0355	1.0316	9.4316	28.25 93	2.6820	2.6372
ENSG00000043093	DCUN1D1	2.2609	1.0316	4.6164	18.72 85	2.8578	2.8130
ENSG00000119878	CRIP1	2.2475	1.0315	4.6164	19.23 96	3.0849	3.0401
ENSG00000124783	SSR1	2.8589	1.0315	1.0024	3.562 2	3.3702	3.3253
ENSG00000164162	ANAPC10	2.9331	1.0315	0.7128	2.607 8	3.0293	2.9845
ENSG00000071994	PDCD2	2.3189	1.0315	4.6164	16.60 56	3.0586	3.0139
ENSG00000128708	HAT1	2.0451	1.0315	7.5285	27.81 42	2.7074	2.6626
ENSG00000163468	CCT3	2.3562	1.0315	3.5713	15.31 91	3.4110	3.3662
c:\ENSG00000159086", "ENSG00000263141")	PAXBP1	2.6237	1.0315	1.9419	7.818 1	2.7419	2.6972
ENSG00000111639	MRPL51	2.4421	1.0315	2.6800	12.57 81	3.4798	3.4350
ENSG00000071243	ING3	2.5047	1.0315	2.6800	10.78 15	2.7418	2.6971
ENSG00000132563	REEP2	2.5221	1.0315	2.6800	10.31 02	2.5174	2.4727
ENSG00000125835	SNRPB	2.3935	1.0315	3.5713	14.09 12	3.4226	3.3779
ENSG00000075336	TIMM21	2.2323	1.0315	4.6164	19.82 71	3.0232	2.9785
ENSG00000003509	NDUFAF7	2.6995	1.0315	1.5419	6.224 5	2.6632	2.6185
ENSG00000123143	PKN1	2.2896	1.0315	4.6164	17.65 98	2.6888	2.6441
ENSG00000143178	TBX19	2.5466	1.0314	1.9419	9.671 2	2.8051	2.7605
ENSG00000170779	CDCA4	2.0569	1.0314	7.5285	27.27 39	2.8393	2.7947
ENSG00000066697	MSANTD3	2.1641	1.0314	6.0330	22.58 06	2.9071	2.8625
ENSG00000128595	CALU	2.2933	1.0314	4.6164	17.52 55	3.2886	3.2440
ENSG00000091651	ORC6	1.9955	1.0314	9.4316	30.13 89	2.8099	2.7653
ENSG00000161179	YDJC	2.8914	1.0313	0.7128	3.123 6	2.7886	2.7440
ENSG00000137135	ARHGEF39	2.3730	1.0313	3.5713	14.75 84	2.6259	2.5814
ENSG00000105219	CNTD2	2.0224	1.0313	9.4316	28.86 87	2.6154	2.5709
ENSG00000179598	PLD6	2.9739	1.0313	0.7128	2.153 5	2.6517	2.6072
ENSG00000069998	CECR5	2.3891	1.0313	3.5713	14.23 35	2.7570	2.7126
ENSG00000171150	SOCS5	2.4810	1.0313	2.6800	11.44 16	2.7414	2.6970
ENSG00000074695	LMAN1	2.6125	1.0313	1.9419	8.071 5	2.6485	2.6041
ENSG00000160741	CRTC2	2.2653	1.0312	4.6164	18.56 34	2.7200	2.6756
ENSG00000143443	C1orf56	2.1673	1.0312	6.0330	22.44 88	2.7345	2.6901
ENSG00000117528	ABCD3	2.7659	1.0312	1.0024	5.007 0	2.7933	2.7489
ENSG00000141425	RPRD1A	2.0715	1.0312	7.5285	26.61 17	3.2288	3.1845
ENSG00000198818	SFT2D1	2.5988	1.0312	1.9419	8.389 9	3.4060	3.3616
ENSG00000103356	EARS2	2.7886	1.0312	1.0024	4.627 8	2.8371	2.7928
ENSG00000023287	RB1CC1	2.3378	1.0312	3.5713	15.94	3.1970	3.1527

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ENSG00000187109	NAP1L1	2.0960	1.0311	7.5285	25.51	3.2029	3.1587
					44		
ENSG00000149196	C11orf73	2.2385	1.0311	4.6164	19.58	2.9993	2.9550
					62		
ENSG00000143294	PRCC	2.5764	1.0311	1.9419	8.926	2.9960	2.9517
					7		
ENSG00000116906	GNPAT	2.5447	1.0311	1.9419	9.720	3.1291	3.0848
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ENSG00000187118	CMC1	2.3069	1.0311	4.6164	17.03	2.9120	2.8678
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ENSG00000135624	CCT7	1.9822	1.0311	9.4316	30.77	3.1872	3.1430
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ENSG00000173145	NOC3L	2.1981	1.0311	6.0330	21.18	3.0182	2.9740
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ENSG00000124275	MTRR	2.3795	1.0311	3.5713	14.54	2.6921	2.6479
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ENSG00000147789	ZNF7	2.3442	1.0310	3.5713	15.72	2.9912	2.9471
					53		
ENSG00000165621	OXGR1	2.1770	1.0310	6.0330	22.04	2.5857	2.5416
					72		
ENSG00000100056	DGCR14	2.6377	1.0310	1.9419	7.507	2.6260	2.5819
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ENSG00000167196	FBXO22	2.1491	1.0309	6.0330	23.21	2.9211	2.8771
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ENSG00000165512	ZNF22	2.0449	1.0309	7.5285	27.82	3.1964	3.1524
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ENSG00000170632	ARMC10	2.3847	1.0309	3.5713	14.37	2.7410	2.6970
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ENSG00000133393	FOPNL	2.5967	1.0309	1.9419	8.439	3.2439	3.2000
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ENSG00000117153	KLHL12	3.0241	1.0309	0.4527	1.655	2.8490	2.8051
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ENSG00000196510	ANAPC7	2.8118	1.0309	1.0024	4.257	2.6687	2.6248
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ENSG00000120798	NR2C1	2.7230	1.0309	1.5419	5.775	2.6627	2.6188
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ENSG00000081870	HSPB11	2.3983	1.0309	3.5713	13.93	3.0993	3.0555
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ENSG00000164134	NAA15	2.4687	1.0309	2.6800	11.79	2.8087	2.7648
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ENSG00000148426	PROSER2	2.0892	1.0309	7.5285	25.81	2.6574	2.6135
					54		
ENSG00000076003	MCM6	2.2078	1.0309	6.0330	20.79	3.3684	3.3246
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ENSG00000023734	STRAP	1.9954	1.0308	9.4316	30.14	3.2026	3.1587
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ENSG00000171467	ZNF318	2.3003	1.0308	4.6164	17.27	2.9638	2.9200
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ENSG00000085840	ORC1	2.5441	1.0308	1.9419	9.734	2.6477	2.6039
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ENSG00000122779	TRIM24	2.5501	1.0308	1.9419	9.581	2.7317	2.6880
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ENSG00000221676	RNU6ATAC	2.2420	1.0308	4.6164	19.44	2.6205	2.5767
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ENSG00000078668	VDAC3	2.6796	1.0308	1.5419	6.622	3.5549	3.5111
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ENSG00000166965	RCCD1	2.2783	1.0308	4.6164	18.07	2.6994	2.6557
					70		
ENSG00000144381	HSPD1	2.3278	1.0307	3.5713	16.29	3.4703	3.4267
					44		
ENSG00000105254	TBCB	2.4765	1.0307	2.6800	11.57	3.3636	3.3200
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ENSG00000130204	TOMM40	2.3688	1.0307	3.5713	14.89	3.3570	3.3134
					57		
ENSG00000115548	KDM3A	2.0772	1.0307	7.5285	26.35	2.7755	2.7319
c(\ENSG00000138297",					29		
\\"ENSG00000265354\\")	TIMM23	2.4132	1.0307	3.5713	13.46	3.2076	3.1640
					48		
ENSG00000101247	NDUFAF5	2.1695	1.0307	6.0330	22.35	2.9105	2.8670
					52		
ENSG00000105855	ITGB8	2.3211	1.0306	4.6164	16.52	2.5910	2.5474
					86		
ENSG00000177954	RPS27	2.4908	1.0306	2.6800	11.16	3.5435	3.5001
					51		

ENSG00000165501	LRR1	2.3530	1.0306	3.5713	15.42 73	2.8251	2.7816
ENSG00000179021	C3orf38	2.3827	1.0306	3.5713	14.43 95	2.8645	2.8211
ENSG00000132661	NXT1	2.6956	1.0306	1.5419	6.301 1	3.2781	3.2346
ENSG00000114209	PDCD10	2.1550	1.0306	6.0330	22.96 16	2.6970	2.6535
ENSG00000144580	RQCD1	2.0871	1.0306	7.5285	25.91 08	2.9831	2.9397
ENSG00000149136	SSRP1	2.3618	1.0306	3.5713	15.13 19	2.8077	2.7643
ENSG00000141378	PTRH2	2.6105	1.0305	1.9419	8.117 8	3.2409	3.1975
ENSG00000143751	SDE2	2.7022	1.0305	1.5419	6.173 4	3.0081	2.9647
ENSG00000104356	POP1	2.0735	1.0305	7.5285	26.51 82	2.7470	2.7036
ENSG00000163714	U2SURP	2.3373	1.0305	3.5713	15.96 53	3.1043	3.0609
ENSG00000164002	EXO5	2.0808	1.0305	7.5285	26.19 31	2.9157	2.8724
ENSG00000146802	TMEM168	2.4880	1.0305	2.6800	11.24 49	2.8089	2.7655
ENSG00000135972	MRPS9	2.6632	1.0305	1.5419	6.960 3	3.1546	3.1113
ENSG00000132388	UBE2G1	2.2648	1.0304	4.6164	18.58 30	2.9817	2.9384
ENSG00000138629	UBL7	2.4298	1.0304	2.6800	12.95 30	2.7065	2.6633
ENSG00000114993	RTKN	2.2552	1.0304	4.6164	18.94 33	3.2981	3.2549
ENSG00000136982	DSCC1	2.3308	1.0304	3.5713	16.19 13	2.7209	2.6778
ENSG00000111640	GAPDH	2.4585	1.0304	2.6800	12.09 06	3.6472	3.6040
ENSG00000158528	PPP1R9A	2.2717	1.0304	4.6164	18.32 15	2.6530	2.6099
ENSG00000083093	PALB2	2.7225	1.0304	1.5419	5.784 7	2.8028	2.7597
ENSG00000119013	NDUFB3	2.6685	1.0303	1.5419	6.850 1	3.4239	3.3808
ENSG00000112081	SRSF3	2.5946	1.0303	1.9419	8.489 6	3.0431	3.0001
ENSG00000185917	SETD4	2.5200	1.0303	2.6800	10.36 65	2.8570	2.8139
ENSG00000146733 c(\ENSG00000066379\", \"ENSG00000233795\", \"ENSG00000236949\", \"ENSG00000235176\", \"ENSG00000206502\", \"ENSG00000224859\", \"ENSG00000236808\", \"ENSG00000235443\")	PSPH	2.0582	1.0303	7.5285	27.21 49	2.6451	2.6020
ENSG00000176124	ZNRD1	2.4752	1.0303	2.6800	11.60 77	2.9536	2.9105
ENSG00000176124	DLEU1	2.8898	1.0303	0.7128	3.144 9	2.5649	2.5219
ENSG00000065911	MTHFD2	1.9632	1.0302	9.4316	31.69 04	3.1678	3.1249
ENSG00000167447	SMG8	2.5679	1.0302	1.9419	9.135 4	2.7413	2.6984
ENSG00000183520	UTP11L	2.8022	1.0302	1.0024	4.408 8	3.2046	3.1617
ENSG00000201302 c(\ENSG00000196176\", \"ENSG00000124529\", \"ENSG00000197061\", \"ENSG00000188987\", \"ENSG00000198518\", \"ENSG00000198327\", \"ENSG00000158406\", \"ENSG00000198339\", \"ENSG00000197238\",	SNORA65	2.7044	1.0301	1.5419	6.129 8	2.6395	2.5966
ENSG00000197238	HIST1H4C	2.5661	1.0301	1.9419	9.179 0	3.7013	3.6585

\\"ENSG00000197914\\",  
 \\"ENSG00000198558\\",  
 \\"ENSG00000183941\\",  
 \\"ENSG00000182217\\",  
 \\"ENSG00000197837\\",  
 \\"ENSG00000263792\\",  
 \\"ENSG00000264782\\")"

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ENSG00000120533	ENY2	2.4035	1.0301	3.5713	13.77 05	3.4616	3.4188
ENSG00000141738	GRB7	2.2827	1.0301	4.6164	17.91 28	2.6479	2.6052
ENSG00000205309	NT5M	2.6615	1.0301	1.5419	6.994 9	2.5802	2.5375
ENSG00000101843	PSMD10	2.4416	1.0301	2.6800	12.59 32	3.0756	3.0328
ENSG00000131351	HAUS8	2.4099	1.0301	3.5713	13.57 02	2.8522	2.8094
ENSG00000165630	PRPF18	1.9862	1.0301	9.4316	30.58 12	2.8505	2.8077
ENSG00000103351	CLUAP1	2.1230	1.0300	7.5285	24.33 22	2.8285	2.7858
ENSG00000092208	GEMIN2	2.5647	1.0300	1.9419	9.213 4	2.9593	2.9167
ENSG00000197140	ADAM32	2.0004	1.0300	9.4316	29.90 57	2.6249	2.5822
ENSG00000116212	LRRC42	1.9501	1.0300	9.4316	32.32 85	3.1559	3.1132
ENSG00000137574	TGS1	2.4994	1.0300	2.6800	10.92 62	2.7814	2.7388
ENSG00000163002	NUP35	2.5575	1.0300	1.9419	9.394 7	2.7239	2.6813
ENSG00000161970	RPL26	2.1091	1.0300	7.5285	24.93 79	3.4377	3.3951
ENSG00000048991	R3HDM1	2.8853	1.0300	0.7128	3.203 4	2.7277	2.6851
ENSG00000244462	RBM12	3.2409	1.0300	0.2831	0.185 8	3.0103	2.9677
ENSG00000147533	GOLGA7	2.4111	1.0300	3.5713	13.52 96	3.3264	3.2838
ENSG00000135334	AKIRIN2	2.5863	1.0299	1.9419	8.685 4	3.1595	3.1170
ENSG00000147548	WHSC1L1	2.2595	1.0299	4.6164	18.78 32	2.7251	2.6826
ENSG00000108100	CCNY	2.3513	1.0299	3.5713	15.48 47	3.0014	2.9590
ENSG00000107959	PITRM1	2.0185	1.0299	9.4316	29.05 06	3.1045	3.0621
ENSG00000163798	SLC4A1AP	2.0603	1.0299	7.5285	27.11 74	2.8245	2.7820
ENSG00000259494	MRPL46	2.4049	1.0298	3.5713	13.72 59	3.1063	3.0639
ENSG00000127564	PKMYT1	2.4500	1.0298	2.6800	12.34 11	2.6592	2.6168
ENSG00000111640	GAPDH	2.1136	1.0298	7.5285	24.73 86	3.4916	3.4492
ENSG00000214617	SLC6A10P	3.1117	1.0298	0.3673	0.938 9	2.5486	2.5062
ENSG00000177888	ZBTB41	2.4579	1.0298	2.6800	12.10 76	2.6214	2.5790
ENSG00000104064	GABPB1	2.5222	1.0298	2.6800	10.30 81	2.8421	2.7997
ENSG00000173960	UBXN2A	2.0122	1.0298	9.4316	29.34 51	3.0258	2.9835
ENSG00000139354	GAS2L3	2.4330	1.0297	2.6800	12.85 50	2.7547	2.7125
ENSG00000168883	USP39	2.7941	1.0297	1.0024	4.537 8	3.2009	3.1586
ENSG00000174842	GLMN	2.4052	1.0297	3.5713	13.71 82	2.9566	2.9143
ENSG00000060688	SNRNP40	2.5217	1.0297	2.6800	10.32 11	3.0900	3.0477
ENSG00000213281	NRAS	1.9688	1.0297	9.4316	31.41 76	2.9846	2.9424



c(\ENSG00000137404\", \"ENSG00000236843\", \"ENSG00000228867\", \"ENSG00000206484\", \"ENSG00000235773\", \"ENSG00000228854\", \"ENSG00000234809\")	NRM	1.9811	1.0297	9.4316	30.82 76 21.14	2.7884	2.7462
ENSG00000123965	PMS2P5	2.1992	1.0297	6.0330	22 5.473	2.8891	2.8469
ENSG00000006695	COX10	2.7395	1.0297	1.5419	0 27.65	3.0963	3.0541
ENSG00000173083	HPSE	2.0486	1.0296	7.5285	39 26.70	2.6505	2.6084
ENSG00000087470	DNM1L	2.0693	1.0295	7.5285	78 27.43	2.9242	2.8822
c(\ENSG00000006704\", \"ENSG00000261920\")	GTF2IRD1	2.0535	1.0295	7.5285	04 19.00	2.9063	2.8643
ENSG00000010270	STARD3NL	2.2536	1.0295	4.6164	70 10.79	2.8561	2.8141
ENSG00000175216	CKAP5	2.5040	1.0295	2.6800	90 25.55	3.3666	3.3247
ENSG00000175063	UBE2C	2.0950	1.0295	7.5285	64 16.72	2.6833	2.6413
ENSG00000168303	MPLKIP	2.3154	1.0295	4.6164	97 23.64	2.9639	2.9220
ENSG00000116922	C1orf109	2.1390	1.0294	6.0330	02 19.16	2.8667	2.8248
ENSG00000215417	MIR17HG	2.2494	1.0294	4.6164	53 29.27	2.6467	2.6048
c(\ENSG00000201669\", \"ENSG00000255717\")	SNORD31	2.0138	1.0294	9.4316	10 7.813	2.7919	2.7502
ENSG00000167699	GLOD4	2.6239	1.0294	1.9419	7 25.13	3.1040	3.0622
ENSG00000177051	FBXO46	2.1045	1.0294	7.5285	84 7.583	2.8376	2.7959
ENSG00000168288	MMADHC	2.6342	1.0293	1.9419	2 17.67	3.3670	3.3252
NA	SAMD1	2.2891	1.0293	4.6164	84 7.172	2.7345	2.6928
ENSG00000119013	NDUFB3	2.6531	1.0293	1.5419	8 15.83	3.4676	3.4259
ENSG00000172216	CEBPB	2.3410	1.0293	3.5713	58 7.229	3.6360	3.5944
ENSG00000138138	ATAD1	2.6505	1.0293	1.9419	6 19.16	2.7633	2.7217
ENSG00000143740	SNAP47	2.2495	1.0293	4.6164	04 12.91	2.9120	2.8704
ENSG00000112218	GPR63	2.4311	1.0293	2.6800	32 31.72	2.5416	2.5000
ENSG00000128944	KNSTRN	1.9625	1.0293	9.4316	24 30.97	2.8053	2.7637
ENSG00000150093	ITGB1	1.9779	1.0293	9.4316	97 2.494	3.4144	3.3728
ENSG00000179941	BBS10	2.9429	1.0293	0.7128	6 15.79	2.6200	2.5784
ENSG00000143575	HAX1	2.3423	1.0293	3.5713	18 4.979	3.2093	3.1677
ENSG00000176407	KCMF1	2.7675	1.0292	1.0024	8 18.26	2.6112	2.5696
ENSG00000169021	UQCRFS1	2.2731	1.0292	4.6164	97 24.54	3.5168	3.4753
ENSG00000142864	SERBP1	2.1181	1.0292	7.5285	42 11.57	3.1804	3.1389
ENSG00000124160	NCOA5	2.4764	1.0291	2.6800	41 8.121	3.0833	3.0418
ENSG00000136875	PRPF4	2.6103	1.0291	1.9419	9 30.88	3.2062	3.1648
ENSG00000146223	RPL7L1	1.9798	1.0291	9.4316	90 18.63	3.1302	3.0888
ENSG00000177565	TBL1XR1	2.2635	1.0291	4.6164	21 16.11	2.8349	2.7936
ENSG00000135316	SYNCRIP	2.3329	1.0291	3.5713	65 0.000	3.2011	3.1597
ENSG00000158711	ELK4	3.2973	1.0290	0.2831	0	2.6071	2.5658

ENSG00000171940	ZNF217	2.1383	1.0290	6.0330	23.67 18	3.1148	3.0736
ENSG00000125249	RAP2A	1.9667	1.0290	9.4316	31.52 09	3.1462	3.1049
ENSG00000164953	TMEM67	2.5612	1.0290	1.9419	9.301 4	2.6376	2.5963
ENSG00000153046	CDYL	2.2574	1.0290	4.6164	18.85 92	2.7742	2.7330
ENSG00000028839	TBPL1	2.0533	1.0290	7.5285	27.43 88	3.0951	3.0539
ENSG00000181038	METTL23	2.3369	1.0289	3.5713	15.97 72	2.7265	2.6854
ENSG00000021574	SPAST	2.3444	1.0289	3.5713	15.71 91	2.8627	2.8215
ENSG00000184277	TM2D3	2.0721	1.0289	7.5285	26.58 14	2.7403	2.6992
ENSG000000213079	SCAF8	2.7854	1.0289	1.0024	4.680 0	2.8147	2.7736
ENSG00000138376	BARD1	2.0359	1.0289	9.4316	28.23 75	3.0777	3.0366
ENSG00000129460	NGDN	2.0365	1.0289	9.4316	28.21 16	2.9685	2.9274
ENSG00000124702	KLHDC3	2.5036	1.0289	2.6800	10.81 11	3.3964	3.3554
ENSG00000135845	PIGC	2.5191	1.0288	2.6800	10.38 97	3.2326	3.1916
ENSG00000146872	TLK2	2.1792	1.0288	6.0330	21.95 53	2.9564	2.9154
ENSG00000122482	ZNF644	3.2626	1.0288	0.2831	0.089 9	2.4972	2.4562
ENSG00000196150	ZNF250	2.0115	1.0288	9.4316	29.37 78	2.8708	2.8298
ENSG00000146109	ABT1	2.8509	1.0288	1.0024	3.675 5	2.6162	2.5752
ENSG00000166881	TMEM194A	2.2281	1.0288	4.6164	19.98 92	2.8874	2.8465
ENSG00000127922	SHFM1	2.8835	1.0288	0.7128	3.227 3	3.6323	3.5914
ENSG00000072756	TRNT1	2.0904	1.0288	7.5285	25.76 08	2.8815	2.8405
ENSG00000165832	TRUB1	2.0199	1.0288	9.4316	28.98 45	2.6745	2.6336
ENSG00000259484	LOC145783	2.6235	1.0287	1.9419	7.822 5	2.6339	2.5930
c:\ENSG00000116521\", \"ENSG00000263290\")	SCAMP3	2.4773	1.0287	2.6800	11.54 66	2.7636	2.7227
ENSG00000104331	IMPAD1	2.0784	1.0287	7.5285	26.29 75	3.0037	2.9628
ENSG00000157827	FMNL2	2.1095	1.0287	7.5285	24.91 74	2.7891	2.7483
ENSG00000128626	MRPS12	2.5588	1.0287	1.9419	9.361 9	2.6422	2.6014
ENSG00000104218	CSPP1	2.5139	1.0287	2.6800	10.53 17	2.6951	2.6543
ENSG00000135018	UBQLN1	2.0531	1.0287	7.5285	27.44 50	3.0634	3.0226
ENSG00000100714	MTHFD1	2.4574	1.0287	2.6800	12.12 37	2.7216	2.6808
ENSG00000158402	CDC25C	2.8133	1.0287	1.0024	4.235 1	2.6669	2.6261
ENSG00000117153	KLHL12	2.5342	1.0287	2.6800	9.990 4	3.1387	3.0979
ENSG00000141646	SMAD4	2.0403	1.0287	9.4316	28.03 41	3.1314	3.0906
c:\ENSG00000214194\", \"ENSG00000250194\")	LOC401397	2.4202	1.0286	3.5713	13.24 81	3.3734	3.3327
ENSG00000165480	SKA3	2.1553	1.0286	6.0330	22.95 06	2.7017	2.6610
ENSG00000165501	LRR1	2.0597	1.0286	7.5285	27.14 61	3.0600	3.0193
ENSG00000129351	ILF3	2.2360	1.0286	4.6164	19.68 32	3.1864	3.1458
ENSG00000122970	IFT81	3.1391	1.0286	0.3673	0.751 3	2.5723	2.5317
ENSG00000117155	SSX2IP	2.2814	1.0286	4.6164	17.96	2.6200	2.5793

c(\ENSG00000066379", \"ENSG00000233795\", \"ENSG00000236949\", \"ENSG00000235176\", \"ENSG00000206502\", \"ENSG00000224859\", \"ENSG00000236808\", \"ENSG00000235443\")"	ZNRD1	2.5136	1.0286	2.6800	10.53 91 30.23	3.1004	3.0598
ENSG00000135070	ISCA1	1.9933	1.0285	9.4316	94 18.49	2.9817	2.9411
ENSG00000198298	ZNF485	2.2670	1.0285	4.6164	73 13.07	2.6862	2.6456
ENSG00000146425	DYNLT1	2.4257	1.0285	3.5713	75 27.88	3.4284	3.3878
ENSG00000105993	DNAJB6	2.0436	1.0285	7.5285	19 15.99	3.3186	3.2781
ENSG00000156875	HIAT1	2.3366	1.0285	3.5713	02 25.82	2.9816	2.9411
ENSG00000072041	SLC6A15	2.0890	1.0285	7.5285	27 9.938	2.5507	2.5102
ENSG00000136628	EPRS	2.5362	1.0285	2.6800	2 3.123	3.4793	3.4388
ENSG00000160803	UBQLN4	2.8914	1.0285	0.7128	6 3.486	2.6530	2.6125
ENSG00000096384	HSP90AB1	2.8643	1.0284	1.0024	6 25.44	3.5843	3.5439
ENSG00000229117	RPL41	2.0976	1.0284	7.5285	31 28.16	2.6554	2.6150
ENSG00000173653	RCE1	2.0375	1.0284	9.4316	45 19.70	3.0044	2.9640
ENSG00000088930	XRN2	2.2355	1.0284	4.6164	31 7.396	3.0783	3.0380
ENSG00000105879	CBLL1	2.6427	1.0284	1.9419	6 18.96	2.6839	2.6436
ENSG00000153879	CEBPG	2.2546	1.0284	4.6164	91 2.891	3.1868	3.1465
ENSG00000137770	CTDSPL2	2.9097	1.0283	0.7128	1 16.47	2.7218	2.6815
ENSG00000224578	HNRNPA1P 10	2.3227	1.0283	4.6164	26 32.29	3.5199	3.4796
ENSG00000166797	FAM96A	1.9508	1.0283	9.4316	55 13.41	3.0390	2.9987
ENSG00000125885	MCM8	2.4148	1.0283	3.5713	61 30.80	2.6496	2.6094
ENSG00000163682	RPL9	1.9814	1.0283	9.4316	99 31.06	3.0359	2.9957
ENSG00000154380	ENAH	1.9761	1.0283	9.4316	59 2.090	2.6287	2.5885
ENSG00000141030	COPS3	2.9798	1.0283	0.7128	7 26.71	3.3334	3.2932
ENSG00000161526	SAP30BP	2.0692	1.0283	7.5285	42 3.229	2.8052	2.7650
c(\ENSG00000106028", \"ENSG00000262771")"	SSBP1	2.8833	1.0282	0.7128	2 28.97	3.4751	3.4349
ENSG00000253320	LOC100506 753	2.0201	1.0282	9.4316	57 19.75	2.6837	2.6435
ENSG00000124198	ARFGEF2	2.2341	1.0282	4.6164	85 14.30	2.7957	2.7555
ENSG00000198860	TSEN15	2.3869	1.0282	3.5713	34 21.97	3.1759	3.1358
ENSG00000120539	MASTL	2.1788	1.0282	6.0330	33 29.66	2.6779	2.6379
ENSG00000247077	PGAM5	2.0055	1.0282	9.4316	10 26.17	2.7437	2.7036
ENSG00000159596	TMEM69	2.0812	1.0281	7.5285	27 3.257	3.0551	3.0152
ENSG00000176208	ATAD5	2.8812	1.0281	0.7128	8 8.113	2.6222	2.5822
ENSG00000104825	NFKBIB	2.6107	1.0281	1.9419	2 24.29	2.6786	2.6387
ENSG00000114098	ARMC8	2.1238	1.0281	7.5285	51 25.69	2.8493	2.8094
ENSG00000253729	PRKDC	2.0919	1.0281	7.5285	58	2.5909	2.5510

ENSG00000172244	C5orf34	2.2858	1.0280	4.6164	17.79 98	2.8088	2.7689
ENSG00000104980	TIMM44	2.0812	1.0280	7.5285	26.17 36	2.9029	2.8630
ENSG00000131351	HAUS8	2.6422	1.0280	1.9419	7.409 2	2.7661	2.7263
ENSG00000167216	KATNAL2	2.0601	1.0280	7.5285	27.12 86	2.7499	2.7100
ENSG00000144649	FAM198A	2.6609	1.0280	1.5419	7.009 0	2.5337	2.4938
ENSG00000111300	NAA25	2.4693	1.0280	2.6800	11.77 56	2.9149	2.8751
ENSG00000123213	NLN	2.6175	1.0280	1.9419	7.958 6	2.6900	2.6503
ENSG00000126215	XRCC3	2.5485	1.0280	1.9419	9.622 6	2.7354	2.6957
ENSG00000065548	ZC3H15	2.2213	1.0280	6.0330	20.25 93	3.0833	3.0436
ENSG00000182628	SKA2	2.1100	1.0280	7.5285	24.89 69	2.7934	2.7536
ENSG00000181610	MRPS23	2.6047	1.0279	1.9419	8.253 2	3.0569	3.0172
ENSG00000141141	DDX52	2.1565	1.0279	6.0330	22.90 13	2.9395	2.8998
ENSG00000115540	MOB4	1.9643	1.0279	9.4316	31.63 70	2.7636	2.7239
ENSG00000129347	KRI1	2.1308	1.0279	7.5285	23.99 43	2.7944	2.7548
ENSG00000167721	TSR1	2.3491	1.0278	3.5713	15.56 13	2.7563	2.7167
ENSG00000136270	TBRG4	2.1212	1.0278	7.5285	24.40 80	2.9494	2.9098
ENSG00000168795	ZBTB5	2.0968	1.0278	7.5285	25.47 70	2.8981	2.8585
ENSG00000129351	ILF3	2.5416	1.0278	2.6800	9.799 9	2.6513	2.6118
ENSG00000100410	PHF5A	2.2688	1.0278	4.6164	18.43 28	2.9895	2.9500
ENSG00000108389	MTMR4	2.0858	1.0277	7.5285	25.96 76	3.0204	2.9810
ENSG00000128626	MRPS12	2.8905	1.0277	0.7128	3.135 5	3.4207	3.3812
ENSG00000103126	AXIN1	2.1826	1.0277	6.0330	21.81 76	3.1825	3.1430
c(\ENSG00000204574", "ENSG00000225989", "ENSG00000232169", "ENSG00000231129", "ENSG00000206490", "ENSG00000236149", "ENSG00000236342")	ABCF1	2.5389	1.0276	2.6800	9.868 4	3.1651	3.1257
ENSG00000101574	METTL4	2.0830	1.0276	7.5285	26.09 31	2.7950	2.7557
ENSG00000111669	TPI1	2.3024	1.0276	4.6164	17.19 44	3.6534	3.6141
c(\ENSG00000137310", "ENSG00000233890", "ENSG00000234674", "ENSG00000224941", "ENSG00000206455", "ENSG00000224379", "ENSG00000224472")	TCF19	2.4522	1.0276	2.6800	12.27 82	2.6236	2.5843
ENSG00000119328	FAM206A	2.1193	1.0276	7.5285	24.48 96	2.9550	2.9157
ENSG00000152193	RNF219	2.0850	1.0276	7.5285	26.00 30	2.8697	2.8305
ENSG00000110944	IL23A	1.9867	1.0276	9.4316	30.55 69	2.5547	2.5155
ENSG00000196305	IARS	2.0077	1.0275	9.4316	29.55 70	3.1704	3.1312
ENSG00000004700	RECQL	2.0299	1.0275	9.4316	28.51 77	2.9702	2.9310
ENSG00000186591	UBE2H	1.9828	1.0275	9.4316	30.74 31	2.8839	2.8448
ENSG00000133773	CCDC59	2.4601	1.0275	2.6800	12.04	3.2887	3.2496



					74		
					26.29		
ENSG00000176597	B3GNT5	2.0785	1.0270	7.5285	36	2.5560	2.5176
					31.85		
ENSG00000107815	C10orf2	1.9598	1.0270	9.4316	49	2.7574	2.7190
					31.68		
ENSG00000174963	ZIC4	1.9634	1.0270	9.4316	25	2.5579	2.5195
					18.50		
ENSG00000112592	TBP	2.2669	1.0270	4.6164	08	2.9516	2.9132
					9.345		
ENSG00000003509	NDUFAF7	2.5594	1.0269	1.9419	4	3.0068	2.9685
					21.86		
ENSG00000112640	PPP2R5D	2.1814	1.0269	6.0330	38	3.0313	2.9929
					8.925		
ENSG00000171566	PLRG1	2.5764	1.0269	1.9419	2	3.1781	3.1398
					15.25		
ENSG00000178105	DDX10	2.3581	1.0269	3.5713	57	3.0464	3.0082
					11.32		
ENSG00000205937	RNPS1	2.4853	1.0268	2.6800	07	2.7511	2.7129
c:\ENSG00000131473",					23.48		
"ENSG00000260245")"	ACLY	2.1427	1.0268	6.0330	45	3.1910	3.1528
					25.77		
ENSG00000111057	KRT18	2.0900	1.0268	7.5285	89	2.6662	2.6281
					30.97		
ENSG00000109790	KLHL5	1.9779	1.0268	9.4316	96	2.8426	2.8045
					18.29		
ENSG00000132003	ZSWIM4	2.2724	1.0268	4.6164	81	2.7294	2.6913
					5.440		
ENSG00000174442	ZWILCH	2.7413	1.0267	1.5419	6	2.5400	2.5020
					25.25		
ENSG00000206811	SNORA10	2.1018	1.0267	7.5285	80	2.7092	2.6712
					20.98		
ENSG00000188112	C6orf132	2.2031	1.0267	6.0330	20	2.5968	2.5588
					20.65		
ENSG00000176371	ZSCAN2	2.2112	1.0267	6.0330	73	2.6458	2.6078
					14.95		
ENSG00000080345	RIF1	2.3669	1.0267	3.5713	91	2.6003	2.5623
					15.84		
ENSG00000130935	NOL11	2.3406	1.0267	3.5713	96	3.2205	3.1826
					28.44		
ENSG00000156469	MTERFD1	2.0315	1.0267	9.4316	39	3.1521	3.1142
					19.14		
ENSG00000125744	RTN2	2.2499	1.0266	4.6164	53	2.9140	2.8760
					24.42		
ENSG00000169398	PTK2	2.1208	1.0266	7.5285	61	3.4526	3.4147
					25.78		
ENSG00000121060	TRIM25	2.0899	1.0266	7.5285	46	2.9014	2.8635
					21.62		
ENSG00000101752	MIB1	2.1874	1.0266	6.0330	08	2.6547	2.6169
					30.59		
ENSG00000116679	IVNS1ABP	1.9859	1.0266	9.4316	38	3.0342	2.9964
					19.53		
ENSG00000124688	MAD2L1BP	2.2397	1.0265	4.6164	88	3.1144	3.0766
					21.53		
ENSG00000143294	PRCC	2.1895	1.0265	6.0330	41	2.8058	2.7681
					29.82		
ENSG00000132432	SEC61G	2.0021	1.0265	9.4316	51	3.5781	3.5403
					8.962		
ENSG00000130856	ZNF236	2.5749	1.0265	1.9419	8	2.6182	2.5804
					11.94		
ENSG00000141873	SLC39A3	2.4636	1.0265	2.6800	35	2.6670	2.6293
					14.53		
ENSG00000176490	DIRAS1	2.3799	1.0265	3.5713	02	2.5425	2.5048
					21.80		
ENSG00000166181	API5	2.1829	1.0265	6.0330	46	3.2446	3.2069
					28.63		
ENSG00000031691	CENPQ	2.0274	1.0265	9.4316	42	2.6290	2.5913
					27.75		
ENSG00000103550	C16orf88	2.0464	1.0264	7.5285	35	2.8862	2.8486
					19.56		
ENSG00000107105	ELAVL2	2.2390	1.0264	4.6164	61	2.5343	2.4967
					26.19		
ENSG00000198477	ZNF280B	2.0808	1.0264	7.5285	04	2.5426	2.5050
					13.75		
ENSG00000082269	FAM135A	2.4039	1.0264	3.5713	80	2.6150	2.5774

ENSG00000139684	ESD	2.0144	1.0264	9.4316	29.24 13	3.3023	3.2647
ENSG00000169976	SF3B5	2.4221	1.0264	3.5713	13.18 97	3.3524	3.3148
ENSG00000207424	SNORD30	2.5639	1.0263	1.9419	9.234 0	2.6188	2.5814
ENSG00000143434	SEMA6C	2.3139	1.0263	4.6164	16.78 57	2.5993	2.5619
ENSG00000125351	UPF3B	2.0330	1.0262	9.4316	28.37 46	2.9110	2.8737
ENSG00000111640	GAPDH	2.4287	1.0262	2.6800	12.98 53	3.7427	3.7055
ENSG00000174442	ZWILCH	2.6365	1.0261	1.9419	7.532 7	2.5762	2.5390
c(\ENSG00000179950\", \"ENSG00000260485\")	PUF60	1.9725	1.0261	9.4316	31.24 18	3.4886	3.4514
ENSG00000119041	GTF3C3	2.3703	1.0261	3.5713	14.84 79	3.0745	3.0373
ENSG00000130520	LSM4	2.1368	1.0261	6.0330	23.73 41	3.3589	3.3217
ENSG00000086758	HUWE1	2.2821	1.0261	4.6164	17.93 70	2.8828	2.8456
ENSG00000065978	YBX1	2.0140	1.0261	9.4316	29.26 21	3.5408	3.5036
ENSG00000172201	ID4	2.0799	1.0261	7.5285	26.23 04	2.5186	2.4815
ENSG00000089022	MAPKAPK5	2.5280	1.0261	2.6800	10.15 51	2.9057	2.8685
ENSG00000086712	TXLNG	2.2308	1.0261	4.6164	19.88 52	2.7797	2.7425
ENSG00000101868	POLA1	2.0889	1.0261	7.5285	25.83 08	2.8679	2.8308
ENSG00000084774	CAD	2.1341	1.0261	7.5285	23.85 18	2.9498	2.9126
ENSG00000047410	TPR	2.2151	1.0261	6.0330	20.50 40	3.1604	3.1233
ENSG00000106615	RHEB	2.1001	1.0261	7.5285	25.33 02	3.4135	3.3764
ENSG00000143622	RIT1	2.0258	1.0260	9.4316	28.70 85	2.8149	2.7778
ENSG00000165283	STOML2	2.0072	1.0260	9.4316	29.58 17	3.4610	3.4240
ENSG00000106268	NUDT1	2.2080	1.0260	6.0330	20.78 81	2.6703	2.6333
ENSG00000133627	ACTR3B	2.3191	1.0260	4.6164	16.60 17	2.6031	2.5661
ENSG00000115464	USP34	2.4002	1.0259	3.5713	13.87 73	2.9541	2.9171
ENSG00000160688	FLAD1	2.5093	1.0259	2.6800	10.65 52	2.6191	2.5821
ENSG00000119640	ACYP1	2.0521	1.0259	7.5285	27.49 09	3.0840	3.0471
ENSG00000148334	PTGES2	2.1070	1.0259	7.5285	25.02 93	2.9827	2.9458
ENSG00000108094	CUL2	2.1699	1.0258	6.0330	22.34 03	3.1449	3.1081
ENSG00000101247	NDUFAF5	1.9954	1.0258	9.4316	30.14 03	3.0946	3.0578
ENSG00000203880	PCMTD2	2.1134	1.0258	7.5285	24.74 96	2.9785	2.9418
ENSG00000196290	NIF3L1	2.7928	1.0258	1.0024	4.560 1	3.2583	3.2216
ENSG00000176853	FAM91A1	2.3380	1.0258	3.5713	15.94 05	2.6130	2.5763
ENSG00000170191	NANP	3.2290	1.0257	0.2831	0.242 1	2.5852	2.5485
c(\ENSG00000244687\", \"ENSG00000124208\", \"ENSG00000240849\")	UBE2V1	2.5335	1.0257	2.6800	10.00 94	2.7032	2.6666
ENSG00000138336	TET1	2.7358	1.0256	1.5419	5.538 8	2.5568	2.5203
ENSG00000078043	PIAS2	2.4952	1.0256	2.6800	11.04 17	2.6270	2.5905
ENSG00000158769	F11R	2.0862	1.0256	7.5285	25.94 82	2.6874	2.6509

ENSG00000124214	STAU1	2.4789	1.0256	2.6800	11.50	3.2161	3.1796
ENSG00000116001	TIA1	2.1302	1.0256	7.5285	18	3.0388	3.0024
ENSG00000036054	TBC1D23	2.0512	1.0255	7.5285	24.01	2.7783	2.7419
ENSG00000077514	POLD3	2.2350	1.0255	4.6164	27.53	2.7739	2.7375
ENSG00000131808	FSHB	2.4810	1.0255	2.6800	30	2.5541	2.5177
ENSG00000131462	TUBG1	2.0688	1.0255	7.5285	19.72	3.2512	3.2149
ENSG00000118007	STAG1	2.3247	1.0254	3.5713	11.44	2.8252	2.7891
ENSG00000143674	KIAA1804	2.3916	1.0254	3.5713	11.44	2.5847	2.5485
ENSG00000035499	DEPDC1B	2.0701	1.0254	7.5285	26.73	2.6106	2.5745
ENSG00000143742	SRP9	2.8848	1.0254	0.7128	29	3.5833	3.5472
ENSG00000085433	WDR47	2.0515	1.0253	7.5285	16.40	2.7520	2.7159
ENSG00000105364	MRPL4	2.2546	1.0253	4.6164	24	2.6997	2.6636
ENSG00000143952	VPS54	2.4102	1.0253	3.5713	14.15	2.6350	2.5989
ENSG00000162961	DPY30	2.2099	1.0253	6.0330	03	3.4182	3.3821
ENSG00000159352	PSMD4	2.2645	1.0253	4.6164	26.67	3.3305	3.2945
ENSG00000081985	IL12RB2	2.0048	1.0253	9.4316	33	2.5929	2.5569
c(\ENSG00000015171\", \"ENSG000000259741\", \"ENSG000000260150\")	ZMYND11	2.6288	1.0253	1.9419	3.209	2.6071	2.5711
ENSG00000156261	CCT8	2.3998	1.0252	3.5713	7	3.4628	3.4269
ENSG00000176732	PFN4	2.1614	1.0252	6.0330	27.52	2.6296	2.5937
ENSG00000121022	COPS5	2.2584	1.0252	4.6164	18.96	3.4213	3.3854
ENSG00000119640	ACYP1	2.7550	1.0252	1.5419	62	2.5784	2.5425
ENSG00000105258	POLR2I	2.2530	1.0252	4.6164	13.56	3.3450	3.3092
ENSG00000090447	TFAP4	2.3438	1.0251	3.5713	20.70	2.6604	2.6246
c(\ENSG00000184886\", \"ENSG000000261300\")	PIGW	1.9797	1.0251	9.4316	97	2.6772	2.6414
ENSG00000075415	SLC25A3	2.4256	1.0251	3.5713	18.59	3.4778	3.4420
ENSG00000159352	PSMD4	2.2701	1.0251	4.6164	12	3.3947	3.3590
ENSG00000126953	TIMM8A	2.0155	1.0251	9.4316	29.69	2.6899	2.6542
ENSG00000161980	POLR3K	1.9871	1.0250	9.4316	55	3.0051	2.9695
c(\ENSG00000202477\", \"ENSG000000255717\")	SNORD25	2.1954	1.0250	6.0330	6	2.6373	2.6017
ENSG00000122218	COPA	2.2729	1.0250	4.6164	7.702	3.5193	3.4837
ENSG00000106355	LSM5	2.2166	1.0250	6.0330	6	3.4022	3.3667
ENSG00000144026	ZNF514	2.2712	1.0249	4.6164	13.88	2.6695	2.6339
ENSG00000100281	HMGXB4	2.6152	1.0249	1.9419	22.69	2.6551	2.6196
ENSG00000181626	ANKRD62	2.3430	1.0249	3.5713	27	2.5045	2.4690
ENSG00000152683	SLC30A6	2.7681	1.0249	1.0024	18.82	2.6252	2.5898
ENSG00000132768	DPH2	2.4743	1.0249	2.6800	36	2.5872	2.5518
ENSG00000125450	NUP85	2.0985	1.0249	7.5285	5.197	3.2051	3.1697



ENSG00000173588	CCDC41	2.1769	1.0249	6.0330	22.05 22	2.8139	2.7785
ENSG00000162972	C2orf47	2.1225	1.0248	7.5285	24.35 28	3.1697	3.1343
ENSG00000154920	EME1	2.6289	1.0248	1.9419	7.700 6	2.6067	2.5714
ENSG00000106153	CHCHD2	2.3499	1.0248	3.5713	15.53 40	3.6151	3.5798
ENSG00000156876	SASS6	2.1364	1.0247	6.0330	23.75 30	2.6228	2.5875
ENSG00000050393	CCDC90A	2.0032	1.0247	9.4316	29.77 12	3.2195	3.1842
ENSG00000124383	MPHOSPH1 0	2.4136	1.0247	3.5713	13.45 35	3.1840	3.1488
ENSG00000168569	TMEM223	2.0275	1.0247	9.4316	28.62 83	2.8961	2.8610
ENSG00000196979	FLJ46836	1.9970	1.0247	9.4316	30.06 72	2.5902	2.5550
ENSG00000110218	PANX1	2.3019	1.0247	4.6164	17.21 47	2.7381	2.7029
ENSG00000114686	MRPL3	2.3732	1.0246	3.5713	14.75 00	3.4964	3.4613
ENSG00000163382	APOA1BP	2.0085	1.0246	9.4316	29.52 28	3.3672	3.3321
ENSG00000138381	ASNSD1	2.5240	1.0246	2.6800	10.25 90	3.2229	3.1878
ENSG00000035687	ADSS	1.9905	1.0246	9.4316	30.37 29	3.3128	3.2778
ENSG00000135476	ESPL1	2.2628	1.0246	4.6164	18.65 85	2.8054	2.7704
ENSG00000110422	HIPK3	2.4808	1.0245	2.6800	11.44 61	2.5730	2.5380
ENSG00000069998	CECR5	2.0206	1.0245	9.4316	28.95 34	3.2293	3.1943
ENSG00000160783	PMF1	2.0734	1.0245	7.5285	26.52 33	2.8707	2.8358
ENSG00000122482	ZNF644	2.1266	1.0245	7.5285	24.17 60	2.7575	2.7226
ENSG00000156970	BUB1B	2.2385	1.0245	4.6164	19.58 71	2.6150	2.5801
ENSG00000120992	LYPLA1	2.6389	1.0244	1.9419	7.479 8	2.4978	2.4630
ENSG00000183475	ASB7	2.1886	1.0244	6.0330	21.56 97	2.6145	2.5797
ENSG00000133028	SCO1	2.3835	1.0244	3.5713	14.41 49	3.1216	3.0869
ENSG00000183475 c(\ENSG00000066379\", \"ENSG00000233795\", \"ENSG00000236949\", \"ENSG00000235176\", \"ENSG00000206502\", \"ENSG00000224859\", \"ENSG00000236808\", \"ENSG00000235443\")	ASB7	2.4576	1.0243	2.6800	12.11 87	2.5392	2.5045
ENSG00000082898	ZNRD1	2.0753	1.0243	7.5285	26.43 81	2.9073	2.8726
ENSG00000082898	XPO1	2.4534	1.0243	2.6800	12.24 07	3.2671	3.2325
ENSG00000141127	PRPSAP2	2.1455	1.0243	6.0330	23.36 53	2.9995	2.9649
ENSG00000131944	C19orf40	2.6115	1.0243	1.9419	8.094 5	2.6954	2.6608
ENSG00000114956	DGUOK	2.0794	1.0242	7.5285	26.25 60	2.9440	2.9094
ENSG00000100902	PSMA6	2.0041	1.0242	9.4316	29.72 85	3.3370	3.3025
ENSG00000176714	CCDC121	1.9564	1.0241	9.4316	32.02 27	2.6477	2.6133
ENSG00000138346 c(\ENSG00000185122\", \"ENSG00000261132\")	DNA2	2.4554	1.0241	2.6800	12.18 22	2.7042	2.6699
ENSG00000138297 c(\ENSG00000138297\", \"ENSG00000265354\")	HSF1	2.0318	1.0241	9.4316	28.43 13	2.6382	2.6040
ENSG00000165689	TIMM23	2.0367	1.0240	9.4316	28.20 15	3.2511	3.2169
ENSG00000165689	SDCCAG3	2.1451	1.0240	6.0330	23.38	2.8932	2.8589

					36		
					10.05		
ENSG00000126756	UXT	2.5319	1.0240	2.6800	24	2.6639	2.6297
					19.19		
ENSG00000163170	BOLA3	2.2485	1.0240	4.6164	98	3.4450	3.4109
	ARHGAP11				30.20		
ENSG00000187951	B	1.9941	1.0240	9.4316	58	2.6246	2.5905
					13.82		
ENSG00000139697	SBNO1	2.4017	1.0239	3.5713	77	2.5828	2.5487
					22.56		
ENSG00000119314	PTBP3	2.1645	1.0239	6.0330	42	3.4305	3.3964
					15.91		
ENSG00000138614	VWA9	2.3388	1.0239	3.5713	37	2.6301	2.5960
					17.50		
ENSG00000117395	EBNA1BP2	2.2939	1.0239	4.6164	32	3.4046	3.3706
					9.306		
ENSG00000183856	IQGAP3	2.5610	1.0239	1.9419	7	2.6161	2.5821
	c(\ENSG00000223802\","				18.97		
	"\ENSG00000130283\")"	2.2545	1.0239	4.6164	19	2.5268	2.4928
					25.79		
ENSG00000116001	TIA1	2.0896	1.0239	7.5285	74	3.1728	3.1388
					9.202		
ENSG00000134419	RPS15A	2.5652	1.0238	1.9419	8	3.7484	3.7144
					26.80		
ENSG00000136643	RPS6KC1	2.0672	1.0238	7.5285	48	2.7766	2.7426
					28.26		
ENSG00000092201	SUPT16H	2.0354	1.0236	9.4316	40	3.2582	3.2245
					22.30		
ENSG00000135749	PCNXL2	2.1707	1.0236	6.0330	61	2.6641	2.6305
	c(\ENSG00000205571\","				10.86		
	"\ENSG00000262170\","				81		
	"\ENSG00000172062\")"	2.5015	1.0236	2.6800	22.02	2.6039	2.5703
					60		
ENSG00000196678	ERI2	2.1775	1.0236	6.0330	19.87	2.5683	2.5347
					92		
ENSG00000137770	CTDSPL2	2.2310	1.0235	4.6164	29.94	2.7695	2.7359
					22		
ENSG00000146263	MMS22L	1.9996	1.0235	9.4316	31.65	2.6254	2.5919
					36		
ENSG00000177463	NR2C2	1.9639	1.0235	9.4316	17.69	2.7310	2.6975
					92		
ENSG00000186532	SMYD4	2.2886	1.0233	4.6164	3.628	2.8732	2.8399
					6		
ENSG00000020922	MRE11A	2.8542	1.0233	1.0024	23.61	2.6429	2.6097
					48		
ENSG00000123684	LPGAT1	2.1396	1.0233	6.0330	27.46	2.6890	2.6558
					62		
ENSG00000162613	FUBP1	2.0527	1.0233	7.5285	31.94	2.7164	2.6832
					83		
ENSG00000062485	CS	1.9579	1.0233	9.4316	30.17	2.9270	2.8938
					44		
ENSG00000174444	SNORD16	1.9947	1.0233	9.4316	20.76	2.5999	2.5668
					33		
ENSG00000143374	TARS2	2.2086	1.0233	6.0330	13.51	2.7402	2.7071
					85		
ENSG00000128694	OSGEPL1	2.4115	1.0233	3.5713	25.56	2.7170	2.6839
					45		
ENSG00000149187	CELF1	2.0949	1.0233	7.5285	28.05	2.6992	2.6660
					63		
ENSG00000144730	IL17RD	2.0398	1.0232	9.4316	29.41	2.5537	2.5206
					51		
ENSG00000162910	MRPL55	2.0107	1.0232	9.4316	27.82	3.1280	3.0949
					11		
ENSG00000151576	QTRTD1	2.0449	1.0232	7.5285	8.731	2.8347	2.8016
					3		
ENSG00000156482	RPL30	2.5844	1.0232	1.9419	23.24	3.7243	3.6912
					90		
ENSG00000163319	MRPS18C	2.1482	1.0232	6.0330	10.19	3.3161	3.2831
					19		
ENSG00000119640	ACYP1	2.5266	1.0231	2.6800	18.74	2.6479	2.6149
					37		
ENSG00000157540	DYRK1A	2.2605	1.0231	4.6164	18.23	2.5363	2.5033
					81		
ENSG00000151923	TIAL1	2.2740	1.0231	4.6164	28.85	3.1449	3.1119
ENSG00000140543	DET1	2.0227	1.0231	9.4316		2.7961	2.7632

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ENSG00000163608	C3orf17	2.7782	1.0231	1.0024	4.798	2.5381	2.5052
					8		
ENSG00000109534	GAR1	2.0032	1.0230	9.4316	29.77	3.3229	3.2901
					33		
ENSG00000143190	POU2F1	2.3496	1.0229	3.5713	15.54	2.7787	2.7460
					09		
ENSG00000004487	KDM1A	1.9698	1.0228	9.4316	31.37	3.2174	3.1848
					05		
ENSG00000112695	COX7A2	2.4521	1.0228	2.6800	12.27	3.6459	3.6134
					91		
ENSG00000181315	ZNF322	2.2043	1.0228	6.0330	20.93	2.7021	2.6696
					35		
ENSG00000089682	RBM41	2.5067	1.0228	2.6800	10.72	2.7100	2.6776
					65		
ENSG00000205937	RNPS1	2.1374	1.0228	6.0330	23.71	3.3385	3.3060
					01		
ENSG00000214725	LOC440356	2.1558	1.0227	6.0330	22.92	2.5307	2.4983
					84		
ENSG00000185615	PDIA2	2.0940	1.0227	7.5285	25.60	2.5057	2.4733
					38		
ENSG00000165699	TSC1	2.2243	1.0227	6.0330	20.13	2.5683	2.5360
					96		
ENSG00000182253	SYNM	1.9776	1.0227	9.4316	30.99	2.5322	2.4998
					42		
ENSG00000124733	MEA1	2.2651	1.0227	4.6164	18.56	3.1415	3.1091
					93		
ENSG00000076650	GPATCH1	1.9750	1.0226	9.4316	31.12	2.8785	2.8462
					04		
ENSG00000136938	ANP32B	2.1582	1.0226	6.0330	22.82	3.5870	3.5547
					87		
ENSG00000130332	LSM7	2.2852	1.0226	4.6164	17.82	3.4057	3.3735
					21		
ENSG00000073417	PDE8A	2.0366	1.0226	9.4316	28.20	2.8251	2.7929
					76		
ENSG00000160305	DIP2A	1.9893	1.0226	9.4316	30.43	2.7631	2.7309
					16		
ENSG00000177602	GSG2	2.1241	1.0225	7.5285	24.28	2.5760	2.5438
					27		
ENSG00000205517	RGL3	2.3473	1.0225	3.5713	15.62	2.5456	2.5136
					19		
ENSG00000138698	RAP1GDS1	1.9566	1.0225	9.4316	32.01	2.9546	2.9226
					06		
ENSG00000105085	MED26	2.0305	1.0224	9.4316	28.49	2.7347	2.7027
c("ENSG00000143368",					06		
"ENSG00000263977")	SF3B4	2.0038	1.0224	9.4316	29.74	3.4252	3.3932
					34		
ENSG00000129474	AJUBA	2.1731	1.0224	6.0330	22.20	2.6200	2.5880
					54		
ENSG00000136918	WDR38	2.8871	1.0224	0.7128	3.179	2.5809	2.5490
					8		
ENSG00000100593	ISM2	2.3983	1.0224	3.5713	13.93	2.5067	2.4748
					51		
ENSG00000170632	ARMC10	2.0951	1.0223	7.5285	25.55	3.2571	3.2253
					22		
ENSG00000111843	TMEM14C	2.2090	1.0223	6.0330	20.74	3.5801	3.5483
					62		
ENSG00000162873	KLHDC8A	2.2833	1.0222	4.6164	17.89	2.5300	2.4982
	LOC100507				34		
NA	599	2.2268	1.0222	4.6164	20.04	2.6205	2.5889
					09		
ENSG00000144029	MRPS5	2.1768	1.0221	6.0330	22.05	3.1087	3.0771
					42		
ENSG00000239900	ADSL	2.2609	1.0221	4.6164	18.73	3.3704	3.3389
					01		
ENSG00000116251	RPL22	2.4641	1.0221	2.6800	11.92	3.6460	3.6145
					75		
ENSG00000110987	BCL7A	2.6634	1.0221	1.5419	6.955	2.5132	2.4817
					9		
ENSG00000132964	CDK8	2.0596	1.0221	7.5285	27.14	2.7041	2.6726
					85		
ENSG00000152332	UHMK1	2.0195	1.0220	9.4316	29.00	3.3337	3.3022
					39		
ENSG00000083750	RRAGB	2.0168	1.0220	9.4316	29.12	2.6878	2.6564
					87		

ENSG00000101596	SMCHD1	2.2326	1.0220	4.6164	19.81 38	2.6377	2.6062
ENSG00000168028	SNORA62	2.4512	1.0220	2.6800	12.30 71	2.6243	2.5928
ENSG00000095951	HIVEP1	1.9542	1.0220	9.4316	32.12 93	2.8960	2.8646
ENSG00000115828	QPCT	2.2998	1.0220	4.6164	17.29 10	2.7201	2.6887
ENSG00000141034	GID4	2.2671	1.0220	4.6164	18.49 44	2.7340	2.7026
ENSG00000106609	TMEM248	2.1587	1.0220	6.0330	22.80 84	3.1180	3.0867
ENSG00000068654	POLR1A	2.8634	1.0219	1.0024	3.498 9	2.5643	2.5330
ENSG00000141380	SS18	2.2296	1.0219	4.6164	19.93 36	2.6157	2.5844
ENSG00000164924	YWHAZ	1.9547	1.0219	9.4316	32.10 22	3.6461	3.6148
ENSG00000198918	RPL39	2.1685	1.0218	6.0330	22.39 67	3.7171	3.6860
ENSG00000121486	TRMT1L	2.3271	1.0218	3.5713	16.31 95	2.8635	2.8324
ENSG00000162814	SPATA17	2.1464	1.0218	6.0330	23.32 88	2.5273	2.4961
ENSG00000160679	CHTOP	2.4777	1.0218	2.6800	11.53 68	3.1934	3.1623
ENSG00000137807	KIF23	2.1591	1.0218	6.0330	22.79 23	2.5428	2.5118
ENSG00000114124	GRK7	2.7475	1.0218	1.5419	5.329 0	2.4521	2.4210
ENSG00000105176	URI1	2.2448	1.0218	4.6164	19.34 27	3.4250	3.3940
c(\ENSG00000009954\ \"ENSG00000262694\")	BAZ1B	1.9651	1.0218	9.4316	31.59 82	3.1207	3.0896
ENSG00000204899	MZT1	1.9856	1.0217	9.4316	30.60 94	2.7970	2.7660
ENSG00000161654	LSM12	2.1838	1.0217	6.0330	21.76 54	3.0278	2.9968
ENSG00000143742	SRP9	2.5243	1.0217	2.6800	10.25 13	3.6098	3.5788
ENSG00000146858	ZC3HAV1L	2.5669	1.0217	1.9419	9.158 9	2.5627	2.5317
ENSG00000181544	FANCB	2.2355	1.0216	4.6164	19.70 35	2.6706	2.6398
ENSG00000243775	OSTCP1	2.0685	1.0216	7.5285	26.74 44	2.6097	2.5789
ENSG00000004975	DVL2	2.1785	1.0216	6.0330	21.98 27	2.9098	2.8790
c(\ENSG00000204305\ \"ENSG00000237405\ \"ENSG00000229058\ \"ENSG00000206320\ \"ENSG00000230514\ \"ENSG00000234729\ \"ENSG00000231268\")	AGER	2.2059	1.0215	6.0330	20.87 14	2.5322	2.5014
ENSG00000101843	PSMD10	2.3342	1.0214	3.5713	16.07 18	3.2762	3.2456
ENSG00000154582	TCEB1	2.0202	1.0214	9.4316	28.97 11	3.4574	3.4268
ENSG00000114993	RTKN	2.5074	1.0214	2.6800	10.70 84	2.5457	2.5151
ENSG00000213859	KCTD11	2.2510	1.0214	4.6164	19.10 49	2.6000	2.5695
ENSG00000105323	HNRNPUL1	1.9856	1.0214	9.4316	30.61 11	3.3993	3.3688
ENSG00000183060	LYSMD4	2.3300	1.0214	3.5713	16.21 75	2.5753	2.5448
ENSG00000159346	ADIPOR1	2.1721	1.0213	6.0330	22.25 01	3.2533	3.2228
ENSG00000106443	PHF14	2.1952	1.0213	6.0330	21.30 32	2.5864	2.5560
ENSG00000160216	AGPAT3	1.9546	1.0213	9.4316	32.10 81	2.5853	2.5550
ENSG00000174599	TRAM1L1	2.1957	1.0212	6.0330	21.28 13	2.5209	2.4906

ENSG00000135446	CDK4	1.9909	1.0212	9.4316	30.35 40	3.3481	3.3178
ENSG00000180957	PITPNB	2.2370	1.0212	4.6164	19.64 41	2.9450	2.9147
ENSG00000170677	SOCS6	2.4821	1.0211	2.6800	11.41 19	2.5695	2.5393
ENSG00000135829	DHX9	2.1095	1.0211	7.5285	24.92 09	2.7597	2.7296
ENSG00000213965	NUDT19	2.0985	1.0211	7.5285	25.40 14	2.6084	2.5782
ENSG00000134825	TMEM258	2.6787	1.0211	1.5419	6.640 7	3.6210	3.5909
ENSG00000154122	ANKH	2.1765	1.0210	6.0330	22.06 47	2.5431	2.5130
ENSG00000112183	RBM24	1.9518	1.0210	9.4316	32.24 68	2.5363	2.5064
ENSG00000131771	PPP1R1B	2.0769	1.0209	7.5285	26.36 65	2.5186	2.4888
ENSG00000148600	CDHR1	2.3261	1.0208	3.5713	16.35 29	2.5389	2.5091
ENSG00000121152	NCAPH	2.0076	1.0208	9.4316	29.56 16	2.5494	2.5198
ENSG00000181873	IBA57	1.9799	1.0207	9.4316	30.88 30	2.6606	2.6311
ENSG00000157216	SSBP3	2.4873	1.0207	2.6800	11.26 41	2.5631	2.5336
ENSG00000173812	EIF1	2.0932	1.0206	7.5285	25.63 97	3.4539	3.4246
ENSG00000163939	PBRM1	2.0456	1.0205	7.5285	27.79 12	2.6852	2.6559
ENSG00000128513	POT1	2.2422	1.0205	4.6164	19.44 45	2.4824	2.4531
ENSG00000185842	DNAH14	2.0646	1.0205	7.5285	26.92 05	2.5770	2.5477
ENSG00000142330	CAPN10	2.9547	1.0205	0.7128	2.361 9	2.4863	2.4570
ENSG00000136504	KAT7	2.4254	1.0205	3.5713	13.08 76	2.5834	2.5542
ENSG00000143183	TMCO1	2.0648	1.0205	7.5285	26.91 30	3.4627	3.4335
ENSG00000118873	AURKAPS1	2.0982	1.0204	7.5285	25.41 58	2.5338	2.5046
ENSG00000163807	KIAA1143	1.9693	1.0204	9.4316	31.39 47	2.7447	2.7156
ENSG00000074317	SNCB	2.1831	1.0203	6.0330	21.79 41	2.4640	2.4350
ENSG00000121774	KHDRBS1	2.3571	1.0203	3.5713	15.28 91	3.4433	3.4143
ENSG00000124440	HIF3A	2.0962	1.0203	7.5285	25.50 35	2.5283	2.4993
ENSG00000126457	PRMT1	2.0257	1.0202	9.4316	28.71 47	2.5709	2.5420
ENSG00000185651	UBE2L3	2.1817	1.0202	6.0330	21.85 21	2.6390	2.6101
c:\(ENSG00000145041\", \"ENSG00000260623\")	VPRBP	2.2308	1.0201	4.6164	19.88 37	2.7047	2.6759
ENSG00000172409	CLP1	2.0250	1.0201	9.4316	28.74 68	2.9162	2.8875
ENSG00000173273	TNKS	1.9828	1.0201	9.4316	30.74 29	2.5651	2.5364
ENSG00000121440	PDZRN3	2.2116	1.0201	6.0330	20.64 10	2.5060	2.4773
ENSG00000149927	DOC2A	2.3990	1.0201	3.5713	13.91 36	2.5095	2.4808
ENSG00000113569	NUP155	2.3944	1.0201	3.5713	14.06 01	2.5338	2.5052
ENSG00000213199	ASIC3	1.9490	1.0201	9.4316	32.38 06	2.7138	2.6851
ENSG00000104177	MYEF2	2.3314	1.0200	3.5713	16.17 05	2.5131	2.4846
ENSG00000212734	C17orf100	2.1770	1.0199	6.0330	22.04 50	2.5890	2.5605
ENSG00000261377	LOC646278	2.1117	1.0199	7.5285	24.82 05	2.6342	2.6058
ENSG00000143553	SNAPIN	2.0265	1.0199	9.4316	28.67	2.7032	2.6748

ENSG00000196363	WDR5	2.1428	1.0199	6.0330	23.47	2.5252	2.4968
					78		
					27.97		
ENSG00000130005	GAMT	2.0415	1.0199	9.4316	96	2.5377	2.5093
					29.27		
ENSG00000163938	GNL3	2.0136	1.0198	9.4316	88	3.2080	3.1797
					16.16		
ENSG00000197110	IFNL3	2.3314	1.0198	3.5713	86	2.5040	2.4757
					27.84		
ENSG00000144747	TMF1	2.0443	1.0198	7.5285	94	2.7998	2.7715
					24.87		
ENSG00000141034	GID4	2.1104	1.0198	7.5285	86	2.6767	2.6484
					28.77		
ENSG00000197037	ZSCAN25	2.0243	1.0197	9.4316	94	2.5569	2.5287
					25.22		
ENSG00000147548	WHSC1L1	2.1026	1.0197	7.5285	20	2.5733	2.5452
					15.43		
ENSG00000143971	ETAA1	2.3529	1.0197	3.5713	08	2.5080	2.4798
					29.59		
ENSG00000118454	ANKRD13C	2.0069	1.0197	9.4316	78	2.7532	2.7250
					14.62		
ENSG00000117632	STMN1	2.3772	1.0197	3.5713	14	2.5139	2.4858
					24.44		
ENSG00000250799	PRODH2	2.1204	1.0196	7.5285	37	2.4894	2.4613
					28.53		
ENSG00000128050	PAICS	2.0296	1.0196	9.4316	08	2.5257	2.4977
					32.22		
ENSG00000241123	KRTAP10-5	1.9521	1.0195	9.4316	84	2.5360	2.5081
					29.11		
ENSG00000186716	BCR	2.0170	1.0195	9.4316	94	2.6088	2.5809
c(\ENSG00000262023\","					32.13		
\"ENSG00000234616\")"	JRK	1.9540	1.0195	9.4316	79	2.5846	2.5567
					30.69		
ENSG00000099942	CRKL	1.9839	1.0194	9.4316	18	3.0562	3.0285
c(\ENSG00000127540\","					32.11		
\"ENSG00000267059\")"	UQCR11	1.9544	1.0193	9.4316	88	2.7411	2.7135
					23.49		
ENSG00000186871	ERCC6L	2.1426	1.0193	6.0330	04	2.5304	2.5029
					16.59		
ENSG00000144048	DUSP11	2.3192	1.0193	4.6164	54	3.1744	3.1469
					21.22		
ENSG00000143498	TAF1A	2.1972	1.0192	6.0330	08	2.6377	2.6103
					16.83		
ENSG00000196418	ZNF124	2.3124	1.0192	4.6164	69	2.5324	2.5050
					17.20		
ENSG00000137135	ARHGEF39	2.3022	1.0191	4.6164	17	2.5299	2.5026
					31.07		
ENSG00000104408	EIF3E	1.9759	1.0191	9.4316	43	3.6721	3.6449
					26.33		
ENSG00000196504	PRPF40A	2.0777	1.0190	7.5285	01	2.5920	2.5648
					16.29		
ENSG00000091106	NLRC4	2.3277	1.0190	3.5713	92	2.5924	2.5653
					24.24		
ENSG00000160193	WDR4	2.1250	1.0190	7.5285	58	2.6224	2.5952
					22.40		
ENSG00000160803	UBQLN4	2.1683	1.0190	6.0330	84	2.5491	2.5220
					13.56		
ENSG00000132646	PCNA	2.4100	1.0189	3.5713	45	2.6080	2.5810
					29.26		
ENSG00000206535	LNP1	2.0139	1.0189	9.4316	63	2.5562	2.5292
					22.76		
ENSG00000117122	MFAP2	2.1598	1.0188	6.0330	30	2.4941	2.4672
					20.23		
ENSG00000187801	ZFP69B	2.2219	1.0188	6.0330	60	2.5705	2.5436
					24.17		
ENSG00000139132	FGD4	2.1266	1.0187	7.5285	49	2.5611	2.5344
					29.59		
ENSG00000107614	TRDMT1	2.0069	1.0186	9.4316	47	2.5613	2.5346
					30.53		
ENSG00000223609	HBD	1.9871	1.0186	9.4316	92	2.5011	2.4744
					16.89		
ENSG00000120341	SEC16B	2.3108	1.0185	4.6164	55	2.5058	2.4793
					26.18		
ENSG00000180479	ZNF571	2.0809	1.0185	7.5285	70	2.6020	2.5756

ENSG00000198900	TOP1	2.1682	1.0184	6.0330	22.40 90	2.6425	2.6162
ENSG00000099783	HNRNPM	2.3218	1.0184	4.6164	16.50 60	3.4999	3.4736
ENSG00000126267	COX6B1	2.1564	1.0183	6.0330	22.90 54	3.5963	3.5701
ENSG00000159784	FAM131B	2.3246	1.0183	3.5713	16.40 69	2.6237	2.5975
ENSG00000238105	GOLGA2P5	2.3684	1.0183	3.5713	14.91 08	2.5182	2.4921
ENSG00000147650	LRP12	2.3070	1.0183	4.6164	17.02 96	2.5329	2.5068
ENSG00000148498	PARD3	2.0962	1.0183	7.5285	25.50 35	2.5618	2.5357
ENSG00000164049	FBXW12	2.3022	1.0182	4.6164	17.20 28	2.4726	2.4465
ENSG00000075856	SART3	2.0414	1.0182	9.4316	27.98 62	2.6304	2.6045
ENSG00000152582	SPEF2	2.0541	1.0181	7.5285	27.40 00	2.5581	2.5321
ENSG00000068354	TBC1D25	1.9880	1.0181	9.4316	30.49 43	2.6350	2.6092
ENSG00000163682	RPL9	2.0584	1.0180	7.5285	27.20 33	3.7441	3.7184
ENSG00000118900	UBN1	1.9656	1.0179	9.4316	31.57 38	2.5350	2.5094
ENSG00000149927	DOC2A	2.0726	1.0179	7.5285	26.56 09	2.4704	2.4449
ENSG00000143452	HORMAD1	2.0350	1.0178	9.4316	28.27 92	2.4988	2.4733
ENSG00000108264	TADA2A	1.9552	1.0177	9.4316	32.07 88	2.5987	2.5733
ENSG00000172324	OR5A2	2.0608	1.0177	7.5285	27.09 66	2.4551	2.4297
ENSG00000236397	DDX11L2	2.0212	1.0177	9.4316	28.92 58	2.5360	2.5106
NA	LOC441242	2.3105	1.0177	4.6164	16.90 67	2.4859	2.4606
ENSG00000141437	SLC25A52	2.1340	1.0175	7.5285	23.85 75	2.4821	2.4571
ENSG00000178928	TPRX1	2.3797	1.0175	3.5713	14.53 66	2.4835	2.4585
ENSG00000188177	ZC3H6	2.0359	1.0174	9.4316	28.24 04	2.6386	2.6136
ENSG00000047230	CTPS2	2.4074	1.0174	3.5713	13.64 89	2.5169	2.4920
ENSG00000161547	SRSF2	2.0763	1.0174	7.5285	26.39 29	3.4909	3.4660
ENSG00000122515	ZMIZ2	1.9554	1.0173	9.4316	32.06 75	2.7479	2.7231
ENSG00000163467	TSACC	1.9522	1.0173	9.4316	32.22 41	2.5591	2.5344
ENSG00000141867	BRD4	1.9980	1.0172	9.4316	30.02 01	2.5599	2.5354
ENSG00000150783	TEX12	2.0834	1.0172	7.5285	26.07 30	2.4982	2.4736
ENSG00000086159	AQP6	2.0315	1.0171	9.4316	28.44 37	2.6116	2.5871
ENSG00000131469	RPL27	2.4327	1.0171	2.6800	12.86 33	3.7665	3.7421
ENSG00000162398	C1orf177	2.4129	1.0170	3.5713	13.47 49	2.5101	2.4857
ENSG00000178828	RNF186	2.0428	1.0170	9.4316	27.92 05	2.5061	2.4817
ENSG00000132016	C19orf57	2.2953	1.0170	4.6164	17.45 36	2.4941	2.4698
ENSG00000139496	NUPL1	2.0376	1.0170	9.4316	28.16 19	2.6571	2.6328
ENSG00000204052	LRRC73	1.9896	1.0169	9.4316	30.41 81	2.5152	2.4910
ENSG00000080802	CNOT4	2.0688	1.0169	7.5285	26.73 15	2.5842	2.5600
ENSG00000143702	CEP170	2.0810	1.0168	7.5285	26.18 14	2.5224	2.4984
ENSG00000174130	TLR6	2.1036	1.0168	7.5285	25.17	2.5501	2.5261

					82		
ENSG00000136002	ARHGEF4	1.9894	1.0167	9.4316	30.42		
					79	2.5129	2.4889
ENSG00000225077	LINC00337	2.3717	1.0166	3.5713	14.80		
					02	2.5002	2.4764
ENSG00000111605	CPSF6	2.1776	1.0166	6.0330	22.01		
c(\ENSG00000261413",					96	2.6609	2.6372
\\"ENSG00000174111\\")"	SOCS7	1.9778	1.0166	9.4316	30.98		
					38	2.5469	2.5232
ENSG00000148335	NTMT1	2.0833	1.0166	7.5285	26.07		
					88	2.5550	2.5313
ENSG00000197147	LRRC8B	2.0407	1.0166	9.4316	28.01		
					52	2.5532	2.5295
ENSG00000094804	CDC6	2.4301	1.0165	2.6800	12.94		
					24	2.5447	2.5210
ENSG00000080298	RFX3	1.9827	1.0165	9.4316	30.74		
					76	2.5607	2.5371
ENSG00000180035	ZNF48	2.0698	1.0164	7.5285	26.68		
					71	2.5315	2.5081
ENSG00000173239	LIPM	2.1672	1.0163	6.0330	22.45		
					35	2.4701	2.4468
ENSG00000125484	GTF3C4	2.1534	1.0163	6.0330	23.02		
					99	2.5388	2.5155
ENSG00000167419	LPO	2.0592	1.0163	7.5285	27.16		
					79	2.4942	2.4709
ENSG00000164045	CDC25A	2.2404	1.0162	4.6164	19.51		
					22	2.5276	2.5044
ENSG00000166090	IL25	1.9718	1.0161	9.4316	31.27		
					38	2.5225	2.4994
ENSG00000126895	AVPR2	2.2318	1.0160	4.6164	19.84		
					69	2.5129	2.4899
ENSG00000105193	RPS16	2.1856	1.0160	6.0330	21.69		
					43	3.8217	3.7987
ENSG00000158296	SLC13A3	2.0088	1.0160	9.4316	29.50		
c(\ENSG00000169905",					65	2.5073	2.4844
\\"ENSG00000258664\\")"	TOR1AIP2	2.0050	1.0158	9.4316	29.68		
					68	2.5468	2.5241
ENSG00000001460	STPG1	2.0243	1.0158	9.4316	28.77		
					70	2.4983	2.4756
ENSG00000125743	SNRPD2	1.9965	1.0158	9.4316	30.09		
					02	3.7463	3.7237
ENSG00000165583	SSX5	2.1540	1.0157	6.0330	23.00		
					50	2.5017	2.4792
ENSG00000175093	SPSB4	1.9687	1.0157	9.4316	31.42		
					47	2.5263	2.5037
ENSG00000177954	RPS27	2.4449	1.0157	2.6800	12.49		
					34	3.8394	3.8170
ENSG00000183643	C15orf32	2.0256	1.0157	9.4316	28.71		
					93	2.4733	2.4508
ENSG00000185869	ZNF829	2.4676	1.0156	2.6800	11.82		
					61	2.5002	2.4779
ENSG00000196172	ZNF681	2.2767	1.0155	4.6164	18.13		
					53	2.4870	2.4648
ENSG00000132694	ARHGEF11	2.1698	1.0155	6.0330	22.34		
					31	2.5001	2.4779
ENSG00000082805	ERC1	2.1807	1.0152	6.0330	21.89		
					54	2.5058	2.4840
ENSG00000187566	NHLRC1	2.2777	1.0152	4.6164	18.10		
c(\ENSG00000256436",					10	2.4664	2.4446
\\"ENSG00000263097",							
\\"ENSG00000262379\\")"	TAS2R31	2.0603	1.0151	7.5285	27.11		
					84	2.4837	2.4620
ENSG00000101049	SGK2	2.0650	1.0151	7.5285	26.90		
					29	2.5133	2.4917
ENSG00000096395	MLN	2.0867	1.0150	7.5285	25.92		
					62	2.4686	2.4471
ENSG00000139880	CDH24	2.1962	1.0149	6.0330	21.26		
					33	2.4808	2.4595
ENSG00000154803	FLCN	1.9849	1.0149	9.4316	30.64		
					09	2.5322	2.5109
ENSG00000182334	OR5P3	2.1994	1.0146	6.0330	21.13		
					37	2.4937	2.4727
ENSG00000067646	ZFY	2.1843	1.0146	6.0330	21.74		
					76	2.4865	2.4656
ENSG00000134802	SLC43A3	2.0761	1.0146	7.5285	26.40		
						2.6178	2.5969



Gene ID	Gene Name	FC	Log2FC	Log2FC	Log2FC	Log2FC	Log2FC	Log2FC
c(\ENSG00000178110\," \"ENSG00000197980\")	LEKR1	2.2795	1.0145	4.6164	18.03	38	2.5173	2.4966
ENSG00000127364	TAS2R4	1.9999	1.0145	9.4316	29.92	90	2.4951	2.4743
ENSG00000165066	NKX6-3	1.9561	1.0145	9.4316	32.03	47	2.5549	2.5342
ENSG00000135747	ZNF670	2.0843	1.0144	7.5285	26.03	35	2.5607	2.5401
ENSG00000115540	MOB4	1.9748	1.0144	9.4316	31.12	73	2.4612	2.4406
ENSG00000143398	PIP5K1A	2.0020	1.0142	9.4316	29.83	02	2.5547	2.5343
c(\ENSG00000178110\," \"ENSG00000197980\")	LEKR1	1.9753	1.0140	9.4316	31.10	34	2.5329	2.5128
ENSG00000168995	SIGLEC7	1.9919	1.0139	9.4316	30.31	06	2.4779	2.4579
ENSG00000163960	UBXN7	2.1180	1.0138	7.5285	24.54	60	2.5378	2.5180
ENSG00000165259	HDX	1.9824	1.0137	9.4316	30.76	08	2.5253	2.5056
ENSG00000135074	ADAM19	1.9777	1.0137	9.4316	30.98	68	2.4795	2.4598
ENSG00000177954	RPS27	2.1483	1.0136	6.0330	23.24	74	3.8528	3.8332
ENSG00000163961	RNF168	2.0424	1.0135	9.4316	27.93	86	2.5188	2.4994
ENSG00000203914	HSP90B3P	2.1875	1.0132	6.0330	21.61	38	2.4945	2.4755
ENSG00000176601	MAP3K19	1.9778	1.0132	9.4316	30.98	38	2.4657	2.4467
ENSG00000197122	SRC	1.9974	1.0131	9.4316	30.04	86	2.5155	2.4968
ENSG00000148680	HTR7	1.9578	1.0128	9.4316	31.95	29	2.5166	2.4982

\*Ordered by fold change

¶Only genes with q < 0.1 are shown

## Supplementary Table S3: Sheet 5

HiAiCNA-HiCnLOH PrECOG

Gene Name	score.d	Fold.chan ge	q.value	local.fdr	Log2 HiAiCNA/HiCnL OH. expression	Log2 LoSCINS. expression
CDH19	-2.8255	1.3198	79.6111	98.6097	2.4491	2.0488
<b>HORMAD1</b>	<b>-2.4405</b>	<b>1.2940</b>	<b>90.6863</b>	<b>95.3313</b>	<b>2.7288</b>	<b>2.3570</b>
SCRG1	-2.6551	1.2862	90.6863	97.6626	2.8635	2.5004
UGT8	-2.2775	1.2800	90.9232	94.3037	2.7792	2.4230
COL2A1	-2.3547	1.2756	90.9232	94.6106	2.6877	2.3365
WIF1	-2.2198	1.2598	90.9232	94.3342	2.4948	2.1615
PTPRZ1	-2.2215	1.2409	90.9232	94.3300	2.5497	2.2384
PCOLCE2	-2.9007	1.2327	79.6111	98.6170	2.7364	2.4346
SHC4	-2.3207	1.2231	90.9232	94.4283	2.8337	2.5431
LGR5	-1.8120	1.2073	98.1777	99.7054	2.2081	1.9363
OSR1	-2.4153	1.2018	90.6863	95.0861	2.5686	2.3034
CXCL5	-2.0105	1.2013	94.3473	96.2073	2.5592	2.2946
PTX3	-2.0790	1.1969	90.9232	95.3151	2.9019	2.6426
LEMD1	-2.3754	1.1933	90.9232	94.7535	2.5505	2.2955
FREM2	-2.3349	1.1926	90.9232	94.4959	2.1270	1.8729
SOX10	-2.5977	1.1896	90.6863	97.0883	3.0932	2.8427
VGLL1	-1.7901	1.1835	98.6754	100.000 0	2.9260	2.6829
FDCSP	-1.7355	1.1826	99.9648	100.000 0	3.3849	3.1428
IRX1	-1.7736	1.1783	98.6754	100.000 0	2.8761	2.6394
FERMT1	-2.6413	1.1779	90.6863	97.5338	2.8852	2.6490
SFRP1	-2.1549	1.1774	90.9232	94.6310	3.0729	2.8374
FRMD3	-3.2857	1.1746	79.6111	95.6000	3.0186	2.7865
OPRK1	-2.1335	1.1732	90.9232	94.7880	1.9515	1.7211
CXCL6	-1.9117	1.1710	94.6966	97.8433	2.2308	2.0031
PTCHD1	-2.1073	1.1693	90.9232	95.0191	2.4601	2.2345
NCAM1	-2.6273	1.1687	90.6863	97.3973	2.3717	2.1467
MYCN	-2.3650	1.1683	90.9232	94.6790	2.6011	2.3767
CT83	-1.3569	1.1671	100.061 4	100.000 0	2.7851	2.5621
KRT6B	-2.0574	1.1657	94.3473	95.5709	3.3413	3.1201
KANK4	-2.4204	1.1626	90.6863	95.1340	3.1031	2.8857
C8orf46	-1.7392	1.1587	99.9648	100.000 0	2.2811	2.0686
CXCL1	-2.4504	1.1580	90.6863	95.4335	2.7053	2.4937
CYP7B1	-2.3108	1.1556	90.9232	94.3890	2.5013	2.2927
MMP1	-1.8846	1.1535	94.6966	98.3417	3.1806	2.9745
FGF2	-1.9423	1.1507	94.6966	97.3020	2.3479	2.1455
DCX	-1.5706	1.1505	100.061 4	100.000 0	2.2706	2.0683
TGFB2	-1.7103	1.1503	99.9648	100.000 0	2.3548	2.1527
FUT9	-1.9538	1.1479	94.6966	97.1058	2.1596	1.9606
ADIPOQ	-1.3311	1.1475	100.061 4	100.000 0	2.8505	2.6520
NPY1R	-1.6544	1.1473	100.019 6	100.000 0	2.5486	2.3504
IGFBP2	-2.7835	1.1459	79.6111	98.4924	3.1559	2.9594
GABRP	-2.0202	1.1446	94.3473	96.0676	3.4299	3.2350
FBN2	-1.9375	1.1443	94.6966	97.3850	2.5882	2.3938
NFASC	-2.0954	1.1442	90.9232	95.1382	2.5428	2.3485
L1CAM	-1.9146	1.1437	94.6966	97.7909	2.6596	2.4658
CYYR1	-2.5602	1.1431	90.6863	96.6720	2.9002	2.7073
PNMAL1	-1.9981	1.1400	94.3473	96.3927	2.9286	2.7396
STXBP6	-1.4690	1.1381	100.061	100.000	2.1930	2.0064

			4	0		
			100.061	100.000		
CHRM3	-1.5654	1.1374	4	0	2.4264	2.2407
MT1M	-1.8309	1.1374	95.9448	99.3506	2.6841	2.4985
BCL11A	-2.4471	1.1353	90.6863	95.3983	3.1928	3.0098
EPHB1	-1.9473	1.1349	94.6966	97.2158	2.7079	2.5254
TOX	-2.0522	1.1346	94.3473	95.6360	2.6023	2.4200
TM4SF18	-2.9153	1.1339	79.6111	98.5890	2.8590	2.6777
VASH2	-2.1750	1.1336	90.9232	94.5096	2.8768	2.6959
GPR84	-2.7781	1.1333	79.6111	98.4717	2.5833	2.4028
COL27A1	-2.8101	1.1332	79.6111	98.5761	2.9663	2.7858
SPTBN1	-2.8429	1.1330	79.6111	98.6347	2.2601	2.0799
SLC16A1	-2.3933	1.1330	90.6863	94.8942	2.8829	2.7028
			100.061	100.000		
PCDH8	-1.5427	1.1325	4	0	2.1618	1.9823
				100.000		
C5orf66-AS1	-1.7565	1.1323	98.6754	0	2.1947	2.0155
MAOB	-2.1200	1.1318	90.9232	94.9019	3.0955	2.9169
HAS2	-2.4900	1.1315	90.6863	95.8661	2.1784	2.0002
				100.000		
TMEM200C	-1.7614	1.1315	98.6754	0	2.7385	2.5603
			100.019	100.000		
BMPR1B	-1.6775	1.1295	6	0	2.3907	2.2150
			100.019	100.000		
PRSS33	-1.6199	1.1291	6	0	2.6550	2.4799
			100.061	100.000		
CLDN10	-1.3221	1.1288	4	0	2.3860	2.2112
CNKSR2	-2.1982	1.1285	90.9232	94.4026	2.2231	2.0486
PCSK6	-2.7411	1.1275	79.6111	98.2950	2.2760	2.1028
ITGA9	-2.6332	1.1275	90.6863	97.4553	3.0549	2.8818
			100.019	100.000		
ST6GALNAC5	-1.6037	1.1273	6	0	2.7276	2.5548
				100.000		
POPDC3	-1.7575	1.1270	98.6754	0	2.2268	2.0543
			100.061	100.000		
HAPLN1	-1.3412	1.1268	4	0	2.0567	1.8844
BAG2	-2.5971	1.1267	90.6863	97.0817	2.8546	2.6825
WISP3	-1.8225	1.1267	98.1777	99.5087	2.0951	1.9230
CDON	-3.2139	1.1263	79.6111	96.4192	2.6129	2.4413
			100.061	100.000		
SOX6	-1.5030	1.1262	4	0	2.5673	2.3959
BAMBI	-2.5224	1.1257	90.6863	96.2374	3.2560	3.0852
			100.061	100.000		
SOX2	-1.4887	1.1255	4	0	1.9934	1.8228
			100.061	100.000		
KLK10	-1.4736	1.1248	4	0	2.8116	2.6419
			100.061	100.000		
ROPN1	-1.5881	1.1248	4	0	2.9872	2.8175
			100.061	100.000		
DLGAP1	-1.3861	1.1248	4	0	1.9419	1.7722
ST8SIA1	-1.9766	1.1236	94.3473	96.7299	2.7369	2.5687
BMP2	-2.1173	1.1235	90.9232	94.9262	2.5206	2.3525
CASC10	-2.0412	1.1235	94.3473	95.7784	1.9902	1.8222
C3orf55	-2.4386	1.1227	90.6863	95.3120	2.4128	2.2458
TNFRSF21	-2.6063	1.1224	90.6863	97.1805	2.8145	2.6480
CHRDL1	-1.9306	1.1223	94.6966	97.5061	2.9503	2.7838
			100.051	100.000		
IL12RB2	-1.5959	1.1222	4	0	2.3645	2.1981
ARNTL2	-2.0004	1.1217	94.3473	96.3591	2.6895	2.5239
			100.061	100.000		
DLX6	-1.4743	1.1214	4	0	1.9408	1.7754
			100.061	100.000		
DKK1	-1.1915	1.1214	4	0	2.5803	2.4150
			100.061	100.000		
IBSP	-1.3780	1.1214	4	0	2.3968	2.2316
LRRN3	-2.0548	1.1211	94.3473	95.6033	2.2909	2.1260
				100.000		
CLEC5A	-1.7211	1.1204	99.9648	0	2.5222	2.3582
SMOC1	-2.1167	1.1197	90.9232	94.9315	2.5894	2.4263
PRKCA	-2.2273	1.1193	90.9232	94.3175	2.8884	2.7258

			100.061	100.000		
C2orf40	-1.4687	1.1191	4	0	2.8666	2.7043
MIA	-2.0197	1.1188	94.3473	96.0748	3.2246	3.0627
CENPV	-2.2410	1.1170	90.9232	94.2970	2.9739	2.8143
ITGB8	-1.8745	1.1165	94.6966	98.5294	2.2977	2.1387
			100.061	100.000		
GRB14	-1.4530	1.1162	4	0	2.5756	2.4170
NAP1L5	-1.8154	1.1154	98.1777	99.6409	2.6042	2.4466
UCHL1	-1.8984	1.1154	94.6966	98.0864	3.0834	2.9258
			100.061	100.000		
TMEM213	-1.4812	1.1140	4	0	2.5296	2.3738
ARL9	-2.4775	1.1138	90.6863	95.7264	2.7896	2.6341
DEPDC7	-1.9011	1.1136	94.6966	98.0373	2.4193	2.2641
GABRA5	-1.8230	1.1133	98.1777	99.4997	1.7713	1.6164
MYBL1	-2.0294	1.1131	94.3473	95.9388	3.1668	3.0122
GCNT1	-2.7377	1.1118	79.6111	98.2760	2.7768	2.6239
SDK1	-2.1945	1.1112	90.9232	94.4173	2.4096	2.2575
LMO3	-2.0486	1.1110	94.3473	95.6826	2.4834	2.3315
HRCT1	-1.8888	1.1109	94.6966	98.2628	2.8717	2.7201
			100.000	100.000		
ARNT2	-1.7817	1.1090	98.6754	0	2.8117	2.6624
			100.061	100.000		
CAPN6	-1.1402	1.1078	4	0	2.8826	2.7348
C1orf226	-2.2023	1.1074	90.9232	94.3873	2.5831	2.4359
RPUSD3	-2.1928	1.1074	90.9232	94.4243	2.2371	2.0899
			100.061	100.000		
PAQR5	-1.5789	1.1070	4	0	2.4408	2.2942
			100.061	100.000		
KRT6A	-1.0041	1.1066	4	0	2.3638	2.2177
ADAMTS9	-2.8637	1.1064	79.6111	98.6461	2.9464	2.8005
RYR3	-2.5111	1.1058	90.6863	96.1072	1.8297	1.6847
CDCA7	-2.3274	1.1052	90.9232	94.4589	3.1476	3.0033
			100.061	100.000		
ADRB1	-1.3167	1.1044	4	0	2.1707	2.0274
			100.000	100.000		
LAMC2	-1.7348	1.1043	99.9648	0	2.9032	2.7601
			100.019	100.000		
SLC35F3	-1.6566	1.1041	6	0	2.4473	2.3045
FCGR1B	-2.2496	1.1040	90.9232	94.2905	2.9877	2.8450
FZD3	-1.8849	1.1035	94.6966	98.3357	2.4821	2.3400
			100.051	100.000		
SUSD4	-1.5953	1.1034	4	0	2.7456	2.6036
			100.061	100.000		
MAP7D2	-1.3086	1.1033	4	0	2.3873	2.2454
			100.061	100.000		
S100B	-1.3271	1.1031	4	0	2.8866	2.7450
GCNT2	-2.4072	1.1028	90.6863	95.0133	3.2481	3.1069
CH25H	-2.0374	1.1026	94.3473	95.8294	2.6659	2.5250
			100.061	100.000		
IRX4	-1.5504	1.1025	4	0	2.4995	2.3587
FAM181B	-1.8610	1.1024	94.6966	98.7820	2.2965	2.1559
			100.000	100.000		
GLS	-1.7431	1.1022	99.9648	0	2.4380	2.2976
			100.000	100.000		
FZD8	-1.7179	1.1022	99.9648	0	2.6398	2.4995
SYNM	-2.0078	1.1018	94.3473	96.2484	3.3238	3.1839
			100.061	100.000		
MFSD4	-1.2006	1.1017	4	0	2.6679	2.5281
PRTFDC1	-1.9705	1.1014	94.3473	96.8288	3.0512	2.9119
CHODL	-1.8305	1.1012	95.9448	99.3572	2.6442	2.5050
			100.019	100.000		
DNAJC6	-1.6385	1.1012	6	0	2.7623	2.6233
KCNK5	-2.1366	1.1002	90.9232	94.7641	2.9162	2.7784
			100.019	100.000		
AQP5	-1.6173	1.1001	6	0	2.7160	2.5784
DLX5	-1.8811	1.1000	94.6966	98.4056	2.3746	2.2371
			100.061	100.000		
GAL	-1.3468	1.0998	4	0	2.9352	2.7979
			100.061	100.000		
PALM2	-1.5498	1.0997	4	0	2.3153	2.1782

FRAS1	-1.5311	1.0995	100.061 4	100.000 0	2.6790	2.5422
MGP	-1.0381	1.0995	100.061 4	100.000 0	2.4747	2.3379
LOX	-1.6820	1.0994	100.019 6	100.000 0	2.7750	2.6383
EFEMP1	-1.4948	1.0994	100.061 4	100.000 0	2.8957	2.7591
TMEM139	-1.3036	1.0991	100.061 4	100.000 0	2.8573	2.7209
LOC100505501	-1.9687	1.0986	94.3473	96.8580	2.4185	2.2828
NRAS	-2.7896	1.0985	79.6111 100.061	98.5144 100.000	3.0579	2.9225
LRP2	-1.2693	1.0983	4	0	2.6764	2.5411
COL9A1	-1.7402	1.0983	99.9648 100.019	0 100.000	2.4308	2.2955
PTGDR	-1.7034	1.0982	6	0	2.0800	1.9448
ERCC6L	-2.9431	1.0981	79.6111	98.5122	2.7086	2.5737
SLCO4A1	-2.0235	1.0980	94.3473 100.061	96.0211 100.000	2.7167	2.5818
MPPED2	-1.1790	1.0979	4	0	2.3618	2.2271
SLMO1	-3.0881	1.0972	79.6111	97.6769 100.000	2.4629	2.3290
GPR83	-1.7895	1.0968	98.6754 100.061	0 100.000	1.9182	1.7850
ZNF280B	-1.5249	1.0967	4	0	2.4085	2.2753
RYR1	-1.6578	1.0965	100.019 6	100.000 0	2.4941	2.3611
PLEKHB1	-1.4521	1.0961	100.061 4	100.000 0	2.8585	2.7261
PTPLA	-1.5083	1.0961	4	0	2.8982	2.7659
RAB6B	-2.0752	1.0960	90.9232 100.061	95.3576 100.000	2.5719	2.4397
SLC1A6	-1.0225	1.0959	4	0	1.9593	1.8272
MMP3	-1.6675	1.0959	100.019 6	100.000 0	2.9984	2.8664
KCNQ5	-1.4413	1.0956	100.061 4	100.000 0	2.1590	2.0273
SUSD5	-1.2435	1.0954	4	0	2.0682	1.9368
FAM208B	-2.5303	1.0954	90.6863	96.3292	2.7183	2.5869
MTCL1	-2.1967	1.0948	90.9232 100.061	94.4083 100.000	2.7809	2.6502
COCH	-1.0774	1.0946	4	0	2.6304	2.5000
S100A2	-1.1645	1.0945	100.061 4	100.000 0	3.0979	2.9677
GPBM2	-2.2734	1.0945	90.9232	94.2985	2.9966	2.8664
CENPI	-2.4640	1.0945	90.6863 100.061	95.5783 100.000	2.5870	2.4568
GABBR2	-0.9083	1.0942	4	0	2.5098	2.3799
SLC6A14	-0.9124	1.0940	100.061 4	100.000 0	2.8670	2.7374
SMR3B	-1.1344	1.0940	100.061 4	100.000 0	1.9283	1.7986
GLDC	-1.3729	1.0940	4	0	2.6324	2.5028
SPC25	-1.8761	1.0938	94.6966	98.4998	2.7453	2.6159
VANGL1	-3.0942	1.0938	79.6111 100.061	97.6260 100.000	2.9626	2.8333
TTC23	-1.4220	1.0933	4	0	2.1037	1.9749
SLFN13	-2.1672	1.0933	90.9232	94.5536	2.3915	2.2628
IL17RD	-2.2291	1.0932	90.9232	94.3142	3.1640	3.0355
HSPB2	-2.2665	1.0931	90.9232 100.061	94.2923 100.000	2.6874	2.5589
TMEM100	-1.0988	1.0929	4	0	2.5481	2.4199
VIM	-2.1185	1.0929	90.9232	94.9155 100.000	2.0832	1.9551
KLRG2	-1.7129	1.0927	99.9648	0	2.9869	2.8591
RGMA	-2.3595	1.0921	90.9232	94.6414	2.9222	2.7951
FAM216A	-2.2108	1.0920	90.9232	94.3590	2.9990	2.8720

CCL4	-1.9826	1.0916	94.3473	96.6334	3.0418	2.9153
SLC16A1-AS1	-2.5193	1.0909	90.6863	96.2022	2.2766	2.1511
			100.061	100.000		
TUBB2B	-1.0608	1.0909	4	0	2.5924	2.4668
			100.061	100.000		
SPINK6	-1.5844	1.0909	4	0	2.0858	1.9602
GPX7	-2.2924	1.0909	90.9232	94.3325	2.9579	2.8324
CCL13	-2.1012	1.0901	90.9232	95.0793	2.7993	2.6748
			100.061	100.000		
LRRN1	-1.0110	1.0899	4	0	2.8507	2.7266
			100.061	100.000		
FGFBP2	-1.1192	1.0898	4	0	2.2802	2.1562
			100.061	100.000		
VIT	-1.5184	1.0897	4	0	2.6507	2.5268
			100.061	100.000		
LINC00518	-1.0082	1.0896	4	0	2.1655	2.0417
			100.061	100.000		
CSPG4	-1.4593	1.0895	4	0	2.7196	2.5959
AGMAT	-1.9231	1.0892	94.6966	97.6387	2.7081	2.5848
VSIG4	-2.1992	1.0890	90.9232	94.3987	2.9809	2.8580
BLM	-2.6550	1.0888	90.6863	97.6621	2.8087	2.6860
			100.061	100.000		
MFI2	-1.3050	1.0888	4	0	2.6206	2.4979
			100.061	100.000		
LRRC34	-1.3596	1.0887	4	0	2.2702	2.1476
			100.061	100.000		
GBP5	-1.2704	1.0882	4	0	2.7651	2.6432
			100.061	100.000		
IFNG	-1.3850	1.0879	4	0	2.2742	2.1527
			100.061	100.000		
CP	-0.9590	1.0878	4	0	2.8701	2.7486
			100.019	100.000		
MCM10	-1.6992	1.0878	6	0	2.9534	2.8320
			100.061	100.000		
CTLA4	-1.2996	1.0876	4	0	2.3277	2.2066
KCNN4	-2.2745	1.0875	90.9232	94.2998	3.1542	3.0331
			100.019	100.000		
CCL8	-1.6758	1.0875	6	0	3.2604	3.1394
			100.061	100.000		
IL8	-1.1579	1.0874	4	0	2.8998	2.7789
			100.061	100.000		
ADH1B	-0.7536	1.0873	4	0	2.6537	2.5330
			100.061	100.000		
MARCO	-1.5325	1.0872	4	0	2.9116	2.7910
GPR161	-1.8983	1.0871	94.6966	98.0881	2.8590	2.7386
ORC1	-1.8749	1.0866	94.6966	98.5213	2.3623	2.2424
RYR2	-1.8978	1.0866	94.6966	98.0974	2.0949	1.9750
			100.019	100.000		
LGR6	-1.6450	1.0865	6	0	2.7515	2.6318
			100.019	100.000		
MOXD1	-1.6910	1.0865	6	0	2.7354	2.6157
				100.000		
CHEK1	-1.7759	1.0864	98.6754	0	2.8274	2.7078
PDK3	-1.9427	1.0864	94.6966	97.2960	2.8005	2.6810
IFITM10	-1.8706	1.0864	94.6966	98.6031	2.4935	2.3740
KIF14	-1.8454	1.0863	95.9448	99.0755	2.8285	2.7091
AQP1	-1.9195	1.0862	94.6966	97.7043	3.1907	3.0713
			100.019	100.000		
SKP2	-1.6387	1.0861	6	0	2.4095	2.2903
			100.061	100.000		
ART3	-0.8209	1.0857	4	0	2.8018	2.6832
POLR3G	-2.0199	1.0857	94.3473	96.0713	2.6722	2.5537
			100.061	100.000		
GALNT16	-1.1920	1.0856	4	0	2.5671	2.4485
			100.019	100.000		
ADAMTS18	-1.6072	1.0856	6	0	2.4398	2.3214
			100.061	100.000		
ANP32E	-1.2308	1.0854	4	0	2.7427	2.6244
			100.061	100.000		
NTRK3	-1.4512	1.0854	4	0	2.2637	2.1454
AGPAT4	-2.1686	1.0853	90.9232	94.5457	2.5236	2.4055
BIRC5	-1.9223	1.0850	94.6966	97.6544	2.8984	2.7808

STEAP1B	-1.8070	1.0849	98.1777	99.7988	2.4312	2.3136
FSCN1	-2.4870	1.0846	90.6863	95.8324	3.0499	2.9328
			100.061	100.000		
PPP4R4	-1.4749	1.0845	4	0	1.7495	1.6324
EPHB3	-1.8802	1.0844	94.6966	98.4228	3.0062	2.8892
			100.061	100.000		
DLK1	-0.7264	1.0843	4	0	2.4873	2.3706
LOC100506870	-3.2828	1.0842	79.6111	95.6331	2.5435	2.4268
			100.061	100.000		
RBM24	-1.5123	1.0842	4	0	2.0689	1.9523
ITGB1BP1	-2.1096	1.0841	90.9232	94.9975	2.8106	2.6942
CHAC2	-2.0579	1.0839	94.3473	95.5646	2.9311	2.8148
			100.000			
SLC7A11	-1.7575	1.0839	98.6754	0	2.5162	2.4000
LIF	-1.9694	1.0839	94.3473	96.8461	2.5523	2.4362
NMT2	-2.3802	1.0838	90.9232	94.7890	2.9487	2.8326
ABCD3	-2.0372	1.0837	94.3473	95.8324	2.0560	1.9401
			100.019	100.000		
RAVER2	-1.6356	1.0836	6	0	2.6116	2.4958
EPB41L2	-2.2231	1.0833	90.9232	94.3263	2.7739	2.6584
			100.061	100.000		
SIX3	-0.8968	1.0828	4	0	2.5162	2.4014
			100.019	100.000		
DMD	-1.6364	1.0826	6	0	3.0510	2.9365
			100.061	100.000		
C4orf19	-1.2704	1.0824	4	0	2.4314	2.3171
			100.019	100.000		
CACHD1	-1.6781	1.0822	6	0	2.8743	2.7603
LOXL4	-1.8723	1.0821	94.6966	98.5707	2.9035	2.7897
			100.061	100.000		
CYP24A1	-1.4753	1.0820	4	0	1.9327	1.8190
RTN4IP1	-2.1892	1.0819	90.9232	94.4401	2.6210	2.5074
			100.061	100.000		
ENPP5	-1.3295	1.0819	4	0	2.9337	2.8202
			100.061	100.000		
ERVMER34-1	-1.2996	1.0818	4	0	2.4121	2.2987
			100.000			
ADORA1	-1.7793	1.0817	98.6754	0	2.8554	2.7420
MST4	-2.2841	1.0817	90.9232	94.3146	3.1665	3.0533
FJX1	-2.1940	1.0816	90.9232	94.4193	2.9551	2.8419
FXN	-2.9039	1.0814	79.6111	98.6117	2.7894	2.6765
SLC16A9	-1.9137	1.0811	94.6966	97.8084	2.4656	2.3532
PTGFR	-1.8437	1.0806	95.9448	99.1083	2.4278	2.3159
			100.019	100.000		
LEPREL1	-1.7036	1.0806	6	0	2.7398	2.6280
BOC	-2.4293	1.0804	90.6863	95.2192	3.1673	3.0558
			100.061	100.000		
ITGA6	-1.5292	1.0803	4	0	2.9999	2.8885
HILS1	-1.9858	1.0803	94.3473	96.5840	2.2040	2.0926
			100.061	100.000		
SOX8	-0.9416	1.0802	4	0	2.8244	2.7131
			100.061	100.000		
HRASLS	-1.3369	1.0802	4	0	2.8362	2.7250
			100.000			
EXO1	-1.7730	1.0800	98.6754	0	2.8525	2.7415
HSD11B1	-1.8796	1.0797	94.6966	98.4336	2.6289	2.5183
MRAP	-1.9005	1.0797	94.6966	98.0470	2.2318	2.1212
PHTF1	-1.9281	1.0796	94.6966	97.5507	2.5688	2.4583
			100.061	100.000		
EPHA4	-1.5077	1.0796	4	0	2.7111	2.6006
RPL39L	-2.3396	1.0793	90.9232	94.5212	2.9050	2.7949
MBOAT1	-1.8924	1.0793	94.6966	98.1966	3.1146	3.0045
			100.061	100.000		
GPC3	-1.3678	1.0791	4	0	2.6410	2.5312
			100.061	100.000		
CCL18	-1.2559	1.0791	4	0	3.1500	3.0402
TAF4B	-2.1117	1.0791	90.9232	94.9772	2.9749	2.8651
			100.061	100.000		
PCK1	-1.3958	1.0790	4	0	1.9465	1.8367
ACTN2	-1.8220	1.0789	98.1777	99.5182	2.4422	2.3327

			100.061	100.000		
LILRB2	-1.2907	1.0788	4	0	2.4031	2.2937
NOD2	-2.1533	1.0786	90.9232	94.6414	2.7884	2.6793
				100.000		
PITX1	-1.7130	1.0783	99.9648	0	2.8402	2.7314
			100.061	100.000		
TIMP4	-1.1925	1.0783	4	0	2.3789	2.2702
			100.061	100.000		
GPR64	-0.9700	1.0783	4	0	2.4630	2.3543
			100.061	100.000		
PCDHB3	-0.9765	1.0781	4	0	2.0001	1.8916
			100.061	100.000		
ELF5	-1.0857	1.0780	4	0	3.2791	3.1708
			100.061	100.000		
TGFBR3	-1.5422	1.0779	4	0	3.0164	2.9082
NMB	-2.7821	1.0778	79.6111	98.4875	3.0673	2.9592
SLC38A5	-1.9626	1.0778	94.6966	96.9583	2.6061	2.4981
				100.000		
PBK	-1.7624	1.0776	98.6754	0	3.1091	3.0013
C1GALT1	-2.2145	1.0775	90.9232	94.3481	3.0115	2.9038
			100.061	100.000		
KLK11	-1.4326	1.0773	4	0	2.7249	2.6175
DCLRE1B	-2.8822	1.0772	79.6111	98.6392	2.9109	2.8035
			100.019	100.000		
42066.0000	-1.6988	1.0772	6	0	2.7752	2.6679
ITGA4	-1.8413	1.0772	95.9448	99.1532	1.9682	1.8610
CIDEC	-2.1607	1.0770	90.9232	94.5935	2.6475	2.5404
LOC100505710	-1.9154	1.0769	94.6966	97.7774	2.5749	2.4681
			100.019	100.000		
IGFBP5	-1.6735	1.0766	6	0	2.9879	2.8814
GPR63	-2.1249	1.0765	90.9232	94.8596	2.0498	1.9434
			100.061	100.000		
SCGB3A2	-1.0922	1.0762	4	0	1.9906	1.8846
			100.061	100.000		
WFDC1	-1.4379	1.0762	4	0	2.6407	2.5347
				100.000		
USP45	-1.7348	1.0761	99.9648	0	2.0698	1.9640
			100.061	100.000		
SOSTDC1	-0.8790	1.0761	4	0	2.8461	2.7403
GOLM1	-2.9705	1.0760	79.6111	98.4081	3.1793	3.0737
DGAT2	-2.3340	1.0759	90.9232	94.4913	3.0361	2.9306
			100.061	100.000		
LAG3	-1.4076	1.0759	4	0	2.6723	2.5668
			100.061	100.000		
PEG10	-0.9952	1.0758	4	0	3.1847	3.0793
			100.061	100.000		
NLRP7	-1.5673	1.0757	4	0	2.1453	2.0400
			100.061	100.000		
HAS3	-1.5211	1.0755	4	0	2.4377	2.3326
			100.061	100.000		
SQLE	-1.3156	1.0755	4	0	2.3473	2.2423
			100.061	100.000		
EGFL6	-1.3172	1.0753	4	0	3.0564	2.9517
TWSG1	-1.8472	1.0753	95.9448	99.0416	2.5741	2.4694
NR2C2	-2.6960	1.0751	90.6863	98.0009	2.2594	2.1550
			100.061	100.000		
SMPDL3B	-1.4541	1.0751	4	0	2.4169	2.3125
			100.061	100.000		
KIF1A	-1.0193	1.0750	4	0	2.5317	2.4273
			100.061	100.000		
GPR27	-1.2094	1.0746	4	0	2.9229	2.8192
PRKX	-1.8848	1.0745	94.6966	98.3382	3.0103	2.9066
			100.019	100.000		
CHML	-1.6640	1.0745	6	0	2.8037	2.7001
CD58	-2.3383	1.0745	90.9232	94.5143	2.9852	2.8816
			100.019	100.000		
WDR37	-1.6882	1.0743	6	0	2.2478	2.1443
TIGD1	-2.3931	1.0743	90.6863	94.8925	2.7528	2.6494
PREP	-1.8601	1.0743	94.6966	98.7984	2.4855	2.3821
SRSF12	-2.4255	1.0741	90.6863	95.1827	2.3639	2.2608
				100.000		
TAF13	-1.7312	1.0740	99.9648	0	2.5066	2.4036



			100.061	100.000		
TMEM35	-1.4152	1.0738	4	0	2.1466	2.0439
TRAF3IP3	-1.8662	1.0738	94.6966	98.6845	3.0107	2.9080
			100.061	100.000		
THNSL1	-1.2375	1.0737	4	0	2.4830	2.3804
CD209	-2.3045	1.0736	90.9232	94.3669	2.6443	2.5418
			100.061	100.000		
KLK6	-0.9799	1.0733	4	0	2.8858	2.7836
			100.061	100.000		
UTS2	-1.5267	1.0733	4	0	1.7906	1.6885
			100.061	100.000		
CA8	-1.0435	1.0732	4	0	2.5317	2.4297
			100.061	100.000		
FAM169A	-1.5797	1.0729	4	0	2.7405	2.6389
IL1B	-2.2482	1.0729	90.9232	94.2913	2.7722	2.6708
ASPM	-1.9030	1.0726	94.6966	98.0018	3.1828	3.0816
			100.000			
DLGAP5	-1.7546	1.0726	98.6754	0	3.0240	2.9228
			100.061	100.000		
ACTG2	-0.9819	1.0726	4	0	3.1049	3.0037
			100.061	100.000		
CCNA2	-1.4491	1.0725	4	0	2.7969	2.6958
TICRR	-2.2398	1.0725	90.9232	94.2983	2.7002	2.5992
			100.061	100.000		
TF	-0.9076	1.0722	4	0	2.8660	2.7654
MT1E	-2.5212	1.0722	90.6863	96.2237	3.4664	3.3658
			100.000			
SGOL1	-1.7592	1.0722	98.6754	0	2.2929	2.1924
			100.000			
PDE4B	-1.7701	1.0721	98.6754	0	3.0987	2.9983
			100.061	100.000		
TRIM58	-1.1919	1.0720	4	0	1.9357	1.8354
			100.000			
ARC	-1.7211	1.0720	99.9648	0	2.1133	2.0130
			100.061	100.000		
GNAS	-1.2670	1.0719	4	0	2.8155	2.7153
			100.061	100.000		
WNT4	-1.4591	1.0719	4	0	2.4431	2.3429
CMTM7	-2.6312	1.0718	90.6863	97.4356	3.1764	3.0763
			100.000			
SEL1L3	-1.7409	1.0718	99.9648	0	2.8491	2.7490
ECE2	-2.1107	1.0716	90.9232	94.9873	2.8793	2.7795
			100.000			
STAC	-1.7796	1.0716	98.6754	0	2.7899	2.6901
			100.019	100.000		
USP31	-1.6728	1.0714	6	0	2.6156	2.5161
			100.061	100.000		
CCL20	-1.0424	1.0709	4	0	2.7262	2.6274
			100.000			
PFKP	-1.7813	1.0709	98.6754	0	3.2892	3.1904
RNASE2	-2.0236	1.0708	94.3473	96.0188	2.3978	2.2991
			100.061	100.000		
FABP4	-0.8187	1.0707	4	0	3.2537	3.1551
			100.019	100.000		
COL13A1	-1.6520	1.0706	6	0	2.6937	2.5952
			100.019	100.000		
FOXM1	-1.6700	1.0706	6	0	3.0771	2.9788
			100.061	100.000		
EDN3	-0.8802	1.0705	4	0	2.2134	2.1151
			100.061	100.000		
NKG7	-1.1730	1.0704	4	0	2.7948	2.6967
			100.000			
CCDC18	-1.7470	1.0703	99.9648	0	2.3041	2.2061
SMAD6	-2.1262	1.0703	90.9232	94.8485	2.7493	2.6513
PHF19	-1.8869	1.0703	94.6966	98.2976	2.9760	2.8780
CCDC102A	-2.8454	1.0701	79.6111	98.6371	2.6618	2.5640
			100.061	100.000		
TFR2	-1.4359	1.0700	4	0	2.4288	2.3312
			100.061	100.000		
FAXC	-1.3958	1.0699	4	0	2.7343	2.6368
			100.061	100.000		
SPINK1	-1.4170	1.0698	4	0	2.0705	1.9732
PALMD	-1.5302	1.0697	100.061	100.000	2.9528	2.8557

			4	0		
CCL2	-2.0274	1.0696	94.3473	95.9658	3.2638	3.1668
			100.061	100.000		
TREM1	-1.1937	1.0696	4	0	2.5001	2.4030
			100.061	100.000		
FGFR2	-0.9851	1.0696	4	0	2.7137	2.6166
DDX26B	-1.9417	1.0695	94.6966	97.3130	2.6048	2.5079
			100.061	100.000		
GZMB	-1.0192	1.0694	4	0	2.9083	2.8115
			100.061	100.000		
XK	-0.9091	1.0693	4	0	2.4841	2.3873
LRFN4	-2.5421	1.0693	90.6863	96.4649	2.8907	2.7940
FCGR2A	-2.2177	1.0692	90.9232	94.3394	2.9408	2.8442
ATP11B	-1.9190	1.0690	94.6966	97.7132	2.6166	2.5203
C20orf112	-2.2083	1.0690	90.9232	94.3667	2.9958	2.8996
LRRRC8C	-2.0743	1.0690	90.9232	95.3686	2.9414	2.8452
			100.061	100.000		
GZMH	-1.0468	1.0690	4	0	2.5787	2.4825
TCFL5	-1.9007	1.0689	94.6966	98.0437	2.6574	2.5612
			100.061	100.000		
CDCA2	-1.4110	1.0689	4	0	2.9466	2.8505
FABP5	-2.3074	1.0689	90.9232	94.3766	3.5036	3.4074
RCAN1	-2.2766	1.0689	90.9232	94.3025	3.3507	3.2546
TAMM41	-2.3960	1.0689	90.6863	94.9167	2.6422	2.5461
LILRB5	-1.8985	1.0688	94.6966	98.0840	2.2020	2.1060
			100.061	100.000		
FAM26F	-1.2661	1.0688	4	0	2.9198	2.8239
TRIP6	-2.5771	1.0687	90.6863	96.8622	3.2023	3.1065
			100.000			
NRG2	-1.7307	1.0686	99.9648	0	2.3735	2.2778
			100.061	100.000		
SELE	-1.0463	1.0686	4	0	2.5312	2.4356
			100.061	100.000		
F5	-1.4162	1.0685	4	0	2.5935	2.4979
			100.061	100.000		
MAGEA4	-0.8164	1.0684	4	0	1.8758	1.7803
			100.061	100.000		
TNFRSF11A	-1.3063	1.0684	4	0	2.8712	2.7758
			100.061	100.000		
PLIN1	-1.1043	1.0684	4	0	2.8559	2.7605
WWTR1	-1.9712	1.0683	94.3473	96.8180	2.8990	2.8037
STIL	-2.1935	1.0683	90.9232	94.4213	3.0502	2.9548
ARHGEF10	-1.9178	1.0682	94.6966	97.7344	2.4860	2.3908
			100.061	100.000		
FOXP1	-0.7368	1.0682	4	0	2.0296	1.9344
L3HYPDH	-2.0948	1.0682	90.9232	95.1444	2.6085	2.5133
CD163	-2.1424	1.0681	90.9232	94.7192	3.3048	3.2097
			100.000			
PTGS1	-1.7697	1.0681	98.6754	0	2.7829	2.6879
			100.019	100.000		
DLX6-AS1	-1.6454	1.0680	6	0	2.0478	1.9529
ATXN7L1	-1.9514	1.0678	94.6966	97.1465	2.1102	2.0155
FANCB	-1.9552	1.0678	94.6966	97.0818	2.0621	1.9674
			100.061	100.000		
IGDCC4	-1.3817	1.0678	4	0	2.6919	2.5973
			100.061	100.000		
B3GNT7	-1.1196	1.0677	4	0	2.5210	2.4266
			100.061	100.000		
RNFT2	-1.3973	1.0676	4	0	2.7930	2.6987
FPR1	-2.1256	1.0675	90.9232	94.8537	2.9659	2.8717
			100.019	100.000		
NUF2	-1.6069	1.0675	6	0	3.1269	3.0328
			100.061	100.000		
TMEM108	-1.1863	1.0674	4	0	2.7087	2.6146
COTL1	-2.7854	1.0673	79.6111	98.4996	3.3922	3.2983
			100.061	100.000		
KCNA3	-1.4124	1.0672	4	0	2.0497	1.9559
			100.061	100.000		
FCGR3B	-1.5770	1.0671	4	0	2.6408	2.5471
SDAD1	-1.8447	1.0671	95.9448	99.0888	2.2663	2.1726

FZD6	-1.8938	1.0671	94.6966	98.1700	3.2022	3.1086
			100.019	100.000		
COL4A2	-1.6584	1.0670	6	0	3.0003	2.9067
			100.051	100.000		
WNT10A	-1.5940	1.0670	4	0	2.5268	2.4333
			100.061	100.000		
MAD2L1	-1.5634	1.0669	4	0	2.9490	2.8556
			100.061	100.000		
KIF23	-1.5319	1.0668	4	0	2.8653	2.7719
			100.061	100.000		
CDC25A	-1.3063	1.0668	4	0	2.3896	2.2964
PRNP	-2.2361	1.0668	90.9232	94.3030	2.9049	2.8117
			100.061	100.000		
INA	-1.4250	1.0667	4	0	2.4670	2.3738
			100.061	100.000		
HPDL	-1.1849	1.0667	4	0	2.4241	2.3310
			100.061	100.000		
TMEM158	-1.5142	1.0666	4	0	3.2288	3.1357
			100.061	100.000		
IQCG	-1.2610	1.0666	4	0	3.0665	2.9734
CNOT1	-2.0910	1.0666	90.9232	95.1837	2.5328	2.4398
			100.061	100.000		
EMR1	-1.4656	1.0666	4	0	2.2397	2.1467
			100.061	100.000		
HAO1	-1.2170	1.0665	4	0	2.0161	1.9232
			100.061	100.000		
SSX2IP	-1.3199	1.0665	4	0	2.3885	2.2956
			100.061	100.000		
EPHA7	-1.0219	1.0665	4	0	2.2687	2.1759
			100.019	100.000		
IL32	-1.6412	1.0665	6	0	3.0080	2.9152
			100.019	100.000		
AURKB	-1.6321	1.0664	6	0	2.7885	2.6958
			100.061	100.000		
LRP8	-1.3076	1.0663	4	0	2.9135	2.8208
KDELR3	-2.0589	1.0662	94.3473	95.5524	3.1108	3.0184
			100.061	100.000		
BCL2L14	-1.0188	1.0662	4	0	2.6709	2.5785
				100.000		
LGALSL	-1.7683	1.0660	98.6754	0	2.7467	2.6545
			100.061	100.000		
GPC4	-1.3751	1.0660	4	0	2.8992	2.8070
			100.061	100.000		
TFCP2L1	-1.1798	1.0659	4	0	2.9153	2.8232
				100.000		
NUDT21	-1.7572	1.0659	98.6754	0	2.5625	2.4704
			100.061	100.000		
PNMA2	-1.1477	1.0657	4	0	2.4191	2.3273
			100.061	100.000		
PCDH20	-1.0258	1.0657	4	0	1.8513	1.7595
			100.061	100.000		
APCDD1L-AS1	-1.1778	1.0656	4	0	1.8384	1.7467
			100.061	100.000		
CST1	-1.0051	1.0656	4	0	2.3505	2.2588
			100.061	100.000		
ERP27	-0.9414	1.0656	4	0	3.0282	2.9366
			100.061	100.000		
PCDHB5	-0.8634	1.0655	4	0	2.1041	2.0126
			100.061	100.000		
CD274	-1.0312	1.0654	4	0	2.6808	2.5894
PFKM	-2.0914	1.0654	90.9232	95.1801	3.0727	2.9813
			100.061	100.000		
RWDD2B	-1.3915	1.0653	4	0	2.1704	2.0791
			100.061	100.000		
MCTP1	-1.2545	1.0653	4	0	2.6958	2.6045
CBX3	-1.8316	1.0653	95.9448	99.3374	2.8038	2.7125
				100.000		
ADAMTS1	-1.7606	1.0653	98.6754	0	3.0511	2.9599
PROM1	-2.0001	1.0652	94.3473	96.3628	3.5172	3.4260
TNC	-1.9140	1.0651	94.6966	97.8033	3.3203	3.2293
			100.061	100.000		
CLEC4A	-1.4287	1.0650	4	0	2.7435	2.6526
HJURP	-1.8855	1.0650	94.6966	98.3242	2.9299	2.8390

EMC3	-2.0590	1.0650	94.3473	95.5506	2.2576	2.1667
				100.000		
NFE2L3	-1.7348	1.0650	99.9648	0	3.0594	2.9686
KIF20A	-1.9711	1.0649	94.3473	96.8186	3.0097	2.9189
			100.061	100.000		
C1S	-1.3109	1.0649	4	0	2.7082	2.6174
			100.061	100.000		
CCL7	-0.9275	1.0649	4	0	2.3256	2.2348
			100.019	100.000		
EVA1A	-1.6606	1.0649	6	0	2.8303	2.7397
			100.061	100.000		
TNFRSF9	-1.4930	1.0648	4	0	2.5001	2.4096
			100.061	100.000		
EREG	-1.3050	1.0647	4	0	1.8091	1.7187
FANCA	-2.0272	1.0647	94.3473	95.9691	2.6829	2.5924
			100.061	100.000		
AFAP1-AS1	-1.0144	1.0646	4	0	2.6208	2.5305
			100.019	100.000		
CTSC	-1.6249	1.0645	6	0	3.1649	3.0747
			100.061	100.000		
PKP1	-1.1179	1.0644	4	0	2.9610	2.8709
			100.061	100.000		
CHRNA5	-1.1507	1.0644	4	0	2.3981	2.3081
			100.019	100.000		
SLC19A3	-1.6881	1.0644	6	0	2.0825	1.9924
			100.061	100.000		
DNM3	-1.1506	1.0643	4	0	2.4773	2.3875
			100.061	100.000		
PCP4	-0.9681	1.0642	4	0	2.3459	2.2562
TRIM47	-2.1392	1.0641	90.9232	94.7433	3.0923	3.0026
			100.019	100.000		
NFATC1	-1.6477	1.0641	6	0	2.9167	2.8271
			100.061	100.000		
CKB	-1.4716	1.0640	4	0	2.9810	2.8915
SH2D2A	-1.9472	1.0640	94.6966	97.2185	2.6421	2.5527
CDC20	-1.8762	1.0639	94.6966	98.4969	3.2950	3.2057
			100.061	100.000		
EMR2	-1.5248	1.0637	4	0	2.6469	2.5577
			100.061	100.000		
AMMECR1	-1.3377	1.0637	4	0	2.9443	2.8552
			100.061	100.000		
CCDC88A	-1.3356	1.0637	4	0	2.9896	2.9005
ADAT2	-1.9248	1.0636	94.6966	97.6085	2.4636	2.3746
			100.061	100.000		
ANGPT1	-1.1876	1.0636	4	0	2.6381	2.5491
			100.061	100.000		
CPNE8	-1.4182	1.0636	4	0	2.6942	2.6053
			100.061	100.000		
SKIDA1	-1.5853	1.0635	4	0	1.9661	1.8773
			100.061	100.000		
TRIM33	-1.5013	1.0633	4	0	2.0415	1.9530
			100.061	100.000		
HLA-DQB1	-0.4988	1.0633	4	0	2.8341	2.7456
TSEN2	-2.8461	1.0632	79.6111	98.6378	2.8364	2.7479
				100.000		
FUT4	-1.7735	1.0632	98.6754	0	2.8064	2.7180
SERPINE2	-1.8563	1.0632	94.6966	98.8715	3.4030	3.3146
			100.019	100.000		
ATL2	-1.6368	1.0632	6	0	2.4917	2.4033
			100.061	100.000		
RAC3	-1.5317	1.0632	4	0	2.9349	2.8465
			100.061	100.000		
LINC01094	-1.3284	1.0631	4	0	2.6083	2.5201
			100.019	100.000		
NPR2	-1.6748	1.0630	6	0	2.3939	2.3058
			100.061	100.000		
RBL1	-1.5676	1.0630	4	0	2.8083	2.7202
			100.061	100.000		
FCRL5	-0.9246	1.0630	4	0	2.3692	2.2811
KIRREL	-1.8003	1.0629	98.6754	99.9244	2.8809	2.7929
			100.019	100.000		
ARTN	-1.6332	1.0628	6	0	2.3240	2.2361

\*Ordered by fold change  
†Only genes in the top 500 ranked by fold change are shown

## Supplementary Table S4: Sheet 1

### Genomic Instability-related Signatures

BRCA1 DNA Damage

Ingenuity. Available from: [www.ingenuity.com](http://www.ingenuity.com)

Mitotic Chromosomal Instability

Cheng W-Y, Ou Yang T-H, Anastassiou D. Development of a prognostic model for breast cancer survival in an open challenge environment. *Science translational medicine*. 2013;5:181ra50.

G2 DNA Damage Checkpoint

Ingenuity. Available from: [www.ingenuity.com](http://www.ingenuity.com)

Genomic Instability

Habermann JK, Doering J, Hautaniemi S, Roblick UJ, Bündgen NK, Nicorici D, et al. The gene expression signature of genomic instability in breast cancer is an independent predictor of clinical outcome. *International journal of cancer Journal international du cancer*. 2009;124:1552-64.

Chromosomal Instability

Carter SL, Eklund AC, Kohane IS, Harris LN, Szallasi Z. A signature of chromosomal instability inferred from gene expression profiles predicts clinical outcome in multiple human cancers. *Nature genetics*. 2006;38:1043-8.

Homologous Recombination

Kanehisa M, Goto S, Sato Y, Kawashima M, Furumichi M, Tanabe M. Data, information, knowledge and principle: back to metabolism in KEGG. *Nucleic Acids Res*. 2014; 42: D199-205

Non-homologous End-joining

Ingenuity. Available from: [www.ingenuity.com](http://www.ingenuity.com)

MYC activation

Chandriani S, Frengen E, Cowling VH, Pendergrass SA, Perou CM, et al. (2009) A Core MYC Gene Expression Signature Is Prominent in Basal-Like Breast Cancer but Only Partially Overlaps the Core Serum Response. *PLoS ONE* 4(8): e6693.  
Coutant C, Rouzier R, Qi Y, Lehmann-Che J, Bianchini G, Iwamoto T, et al. Distinct p53 gene signatures are needed to predict prognosis and response to chemotherapy in ER-positive and ER-negative breast cancers. *Clin Cancer Res* 2011;17:2591-601.

TP53 mutation (ER negative breast cancers)

Ertel A, Dean JL, Rui H, Liu C, Witkiewicz AK, Knudsen KE, Knudsen ES: RB-pathway disruption in breast cancer: differential association with disease subtypes, disease-specific prognosis and therapeutic response. *Cell Cycle* 2010, 9:4153-4163

RB loss

Loi S, Haibe-Kains B, Majaj S, Lallemand F, Durbecq V, Larsimont D, Gonzalez-Angulo AM, Pusztai L, Symmans WF, Bardelli A, Ellis P, Tutt AN, Gillett CE, Hennessy BT, Mills GB, Phillips WA, Piccart MJ, Speed TP, McArthur GA, Sotiriou C: PIK3CA mutations associated with gene signature of low mTORC1 signaling and better outcomes in estrogen receptor-positive breast cancer.

PIK3CA mutation

Supplementary Table S4: Sheet 2  
**Genomic Instability-related Signatures**

**BRCA1 DNA Damage**

Ingenuity. Available from: [www.ingenuity.com](http://www.ingenuity.com)

symbol	ensg
ATF1	ENSG00000123268
ATM	ENSG00000149311
ATR	ENSG00000175054
BARD1	ENSG00000138376
BLM	ENSG00000197299
BRCA1	ENSG00000012048
BARD1	ENSG00000138376
BRCA2	ENSG00000139618
BRIP1	ENSG00000136492
CDKN1A	ENSG00000124762
CHEK1	ENSG00000149554
CHEK2	ENSG00000183765
FANCA	ENSG00000187741
FANCC	ENSG00000158169
FANCD2	ENSG00000144554
FANCE	ENSG00000112039
FANCF	ENSG00000183161
FANCG	ENSG00000165280
GADD45A	ENSG00000116717
MLH1	ENSG00000076242
MSH2	ENSG00000095002
MSH6	ENSG00000116062
NBN	ENSG00000104320
PLK1	ENSG00000166851
POU2F1	ENSG00000143190
RAD50	ENSG00000113522
RAD51	ENSG00000051180
RBBP8	ENSG00000101773
STAT1	ENSG00000115415
TP53	ENSG00000141510

**Mitotic Chromosomal Instability**

Cheng W-Y, Ou Yang T-H, Anastassiou D. Development of a prognostic model for breast cancer survival in an open challenge environment. *Science translational medicine*. 2013;5:181ra50.

symbol	ensg
CENPA	ENSG00000115163
DLGAP5	ENSG00000126787
MELK	ENSG00000165304
KIF2C	ENSG00000142945
BUB1	ENSG00000169679
KIF4A	ENSG00000090889

CCNB2	ENSG00000157456
KIF20A	ENSG00000112984
NCAPG	ENSG00000109805
CCNA2	ENSG00000145386

### **G2 DNA Damage Checkpoint**

symbol	ensg
ATM	ENSG00000149311
ATR	ENSG00000175054
BRCA1	ENSG0000012048
BTRC	ENSG00000166167
CCNB1	ENSG00000134057
CCNB2	ENSG00000157456
CDC25B	ENSG00000101224
CDC25C	ENSG00000158402
CDK7	ENSG00000134058
CDKN1A	ENSG00000124762
CDKN2A	ENSG00000147889
CHEK1	ENSG00000149554
CHEK2	ENSG00000183765
CUL1	ENSG00000055130
EP300	ENSG00000100393
GADD45A	ENSG00000116717
MDM2	ENSG00000135679
MYT1	ENSG00000196132
PLK1	ENSG00000166851
PRKDC	ENSG00000121031
RPRM	ENSG00000177519
RPS6KA1	ENSG00000117676
SFN	ENSG00000175793
TOP2B	ENSG00000077097
TP53	ENSG00000141510
WEE1	ENSG00000166483
YWHAB	ENSG00000166913
YWHAE	ENSG00000108953
YWHAZ	ENSG00000164924

Ingenuity. Available from: [www.ingenuity.com](http://www.ingenuity.com)

### **Genomic Instability**

Habermann JK, Doering J, Hautaniemi S, Roblick UJ, Bündgen NK, Nicorici D, et al. The gene expression signature of genomic instability in breast cancer is an independent predictor of clinical outcome. *International journal of cancer Journal international du cancer*. 2009;124:1552-64.

symbol	ensg
RERG	ENSG00000134533
TBC1D9	ENSG00000109436



FOXA1	ENSG00000129514
NXF1	ENSG00000162231
MYB	ENSG00000118513
CCL18	ENSG00000006074
CDKN2A	ENSG00000147889
AURKA	ENSG00000087586
PSMD10	ENSG00000101843

### Chromosomal Instability

Carter SL, Eklund AC, Kohane IS, Harris LN, Szallasi Z. A signature of chromosomal instability inferred from gene expression profiles predicts clinical outcome in multiple human cancers. *Nature genetics*. 2006;38:1043-8.

symbol	ensg
TPX2	ENSG00000088325
PRC1	ENSG00000198901
FOXM1	ENSG00000111206
CDC2	ENSG00000170312
TGIF2	ENSG00000118707
MCM2	ENSG00000073111
H2AFZ	ENSG00000164032
PCNA	ENSG00000132646
UBE2C	ENSG00000175063
MELK	ENSG00000165304
TRIP13	ENSG00000071539
MCM7	ENSG00000166508
RNASEH2A	ENSG00000104889
RAD51AP1	ENSG00000111247
KIF20A	ENSG00000112984
CDC45L	ENSG00000093009
MAD2L1	ENSG00000164109
ESPL1	ENSG00000135476
CCNB2	ENSG00000157456
FEN1	ENSG00000168496
TTK	ENSG00000112742
CCT5	ENSG00000150753
RFC4	ENSG00000163918
ATAD2	ENSG00000156802
NUP205	ENSG00000155561
CDC20	ENSG00000117399
CKS2	ENSG00000123975
RRM2	ENSG00000171848
ELAVL1	ENSG00000066044
CCNB1	ENSG00000134057
RRM1	ENSG00000167325
AURKB	ENSG00000178999
MSH6	ENSG00000116062

EZH2	ENSG00000106462
CTPS	ENSG00000171793
DKC1	ENSG00000130826
OIP5	ENSG00000104147
CEP55	ENSG00000138180
H2AFX	ENSG00000188486
CMAS	ENSG00000111726
MCM10	ENSG00000065328
LSM4	ENSG00000130520
ASF1B	ENSG00000105011
ZWINT	ENSG00000122952
CDCA3	ENSG00000111665
ECT2	ENSG00000114346
CDC6	ENSG00000094804
UNG	ENSG00000076248
MTCH2	ENSG00000109919
RAD21	ENSG00000164754
ACTL6A	ENSG00000136518
SFRS2	ENSG00000161547
HDGF	ENSG00000143321
NXT1	ENSG00000132661
NEK2	ENSG00000117650
DHCR7	ENSG00000172893
AURKA	ENSG00000087586
NDUFAB1	ENSG00000004779
KIF4A	ENSG00000090889

## Homologous Recombination

Kanehisa M, Goto S, Sato Y, Kawashima M, Furumichi M, Tanabe M. Data, information, knowledge and principle: back to metabolism in KEGG. *Nucleic Acids Res.* 2014; 42: D199-205

symbol	ensg
BRCA2	ENSG00000139618
EME1	ENSG00000154920
MRE11A	ENSG00000020922
MUS81	ENSG00000172732
NBN	ENSG00000104320
POLD1	ENSG00000062822
POLD2	ENSG00000106628
POLD3	ENSG00000077514
POLD4	ENSG00000175482
RAD50	ENSG00000113522
RAD51	ENSG00000051180
RAD51B	ENSG00000182185
RAD51C	ENSG00000108384
RAD51D	ENSG00000185379
RAD52	ENSG00000002016

RAD54B	ENSG00000197275
RAD54L	ENSG00000085999
RPA1	ENSG00000132383
RPA2	ENSG00000117748
RPA3	ENSG00000106399
RPA4	ENSG00000204086
SHFM1	ENSG00000127922
SSBP1	ENSG00000106028
SSBP1	ENSG00000262771
TOP3A	ENSG00000177302
TOP3B	ENSG00000100038
XRCC2	ENSG00000196584
XRCC3	ENSG00000126215

**Non-homologous End-joining**

symbol	ensg
DNTT	ENSG00000107447
FEN1	ENSG00000168496
LIG4	ENSG00000174405
MRE11A	ENSG00000020922
NHEJ1	ENSG00000187736
POLL	ENSG00000166169
POLM	ENSG00000122678
PRKDC	ENSG00000253729
RAD50	ENSG00000113522
XRCC4	ENSG00000152422
XRCC5	ENSG00000079246
XRCC6	ENSG00000196419

Ingenuity. Available from: [www.ingenuity.com](http://www.ingenuity.com)

**MYC activation**

symbol	ensg
LSM2	ENSG00000204392
SNRPF	ENSG00000139343
GNB1L	ENSG00000185838
KLHL8	ENSG00000145332
CSRP1	ENSG00000159176
RAN	ENSG00000132341
SH3BGRL3	ENSG00000142669
ESRRA	ENSG00000173153
GLS	ENSG00000115419
CDH11	ENSG00000140937
DUSP2	ENSG00000158050
H2AFZ	ENSG00000164032

Chandriani S, Frengen E, Cowling VH, Pendergrass SA, Perou CM, et al. (2009) A Core MYC Gene Expression Signature Is Prominent in Basal-Like Breast Cancer but Only Partially Overlaps the Core Serum Response. PLoS ONE 4(8): e6693.

HSPE1	ENSG00000115541
ASPM	ENSG00000066279
RAB3B	ENSG00000169213
CCT8	ENSG00000156261
LPAR1	ENSG00000198121
HYAL3	ENSG00000186792
ESM1	ENSG00000164283
BNIP3L	ENSG00000104765
B4GALT4	ENSG00000121578
CAP2	ENSG00000112186
ITGA6	ENSG00000091409
TPM1	ENSG00000140416
TNC	ENSG00000041982
MMP11	ENSG00000099953
MMP11	ENSG00000275365
COQ2	ENSG00000173085
RPUSD4	ENSG00000165526
PALLD	ENSG00000129116
EIF2S1	ENSG00000134001
S1PR1	ENSG00000170989
TOP2A	ENSG00000131747
OLA1	ENSG00000138430
LFNG	ENSG00000106003
CCT5	ENSG00000150753
HPDL	ENSG00000186603
ADORA2B	ENSG00000170425
TTK	ENSG00000112742
DUSP1	ENSG00000120129
PARP1	ENSG00000143799
NUP35	ENSG00000163002
HSPA9	ENSG00000113013
MATN2	ENSG00000132561
MRPS26	ENSG00000125901
ELL2	ENSG00000118985
CD248	ENSG00000174807
MRPL42	ENSG00000198015
NTN4	ENSG00000074527
BASP1	ENSG00000176788
DCBLD2	ENSG00000057019
FEZ1	ENSG00000149557
TMEM63C	ENSG00000165548
CRLS1	ENSG00000088766
DNAJC19	ENSG00000205981
TBRG4	ENSG00000136270
SLCO4A1	ENSG00000101187
GPSM1	ENSG00000160360
HIST1H4I	ENSG00000276180
HES1	ENSG00000114315
SEMA3A	ENSG00000075213

PRSS23	ENSG00000150687
CNOT8	ENSG00000155508
FSTL1	ENSG00000163430
NOB1	ENSG00000141101
RUVBL1	ENSG00000175792
IGFBP6	ENSG00000167779
RSL24D1	ENSG00000137876
CD59	ENSG00000085063
GAL	ENSG00000069482
RPS24	ENSG00000138326
OXTR	ENSG00000180914
RPS4Y1	ENSG00000129824
RPS4Y1	ENSG00000279950
POLR3G	ENSG00000113356
MRPL47	ENSG00000136522
MRPL50	ENSG00000136897
CYC1	ENSG00000179091
DKK3	ENSG00000050165
C12orf45	ENSG00000151131
KRT34	ENSG00000131737
FBL	ENSG00000105202
RPL39	ENSG00000198918
SEH1L	ENSG00000085415
RNF138	ENSG00000134758
PPP1R3C	ENSG00000119938
CCL2	ENSG00000108691
WNT5B	ENSG00000111186
MAGEF1	ENSG00000177383
APBB1IP	ENSG00000077420
WDR18	ENSG00000065268
EGR1	ENSG00000120738
PDS5A	ENSG00000121892
OPTN	ENSG00000123240
SNRPE	ENSG00000182004
STIP1	ENSG00000168439
EBNA1BP2	ENSG00000117395
TRIT1	ENSG00000043514
RBM8A	ENSG00000265241
TCP1	ENSG00000120438
U2AF1	ENSG00000275895
U2AF1	ENSG00000160201
PDCD2	ENSG00000071994
DPP4	ENSG00000197635
SP100	ENSG00000067066
WSCD1	ENSG00000179314
TBC1D2	ENSG00000095383
BLMH	ENSG00000108578
SLC22A17	ENSG00000092096
KLF12	ENSG00000118922

MMP3	ENSG00000149968
NOP56	ENSG00000101361
MYADM	ENSG00000179820
CBX3	ENSG00000122565
SERPING1	ENSG00000149131
PPT1	ENSG00000131238
PABPC1	ENSG00000070756
AHCY	ENSG00000101444
TSR1	ENSG00000167721
PLK2	ENSG00000145632
GREM1	ENSG00000276886
GREM1	ENSG00000166923
RSL1D1	ENSG00000171490
DKK1	ENSG00000107984
FABP5	ENSG00000164687
COPZ2	ENSG00000005243
SULF1	ENSG00000137573
TAGLN	ENSG00000149591
R3HDM1	ENSG00000048991
RGS16	ENSG00000143333
SERPINE1	ENSG00000106366
RPL23A	ENSG00000198242
TPST1	ENSG00000169902
COX7A1	ENSG00000161281
LSM5	ENSG00000106355
RPL29	ENSG00000162244
CCDC86	ENSG00000110104
HES6	ENSG00000144485
COX7C	ENSG00000127184
CLNS1A	ENSG00000074201
G0S2	ENSG00000123689
POLR2H	ENSG00000163882
LARS	ENSG00000133706
EBPL	ENSG00000123179
PRKCDBP	ENSG00000170955
HMGB2	ENSG00000164104
VGLL3	ENSG00000206538
LBR	ENSG00000143815
VEGFC	ENSG00000150630
SLC5A6	ENSG00000138074
LYPLA1	ENSG00000120992
PHF10	ENSG00000130024
CYCS	ENSG00000172115
PPA1	ENSG00000180817
TFPI2	ENSG00000105825
SGCB	ENSG00000163069
DDX1	ENSG00000079785
ADM	ENSG00000148926
SRPK1	ENSG00000096063

CSTF3	ENSG00000176102
MCM6	ENSG00000076003
METAP2	ENSG00000111142
E2F5	ENSG00000133740
LDHB	ENSG00000111716
IGFBP3	ENSG00000146674
UCK2	ENSG00000143179
ISG15	ENSG00000187608
UTP14A	ENSG00000156697
ANP32A	ENSG00000140350
PTMA	ENSG00000187514
TRADD	ENSG00000102871
TOM1L2	ENSG00000175662
IGFBP4	ENSG00000141753
WIP1	ENSG00000070540
CNN1	ENSG00000130176
CLIP3	ENSG00000105270
ODC1	ENSG00000115758
TRIB2	ENSG00000071575
EPAS1	ENSG00000116016
MTHFD2	ENSG00000065911
RPIA	ENSG00000153574
RCC1	ENSG00000180198
NOP58	ENSG00000055044
UTP11L	ENSG00000183520
GART	ENSG00000262473
GART	ENSG00000159131
PSMG1	ENSG00000183527
HIRA	ENSG00000100084
CCDC80	ENSG00000091986
MCM2	ENSG00000073111
H2AFX	ENSG00000188486
IGFBP7	ENSG00000163453
HNRNPD	ENSG00000138668
DDIT4L	ENSG00000145358
NSUN2	ENSG00000037474
DAB2	ENSG00000153071
ITGA2	ENSG00000164171
MRPS27	ENSG00000113048
C5orf30	ENSG00000181751
ADAM19	ENSG00000135074
THOC3	ENSG00000051596
BZW2	ENSG00000136261
CALD1	ENSG00000122786
SSBP1	ENSG00000106028
SSBP1	ENSG00000262771
SLC39A14	ENSG00000104635
RIT1	ENSG00000143622
PFDN2	ENSG00000143256

EXT1	ENSG00000182197
PSAT1	ENSG00000135069
TEX10	ENSG00000136891
PRKCZ	ENSG00000067606
IL13RA1	ENSG00000131724
RPL7A	ENSG00000148303
BDNF	ENSG00000176697
MRPL32	ENSG00000106591
SF1	ENSG00000168066
ARRB1	ENSG00000137486
PRKRIR	ENSG00000137492
DCUN1D5	ENSG00000137692
MYL9	ENSG00000101335
FAM60A	ENSG00000139146
FAM60A	ENSG00000276371
HMGA2	ENSG00000149948
RFC5	ENSG00000111445
OLFML2B	ENSG00000162745
POLR1D	ENSG00000186184
LHFP	ENSG00000183722
SQRDL	ENSG00000137767
GRPEL2	ENSG00000164284
HLA-G	ENSG00000276051
HLA-G	ENSG00000235346
HLA-G	ENSG00000233095
HLA-G	ENSG00000204632
HLA-G	ENSG00000237216
HLA-G	ENSG00000235680
HLA-G	ENSG00000206506
HLA-G	ENSG00000230413
CYBA	ENSG00000051523
PLEKHM1	ENSG00000225190
PLEKHM1	ENSG00000277111
PLEKHM1	ENSG00000276358
SF3B3	ENSG00000189091
ATP5F1	ENSG00000116459
PDCD2L	ENSG00000126249
SNRPG	ENSG00000143977
FAM136A	ENSG00000035141
CAPG	ENSG00000042493
CHCHD4	ENSG00000163528
TBC1D14	ENSG00000132405
PAICS	ENSG00000128050
P4HA2	ENSG00000072682
TCOF1	ENSG00000070814
NEU1	ENSG00000227129
NEU1	ENSG00000228691
NEU1	ENSG00000184494
NEU1	ENSG00000234846



NEU1	ENSG00000227315
NEU1	ENSG00000223957
NEU1	ENSG00000204386
NEU1	ENSG00000234343
EIF4H	ENSG00000106682
STMN2	ENSG00000104435
CREB3	ENSG00000107175
MAGED2	ENSG00000102316
LAS1L	ENSG00000001497
CXCL12	ENSG00000107562
NOLC1	ENSG00000166197
COL11A1	ENSG00000060718
UBE2N	ENSG00000177889
ZNF664	ENSG00000179195
LRP10	ENSG00000197324
RGMB	ENSG00000174136
NIPSNAP3A	ENSG00000136783
IL6ST	ENSG00000134352
RPL5	ENSG00000122406
TYSND1	ENSG00000156521
HSPA14	ENSG00000187522
NOP2	ENSG00000111641
KRTAP1-5	ENSG00000261862
KRTAP1-5	ENSG00000221852
BOP1	ENSG00000261236
RPL10A	ENSG00000198755
RPS3	ENSG00000149273
PLAC8	ENSG00000145287
C1QBP	ENSG00000108561
NPM1	ENSG00000181163
DNAJC2	ENSG00000105821
CD320	ENSG00000167775
AK5	ENSG00000154027
PRPS1	ENSG00000147224
PRC1	ENSG00000198901
NCAPG	ENSG00000109805
LBH	ENSG00000213626
SLC25A33	ENSG00000171612
PDGFC	ENSG00000145431
TIPIN	ENSG00000075131
RHBDF1	ENSG00000007384
MRPS23	ENSG00000181610
MAP6	ENSG00000171533
CHAC2	ENSG00000143942
MRPS9	ENSG00000135972
FBN1	ENSG00000166147
TPD52L1	ENSG00000111907
MYCBP	ENSG00000214114
ASB5	ENSG00000164122

NDUFAF2	ENSG00000164182
HOMER1	ENSG00000152413
FAM64A	ENSG00000129195
ANKRD27	ENSG00000105186
SERPINB2	ENSG00000197632
HSPD1	ENSG00000144381
TOMM22	ENSG00000100216
EXOSC3	ENSG00000107371
SMAD1	ENSG00000170365
ERRFI1	ENSG00000116285
GDF15	ENSG00000130513
F3	ENSG00000117525
AGPAT5	ENSG00000155189
BAX	ENSG00000087088
ALPK2	ENSG00000198796
UBA2	ENSG00000126261
CENPH	ENSG00000153044
DCTPP1	ENSG00000179958
SLC25A5	ENSG00000005022
SSB	ENSG00000138385
MYL6	ENSG00000092841
GPN3	ENSG00000111231
ITGB1	ENSG00000150093
PPM1G	ENSG00000115241
KCTD12	ENSG00000178695
PSG11	ENSG00000243130
REPIN1	ENSG00000214022
ANGPTL2	ENSG00000136859
PSG5	ENSG00000204941
DHODH	ENSG00000102967
TUBB2A	ENSG00000137267
KRT19	ENSG00000171345
NUCB2	ENSG00000070081
RND3	ENSG00000115963
TRIAP1	ENSG00000170855
NOP16	ENSG00000048162
GAR1	ENSG00000109534
CRIM1	ENSG00000277354
CRIM1	ENSG00000150938
VDAC3	ENSG00000078668
CYB5R3	ENSG00000100243
RTN4	ENSG00000115310
SCARB1	ENSG00000073060
SARS2	ENSG00000104835
CALML4	ENSG00000129007
HSPB2	ENSG00000170276
DEFA6	ENSG00000164822
BCCIP	ENSG00000107949
SMS	ENSG00000102172

TSC22D2	ENSG00000196428
CYP1B1	ENSG00000138061
EI24	ENSG00000149547
SERBP1	ENSG00000142864
STRAP	ENSG00000023734
IFRD2	ENSG00000214706
MRPL45	ENSG00000278845
CCDC107	ENSG00000159884
WDR12	ENSG00000138442
CKAP4	ENSG00000136026
PDGFRA	ENSG00000134853
TIMM13	ENSG00000099800
SLC16A1	ENSG00000155380
SLC16A2	ENSG00000147100
MRPS22	ENSG00000175110
ALDH1A1	ENSG00000165092
CXCL1	ENSG00000163739
RGS2	ENSG00000116741
NCL	ENSG00000115053
NFIL3	ENSG00000165030
HNRNPF	ENSG00000169813
TNFRSF11B	ENSG00000164761
KIAA0101	ENSG00000166803
GPD1L	ENSG00000152642
NLE1	ENSG00000073536
DNTTIP2	ENSG00000067334
XPOT	ENSG00000184575
SORD	ENSG00000140263
CSE1L	ENSG00000124207
MAP4K1	ENSG00000104814
GK2	ENSG00000196475

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**TP53 mutation (ER negative BC)**

symbol  
AARS  
ACAT2

ensg  
ENSG00000090861  
ENSG00000120437

ACOX2	ENSG00000168306
ASF1A	ENSG00000111875
ASPM	ENSG00000066279
BUB1B	ENSG00000156970
CCNA2	ENSG00000145386
CCT6A	ENSG00000146731
CDC20	ENSG00000117399
CDC7	ENSG00000097046
CENPF	ENSG00000117724
CHEK1	ENSG00000149554
DONSON	ENSG00000159147
HEXIM1	ENSG00000186834
LRRC8B	ENSG00000197147
MED27	ENSG00000160563
MED8	ENSG00000159479
NUSAP1	ENSG00000137804
OIP5	ENSG00000104147
PSD4	ENSG00000125637
RACGAP1	ENSG00000161800
RAD54B	ENSG00000197275
RBM6	ENSG00000004534
SMC4	ENSG00000113810
SORL1	ENSG00000137642
STIL	ENSG00000123473
SYNCRIP	ENSG00000135316
YBX1	ENSG00000065978
ZRSR2	ENSG00000169249

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**RB loss**

symbol	ensg
AEBP2	ENSG00000139154
ANAPC11	ENSG00000141552
ANAPC5	ENSG00000089053
ANGPTL2	ENSG00000136859
ANLN	ENSG00000011426
ANP32B	ENSG00000136938
ARHGAP21	ENSG00000107863
ASF1B	ENSG00000105011
ATM	ENSG00000149311
BIRC5	ENSG00000089685
BRCA1	ENSG00000012048
BRCA2	ENSG00000139618
BUB1	ENSG00000169679

CASP8AP2	ENSG00000118412
CBX2	ENSG00000173894
CBX5	ENSG00000094916
CCNA2	ENSG00000145386
CCNB1	ENSG00000134057
CCNB2	ENSG00000157456
CCNF	ENSG00000162063
CD34	ENSG00000174059
CDC20	ENSG00000117399
CDC25C	ENSG00000158402
CDC6	ENSG00000094804
CDCA3	ENSG00000111665
CDCA5	ENSG00000146670
CDCA7	ENSG00000144354
CDCA8	ENSG00000134690
CDK2	ENSG00000123374
CDKN1C	ENSG00000129757
CDKN3	ENSG00000100526
CENPA	ENSG00000115163
CHAF1B	ENSG00000159259
CHEK1	ENSG00000149554
CKAP2	ENSG00000136108
CKS2	ENSG00000123975
DCK	ENSG00000156136
DDIT4	ENSG00000168209
DEK	ENSG00000124795
DNAJC9	ENSG00000213551
DNMT1	ENSG00000130816
DOK1	ENSG00000115325
DTYMK	ENSG00000168393
E2F1	ENSG00000101412
ECT2	ENSG00000114346
EGR1	ENSG00000120738
EI24	ENSG00000149547
EIF4A2	ENSG00000156976
ERCC5	ENSG00000134899
ETV4	ENSG00000175832
EZH2	ENSG00000106462
FBLN1	ENSG00000077942
FEN1	ENSG00000168496
FEZ1	ENSG00000149557
FOXM1	ENSG00000111206
GMNN	ENSG00000112312
GTSE1	ENSG00000075218
H2AFZ	ENSG00000164032
HAT1	ENSG00000128708
HELB	ENSG00000127311
HIP1R	ENSG00000130787
HMGA2	ENSG00000149948

HMGB2	ENSG00000164104
HMGB3	ENSG00000029993
HMGN1	ENSG00000205581
HMGN2	ENSG00000198830
INCENP	ENSG00000149503
KIF11	ENSG00000138160
KIF1C	ENSG00000129250
KIF20A	ENSG00000112984
KIF22	ENSG00000079616
KIF23	ENSG00000137807
KIF2C	ENSG00000142945
KLF4	ENSG00000136826
KPNA2	ENSG00000182481
LBR	ENSG00000143815
LIG1	ENSG00000105486
MAD2L1	ENSG00000164109
MCM2	ENSG00000073111
MCM3	ENSG00000112118
MCM4	ENSG00000104738
MCM5	ENSG00000100297
MCM7	ENSG00000166508
MDM2	ENSG00000135679
MKI67	ENSG00000148773
MRE11A	ENSG00000020922
MSH2	ENSG00000095002
MTCP1	ENSG00000214827
NAP1L1	ENSG00000187109
NASP	ENSG00000132780
NEK2	ENSG00000117650
NUSAP1	ENSG00000137804
PCNA	ENSG00000132646
PDCD6IP	ENSG00000170248
PDGFRA	ENSG00000134853
PERP	ENSG00000112378
PHC1	ENSG00000111752
PHF13	ENSG00000116273
PLK1	ENSG00000166851
PLK4	ENSG00000142731
PLTP	ENSG00000100979
PML	ENSG00000140464
POLD1	ENSG00000062822
PRC1	ENSG00000198901
PRDX4	ENSG00000123131
PRIM1	ENSG00000198056
PSIP1	ENSG00000164985
RACGAP1	ENSG00000161800
RAD21	ENSG00000164754
RAD51	ENSG00000051180
RAD51AP1	ENSG00000111247

RBBP4	ENSG00000162521
RBL1	ENSG00000080839
REV3L	ENSG00000009413
RFC2	ENSG00000049541
RFC5	ENSG00000111445
RPA1	ENSG00000132383
RRM1	ENSG00000167325
RRM2	ENSG00000171848
SLBP	ENSG00000163950
SLK	ENSG00000065613
STMN1	ENSG00000117632
TACC3	ENSG00000013810
TARDBP	ENSG00000120948
TCF19	ENSG00000224379
TCF19	ENSG00000234674
TCF19	ENSG00000206455
TCF19	ENSG00000137310
TCF19	ENSG00000224472
TCF19	ENSG00000224941
TCF19	ENSG00000233890
TFDP1	ENSG00000198176
TK1	ENSG00000167900
TMPO	ENSG00000120802
TOP2A	ENSG00000131747
TOPBP1	ENSG00000163781
TRIP13	ENSG00000071539
TTK	ENSG00000112742
TUBGCP3	ENSG00000126216
TYMS	ENSG00000176890
UHRF1	ENSG00000276043
UPF3B	ENSG00000125351
USP1	ENSG00000162607
WAC	ENSG00000095787
WDHD1	ENSG00000198554
XRCC1	ENSG00000073050
AURKA	ENSG00000087586
AURKB	ENSG00000178999
CCNE1	ENSG00000105173
CCNE2	ENSG00000175305
CDT1	ENSG00000167513
DBF4	ENSG00000006634

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**PIK3CA mutation**

symbol	ensg
SEPT6	ENSG00000125354
ENPP4	ENSG00000001561
LTF	ENSG00000012223
ALOX5	ENSG00000012779
CD74	ENSG00000019582
MNAT1	ENSG00000020426
BIRC3	ENSG00000023445
RRAGD	ENSG00000025039
EPHA3	ENSG00000044524
LY75	ENSG00000054219
APPBP2	ENSG00000062725
FGFR2	ENSG00000066468
PITX1	ENSG00000069011
PFN2	ENSG00000070087
ASNS	ENSG00000070669
SRI	ENSG00000075142
GPC4	ENSG00000076716
GPC4	ENSG00000076716
TRAF5	ENSG00000082512
GSTP1	ENSG00000084207
DDHD2	ENSG00000085788
CEACAM6	ENSG00000086548
CEACAM6	ENSG00000086548
FXYS5	ENSG00000089327
ICAM1	ENSG00000090339
ESR1	ENSG00000091831
ECHDC1	ENSG00000093144
CRAT	ENSG00000095321
DSP	ENSG00000096696
KDEL3	ENSG00000100196
SPTLC2	ENSG00000100596
PFDN4	ENSG00000101132
PLCB4	ENSG00000101333
CST4	ENSG00000101441
PYCARD	ENSG00000103490
PLAT	ENSG00000104368
SQLE	ENSG00000104549



CEACAM5	ENSG00000105388
MET	ENSG00000105976
OGN	ENSG00000106809
RLN2	ENSG00000107014
RAD51C	ENSG00000108384
DHX40	ENSG00000108406
TUBD1	ENSG00000108423
TUBD1	ENSG00000108423
RPS6KB1	ENSG00000108443
MMD	ENSG00000108960
PMP22	ENSG00000109099
CPE	ENSG00000109472
CPE	ENSG00000109472
GALNT7	ENSG00000109586
TRIM2	ENSG00000109654
GLRB	ENSG00000109738
GLRB	ENSG00000109738
LPXN	ENSG00000110031
SCGB2A2	ENSG00000110484
OAS2	ENSG00000111335
ARHGDIB	ENSG00000111348
LDHB	ENSG00000111716
LDHB	ENSG00000111716
BTN3A3	ENSG00000111801
NEDD9	ENSG00000111859
TPD52L1	ENSG00000111907
TPD52L1	ENSG00000111907
SASH1	ENSG00000111961
SASH1	ENSG00000111961
CAP2	ENSG00000112186
ALDH5A1	ENSG00000112294
AIM1	ENSG00000112297
PERP	ENSG00000112378
GMDS	ENSG00000112699
WNT5A	ENSG00000114251
GRB14	ENSG00000115290
SCP2	ENSG00000116171
LGALS8	ENSG00000116977
PIK3R3	ENSG00000117461
MAN1C1	ENSG00000117643
SLC17A5	ENSG00000119899
MSX2	ENSG00000120149
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TNFSF10	ENSG00000121858
TNFSF10	ENSG00000121858
FMOD	ENSG00000122176
SCGB1D2	ENSG00000124935
SGCE	ENSG00000127990
ADORA2A	ENSG00000128271

GAD1	ENSG00000128683
SH3BP4	ENSG00000130147
BST2	ENSG00000130303
EIF2S3	ENSG00000130741
RAMP1	ENSG00000132329
WASF3	ENSG00000132970
RARRES3	ENSG00000133321
E2F5	ENSG00000133740
RRAS2	ENSG00000133818
RRAS2	ENSG00000133818
IER3IP1	ENSG00000134049
HMGCS2	ENSG00000134240
NOTCH2	ENSG00000134250
DTNA	ENSG00000134769
CGA	ENSG00000135346
EHF	ENSG00000135373
PRRG4	ENSG00000135378
KRT7	ENSG00000135480
TXN	ENSG00000136810
KLF4	ENSG00000136826
MYC	ENSG00000136997
TFAP2A	ENSG00000137203
SORL1	ENSG00000137642
CASP1	ENSG00000137752
CASP1	ENSG00000137752
CASP1	ENSG00000137752
CASP1	ENSG00000137752
LEF1	ENSG00000138795
FAM60A	ENSG00000139146
GRB7	ENSG00000141738
IGSF3	ENSG00000143061
ATP1B1	ENSG00000143153
OAZ3	ENSG00000143450
GALNT2	ENSG00000143641
EPHX1	ENSG00000143819
GULP1	ENSG00000144366
GULP1	ENSG00000144366
SPAG16	ENSG00000144451
MYO10	ENSG00000145555
PIK3R1	ENSG00000145675
PIK3R1	ENSG00000145675
IQGAP2	ENSG00000145703
PAM	ENSG00000145730
PIGF	ENSG00000151665
HOMER1	ENSG00000152413
PFKM	ENSG00000152556
PLOD2	ENSG00000152952
PLOD2	ENSG00000152952
ABCA5	ENSG00000154265

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TNIK	ENSG00000154310
TNIK	ENSG00000154310
PSD3	ENSG00000156011
PSD3	ENSG00000156011
PSD3	ENSG00000156011
GNA14	ENSG00000156049
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CBR3	ENSG00000159231
TMPRSS3	ENSG00000160183
CBS	ENSG00000160200
SHANK2	ENSG00000162105
PDZK1IP1	ENSG00000162366
SNX7	ENSG00000162627
CAPN2	ENSG00000162909
CDCP1	ENSG00000163814
HSPA4L	ENSG00000164070
HPGD	ENSG00000164120
HPGD	ENSG00000164120
HPGD	ENSG00000164120
GALNT10	ENSG00000164574
RAD21	ENSG00000164754
FZD6	ENSG00000164930
PSIP1	ENSG00000164985
RET	ENSG00000165731
CLMN	ENSG00000165959
CCT2	ENSG00000166226
PPFIBP2	ENSG00000166387
NGFRAP1	ENSG00000166681
NKX3-1	ENSG00000167034
ENTPD3	ENSG00000168032
FOX11	ENSG00000168269
LGALS9	ENSG00000168961
AR	ENSG00000169083
AR	ENSG00000169083
SDC2	ENSG00000169439
MT1E	ENSG00000169715
CTNND2	ENSG00000169862
REPS2	ENSG00000169891
NPAS2	ENSG00000170485
NPAS2	ENSG00000170485
PPM1D	ENSG00000170836
NAT1	ENSG00000171428
ENC1	ENSG00000171617
BCL2	ENSG00000171791
ID4	ENSG00000172201
ARNT2	ENSG00000172379
RPL38	ENSG00000172809
HSPA6	ENSG00000173110

GLRX	ENSG00000173221
GLRX	ENSG00000173221
CTBP2	ENSG00000175029
UCP2	ENSG00000175567
UCP2	ENSG00000175567
C8orf4	ENSG00000176907
PDE4DIP	ENSG00000178104
PDE4DIP	ENSG00000178104
CALML5	ENSG00000178372
THBD	ENSG00000178726
THBD	ENSG00000178726
OXTR	ENSG00000180914
DHTKD1	ENSG00000181192
HIST3H2A	ENSG00000181218
TACSTD2	ENSG00000184292
HIST2H2BE	ENSG00000184678
MAFF	ENSG00000185022
WBP5	ENSG00000185222
SMYD3	ENSG00000185420
MUC1	ENSG00000185499
MUC1	ENSG00000185499
ZFP36L1	ENSG00000185650
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