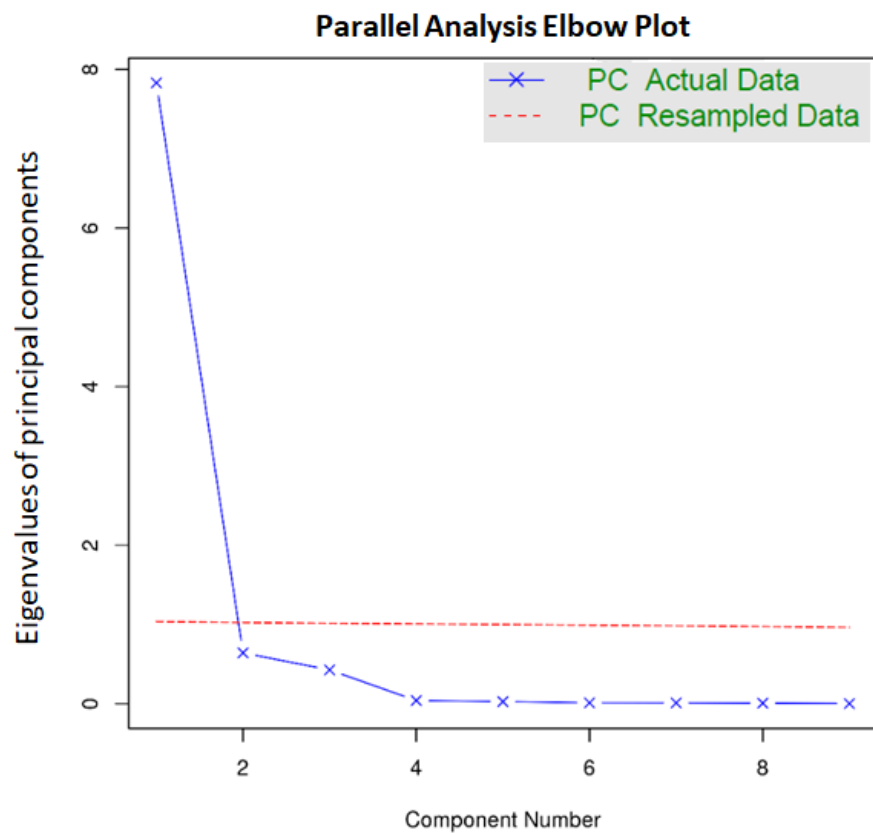


Supplemental Table 1. Output of principal component analysis (PCA)

	PC1	PC2	PC3	PC_remainders
Proportion of Variance	34.9%	32.5%	31.5%	1.1%
Cumulative Variance	34.9%	67.4%	98.9%	
Proportion Explained	35.3%	32.9%	31.8%	
Cumulative Proportion	35.3%	68.2%	100%	



Supplemental Figure 1. The principal component analysis (PCA) elbow plot plots the eigenvalues for the first 9 principal components.

Supplemental Table 2 mRNA-PCA RC3 score

Scores	RC3	Abs(RC3)	type	seqname
ASHGV40055858	5.353505	5.353505465	protein_coding	NM_033207
ASHGV40054263	-4.74122	4.741220696	protein_coding	NM_021992
ASHGV40037745	4.552353	4.552352526	protein_coding	NM_004684
ASHGV40027601	4.502064	4.502064363	protein_coding	NM_020711
ASHGV40032419	4.445723	4.445722839	protein_coding	NM_006272
ASHGV40023551	4.350516	4.350516341	protein_coding	NM_032649
ASHGV40037863	4.341397	4.341397005	protein_coding	NM_031279
ASHGV40031307	4.297427	4.297426819	protein_coding	NM_130811
ASHGV40055240	4.2288	4.228799708	protein_coding	NM_000533
ASHGV40027129	4.092059	4.092059343	protein_coding	NM_207362
ASHGV40036548	4.040153	4.040152717	protein_coding	uc003epu.2
ASHGV40027731	4.019017	4.019016837	protein_coding	NM_001822
ASHGV40016877	-3.99746	3.997459614	protein_coding	NM_004701
ASHGV40042662	3.995197	3.9951969	protein_coding	NM_000806
ASHGV40006843	3.947358	3.947357941	protein_coding	NM_004171
ASHGV40039817	3.939329	3.939329017	protein_coding	NM_007030
ASHGV40040970	-3.93411	3.934113677	protein_coding	NM_003122
ASHGV40027992	-3.92913	3.929131668	protein_coding	NM_020989
ASHGV40012096	3.903573	3.90357303	protein_coding	NM_001033677
ASHGV40056804	-3.88966	3.889658359	protein_coding	NM_001643
ASHGV40034474	3.885575	3.885574839	protein_coding	NM_007177
ASHGV40033554	-3.86197	3.861970505	protein_coding	NM_001886
ASHGV40040455	3.844007	3.844006805	protein_coding	NM_001190470
ASHGV40016695	-3.82085	3.820854913	protein_coding	NM_016359
ASHGV40014871	3.81865	3.818649592	protein_coding	NM_198406
ASHGV40020728	-3.78703	3.787031044	protein_coding	NM_000042
ASHGV40053664	3.741794	3.741794053	protein_coding	NM_000954
ASHGV40054983	3.717272	3.717272053	protein_coding	NM_014767
ASHGV40028548	3.710798	3.710798421	protein_coding	NM_003385
ASHGV40028484	-3.70421	3.704211393	protein_coding	NM_001165931
ASHGV40028426	-3.69555	3.695551901	protein_coding	NM_003108
ASHGV40052821	-3.69122	3.691220206	protein_coding	NM_014791
ASHGV40034230	3.689254	3.68925443	protein_coding	NM_020707
ASHGV40037876	-3.67145	3.671446659	protein_coding	NM_153426
ASHGV40039044	-3.66123	3.661231673	protein_coding	NM_001134
ASHGV40049838	3.632142	3.632141562	protein_coding	NM_001040092
ASHGV40021518	-3.63046	3.630464563	protein_coding	NM_005208
ASHGV40019179	3.625233	3.625232861	protein_coding	NM_002996
ASHGV40043173	-3.62149	3.6214909	protein_coding	NM_003546
ASHGV40033128	3.612642	3.612642316	protein_coding	NM_174858
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ASHGV40024680	3.596959	3.596959346	protein_coding	NM_002774
ASHGV40031031	3.563147	3.563146561	protein_coding	NM_003657
ASHGV40039535	-3.55847	3.558469841	protein_coding	NM_005141
ASHGV40029886	-3.55321	3.553213357	protein_coding	NM_000090

ASHGV40026359	3.505884	3.505883944	protein_coding	NM_012344
ASHGV40017291	-3.49146	3.491457236	protein_coding	NM_006011
ASHGV40010293	-3.47997	3.479966259	protein_coding	NM_203394
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ASHGV40033147	3.378391	3.37839105	protein_coding	NM_006941
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ASHGV40019958	3.349923	3.34992334	protein_coding	NM_016084
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ASHGV40046052	-3.30174	3.301741725	protein_coding	NM_001301056
ASHGV40039043	-3.28247	3.282466775	protein_coding	NM_000477
ASHGV40037462	3.280217	3.280216519	protein_coding	NM_173536
ASHGV40051831	3.275176	3.275176498	protein_coding	NM_001206
ASHGV40034109	-3.26103	3.261031216	protein_coding	NM_005442
ASHGV40029770	3.234167	3.234167401	protein_coding	NM_007023
ASHGV40049053	3.233867	3.233867411	protein_coding	NM_001831
ASHGV40032747	-3.22824	3.22824406	protein_coding	ENST00000596691
ASHGV40049531	3.202934	3.202933874	protein_coding	NM_002677
ASHGV40022612	3.202807	3.202807186	protein_coding	NM_001650
ASHGV40027255	-3.19929	3.199294734	protein_coding	NM_004336
ASHGV40053784	3.190058	3.190057614	protein_coding	NM_005278
ASHGV40011556	3.17903	3.179029783	protein_coding	uc001sos.4
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ASHGV40003226	-3.16891	3.168912588	protein_coding	NM_001293171
ASHGV40036780	3.156252	3.156251616	protein_coding	NM_005025
ASHGV40046251	-3.15265	3.152647304	protein_coding	NM_006547
ASHGV40018332	-3.14842	3.14842422	protein_coding	NM_005558
ASHGV40006233	3.130306	3.130305942	protein_coding	NM_000684
ASHGV40043168	-3.12126	3.121257222	protein_coding	NM_021066
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ASHGV40033425	3.109704	3.109703938	protein_coding	NM_018584
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ASHGV40057746	3.107604	3.107604048	protein_coding	NM_001190702
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ASHGV40040484	3.094611	3.094611342	protein_coding	NM_005711
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ASHGV40005147	3.08624	3.086239887	protein_coding	NM_177400
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ASHGV40020423	3.060555	3.060554802	protein_coding	NM_002055
ASHGV40018015	-3.06014	3.060140111	protein_coding	NM_018136
ASHGV40025235	-3.05031	3.050309802	protein_coding	uc001ass.2
ASHGV40012011	3.036064	3.036064268	protein_coding	NM_001143854
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ASHGV40020137	3.026679	3.026678787	protein_coding	NM_014210
ASHGV40000119	3.023359	3.023359312	protein_coding	ENST00000361227
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ASHGV40013592	3.013277	3.013277021	protein_coding	NM_001306070
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ASHGV40044143	-2.92576	2.925755076	protein_coding	NM_175747
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ASHGV40042313	2.917437	2.917436711	protein_coding	NM_175873
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ASHGV40021844	2.891882	2.891881918	protein_coding	NM_006178
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ASHGV40054537	2.849712	2.849712384	protein_coding	NM_031462
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ASHGV40008662	2.84447	2.844469928	protein_coding	NM_006848
ASHGV40005692	-2.83282	2.832815448	protein_coding	NM_001786
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ASHGV40033996	2.830544	2.830543566	protein_coding	NM_001001331
ASHGV40023824	-2.82771	2.8277076	protein_coding	NM_032447
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ASHGV40037594	-2.80738	2.807379566	protein_coding	NM_024743
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ASHGV40043603	-2.75448	2.754482879	protein_coding	NM_145740
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ASHGV40054951	2.740211	2.740210987	protein_coding	NM_002778
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ASHGV40032812	-2.72569	2.725691135	protein_coding	NM_001136213
ASHGV40023377	-2.72396	2.723956461	protein_coding	NM_006033
ASHGV40020500	-2.72352	2.723516192	protein_coding	NM_002146
ASHGV40046299	-2.72225	2.72225166	protein_coding	NM_019102
ASHGV40006788	-2.71585	2.715846427	protein_coding	NM_031217
ASHGV40024114	-2.71261	2.712608023	protein_coding	NM_004720
ASHGV40033448	2.710346	2.71034625	protein_coding	NM_144704

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ASHGV40014699	-2.68823	2.688234386	protein_coding	NM_001005356
ASHGV40006003	-2.68774	2.687735134	protein_coding	NM_001127182
ASHGV40039559	2.68556	2.685560427	protein_coding	NM_000826
ASHGV40046688	2.68484	2.684839872	protein_coding	NM_012479
ASHGV40045117	-2.67895	2.67894627	protein_coding	NM_005588
ASHGV40030460	-2.67878	2.678783113	protein_coding	NM_019609
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ASHGV40010176	2.671692	2.671692475	protein_coding	NM_007191
ASHGV40016115	2.664826	2.664825918	protein_coding	NM_012428
ASHGV40040867	-2.66371	2.663711909	protein_coding	NM_001790
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ASHGV40046295	-2.65692	2.656916618	protein_coding	NM_006735
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ASHGV40011896	2.647741	2.647741346	protein_coding	NM_206820
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ASHGV40025572	2.632704	2.632703547	protein_coding	NM_002361
ASHGV40053700	2.63239	2.632390446	protein_coding	ENST00000361899
ASHGV40055230	2.629427	2.629427434	protein_coding	NM_001080425
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ASHGV40003291	2.604595	2.604594845	protein_coding	NM_018476
ASHGV40034809	-2.60354	2.6035388	protein_coding	NM_199420
ASHGV40027422	-2.60251	2.602506227	protein_coding	NM_001277406
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ASHGV40018662	2.599471	2.599470548	protein_coding	NM_018723
ASHGV40049057	-2.59827	2.598265921	protein_coding	NM_018492
ASHGV40047669	2.596967	2.596967154	protein_coding	NM_152793
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ASHGV40006728	2.593846	2.593845975	protein_coding	NM_006906
ASHGV40016579	-2.59377	2.593765412	protein_coding	NM_001039841
ASHGV40047080	2.590605	2.59060481	protein_coding	NM_005302
ASHGV40027470	-2.59058	2.590582773	protein_coding	NM_002299
ASHGV40043605	-2.59046	2.590457399	protein_coding	NM_000847
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ASHGV40024608	2.577428	2.577427636	protein_coding	NM_001217
ASHGV40015483	-2.5763	2.576302015	protein_coding	NM_001362
ASHGV40007540	-2.57352	2.573515381	protein_coding	NM_002421
ASHGV40044986	2.572362	2.572361863	protein_coding	ENST00000423336
ASHGV40035479	2.572332	2.572331952	protein_coding	NM_005781
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ASHGV40038156	-2.5702	2.570201441	protein_coding	NM_021870
ASHGV40014471	2.566982	2.566981674	protein_coding	NM_014216
ASHGV40029498	2.564346	2.564345688	protein_coding	NM_032144
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ASHGV40054550	-2.56098	2.560984954	protein_coding	NM_005367
ASHGV40026953	2.558223	2.558223113	protein_coding	NM_001015055
ASHGV40045207	2.558167	2.558167402	protein_coding	NM_152731
ASHGV40009655	2.557409	2.557408879	protein_coding	NM_032918
ASHGV40041515	2.553582	2.553581676	protein_coding	NM_001677
ASHGV40031265	2.552507	2.552507287	protein_coding	NM_000311
ASHGV40040202	2.551833	2.551833468	protein_coding	NM_021072
ASHGV40037273	2.548845	2.548845192	protein_coding	NM_000320
ASHGV40034224	2.546042	2.546041767	protein_coding	NM_000729
ASHGV40048474	-2.54498	2.544975759	protein_coding	NM_001869
ASHGV40007211	2.543347	2.543346892	protein_coding	NM_003793
ASHGV40056153	-2.54313	2.54313186	protein_coding	uc021sfx.1
ASHGV40047719	2.5423	2.542300379	protein_coding	NM_018685
ASHGV40012893	2.542259	2.542258711	protein_coding	NM_052867
ASHGV40043996	2.541404	2.541404067	protein_coding	NM_003309
ASHGV40007446	-2.53934	2.539338223	protein_coding	NM_022337
ASHGV40046164	2.538692	2.538691654	protein_coding	NM_002489
ASHGV40051560	2.536427	2.536427025	protein_coding	NM_020344
ASHGV40005593	-2.53506	2.535056758	protein_coding	NM_014696
ASHGV40053701	2.533002	2.533001769	protein_coding	ENST00000362079
ASHGV40019483	-2.53187	2.531872192	protein_coding	NM_002153
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protein_coding	CLVS1
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protein_coding	PLS1
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protein_coding	ID1
protein_coding	SETD8
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protein_coding	SLC39A7
protein_coding	MTG2
protein_coding	BC150535
protein_coding	DUOX1
protein_coding	DPYS
protein_coding	KIAA0907
protein_coding	DCAF17
protein_coding	RBM12
protein_coding	MTMR4
protein_coding	PBLD
protein_coding	PAEP
protein_coding	FAM76A
protein_coding	DEGS2
protein_coding	ARSK
protein_coding	CPNE6
protein_coding	FAM76B
protein_coding	CD58
protein_coding	ZDHHC13
protein_coding	MZB1
protein_coding	ZNF511
protein_coding	USP40
protein_coding	CDK5R2
protein_coding	C6ORF50
protein_coding	TPST2
protein_coding	MOB4
protein_coding	TRPC4AP
protein_coding	SHPRH
protein_coding	PPP1R37
protein_coding	ZNF275
protein_coding	OGT
protein_coding	SENP7
protein_coding	UEVLD
protein_coding	TEPP
protein_coding	C10orf142
protein_coding	TOX4
protein_coding	C10orf54
protein_coding	SDS
protein_coding	ZNF594
protein_coding	LRMP
protein_coding	RHOG
protein_coding	CLN5
protein_coding	NAP1L1

protein_coding	SYNDIG1
protein_coding	PLAC9
protein_coding	MANF
protein_coding	ZCCHC9
protein_coding	RNF139
protein_coding	RNF214
protein_coding	C21orf88
protein_coding	CRTAC1
protein_coding	REEP1
protein_coding	KDELR2
protein_coding	NUPR1
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protein_coding	SLCO4A1
protein_coding	PRKAB1
protein_coding	SAR1B
protein_coding	GJC2
protein_coding	C4orf33
protein_coding	EIF6
protein_coding	OR6A2
protein_coding	ACCSL
protein_coding	ACAP3
protein_coding	CCDC160
protein_coding	PGM3
protein_coding	APOPT1
protein_coding	SMURF1
protein_coding	PSMB1
protein_coding	MRPL45
protein_coding	GSK3A
protein_coding	SEC22C
protein_coding	OTOS
protein_coding	POLR2J2
protein_coding	PTTG2
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protein_coding	MTPAP
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protein_coding	ZFAND3
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protein_coding	ZBED5
protein_coding	OR2V2
protein_coding	ZBTB14
protein_coding	PRPF40B
protein_coding	SEMA4F
protein_coding	ZFP69B
protein_coding	TFG

protein_coding	FAM209A
protein_coding	EIF3B
protein_coding	MRGPRE
protein_coding	DDX26B
protein_coding	SNX9
protein_coding	OGG1
protein_coding	NAB1
protein_coding	UCKL1
protein_coding	MLYCD
protein_coding	ZC3H8
protein_coding	HNRNPL
protein_coding	KIAA1324
protein_coding	SNX18
protein_coding	SFMBT2
protein_coding	EEF1D
protein_coding	MTERF3
protein_coding	SIX4
protein_coding	LINC00671
protein_coding	USHBP1
protein_coding	MEX3C
protein_coding	ABCG1
protein_coding	TECPR2
protein_coding	XRRA1
protein_coding	BAIAP2L2
protein_coding	CTNNB1
protein_coding	MED21
protein_coding	TIMM10B
protein_coding	CTDSP2
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protein_coding	TMEM125
protein_coding	TBC1D14
protein_coding	PBDC1
protein_coding	PTCHD4
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protein_coding	CD96
protein_coding	TSHZ2
protein_coding	WFIKK1
protein_coding	SCAF8
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protein_coding	SSR3
protein_coding	ASB1
protein_coding	PCBD1
protein_coding	PI4KB
protein_coding	GIMAP1
protein_coding	ANKRD9

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protein_coding	SCARA3
protein_coding	ZC3H12B
protein_coding	LMLN
protein_coding	GJB3
protein_coding	PPARG
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protein_coding	IGFBP4
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protein_coding	IPP
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protein_coding	IMPG1
protein_coding	CCDC9
protein_coding	METTL18

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protein_coding	ELOVL7
protein_coding	KCNH8
protein_coding	COA7
protein_coding	MCM7
protein_coding	GSTO2
protein_coding	MUC4
protein_coding	TIMM50
protein_coding	WDR19
protein_coding	TTL
protein_coding	CHD2
protein_coding	ICT1
protein_coding	ZBTB40
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protein_coding	NMNAT1
protein_coding	WHSC1L1
protein_coding	IL33
protein_coding	PPP4R3A
protein_coding	MAVS
protein_coding	SRBD1
protein_coding	UBA52
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protein_coding	PHKG2
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protein_coding	ARHGAP20
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protein_coding	TBXA2R
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protein_coding	ZFYVE20
protein_coding	BCL10
protein_coding	MED25
protein_coding	UMPS

protein_coding	HAUS7
protein_coding	EVI5L
protein_coding	EIF2AK1
protein_coding	RBBP9
protein_coding	PKIA
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protein_coding	TNS2
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protein_coding	NKD1
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protein_coding	MMACHC
protein_coding	FJX1
protein_coding	MYL3
protein_coding	PAGR1
protein_coding	HIVEP1
protein_coding	KCNA4
protein_coding	CACNA2D3
protein_coding	PIPOX
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protein_coding	ZNF561
protein_coding	TPT1
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protein_coding	FANK1
protein_coding	GABPB2

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protein_coding	TBR1
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protein_coding	NR1H3
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protein_coding	ENKD1
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protein_coding	KIAA1614
protein_coding	SIAE
protein_coding	RHBDD1

protein_coding	DDX20
protein_coding	ADCK3
protein_coding	ITGB7
protein_coding	CDK5RAP2
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