

**Table S1: Proteins selectively affected by the RXFP3 constellation.** In an unbiased manner we discovered the proteomic ‘constellation’ perturbation response to ascending expression levels of RXFP3 expression (0.5, 1, 2, 5, 10µg of cDNA expressed). Protein extracts were investigated as a multiplex using quantitative proteomics through iTRAQ labelling with each RXFP3 expression level compared ratiometrically to the proteomic response effects to empty vector ectopic expression. The ratios were then normalized using a Log<sub>2</sub> transformation, allowing us to identify the significantly up- and downregulated proteins.

0.5µg		1µg		2µg		5µg		10µg	
Gene Symbol	Log <sub>2</sub>	Gene Symbol	Log <sub>2</sub>	Gene Symbol	Log <sub>2</sub>	Gene Symbol	Log <sub>2</sub>	Gene Symbol	Log <sub>2</sub>
AASDHPPT	0.294177644	AASDHPPT	0.325364834	ACLY	-0.292542289	ACTC1	0.271539975	ABLIM1	-0.332220572
ABCF1	-0.238729249	ACADM	0.25560635	ACOT7	-0.34518901	AGTRAP	0.296490926	ACTA2	-0.194868466
ABLIM1	-0.295446062	ACAT1	0.335100621	ACTC1	0.743016546	AHCYL1	0.558913446	ACY1	0.286055465
ACOX1	0.352519881	ACOT7	-0.220086212	AHCYL1	0.561512025	ALB	0.37685384	AHCYL1	0.293053616
ACTC1	0.344455414	ACTC1	0.303334806	AIF1L	-0.257611393	ALDH5A1	0.297748322	AHSA1	-0.297855957
AHCYL1	0.445385857	AFF4	-0.289851897	AK6	0.217915408	ANP32A	0.18341314	AIF1L	0.207420555
AIDA	0.286140339	AHSA1	0.30836933	ALDH5A1	0.24464642	AP3B1	-0.303101928	AK6	0.279852669
AIF1L	-0.241909298	AKR1B1	0.381214273	ANKRD11	-0.474910075	ARHGEF18	0.194974413	AK6	0.279852669
ALG9	0.676016115	ALDH5A1	0.389317218	ANP32A	-0.370269523	ARL8B	-0.260314503	ALCAM	0.30834821
ANKRD11	-0.277508735	ALG9	0.461573364	AP2S1	-0.338298764	ASMTL	-0.285562062	ALG1	-0.288540758
ANKZF1	0.461782475	ANKRD11	-0.27255319	AP3B1	-0.31080733	ASPSR1	0.219918851	ANKRD11	-0.544017002
AP3B1	-0.266769456	APRT	0.270950252	ARL14EP	-0.360886717	ATL3	-0.323081679	ANP32A	-0.295605932
AP3D1	0.236183718	ARHGEF2	0.262897667	ATPIF1	0.272809073	ATOX1	0.172625738	AP3B1	-0.316018475
ARHGAP11A	-0.244503482	ARL14EP	-0.253013246	ATXN2	-0.319331327	ATPIF1	0.179550436	ARHGEF18	0.323345208
ARHGEF18	0.331523071	ASMTL	-0.290995803	B4GAT1	-0.242105958	ATXN10	-0.258671403	ASMTL	-0.213930426
ASMTL	-0.246149736	ATOX1	0.305780778	BANF1	0.418023533	ATXN2	-0.527003055	ATL3	-0.298298994
ATP5C1	0.281798429	ATP5A1	0.427904167	BCLAF1	0.248102454	BANF1	0.481931315	ATPIF1	0.296369478
ATP5G3	0.313705542	ATP5B	0.353870651	BIRC5	0.269041449	BUB1B	-0.32397814	BANF1	0.281928005
ATP5H	0.231590348	ATP5C1	0.318823125	BRIX1	-0.37599491	C15orf38- AP3S2	0.18224626	BIRC5	0.315412626
ATP5J2-PTCD1	0.267766929	ATP5D	0.486532741	BUB1B	-0.536689395	C4orf32	-0.31813144	BRIX1	-0.226328127
ATPIF1	0.380469739	ATP5F1	0.264529972	C3orf17	0.26894941	CA3	0.755350473	BUB1B	-0.302505258
ATXN10	0.233277691	ATP5G3	0.290018208	C4orf27	-0.314680018	CADM4	0.27705221	BZW2	-0.320733202
ATXN2	-0.347991086	ATP5J2-PTCD1	0.317527757	CA3	0.484425101	CALM2	0.16197064	C19orf53	0.353942375
BPHL	0.239156379	ATP5O	0.279135144	CADM4	0.24725512	CAPN2	-0.261307045	CA3	0.320322102
C12orf75	-0.26276642	ATPIF1	0.571191271	CAND1	-0.289280338	CAPNS1	-0.280158025	CAPNS1	-0.372370845
C1orf174	-0.296784531	ATXN10	0.28656706	CAPN2	-0.399885598	CARHSP1	0.228804686	CCDC9	-0.256711568
C4orf32	-0.275806353	ATXN2	-0.287773094	CAPNS1	-0.262976931	CCDC9	-0.428989344	CCNB2	0.43402735
CA3	0.230159127	BANF1	-0.274326516	CAPRN1	-0.278219555	CCK	0.266538434	CDC73	-0.487217952
CALD1	-0.296450134	BUB1B	-0.317152923	CASC3	-0.375490378	CD9	-0.276226967	CDCA2	-0.689431775

CALR	0.303753439	C1QBP	0.409888308	CBX1	0.383572052	CDC73	-0.629365293	CENPV	-0.239963147
CALR	0.303753439	CALD1	0.264472481	CCDC9	-0.578875534	CDCA2	-0.397730738	CEP55	0.335023026
CAPRIN1	-0.264199716	CALR	0.395967777	CCSMST1	-0.320174516	CDK9	-0.323685731	CHD4	-0.207524868
CASC3	-0.282913504	CALU	0.243698799	CDC73	-0.579476554	CDKN2AIP	-0.26468516	CHMP1B	0.316760088
CBS	0.235942	CAPRIN1	-0.306362449	CDCA2	-0.511550591	CENPL	-0.260478511	CHMP2A	0.332582381
CBX1	0.36885386	CARHSP1	0.239417475	CDCA3	-0.257580737	CENPV	-0.366501814	CHMP3	0.195991044
CCDC9	-0.388787162	CASC3	-0.383487457	CDK9	-0.304091678	CEP55	0.295130228	CNBP	-0.351551
CCNK	-0.237592104	CBS	0.291650494	CDKN2AIP	0.238110339	CFL1	0.167814159	COX14	-0.329007055
CDCA2	-0.572116462	CBX1	0.508390076	CENPV	-0.383792415	CGN	-0.308861258	COX5A	-0.348554912
CDCA3	-0.261997204	CBX3	0.233103937	CEP55	0.272959887	CHCHD2	0.307058273	COX6B1	0.364165967
CENPV	-0.225732366	CCDC86	-0.264969312	CHD4	-0.33937399	CHD4	-0.344665129	CPNE1	-0.29041289
CEP131	-0.262749403	CCDC9	-0.245948622	CHMP2A	0.243896053	CHMP2B	-0.265388936	CRYGD	-0.203053378
CGN	-0.239029904	CCNYL1	0.351811888	CHMP2B	-0.236806789	CLN6	0.277907188	CTSV	0.288762911
CHCHD2	0.329967647	CDCA2	-0.46083529	CLTC	-0.290597455	CNOT10	-0.335306466	DCP1B	0.222271291
CHD3	-0.242526248	CDKN2AIP	-0.443149178	COPB1	-0.34121033	COPZ1	0.26549606	DCTD	-0.289756164
CLASP1	0.2767584	CGN	-0.293039742	COQ6	-0.343958495	COQ6	-0.318255202	DDOST	-0.251846942
COX6B1	0.458417583	CHMP2A	0.277702375	COX5A	-0.358928386	COX5A	-0.3032919	DDT	-0.261879173
CRKL	0.239327479	CHTOP	0.240936101	COX6B1	0.188392706	CRYGD	-0.316191917	DDX20	-0.272358731
CSNK1E	-0.235936687	CNBP	0.26664066	CSRP2	-0.289933808	CTSV	-0.445650241	DERL1	0.289706186
CTSV	-0.271203329	CNBP	0.26664066	CTBP2	-0.348798869	CTTN	-0.2663929	DFFA	-0.294341045
DCD	-0.374078821	COX6B1	0.418721482	DBNL	-0.237204185	DCD	-0.300457641	DIABLO	0.339601057
DCTD	-0.2296447	CS	0.245635151	DCTN4	-0.289320074	DCTD	-0.279388727	DPY30	0.391422375
DDX19A	0.388126862	CTBP2	-0.224893341	DDB1	-0.301785644	DDB1	-0.276528287	DSG1	0.449467007
EIF4E	-0.26289304	CTSV	-0.385866974	DDT	-0.27081301	DDOST	-0.277366119	EEA1	0.188921055
EMC6	-0.23421476	CUL4A	-0.240577425	DDX19A	0.446185275	DDX19A	0.548467894	EEF2	-0.195089207
FMR1	-0.255940172	CXXC1	-0.278607791	DERL1	0.242086827	DHX57	-0.255072238	EIF3G	-0.344445116
FOXK2	-0.228125007	DCTD	-0.263876698	DHRS4	-0.268271193	DHX9	-0.257144797	EIF3L	-0.309263192
FTSJ3	-0.597216129	DDB1	-0.237353595	DHX15	-0.298659061	DSG1	0.330684414	ENAH	-0.434365204
FXR1	-0.257151169	DDRGR1	0.309620788	DHX57	-0.287704667	EIF1AX	0.175679571	EPC1	0.353386897
G3BP1	-0.324607388	DDT	0.267851991	DHX9	-0.287806677	EIF3C	-0.328265683	EPN1	-0.343263538
G3BP2	-0.443212682	DDX19A	0.43404105	DNM1L	-0.30137597	EIF3G	-0.303679795	ESD	-0.352285626
GABARAP	0.337986989	DDX6	-0.266779733	DYNC1H1	-0.305430525	EIF3L	-0.290165289	ESRRA	0.325267477
GNA11	0.239166625	DERL1	0.37281578	EEF2	-0.332343321	EIF4E	-0.26778028	FAM107B	0.190093556
GNB4	-0.273055798	DHX37	-0.226898727	EHD1	-0.301038526	EIF4H	-0.288571798	FAM208B	-0.318468293
GPATCH4	-0.242402923	DLD	0.430238535	EIF3G	-0.236291435	ENAH	-0.523609312	FAM76A	0.293884184
GPBP1	0.316796	DLD	0.430238535	EIF3L	-0.308463073	EPN1	-0.476698301	FDPS	-0.291130113
GPS1	-0.284378992	DSG1	0.426800505	EIF4E	-0.373691748	EPN2	-0.517168956	FKBP15	0.209263078
GTF2A2	-0.211736949	EEF2	-0.22551217	EIF4H	-0.296376124	ESD	-0.362075255	FLG2	0.337704811
GYG1	0.433178399	ELP2	-0.271719205	EIF5B	-0.321863616	FAM103A1	0.220299086	FTSJ3	-0.617704717
H2AFZ	0.362155736	EML4	-0.220614257	ELP2	-0.312629542	FAU	0.216384855	FTSJ3	-0.617704717
HBA1	-0.33977776	ENY2	0.270679714	ENAH	-0.376196558	FKBP7	0.615105832	FUNDC2	0.312458338

HGS	0.496436792	EXOC4	0.265737055	ESD	-0.248403758	FTSJ3	-0.611563656	GANAB	-0.373088929
HIST1H1B	0.65287147	G3BP1	-0.297178916	FAM64A	-0.282979229	G3BP2	-0.302499676	GAR1	0.335758509
HIST1H1D	1.695376646	G3BP2	-0.511404915	FLOT2	0.302428518	GALNT1	0.259033937	GCFC2	-0.233711923
HIST1H2BA	0.985021672	GABARAP	0.257092904	FMR1	-0.269059309	GALNT7	-0.349768784	GIN53	-0.199388725
HIST1H3A	1.296878006	GATAD2A	-0.285028511	FTSJ3	-0.596293715	GCN1L1	-0.319788	GIT2	0.31935434
HSD17B11	0.328687887	GCN1L1	-0.271468672	G3BP2	-0.395895915	GMPS	-0.264398526	GMPS	-0.190171848
HSPA6	0.306894912	GDE1	-0.264369467	GALNT7	-0.323612264	GNA11	0.277022844	GNB2L1	-0.228360994
IKBIP	-0.232878983	GDI1	0.266618846	GAPVD1	-0.351619395	GNL1	-0.275215968	GNL1	-0.437841584
INPP5K	-0.261369812	GMPS	-0.233022649	GCFC2	-0.303105131	GOLIM4	-0.414749648	GNL2	-0.193102383
INTS10	-0.235283693	GNA11	0.32473566	GCN1L1	-0.310150916	GPALPP1	0.188590515	GORASP2	-0.316855189
IST1	0.248809927	GOLIM4	0.284156787	GDE1	-0.277850603	GPBP1	0.18040124	GPALPP1	0.254378711
KAT5	0.296410549	GPALPP1	-0.285202752	GGA2	-0.34557823	GRB10	-0.250578343	GSPT1	-0.354765906
KIN	-0.223379574	GRB10	-0.319535209	GIT2	0.19671156	GSTO1	-0.310612796	GTPBP3	-0.295240749
KRT1	-0.227011698	GRPEL1	0.367547231	GMPS	-0.352708682	H3F3A	-0.289726298	H1F0	0.402194778
KRT10	-0.332392279	GTF3C2	-0.226898727	GNB2L1	-0.353988796	HACD3	-0.270408769	H1FX	0.386885714
KRT2	-0.314826862	GYG1	0.381484859	GNL1	-0.279620782	HADHB	0.174725733	H2AFX	0.404632594
KRT2	-0.27831157	H2AFY	0.343643482	GOLIM4	-0.438297209	HBA1	0.366690792	H2AFZ	0.433160354
KRT9	-0.212483973	H2AFZ	0.772739503	GORASP2	-0.382812138	HBB	0.589252257	H3F3A	-0.35625838
LAMTOR2	0.303209351	H3F3A	-0.305293771	GPALPP1	-0.261938523	HDCC2	0.162352969	HARS	-0.307486908
LDB1	0.331143433	HINT1	0.263183319	GPBP1	0.228004349	HDGFRP3	0.29422599	HBB	0.861101917
LIG4	-0.268060206	HIST1H1B	0.719495803	GPS1	-0.235118279	HEATR3	-0.271892174	HDGFRP3	0.336514044
LRRC1	0.373920795	HIST1H1E	0.391808731	GSTO1	-0.264279496	HGS	0.214586707	HEATR3	-0.188131875
LSM12	-0.277368045	HIST1H2BA	0.725680343	H3F3A	-0.343005918	HGS	0.214586707	HEXIM1	0.223836251
LYAR	-0.249959647	HIST1H2BJ	0.370357936	HACD3	-0.306234528	HINT1	-0.325213863	HGS	0.224229136
MAG1	-0.306430634	HIST1H2BL	0.47860332	HADHB	0.232032248	HIST1H1C	0.2508332	HIST1H1C	0.380380473
MAGI3	-0.255519998	HIST1H3A	0.40598354	HAGH	-0.263844491	HIST1H1D	0.665861176	HIST1H1D	0.734135217
MEPCE	0.66262566	HIST2H2AB	0.59814944	HARS	-0.2675812	HIST1H3A	0.217401531	HIST1H1E	0.710057979
METAP2	-0.265478657	HIST3H2BB	0.520173478	HBB	0.381890114	HK1	-0.261938898	HIST1H2AB	0.363465557
MGAT2	-0.250821894	HK1	-0.223991811	HEATR3	-0.334638998	HM13	-0.266744039	HIST1H2BK	0.452290288
MIF	0.426783883	HMGA1	0.298404214	HGS	0.338163344	HMGB1	0.200608955	HIST1H3A	0.60745177
MPP7	-0.259065956	HMG2N	0.29489128	HIST1H1C	0.353483835	HMGB2	0.167922719	HIST1H4A	-0.277273704
MRPL28	0.260104406	HMG2N5	0.27606369	HIST1H1D	1.04834744	HNRNPD	0.270000704	HIST2H2AB	0.358533007
MRPS17	0.296374466	HNRNPA2B1	0.238005971	HIST1H3A	0.513162211	HNRNPM	-0.250298289	HIST2H2AC	0.649704717
MT-ATP6	0.320491414	HNRNPC	0.237173163	HIST1H4A	-0.385897884	HSPE1	0.166213591	HIST2H3PS2	0.312141124
MT-ATP8	0.243017244	HNRNPDL	0.263204306	HIST2H2AC	0.387184449	HUWE1	-0.449659965	HIST3H2BB	0.210243836
MTMR1	-0.621246409	HPRT1	0.321677766	HK1	-0.361732958	INA	0.318944783	HM13	-0.221316316
NBN	-0.27380469	HSD17B10	0.317771694	HLA-C	0.291162711	INPP5K	-0.319484305	HMGA1	0.345414976
NCKAP1	0.362999721	HSD17B12	0.277894772	HN1L	-0.282857874	INTS6	0.475437723	HMGA2	0.521071709
NDUFA4	0.348403454	HSPA9	0.273997563	HNRNPA1L2	0.26204341	IRF2BP1	-0.272459007	HMGB2	0.353506823
NEDD4	-0.264900045	HSPD1	0.441124661	HNRNPC	0.235023281	ISCA1	-0.26762552	HMGN1	0.472286199
NEK7	-0.356300459	HSPE1	0.290345746	HSD17B11	0.253036318	ISCA2	0.182178241	HMGN2	0.423436644

NFXL1	0.45266145	HUWE1	0.28127957	HSPE1	0.249074142	IST1	0.333981423	HMG3	0.43004497
NOLC1	0.291768502	IDH3A	0.247929581	HSPH1	-0.291779478	JAGN1	-0.264693431	HMG4	0.378835564
NOLC1	-0.252577233	INTS4	-0.274289571	HZGJ	-0.323722907	JMJD6	-0.292029837	HN1L	-0.406048196
NPC1	0.822075641	IPO4	0.316817663	IARS	-0.350401699	KAT5	0.349668339	HNRNPC	0.370567093
NRDE2	0.710485678	IRF2BP1	0.265710806	ILKAP	-0.292374717	KCMF1	0.175737339	HNRNPD	-0.20995832
NTPCR	0.376307366	IRF2BP1	-0.303579979	INA	0.36297199	KIAA1211	0.263236731	HNRNPM	-0.241581154
OGFOD3	-0.438018407	ISCA1	-0.27346846	INTS6	0.357710933	KIF2C	0.260991804	HSPE1	0.213669644
OPA3	0.363978484	ISG20L2	0.258644927	IPO4	-0.300362092	KIN	-0.341478433	HUWE1	-0.471365495
ORC1	-0.233126486	ITPK1	-0.451631266	ISCA1	-0.338659784	KPNA2	-0.316688919	IDE	-0.311814383
PAGR1	-0.699972463	KIAA0101	-0.405707371	IST1	0.291846673	KPRP	0.258826853	INA	0.289905853
PALLD	-0.299893602	KPNA2	-0.253508369	ITPK1	0.239839426	KRT10	-0.337016947	INTS10	-0.290810933
PAPD5	-0.251213884	KRT10	-0.505846927	JMJD6	-0.434028495	KRT2	-0.27051424	INTS6	0.399092741
PCCA	0.270951963	KRT2	-0.571130788	JMJD6	-0.434028495	LAMTOR3	-0.272541025	ISCA1	-0.631264704
PDE7B	0.732153179	LBR	0.304225494	KAT5	0.301983271	LARP4	-0.267602059	ITPK1	0.251086859
PEX16	-0.542415816	LDB1	0.277862711	KCMF1	0.247177504	LIG4	-0.291278377	JADE3	-0.340068403
PFKFB2	-0.34331902	LMNB1	0.307486462	KIAA0101	-0.262658237	LSM7	0.179194973	JMJD6	-0.213418266
PFKL	0.36261375	LRRC1	0.375761296	KIAA0415	-0.288156297	LYRM2	0.333898972	KAT5	0.585683559
PFKP	-0.933801233	LRRC59	-0.259663836	KIN	-0.340457074	MANBAL	-0.277196252	KCMF1	0.242644502
PGM1	0.253764465	LSM7	0.230221912	KNSTRN	0.264876589	MAPRE2	0.196463537	KIAA0415	-0.196783706
POLR1E	-0.298391118	LYAR	-0.295894807	KPNA2	-0.327704235	MARCKS	0.203311961	KIF18B	-0.777383072
POLR2G	-0.274414203	MAGI3	-0.288195999	KRT10	-0.436654749	MARCKSL1	0.166862138	KIN	-0.265423885
POLR2G	-0.274414203	MAPRE2	0.235494712	KRT2	-0.499771989	MAZ	0.274551869	KPNA2	-0.243902071
POLR2K	-0.334293116	MDH2	0.565411432	LAMP2	-0.256908694	MB	0.268792804	KRT10	-0.200021903
POP1	-0.480293841	MED4	-0.364741794	LAMTOR3	-0.246558826	MCFD2	-0.361677197	KRT10	-0.200021903
POTEKP	0.722163395	MEPCE	0.556926861	LDB1	0.269764507	MCM7	-0.271698507	KRT2	-0.194565943
PPP1R14B	0.260681259	METAP2	-0.381440352	LIG4	-0.260407541	MED15	-0.302379316	LIG1	0.220874669
PPP2CB	-0.229162592	MIF	0.624630213	LYRM2	0.358050221	MEPCE	-0.281876657	LYPLA1	0.327415774
PPP6R3	0.44182277	MMACHC	-0.350892115	MAGI1	-0.255653543	MMACHC	-0.416485789	MAGI1	-0.292138509
PRKAR2B	-0.214305901	MORF4L1	-0.235430435	MAP1LC3B2	-0.368250626	MPP7	-0.296750329	MAP1LC3B2	0.295726177
PRKCSH	0.345806011	MRPS2	0.242235041	MAP4K4	0.269742061	MPST	-0.325213863	MARCKSL1	0.213659916
PRR14L	-0.430807924	MRPS24	-0.261560602	MAPRE2	0.202478987	MRPL23	0.260659529	MED8	-0.204140564
PRSS1	0.230798917	MT-ATP6	0.299122441	MARCKSL1	0.218360817	MTMR1	-0.730178296	MEPCE	0.631385217
RAB18	0.590458164	MT-ATP8	0.316346883	MCFD2	-0.340889608	MYDGF	0.162060855	MIS12	0.295540552
RAB35	-0.483292704	MT-CO3	-0.281546649	MCM7	-0.316313468	MYL12A	-0.283133344	MMACHC	-0.386293538
RDH14	-0.255595774	MTMR1	-1.030854449	MED22	-0.280330071	NARS	-0.301769883	MMS22L	-0.315419354
RHOT2	0.47823089	MYDGF	0.237432046	MED4	-0.525194529	NCL	0.182428199	MPST	-0.380907602
RNF40	-0.229769076	NAA25	-0.227490125	MEPCE	0.446444427	NDUFA8	0.287186726	MPV17	-0.489894452
RPLP1	0.371943536	NDUFA4	0.398376823	METAP2	-0.268181013	NDUFS6	0.259114059	MRPL23	0.326726691
RRBP1	0.405231334	NEDD4	-0.265369479	MIS12	0.234832725	NEDD4	-0.509910996	MRPS14	-0.292369223
RRBP1	-0.289908274	NEK7	-0.327239935	MLXIP	-0.243381617	NEFM	0.341532439	MRPS2	-0.193985137
SCYL1	-0.263308476	NENF	0.321936007	MMACHC	-0.319117108	NEK7	-0.359347582	MTERF3	0.310976667

SDHC	0.696110174	NHP2L1	0.264724468	MRPL23	0.301988834	NENF	0.202472442	MTMR1	-0.389546598
SEC24B	-0.24934264	NKX2-5	-0.305289084	MRPS21	0.235002644	NFXL1	0.370200403	NAA40	0.320773086
SLC12A4	-0.258730479	NOLC1	0.449328652	MT-ATP6	0.313816042	NIPSNAP1	0.278662723	NARS	-0.248130711
SLC25A3	0.243782123	NOLC1	-0.325320639	MT-CO3	-0.315968396	NR2C2AP	0.201274431	NCL	0.336121314
SLC25A4	0.228159549	NPC1	1.284694053	MTMR1	-0.613499941	NUCKS1	0.219333411	NDUFB1	-0.393995449
SLC25A5	0.268138883	NPM1	0.232101459	MXRA7	-0.241142093	NUF2	-0.280767133	NECAP1	0.229762954
SLC25A6	0.311686561	NSMCE1	0.286740891	MYH9	-0.311075568	NUP98	-0.275598991	NEK7	-0.241449854
SLC39A7	0.248649064	NT5C2	-0.262866807	MYL12A	-0.289801979	ORC1	-0.30252977	NEK9	0.20279355
SMARCA2	0.251712116	NTPCR	0.312498578	NAE1	-0.326780154	OSBP	-0.411835469	NENF	0.250400574
SNTB2	0.233325473	NUCB1	-0.343680533	NARS	-0.491178533	PAFAH1B1	-0.265298454	NFKBIB	0.231311422
SPCS1	0.273666399	NUP98	-0.237005586	NCKAP1	0.36306266	PAFAH1B2	-0.277577086	NFYA	0.286723516
SPTY2D1	-0.282763761	OAT	0.229058357	NDE1	0.242629984	PAFAH1B3	-0.286052047	NHP2L1	0.295879549
SUB1	-0.2537187	OGFOD3	-0.336075491	NEFM	0.341935424	PAGR1	-0.633955817	NME3	0.363214261
SUMO1	-0.309873695	OR1M1	0.245106299	NEK7	-0.43613965	PALLD	-0.266317459	NUCB1	-0.298173401
TAF12	-0.244093663	ORC1	-0.386602299	NOC3L	0.258644975	PDE7B	-0.261527872	NUP98	-0.210698314
TCEB3	-0.300096738	OSBP	-0.260363141	NT5C2	-0.353806158	PEX16	-0.62561786	OMA1	-0.340822428
TCOF1	-0.582391813	OSTC	0.353526173	NTPCR	0.249867221	PFKFB2	-0.278408867	ORC1	-0.312745454
TP53I11	0.24337319	P4HB	0.287704719	NUF2	-0.323597974	PFKP	-1.230178296	OSBP	-0.224894387
TRIP6	-0.367218785	PAF1	0.245794345	NXF1	-0.290915556	PHPT1	0.244380139	PAGR1	-0.511592794
TUBA1B	0.362507855	PAGR1	-0.902370725	OGFOD3	-0.360483478	PLCG1	-0.308275649	PALLD	-0.211137624
TUBA1C	0.356290656	PAIP2	0.233698589	OSBP	-0.408847496	PLD3	-0.304045924	PALM	0.462942701
TWISTNB	-0.276773608	PAPD5	-0.280297955	OSTC	0.236088335	PLOD2	-0.318947388	PAPD5	-0.341795452
UAP1	0.317689442	PBX1	0.316852562	PAFAH1B1	-0.293895571	PNISR	0.191167821	PCGF6	0.316250516
UBE2A	-0.839495701	PDE7B	-0.374846657	PAGR1	-0.886030979	PODXL2	0.263533868	PCM1	-0.314917969
UBE2E1	-0.310424338	PDHB	0.341621686	PDCD5	-0.259408228	POLR2K	-0.438444014	PEX3	0.391162413
UNC45A	0.268841344	PEX16	-0.259649747	PDE7B	-0.335327919	POP1	-0.463568129	PHF20L1	0.391547024
VPS26B	0.297528861	PFAS	-0.226618252	PEX16	-0.419401723	POTEKP	-0.343763157	PJA1	0.196515248
VPS4A	0.295095984	PFKFB2	-0.319003557	PFKFB2	-0.405799538	PPIC	-0.324956011	PKN2	-0.321919142
WDHD1	-0.360503667	PFKL	0.298529111	PFKM	-0.310851328	PPP1R13B	-0.393295953	PLAA	-0.23122803
YBX1	-0.284928326	PFKP	-1.12894572	PFKP	-0.777850603	PPP1R9A	-0.286159181	PLS3	-0.331392324
YTHDF2	-0.3157826	PGM1	0.350395895	PLAA	-0.299063135	PPP2CB	-0.354273633	PNISR	0.235759622
YTHDF3	-0.345485934	PHB	0.524222193	PLCG1	-0.332209926	PPP4R2	0.162753913	POLE3	0.352248521
ZC3H4	-0.303256648	PHB2	0.367943816	PLOD2	-0.289075948	PPP5C	-0.368011128	POTEKP	-0.468783627
ZCCHC3	-0.279740086	PLAA	-0.262888804	POLR2K	-0.353565903	PPP6R3	0.408300184	PPAT	-0.200032684
ZFH4	0.246935407	POLR1A	-0.258880114	POP1	-0.348011969	PQBP1	0.260832761	PPHLN1	0.344516585
ZNF503	-0.258264013	POLR1C	-0.29313799	POTEKP	-0.316462724	PROSER2	0.375119583	PPP2CB	-0.256092231
ZNF770	0.497310683	POLR1E	-0.303422569	PPP1R13B	-0.266014188	PRPF39	0.195508547	PPP3CA	-0.454328729
ZRANB2	-0.310009016	POLR2F	0.274582424	PPP1R9A	-0.27696714	PRR14L	-0.645649407	PPP5C	-0.408701465
		POLR2F	-0.263914048	PPP6R3	0.366154933	PSAP	-0.286233969	PRC1	0.340267361
		POLR2K	-0.446183615	PQBP1	0.299071878	PSMB7	-0.328265683	PROSER2	0.408360073
		POLR2L	-0.280718245	PRKDC	-0.36182495	PSMC4	-0.310410632	PRR14L	-0.565406217

		POP1	-0.400697063	PROCR	-0.359878152	PSMD12	0.339632732	PRSS1	0.513636754
		POTEKP	0.724123032	PROSER2	0.358887678	PSMD7	-0.269179552	PSIP1	0.320295876
		PPA2	0.247929581	PRR14L	-0.544866854	PTGES3	-0.334970252	PSMD12	0.313266873
		PPAT	-0.219622028	PRSS1	0.423864461	PTMA	0.284582309	PSMD6	-0.293658736
		PPIC	0.2967391	PSMB2	-0.274628975	PTMS	0.293317198	PSMG1	-0.406048196
		PPIF	0.309755155	PSMC4	-0.236619523	PWP1	-0.268519286	PSMG3	0.194765011
		PPP1R14B	0.269623333	PSMD13	-0.36413763	PYURF	-0.313713957	PTGES3	-0.436513501
		PPP6R3	0.413093838	PSMD14	-0.361751033	RAB10	-0.273965803	PTRH2	-0.332401114
		PRCC	-0.264025246	PSMD7	-0.293940806	RAB18	0.364109621	PTRH2	-0.332401114
		PRDX3	0.325831527	PTGES3	-0.331765911	RAB5B	-0.321977974	RAB10	-0.212275932
		PRDX6	0.298576641	PTMS	-0.279547393	RANBP1	0.20224131	RAB35	-0.193127411
		PRKAR2B	-0.25324239	PTPN18	0.218450641	RAP1GDS1	-0.335875421	RAI1	-0.328559346
		PRKCSH	0.426105562	PYURF	-0.290552412	RAPGEF3	-0.289479999	RAP1GDS1	-0.194321481
		PRR14L	-0.227527284	RAB18	0.393644252	RDH14	-0.40579057	RAPGEF3	-0.193753429
		PRSS1	0.282055657	RAB35	-0.286394283	RHOT2	0.430380388	RBMX	0.302624957
		PSAP	0.29038553	RABL3	0.303687989	ROMO1	-0.262014305	RCN2	-0.252510891
		PSIP1	0.270410468	RABL6	-0.302967081	RPP38	0.277329561	RCOR3	0.323430632
		PSMD12	0.357519266	RAP1GDS1	-0.329252954	RRM1	-0.258873791	RDH14	-0.327248996
		PSMD13	-0.223663317	RAPGEF3	-0.349225864	RXFP3	1.161003313	RECQL4	-0.292228752
		PTGES3	0.22745667	RDH14	-0.293018688	SAPCD2	-0.484252573	REEP5	-0.194414383
		RAB18	0.931693147	RHOT2	0.255273391	SCYL1	-0.456282278	RIC8A	-0.292138509
		RABL3	0.381974067	RMDN1	-0.233088838	SDF4	0.187127839	RNF114	0.249348253
		RAP1GDS1	-0.223456446	RPL26L1	0.294988125	SDHC	0.319133814	RPL26	0.355459096
		RAP2C	0.272894707	RPL39	-0.347246007	SEC61B	-0.406889442	RPL26L1	0.501164862
		RAPGEF3	-0.352631921	RPLP1	0.406276582	SF3B3	-0.268333853	RPL27	0.296288302
		RHOT2	0.41491212	RPN1	-0.374766022	SIGMAR1	0.314761295	RPL32	0.296842484
		RNF40	-0.289219122	RPS15A	0.323438284	SIPA1L3	0.277329561	RPS27A	0.433563692
		RNMTL1	0.305780778	RPS29	0.219399704	SLC12A4	-0.260314503	RPS29	0.216586466
		ROMO1	-0.287405341	RRM1	-0.28861352	SLC25A10	0.391207117	RSL1D1	-0.222766262
		RPL11	0.247149903	RSAD1	-0.274323224	SLC25A3	0.313638596	RSRC1	0.293548133
		RPLP1	0.2657226	RXFP3	0.764157225	SLC25A5	0.291013238	RXFP3	1.02710619
		RPS15	0.231670062	SAFB	-0.375975387	SLC25A6	0.345630116	SAPCD2	-0.361847958
		RPS29	0.295645218	SAPCD2	-0.365472634	SLC39A7	0.381822541	SBF1	-0.210698314
		RRBP1	-0.377975515	SCYL1	-0.491774253	SMAP	0.298609489	SCYL1	-0.336625609
		RSAD1	-0.269073471	SDF4	0.210366611	SMIM12	-0.306626776	SEC11A	-0.212127052
		RXFP3	0.332539234	SDHC	0.507188371	SNAP29	-0.275438806	SEC24B	-0.327542014
		SAE1	0.274420481	SEC24C	-0.34849231	SNX32	-0.281146701	SEC61B	-0.382865568
		SAPCD2	-0.227535116	SENP1	0.34324141	SOD1	0.241425765	SETMAR	-0.312549744
		SBF1	-0.230725513	SERF2	0.254973119	SPTLC1	0.286351043	SH3GLB1	0.470449981
		SCP2	0.254175489	SF3B3	-0.355907492	SRC	0.323849012	SLBP	0.194013607
		SCYL1	-0.303595689	SIX4	-0.269750526	SRRM1	0.168246824	SNRPF	0.330069042

		SDHC	0.503253997	SLC12A4	-0.349878479	SS18	0.263533868	SNX18	0.192131666
		SEC61B	0.252307588	SLC25A10	0.293123688	STAT5B	0.171827587	SNX32	-0.341948944
		SF3B3	-0.28289445	SLC25A3	0.232901238	STMN1	0.22712901	SRM	-0.404918359
		SF3B4	0.233423838	SLC35F6	-0.259993262	STX18	0.275553045	SS18	0.286614614
		SHMT2	0.325394028	SMAP	0.273881889	SUB1	0.172843263	SSBP1	0.316786529
		SLC25A3	0.400649567	SMARCA2	0.238666526	SURF4	-0.307823846	SSR2	0.321169619
		SLC25A5	0.63341201	SMN1	-0.290282959	TAF12	-0.282400719	SURF4	-0.261767519
		SLC25A6	0.308575662	SNRPF	0.215381044	TCEB3	-0.269918683	SYPL1	0.43447506
		SLC5A6	0.280192385	SNX32	-0.454265883	TEX10	-0.266530718	TACO1	0.304595423
		SLIRP	0.293587164	SPAG9	-0.270474226	TFCP2	0.261802291	TAF7	0.393611813
		SMAP	0.242512344	SPAST	-0.24182774	THOP1	-0.276764547	TANC1	0.213666027
		SNRPC	0.238638004	SPCS1	0.235028598	TIMM23B	0.31448747	THOP1	-0.218940958
		SNRPF	0.485901548	SPTLC1	0.258114045	TMEM97	0.269815747	TLE4	-0.278916246
		SNX32	-0.405406163	SSBP1	0.234271774	TMSB10	0.296292755	TMOD2	0.285702026
		SOD1	0.262857893	STAU2	0.254758676	TOP1	-0.266891162	TMSB10	0.596894905
		SP3	-0.25761403	SUB1	-0.274426534	TPP1	0.282205659	TNPO1	-0.24151057
		SPCS1	0.258816093	SUMO1	-0.243908992	TRIP6	-0.378068353	TRUB1	0.348103669
		SRP9	0.226891728	SURF4	-0.418655697	TRMT1	-0.294583748	TXN2	-0.54321532
		SSBP1	0.250213098	TAF12	-0.267705652	TRUB1	0.246521159	UBA52	0.204647915
		SSBP3	-0.265497688	TARS	-0.335840107	TSNAX	0.326473458	UBE2A	-0.824959839
		STARD7	-0.270753846	TCEB3	-0.303176188	TSR1	-0.267347678	UBE2D3	-0.235646007
		SUB1	-0.294724151	TCOF1	-0.296797933	TUBA1C	0.315782949	UBQLN2	-0.206008651
		SUMF2	0.32372617	TFCP2	0.237522123	TUBB2A	-0.250716593	UBXN1	-0.304996298
		SUMO2	0.294173095	THOP1	-0.384116197	TWISTNB	-0.465514395	UMPS	0.406546816
		TAF15	0.227736067	TIMM23B	0.276149061	TXN2	-0.515007866	UPRT	0.311199245
		TARBP1	0.247526931	TMEM192	0.243328084	UBE2A	-0.892186016	VDAC1	-0.203075968
		TBC1D22A	-0.237435771	TRABD	0.269746753	UBE2Q1	0.352671912	VDAC3	-0.353606114
		TBL1X	-0.31221521	TRIP6	-0.372678099	UBQLN2	-0.486822208	VIM	0.509646957
		TCEB3	-0.355949751	TRMT1	-0.332269444	UBXN1	-0.303402151	VPS26B	0.446219236
		TCOF1	-0.344333319	TRUB1	0.320402465	UMPS	-0.261758593	VPS4B	-0.25895361
		TFG	0.27496231	TSPO	0.276014529	UNC45A	-0.254807182	VPS52	0.229762954
		THOP1	-0.262709858	TSR1	-0.340591252	UNC45A	0.41764516	VTN	0.601159672
		TIMM23B	0.259423732	TTC1	-0.251806347	UQCR10	0.528803227	WARS2	0.320965195
		TMSB10	0.28265838	TUBA1C	0.307700993	VDAC3	-0.326791003	WDR18	-0.194414383
		TNIK	0.531770542	TUBB2A	-0.345043927	VIM	0.413561921	XPOT	-0.218310365
		TRAP1	0.319894477	TWISTNB	-0.293398643	VKORC1L1	-0.282036171	XRCC1	-0.219378357
		TRIP6	-0.386335947	TXN2	-0.407522873	VPS4A	0.285761947	YWHAB	-0.261109976
		TRMT1	-0.295944519	UBAP2L	-0.239026733	VPS4B	-0.275188547	ZCCHC3	-0.316855189
		TSPYL1	0.291178656	UBE2A	-0.849961025	VTN	0.801930718	ZFH4	0.548190039
		TUBA1B	0.395466636	UBE2E1	-0.338544375	WLS	-0.365833819	ZNF503	0.357190649
		TUBA1C	0.471246419	UBQLN2	-0.533395195	XPOT	-0.27881383	ZNF770	0.317782013

		TUBB	0.312926441	UBXN1	-0.297552402	XRCC1	-0.269213737		
		TUBB4A	0.293671533	UCHL1	-0.37154306	YWHAB	-0.351949839		
		TUBB4B	0.4437489	UGDH	-0.33201802	ZC3H4	-0.373634222		
		TUFM	0.267032784	UNC45A	-0.344025899	ZCCHC3	-0.4459702		
		TWISTNB	-0.510116131	UPRT	0.328623828	ZNF687	0.271599153		
		UAP1	0.362792125	VAR5	-0.300088406	ZNF770	0.377211323		
		UBE2Q1	0.328502496	VDAC3	-0.3044461	ZNF787	-0.256020733		
		UNC45A	0.281457635	VIM	0.567393962				
		UQCRC1	0.566006472	VKORC1L1	-0.24555434				
		USMG5	0.260163341	VPS4A	0.233847304				
		VAPA	0.240333618	VPS4B	-0.289591132				
		VAR5	-0.224041817	VTN	0.463820195				
		VDAC1	0.500569412	WASL	-0.29162164				
		VDAC2	0.309128037	WDHD1	-0.258315821				
		VIM	0.337014238	WDR1	-0.342584339				
		VPS26B	0.281157136	XPO1	-0.288833023				
		VPS4B	-0.264477595	XPOT	-0.434711182				
		WARS	0.286364406	YKT6	-0.355732125				
		WDHD1	-0.350371352	YWHAQ	-0.263782379				
		WDR74	-0.281001088	ZC3H4	-0.315802816				
		YBX1	-0.262427682	ZC3HAV1	-0.333918517				
		YTHDF2	-0.332185987	ZCCHC3	-0.319705956				
		YTHDF3	-0.283151122	ZFHX4	0.353352324				
		ZCCHC3	-0.294115599	ZNF770	0.384808739				
		ZRANB2	-0.261714359	ZYX	-0.474780634				