

Supplementary information

An ionic liquid-assisted sample preparation method for sensitive integral-membrane proteome analysis

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Table S1. List of tryptic digests of BSA and lysozyme alkylated or unalkylated in *i*-soln and tryptic digests alkylated in Tris buffer, as identified by LC-MSe

BSA	<i>i</i> -soln			<i>i</i> -soln, alkylated			Tris buffer, alkylated		
	Identified peptide	Start position	Modification	Identified peptide	Start position	Modification	Identified peptide	Start position	Modification
1	FKDLGEEHFK	34	None	FKDLGEEHFK	34	None	FKDLGEEHFK	34	None
2	LVNELTEFAK	65	None	LVNELTEFAK	65	None	LVNELTEFAK	65	None
3	DDSPDLPK	130	None	DDSPDLPK	130	None	DDSPDLPK	130	None
4	YLYEIAR	160	None	YLYEIAR	160	None	YLYEIAR	160	None
5	HPYFYAPELLYYANK	168	None	HPYFYAPELLYYANK	168	None	HPYFYAPELLYYANK	168	None
6	AWSVAR	235	None	AWSVAR	235	None	AWSVAR	235	None
7	AEFVEVTK	248	None	AEFVEVTK	248	None	AEFVEVTK	248	None
8	LVTDLTK	256	None	LVTDLTK	256	None	LVTDLTK	256	None
9	DAIPENLPPLTADFAEDK	318	None	DAIPENLPPLTADFAEDK	318	None	DAIPENLPPLTADFAEDK	318	None
10				NYQEAKDAFLGSFLYEYSR	340	None	NYQEAKDAFLGSFLYEYSR	340	None
11	DAFLGSFLYEYSR	346	None	DAFLGSFLYEYSR	346	None	DAFLGSFLYEYSR	346	None
12	DAFLGSFLYEYSRR	346	None	DAFLGSFLYEYSRR	346	None	DAFLGSFLYEYSRR	346	None
13	HPEYAVSVLLR	360	None	HPEYAVSVLLR	360	None	HPEYAVSVLLR	360	None
14	HLVDEPQNLIK	401	None	HLVDEPQNLIK	401	None	HLVDEPQNLIK	401	None
15	LGEYGFQNALIVR	420	None	LGEYGFQNALIVR	420	None	LGEYGFQNALIVR	420	None

16	VPQVSTPTLVEVSR	437	None	VPQVSTPTLVEVSR	437	None	VPQVSTPTLVEVSR	437	None
17	QTALVELLK	548	None	QTALVELLK	548	None	QTALVELLK	548	None
18	ATEEQLK	561	None	ATEEQLK	561	None			
19	TVMENFVAFVDK	568	None	TVMENFVAFVDK	568	None	TVMENFVAFVDK	568	None
20	TVMENFVAFVDK	568	Oxidation+M(3)	TVMENFVAFVDK	568	Oxidation+M(3)	TVMENFVAFVDK	568	Oxidation+M(3)
21	LVVSTQTALA	597	None	LVVSTQTALA	597	None	LVVSTQTALA	597	None
22				GLVLIAFSQYLQQCPFDEHVK	44	Carbamidomethyl+C(14)	GLVLIAFSQYLQQCPFDEHVK	44	Carbamidomethyl+C(14)
23				SLHTLFGDELCK	88	Carbamidomethyl+C(11)	SLHTLFGDELCK	88	Carbamidomethyl+C(11)
24				NECFLSHKDDSPDLPK	122	Carbamidomethyl+C(3)	NECFLSHKDDSPDLPK	122	Carbamidomethyl+C(3)
25				LKPDPNTLCDEFK	138	Carbamidomethyl+C(9)	LKPDPNTLCDEFK	138	Carbamidomethyl+C(9)
26				GACLLPK	197	Carbamidomethyl+C(3)	GACLLPK	197	Carbamidomethyl+C(3)
27				YICDNQDTISSK	285	Carbamidomethyl+C(3)	YICDNQDTISSK	285	Carbamidomethyl+C(3)
28				DAIPENLPPLTADFAEDKDVCK	318	Carbamidomethyl+C(21)	DAIPENLPPLTADFAEDKDVCK	318	Carbamidomethyl+C(21)
29				EYEATLEECCA	374	Carbamidomethyl+C(9); Carbamidomethyl+C(14)			
30							DDPHACYSTVFDK	386	Carbamidomethyl+C(6)
31				MPCTEDYLSLILNR	468	Carbamidomethyl+C(3)	MPCTEDYLSLILNR	468	Carbamidomethyl+C(3)
32				MPCTEDYLSLILNR	468	Carbamidomethyl+C(3); Oxidation+M(1)	MPCTEDYLSLILNR	468	Carbamidomethyl+C(3); Oxidation+M(1)
33				RPCFSALTPDETYVPK	507	Carbamidomethyl+C(3)	RPCFSALTPDETYVPK	507	Carbamidomethyl+C(3)
34				LFTFHADICTLPDTEK	528	Carbamidomethyl+C(9)	LFTFHADICTLPDTEK	528	Carbamidomethyl+C(9)

35				CCAADDKEACFAVEGPK	580	Carbamidomethyl+C(1);			
36				EACFAVEGPK	587	Carbamidomethyl+C(3)	EACFAVEGPK	587	Carbamidomethyl+C(3)
Lysozym	<i>i</i> -soln			<i>i</i> -soln, alkylated			Tris buffer, alkylated		
	Identified peptide	Start position	Modification	Identified peptide	Start position	Modification	Identified peptide	Start position	Modification
1	HGLDNYR	32	None	HGLDNYR	32	None	HGLDNYR	32	None
2	FESNFNTQATNR	51	None	FESNFNTQATNR	51	None	FESNFNTQATNR	51	None
3	NTDGSTDYGILQINSR	63	None	NTDGSTDYGILQINSR	63	None	NTDGSTDYGILQINSR	63	None
4				IVSDGNGMNAWVAWR	115	None	IVSDGNGMNAWVAWR	115	None
5	GTDVQAWIR	134	None	GTDVQAWIR	134	None	GTDVQAWIR	134	None
6				CELAAAMK	23	Carbamidomethyl+C(1)	CELAAAMK	23	Carbamidomethyl+C(1)
7				CELAAAMKR	23	Carbamidomethyl+C(1)	CELAAAMKR	23	Carbamidomethyl+C(1)
8				GYS LGNWVCAAK	39	Carbamidomethyl+C(9)	GYS LGNWVCAAK	39	Carbamidomethyl+C(9)
9				WWCNDGR	79	Carbamidomethyl+C(3)	WWCNDGR	79	Carbamidomethyl+C(3)
10				IVSDGNGMNAWVAWR	115	Oxidation+M(8)	IVSDGNGMNAWVAWR	115	Oxidation+M(8)

Red highlights indicate Cys-containing peptides.

Table S2. Summary of proteins identified by pTRUST and LC-MS/MS in the WG fraction prepared from human red blood cells

Accession	Gene name	Protein	Peptides identified from Experiment 1	Peptides identified from Experiment 2	Peptides identified from Experiment 3	Number of transmembrane domain (TMD)	Transmembrane region
1433B_HUMAN	YWHAB	14-3-3 protein beta/alpha	3	1	1	NONE	0
1433E_HUMAN	YWHAE	14-3-3 protein epsilon	2	1	1	NONE	0
1433F_HUMAN	YWHAH	14-3-3 protein eta	2	1	1	NONE	0
1433G_HUMAN	YWHAG	14-3-3 protein gamma	2	1	1	NONE	0
1433S_HUMAN	SFN	14-3-3 protein sigma	2	1	1	NONE	0
1433T_HUMAN	YWHAQ	14-3-3 protein theta	3	2	2	NONE	0
1433Z_HUMAN	YWHAZ	14-3-3 protein zeta/delta	2	1	2	NONE	0
2AAA_HUMAN	PPP2R1A	Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform	5	6	7	NONE	0
2AAB_HUMAN	PPP2R1B	Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A beta isoform	1	4	3	NONE	0
3BHS1_HUMAN	HSD3B1	3 beta-hydroxysteroid dehydrogenase/Delta 5-->4-isomerase type 1	0	1	1	NONE	0
41_HUMAN	EPB41	Protein 4.1	23	23	24	NONE	0
6PGD_HUMAN	PGD	6-phosphogluconate dehydrogenase, decarboxylating	2	1	2	NONE	0
A16A1_HUMAN	ALDH16A1	Aldehyde dehydrogenase family 16 member A1	0	3	3	5	164-186,190-212,219-241,588-610,673-695
A1AT_HUMAN	SERPINA1	Alpha-1-antitrypsin	0	3	2	1	4-25
A2MG_HUMAN	A2M	Alpha-2-macroglobulin	1	4	4	NONE	0
ABCA7_HUMAN	ABCA7	ATP-binding cassette sub-family A member 7	0	1	0	12	23-45,543-565,590-612,627-649,654-676,728-750,1240-1262,1532-1554,1586-1607,1612-1634,1650-1672,1731-1753
ABCE1_HUMAN	ABCE1	ATP-binding cassette sub-family E member 1	1	1	1	NONE	0
ABHD15_HUMAN	ABHD15	Protein ABHD15	1	0	0	2	5-24,157-179
ACLY_HUMAN	ACLY	ATP-citrate synthase	2	6	6	NONE	0
ACTA_HUMAN	ACTA2	Actin, aortic smooth muscle	13	14	11	NONE	0
ACTB_HUMAN	ACTB	Actin, cytoplasmic 1	20	22	19	NONE	0
ACTBL_HUMAN	ACTBL2	Beta-actin-like protein 2	6	8	5	NONE	0
ACTBM_HUMAN	POTEKP	Putative beta-actin-like protein 3	4	5	4	NONE	0
ACTC_HUMAN	ACTC1	Actin, alpha cardiac muscle 1	14	15	12	NONE	0
ACTG_HUMAN	ACTG1	Actin, cytoplasmic 2	20	22	19	NONE	0
ACTH_HUMAN	ACTG2	Actin, gamma-enteric smooth muscle	13	14	11	NONE	0
ACTS_HUMAN	ACTA1	Actin, alpha skeletal muscle	14	15	12	NONE	0
ADDA_HUMAN	ADD1	Alpha-adducin	2	1	1	NONE	0
ADDB_HUMAN	ADD2	Beta-adducin	2	2	2	NONE	0
AGO1_HUMAN	AGO1	Protein argonaute-1	0	1	1	NONE	0
AGO2_HUMAN	AGO2	Protein argonaute-2	0	2	2	NONE	0
AGO3_HUMAN	AGO3	Protein argonaute-3	0	1	1	NONE	0
AIP_HUMAN	AIP	AH receptor-interacting protein	0	1	1	NONE	0
AL9A1_HUMAN	ALDH9A1	4-trimethylaminobutyraldehyde dehydrogenase	0	2	0	NONE	0
ALBU_HUMAN	ALB	Serum albumin	22	25	22	NONE	0
ALDOA_HUMAN	ALDOA	Fructose-bisphosphate aldolase A	1	1	0	NONE	0
ALDOB_HUMAN	ALDOB	Fructose-bisphosphate aldolase B	0	1	0	NONE	0
ALDOC_HUMAN	ALDOC	Fructose-bisphosphate aldolase C	0	1	0	NONE	0
AMBP_HUMAN	AMBP	Protein AMBP	0	0	1	NONE	0
ANK1_HUMAN	ANK1	Ankyrin-1	67	67	70	NONE	0
ANK2_HUMAN	ANK2	Ankyrin-2	5	6	6	NONE	0
ANK3_HUMAN	ANK3	Ankyrin-3	7	8	7	NONE	0
ANXA7_HUMAN	ANXA7	Annexin A7	1	1	1	NONE	0
APOA_HUMAN	LPA	Apolipoprotein(a)	0	31	31	NONE	0
APOA1_HUMAN	APOA1	Apolipoprotein A-I	5	5	5	NONE	0
APOA2_HUMAN	APOA2	Apolipoprotein A-II	0	2	2	1	1-21
APOB_HUMAN	APOB	Apolipoprotein B-100	11	14	16	1	6-28
APOC3_HUMAN	APOC3	Apolipoprotein C-III	0	0	1	1	4-22

APOD_HUMAN	APOD	Apolipoprotein D	0	1	0	NONE	0
APOE_HUMAN	APOE	Apolipoprotein E	2	2	2	1	1-23
APOH_HUMAN	APOH	Beta-2-glycoprotein 1	1	1	0	1	1-23
APOL1_HUMAN	APOL1	Apolipoprotein L1	0	1	0	2	5-27,334-356
ARF1_HUMAN	ARF1	ADP-ribosylation factor 1	0	1	1	NONE	0
ARF3_HUMAN	ARF3	ADP-ribosylation factor 3	0	1	1	NONE	0
ARF4_HUMAN	ARF4	ADP-ribosylation factor 4	0	1	1	NONE	0
ARF5_HUMAN	ARF5	ADP-ribosylation factor 5	0	1	1	NONE	0
ARHGC_HUMAN	ARHGEF12	Rho guanine nucleotide exchange factor 12	0	0	1	NONE	0
ARK72_HUMAN	AKR7A2	Aflatoxin B1 aldehyde reductase member 2	1	1	1	NONE	0
AT2A2_HUMAN	ATP2A2	Sarcoplasmic/endoplasmic reticulum calcium ATPase 2	0	1	1	10	58-80,86-108,258-280,299-321,775-797,831-853,895-917,933-955,961-983,1013-1035
AT2B1_HUMAN	ATP2B1	Plasma membrane calcium-transporting ATPase 1	1	1	1	10	101-123,155-175,272-293,373-395,421-443,857-879,934-956,971-990,1006-1028,1040-1062
AT2B2_HUMAN	ATP2B2	Plasma membrane calcium-transporting ATPase 2	1	1	1	9	98-120,149-170,194-216,401-423,445-467,880-902,957-979,1030-1052,1062-1084
AT2B3_HUMAN	ATP2B3	Plasma membrane calcium-transporting ATPase 3	1	1	1	9	102-124,152-173,197-219,373-395,419-441,854-876,933-955,1000-1022,1036-1058
AT2B4_HUMAN	ATP2B4	Plasma membrane calcium-transporting ATPase 4	1	1	1	8	97-119,147-168,367-389,411-433,845-867,922-944,993-1015,1026-1048
AT5F1_HUMAN	ATP5PB	ATP synthase F(0) complex subunit B1, mitochondrial	0	1	1	NONE	0
ATG3_HUMAN	ATG3	Ubiquitin-like-conjugating enzyme ATG3	0	0	1	NONE	0
B3AT_HUMAN	SLC4A1	Band 3 anion transport protein	36	40	41	12	405-427,445-467,491-513,522-544,567-588,605-627,664-686,700-722,759-781,790-812,831-853,856-878
BACH_HUMAN	ACOT7	Cytosolic acyl coenzyme A thioester hydrolase	1	0	0	NONE	0
BAT1_HUMAN	SLC7A9	b(0,+)-type amino acid transporter 1	0	1	0	11	32-53,67-89,115-137,147-169,181-202,260-282,295-317,349-371,377-399,407-429,438-460
BCAT1_HUMAN	BCAT1	Branched-chain-amino-acid aminotransferase, cytosolic	1	0	0	NONE	0
BIEA_HUMAN	BLVRA	Biliverdin reductase A	0	2	3	NONE	0
BLK_HUMAN	BLK	Tyrosine-protein kinase Blk	1	0	0	NONE	0
BLVRB_HUMAN	BLVRB	Flavin reductase (NADPH)	13	12	12	NONE	0
BROMI_HUMAN	TBC1D32	Protein broad-minded	0	0	1	3	424-445,458-480,546-568
BROX_HUMAN	BROX	BRO1 domain-containing protein BROX	2	2	2	NONE	0
C19L2_HUMAN	CWF19L2	CWF19-like protein 2	0	1	0	NONE	0
C1TC_HUMAN	MTHFD1	C-1-tetrahydrofolate synthase, cytoplasmic	6	8	7	NONE	0
CA094_HUMAN	C1orf94	Uncharacterized protein C1orf94	0	1	0	NONE	0
CA2D4_HUMAN	CACNA2D4	Voltage-dependent calcium channel subunit alpha-2/delta-4	1	0	0	1	1115-1137
CAH1_HUMAN	CA1	Carbonic anhydrase 1	12	11	13	NONE	0
CAH2_HUMAN	CA2	Carbonic anhydrase 2	9	15	0	NONE	0
CAH3_HUMAN	CA3	Carbonic anhydrase 3	3	2	1	NONE	0
CAN1_HUMAN	CAPN1	Calpain-1 catalytic subunit	16	16	17	NONE	0
CAND1_HUMAN	CAND1	Cullin-associated NEDD8-dissociated protein 1	12	13	15	NONE	0
CAP7_HUMAN	AZU1	Azurocidin	0	1	1	NONE	0
CARD6_HUMAN	CARD6	Caspase recruitment domain-containing protein 6	0	1	0	NONE	0
CATA_HUMAN	CAT	Catalase	1	0	0	NONE	0
CATG_HUMAN	CTSG	Cathepsin G	1	0	0	NONE	0
CBR1_HUMAN	CBR1	Carbonyl reductase [NADPH] 1	1	1	1	NONE	0
CBR3_HUMAN	CBR3	Carbonyl reductase [NADPH] 3	1	1	1	NONE	0
CD44_HUMAN	CD44	CD44 antigen	1	0	0	2	3-25,649-670
CD47_HUMAN	CD47	Leukocyte surface antigen CD47	0	2	1	6	1-23,140-162,177-199,207-229,238-260,272-294
CD59_HUMAN	CD59	CD59 glycoprotein	1	1	3	2	2-24,106-128
CD99_HUMAN	CD99	CD99 antigen	1	1	1	2	6-28,124-146
CDC42_HUMAN	CDC42	Cell division control protein 42 homolog	0	0	1	NONE	0
CDK20_HUMAN	CDK20	Cyclin-dependent kinase 20	1	0	0	NONE	0
CEAM8_HUMAN	CEACAM8	Carcinoembryonic antigen-related cell adhesion molecule 8	0	1	0	2	12-31,328-349
CFAH_HUMAN	CFH	Complement factor H	1	1	1	1	1-23
CH60_HUMAN	HSPD1	60 kDa heat shock protein, mitochondrial	0	1	1	NONE	0
CH60_HUMAN	HSPD1	60 kDa heat shock protein, mitochondrial	0	1	0	NONE	0
CHST4_HUMAN	CHST4	Carbohydrate sulfotransferase 4	1	1	1	2	8-30,45-67
CIA2A_HUMAN	CIAO2A	Cytosolic iron-sulfur assembly component 2A	1	0	0	NONE	0
CLH1_HUMAN	CLTC	Clathrin heavy chain 1	12	12	8	NONE	0
CLH2_HUMAN	CLTCL1	Clathrin heavy chain 2	2	1	0	NONE	0
CLIC1_HUMAN	CLIC1	Chloride intracellular channel protein 1	1	3	3	NONE	0
CLIC2_HUMAN	CLIC2	Chloride intracellular channel protein 2	0	1	0	NONE	0
CLUS_HUMAN	CLU	Clusterin	1	0	2	NONE	0

CO3_HUMAN	C3	Complement C3	4	5	4	2	11-33,1082-1104
COASY_HUMAN	COASY	Bifunctional coenzyme A synthase	0	0	1	NONE	0
CODA1_HUMAN	COL13A1	Collagen alpha-1(XIII) chain	1	1	1	NONE	0
COF1_HUMAN	CFL1	Cofilin-1	3	3	5	NONE	0
COF2_HUMAN	CFL2	Cofilin-2	1	1	1	NONE	0
COPB_HUMAN	COPB1	Coatomer subunit beta	1	0	1	NONE	0
COR1A_HUMAN	CORO1A	Coronin-1A	1	1	1	NONE	0
CORO7_HUMAN	CORO7	Coronin-7	1	0	1	NONE	0
COX3_HUMAN	MT-CO3	Cytochrome c oxidase subunit 3	0	1	0	7	13-34,37-59,79-101,130-152,161-183,199-221,240-261
CPNS1_HUMAN	CAPNS1	Calpain small subunit 1	3	3	3	NONE	0
CPNS2_HUMAN	CAPNS2	Calpain small subunit 2	1	1	1	NONE	0
CRCC2_HUMAN	CROCC2	Putative ciliary rootlet coiled-coil protein 2	1	1	0	NONE	0
CSKP_HUMAN	CASK	Peripheral plasma membrane protein CASK	1	0	0	1	200-222
CSN2_HUMAN	COPS2	COP9 signalosome complex subunit 2	0	2	1	NONE	0
CSN4_HUMAN	COPS4	COP9 signalosome complex subunit 4	2	0	1	NONE	0
CUL1_HUMAN	CUL1	Cullin-1	0	1	1	NONE	0
CUL2_HUMAN	CUL2	Cullin-2	0	1	1	NONE	0
CUL3_HUMAN	CUL3	Cullin-3	1	1	0	NONE	0
CYBR1_HUMAN	CYBRD1	Cytochrome b reductase 1	0	0	1	6	10-32,51-73,87-109,128-150,165-187,200-222
CYH2_HUMAN	CYTH2	Cytohesin-2	0	1	0	NONE	0
CYH3_HUMAN	CYTH3	Cytohesin-3	0	1	0	NONE	0
DBNL_HUMAN	DBNL	Drebrin-like protein	1	1	0	NONE	0
DCD_HUMAN	DCD	Dermcidin	1	1	1	1	1-20
DCNL1_HUMAN	DCUN1D1	DCN1-like protein 1	0	1	0	NONE	0
DCR1C_HUMAN	DCLRE1C	Protein artemis	1	0	0	NONE	0
DCTN1_HUMAN	DCTN1	Dynactin subunit 1	0	4	2	NONE	0
DCXR_HUMAN	DCXR	L-xylulose reductase	0	0	1	NONE	0
DEF1_HUMAN	DEFA1	Neutrophil defensin 1	4	2	4	NONE	0
DEF3_HUMAN	DEFA3	Neutrophil defensin 3	4	2	4	NONE	0
DEMA_HUMAN	DMTN	Dematin	0	1	1	NONE	0
DESP_HUMAN	DSP	Desmoplakin	1	0	0	NONE	0
DHSO_HUMAN	SORD	Sorbitol dehydrogenase	1	1	1	NONE	0
DIAP1_HUMAN	DIAPH1	Protein diaphanous homolog 1	0	1	1	NONE	0
DICER_HUMAN	DICER1	Endoribonuclease Dicer	1	0	0	NONE	0
DJC13_HUMAN	DNAJC13	DnaJ homolog subfamily C member 13	0	1	1	1	1976-1996
DOT1L_HUMAN	DOT1L	Histone-lysine N-methyltransferase, H3 lysine-79 specific	1	1	1	NONE	0
DPOLA_HUMAN	POLA1	DNA polymerase alpha catalytic subunit	1	1	0	NONE	0
E2F7_HUMAN	E2F7	Transcription factor E2F7	1	1	1	NONE	0
E41L3_HUMAN	EPB41L3	Band 4.1-like protein 3	2	1	2	1	636-658
EF1A1_HUMAN	EEF1A1	Elongation factor 1-alpha 1	4	3	5	NONE	0
EF1A2_HUMAN	EEF1A2	Elongation factor 1-alpha 2	3	3	3	NONE	0
EF1A3_HUMAN	EEF1A1P5	Putative elongation factor 1-alpha-like 3	4	3	5	NONE	0
EF1D_HUMAN	EEF1D	Elongation factor 1-delta	0	1	0	NONE	0
EHMT2_HUMAN	EHMT2	Histone-lysine N-methyltransferase EHMT2	0	1	0	NONE	0
ELNE_HUMAN	ELANE	Neutrophil elastase	1	1	1	2	7-29,203-225
EM55_HUMAN	MPP1	55 kDa erythrocyte membrane protein	7	7	6	NONE	0
EMIL1_HUMAN	EMILIN1	EMILIN-1	1	1	1	1	3-24
ENOA_HUMAN	ENO1	Alpha-enolase	0	1	1	NONE	0
EPB42_HUMAN	EPB42	Erythrocyte membrane protein band 4.2	25	23	22	1	267-289
ESPL1_HUMAN	ESPL1	Separin	0	1	1	NONE	0
ESTD_HUMAN	ESD	S-formylglutathione hydrolase	2	1	3	NONE	0
F10A1_HUMAN	ST13	Hsc70-interacting protein	0	1	1	NONE	0
F13A_HUMAN	F13A1	Coagulation factor XIII A chain	1	1	1	NONE	0
FBX10_HUMAN	FBXO10	F-box only protein 10	1	1	1	NONE	0
FBX7_HUMAN	FBXO7	F-box only protein 7	1	1	0	NONE	0
FCL_HUMAN	TSTA3	GDP-L-fucose synthase	2	1	1	NONE	0
FCN3_HUMAN	FCN3	Ficolin-3	0	1	0	1	1-22
FGFR1_HUMAN	FGFR1	Fibroblast growth factor receptor 1	1	0	0	2	3-25,373-395

FGFR2_HUMAN	FGFR2	Fibroblast growth factor receptor 2	1	0	0	2	1-23,378-399
FGFR3_HUMAN	FGFR3	Fibroblast growth factor receptor 3	1	0	0	2	2-23,374-396
FGFR4_HUMAN	FGFR4	Fibroblast growth factor receptor 4	1	0	0	3	2-24,330-351,369-391
FGR_HUMAN	FGR	Tyrosine-protein kinase Fgr	1	0	0	NONE	0
FIBA_HUMAN	FGA	Fibrinogen alpha chain	38	38	40	1	1-20
FIBB_HUMAN	FGB	Fibrinogen beta chain	21	26	27	1	13-34
FIBG_HUMAN	FGG	Fibrinogen gamma chain	24	23	27	NONE	0
FILA2_HUMAN	FLG2	Filaggrin-2	0	2	0	NONE	0
FINC_HUMAN	FN1	Fibronectin	12	9	8	NONE	0
FLII_HUMAN	FLII	Protein flightless-1 homolog	1	1	1	NONE	0
FLNA_HUMAN	FLNA	Filamin-A	0	25	24	NONE	0
FLNA_HUMAN	FLNA	Filamin-A	0	25	0	NONE	0
FLNB_HUMAN	FLNB	Filamin-B	1	1	1	NONE	0
FLNC_HUMAN	FLNC	Filamin-C	3	2	2	1	124-146
FLOT1_HUMAN	FLOT1	Flotillin-1	7	4	6	NONE	0
FLOT2_HUMAN	FLOT2	Flotillin-2	5	5	7	NONE	0
FMNL1_HUMAN	FMNL1	Formin-like protein 1	1	0	0	NONE	0
FN3K_HUMAN	FN3K	Fructosamine-3-kinase	1	0	3	NONE	0
FSCN1_HUMAN	FSCN1	Fascin	1	1	0	NONE	0
FYN_HUMAN	FYN	Tyrosine-protein kinase Fyn	1	0	0	NONE	0
G3P_HUMAN	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase	2	4	3	NONE	0
G6PD_HUMAN	G6PD	Glucose-6-phosphate 1-dehydrogenase	2	2	1	NONE	0
GAPD1_HUMAN	GAPVD1	GTPase-activating protein and VPS9 domain-containing protein 1	3	4	2	NONE	0
GBF1_HUMAN	GBF1	Golgi-specific brefeldin A-resistance guanine nucleotide exchange factor 1	0	0	1	NONE	0
GFAP_HUMAN	GFAP	Glial fibrillary acidic protein	1	0	0	NONE	0
GDIA_HUMAN	GDI1	Rab GDP dissociation inhibitor alpha	0	1	0	NONE	0
GDI2_HUMAN	GDI2	Rab GDP dissociation inhibitor beta	0	1	0	NONE	0
GFAP_HUMAN	GFAP	Glial fibrillary acidic protein	0	1	0	NONE	0
GLO2_HUMAN	HAGH	Hydroxyacylglutathione hydrolase, mitochondrial	0	1	1	NONE	0
GLU2B_HUMAN	PRKCSH	Glucosidase 2 subunit beta	1	1	0	NONE	0
GLOD4_HUMAN	GLOD4	Glyoxalase domain-containing protein 4	0	0	1	NONE	0
GMPPA_HUMAN	GMPPA	Mannose-1-phosphate guanyltransferase alpha	1	0	0	NONE	0
GNA12_HUMAN	GNA12	Guanine nucleotide-binding protein subunit alpha-12	1	1	1	NONE	0
GNA13_HUMAN	GNA13	Guanine nucleotide-binding protein subunit alpha-13	2	2	1	NONE	0
GNAQ_HUMAN	GNAQ	Guanine nucleotide-binding protein G(q) subunit alpha	0	1	1	NONE	0
GP1BA_HUMAN	GP1BA	Platelet glycoprotein Ib alpha chain	1	1	1	1	528-550
GPIX_HUMAN	GP9	Platelet glycoprotein IX	0	0	1	1	150-172
GRDN_HUMAN	CCDC88A	Girdin	1	0	1	NONE	0
GRID1_HUMAN	GRID1	Glutamate receptor ionotropic, delta-1	0	1	1	5	1-23,558-580,603-625,631-653,830-852
GRIP2_HUMAN	GRIP2	Glutamate receptor-interacting protein 2	1	0	0	NONE	0
GRN_HUMAN	GRN	Progranulin	1	0	0	NONE	0
GSH0_HUMAN	GCLM	Glutamate--cysteine ligase regulatory subunit	1	2	5	NONE	0
GSH1_HUMAN	GCLC	Glutamate--cysteine ligase catalytic subunit	3	5	5	NONE	0
GSTO1_HUMAN	GSTO1	Glutathione S-transferase omega-1	6	4	4	NONE	0
GTR1_HUMAN	SLC2A1	Solute carrier family 2, facilitated glucose transporter member 1	13	13	13	12	8-30,62-84,94-116,122-144,156-178,186-208,271-293,308-330,335-357,362-384,402-424,430-452
GTR14_HUMAN	SLC2A14	Solute carrier family 2, facilitated glucose transporter member 14	1	1	1	11	17-39,86-108,116-138,144-166,179-201,208-230,293-315,329-351,358-380,386-408,445-467
GTR3_HUMAN	SLC2A3	Solute carrier family 2, facilitated glucose transporter member 3	1	1	1	12	3-25,57-79,92-114,121-143,155-177,184-206,269-291,305-327,334-356,362-384,401-423,428-450
H2A1_HUMAN	HIST1H2AG	Histone H2A type 1	1	1	2	NONE	0
H2A1A_HUMAN	HIST1H2AA	Histone H2A type 1-A	1	1	1	NONE	0
H2A1B_HUMAN	HIST1H2AB	Histone H2A type 1-B/E	1	1	1	NONE	0
H2A1C_HUMAN	HIST1H2AC	Histone H2A type 1-C	1	1	1	NONE	0
H2A1D_HUMAN	HIST1H2AD	Histone H2A type 1-D	1	1	2	NONE	0
H2A1H_HUMAN	HIST1H2AH	Histone H2A type 1-H	1	1	2	NONE	0
H2A1J_HUMAN	HIST1H2AJ	Histone H2A type 1-J	1	1	2	NONE	0
H2A2A_HUMAN	HIST2H2AA	Histone H2A type 2-A	1	1	2	NONE	0
H2A2B_HUMAN	HIST2H2AB	Histone H2A type 2-B	1	0	1	NONE	0
H2A2C_HUMAN	HIST2H2AC	Histone H2A type 2-C	1	1	2	NONE	0

H2A3_HUMAN	HIST3H2A	Histone H2A type 3	1	1	1	NONE	0
H2AJ_HUMAN	H2AFJ	Histone H2A.J	1	1	2	NONE	0
H2AV_HUMAN	H2AFV	Histone H2A.V	1	1	1	NONE	0
H2AX_HUMAN	H2AFX	Histone H2A.X	1	1	1	NONE	0
H2AZ_HUMAN	H2AFZ	Histone H2A.Z	1	1	1	NONE	0
H2B1A_HUMAN	HIST1H2BA	Histone H2B type 1-A	2	2	2	NONE	0
H2B1B_HUMAN	HIST1H2BB	Histone H2B type 1-B	2	2	2	NONE	0
H2B1C_HUMAN	HIST1H2BC	Histone H2B type 1-C/E/F/G/I	2	2	2	NONE	0
H2B1D_HUMAN	HIST1H2BD	Histone H2B type 1-D	2	2	2	NONE	0
H2B1D_HUMAN	HIST1H2BD	Histone H2B type 1-D	2	0	0	NONE	0
H2B1H_HUMAN	HIST1H2BH	Histone H2B type 1-H	2	2	2	NONE	0
H2B1J_HUMAN	HIST1H2BJ	Histone H2B type 1-J	2	2	2	NONE	0
H2B1K_HUMAN	HIST1H2BK	Histone H2B type 1-K	2	2	2	NONE	0
H2B1L_HUMAN	HIST1H2BL	Histone H2B type 1-L	2	2	2	NONE	0
H2B1M_HUMAN	HIST1H2BM	Histone H2B type 1-M	2	2	2	NONE	0
H2B1N_HUMAN	HIST1H2BN	Histone H2B type 1-N	2	2	2	NONE	0
H2B1O_HUMAN	HIST1H2BO	Histone H2B type 1-O	2	2	2	NONE	0
H2B2E_HUMAN	HIST2H2BE	Histone H2B type 2-E	2	2	2	NONE	0
H2B2F_HUMAN	HIST2H2BF	Histone H2B type 2-F	2	2	2	NONE	0
H2B3B_HUMAN	HIST3H2BB	Histone H2B type 3-B	2	2	2	NONE	0
H2BFS_HUMAN	H2BFS	Histone H2B type F-S	2	2	2	NONE	0
H31_HUMAN	HIST1H3A	Histone H3.1	3	2	2	NONE	0
H31T_HUMAN	HIST3H3	Histone H3.1t	3	2	2	NONE	0
H32_HUMAN	HIST2H3A	Histone H3.2	3	2	2	NONE	0
H33_HUMAN	H3F3A	Histone H3.3	3	2	2	NONE	0
H3C_HUMAN	H3F3C	Histone H3.3C	2	1	2	NONE	0
H4_HUMAN	HIST1H4A	Histone H4	4	5	6	NONE	0
HAP1_HUMAN	HAP1	Huntingtin-associated protein 1	1	0	0	NONE	0
HBA_HUMAN	HBA1	Hemoglobin subunit alpha	20	21	20	NONE	0
HBAT_HUMAN	HBQ1	Hemoglobin subunit theta-1	1	2	0	NONE	0
HBAZ_HUMAN	HBZ	Hemoglobin subunit zeta	2	2	3	NONE	0
HBB_HUMAN	HBB	Hemoglobin subunit beta	19	21	23	NONE	0
HBD_HUMAN	HBD	Hemoglobin subunit delta	17	17	16	NONE	0
HBE_HUMAN	HBE1	Hemoglobin subunit epsilon	1	1	1	NONE	0
HBG1_HUMAN	HBG1	Hemoglobin subunit gamma-1	5	8	7	NONE	0
HBG2_HUMAN	HBG2	Hemoglobin subunit gamma-2	5	6	5	NONE	0
HBM_HUMAN	HBM	Hemoglobin subunit mu	2	2	1	NONE	0
HCK_HUMAN	HCK	Tyrosine-protein kinase HCK	1	0	0	NONE	0
HEBP1_HUMAN	HEBP1	Heme-binding protein 1	0	1	2	NONE	0
HEM3_HUMAN	HMBS	Porphobilinogen deaminase	0	2	0	NONE	0
HNF1B_HUMAN	HNF1B	Hepatocyte nuclear factor 1-beta	0	1	1	NONE	0
HORN_HUMAN	HRNR	Hornerin	12	15	18	NONE	0
HPS1_HUMAN	HPS1	Hermansky-Pudlak syndrome 1 protein	0	0	1	NONE	0
HPT_HUMAN	HP	Haptoglobin	3	1	2	NONE	0
HPTR_HUMAN	HPR	Haptoglobin-related protein	2	1	1	NONE	0
HS71A_HUMAN	HSPA1A	Heat shock 70 kDa protein 1A	0	0	1	NONE	0
HS71B_HUMAN	HSPA1B	Heat shock 70 kDa protein 1B	0	0	1	NONE	0
HS71L_HUMAN	HSPA1L	Heat shock 70 kDa protein 1-like	0	0	1	NONE	0
HSP72_HUMAN	HSPA2	Heat shock-related 70 kDa protein 2	0	0	1	NONE	0
HSP74_HUMAN	HSPA4	Heat shock 70 kDa protein 4	3	4	4	NONE	0
HSP76_HUMAN	HSPA6	Heat shock 70 kDa protein 6	0	0	1	NONE	0
HSP77_HUMAN	HSPA7	Putative heat shock 70 kDa protein 7	0	0	1	NONE	0
HSP7C_HUMAN	HSPA8	Heat shock cognate 71 kDa protein	0	0	1	NONE	0
HTSF1_HUMAN	HTATSF1	HIV Tat-specific factor 1	1	0	0	NONE	0
HYAS1_HUMAN	HAS1	Hyaluronan synthase 1	1	0	0	7	23-45,52-74,401-423,429-451,461-483,499-521,542-563
IAH1_HUMAN	IAH1	Isoamyl acetate-hydrolyzing esterase 1 homolog	1	1	1	NONE	0
ICK_HUMAN	ICK	Serine/threonine-protein kinase ICK	1	0	0	NONE	0
IDH3G_HUMAN	IDH3G	Isocitrate dehydrogenase [NAD] subunit gamma, mitochondrial	0	0	1	1	1-23

IDHC_HUMAN	IDH1	Isocitrate dehydrogenase [NADP] cytoplasmic	0	1	1	NONE	0
IDHP_HUMAN	IDH2	Isocitrate dehydrogenase [NADP], mitochondrial	0	2	0	NONE	0
IF4A1_HUMAN	EIF4A1	Eukaryotic initiation factor 4A-I	1	2	5	NONE	0
IF4A2_HUMAN	EIF4A2	Eukaryotic initiation factor 4A-II	0	0	3	NONE	0
IF4A3_HUMAN	EIF4A3	Eukaryotic initiation factor 4A-III	0	0	1	NONE	0
IF4G3_HUMAN	EIF4G3	Eukaryotic translation initiation factor 4 gamma 3	0	0	1	NONE	0
IF5A1_HUMAN	EIF5A	Eukaryotic translation initiation factor 5A-1	6	7	5	NONE	0
IF5A2_HUMAN	EIF5A2	Eukaryotic translation initiation factor 5A-2	5	5	4	NONE	0
IF5AL_HUMAN	EIF5AL1	Eukaryotic translation initiation factor 5A-1-like	5	6	4	NONE	0
IFAS1_HUMAN	IGF2BP2-AS1	Putative uncharacterized protein IGF2BP2-AS1	1	0	0	NONE	0
IGA2_HUMAN	1 SV	Immunoglobulin alpha-2 heavy chain	1	0	0	NONE	0
IGG1_HUMAN	1 SV	Immunoglobulin gamma-1 heavy chain	5	4	5	NONE	0
IGHA1_HUMAN	IGHA1	Immunoglobulin heavy constant alpha 1	1	1	1	NONE	0
IGHA2_HUMAN	IGHA2	Immunoglobulin heavy constant alpha 2	1	0	0	NONE	0
IGHG1_HUMAN	IGHG1	Immunoglobulin heavy constant gamma 1	5	4	5	NONE	0
IGHG2_HUMAN	IGHG2	Immunoglobulin heavy constant gamma 2	4	1	2	NONE	0
IGHG3_HUMAN	IGHG3	Immunoglobulin heavy constant gamma 3	8	6	7	NONE	0
IGHG4_HUMAN	IGHG4	Immunoglobulin heavy constant gamma 4	2	2	3	NONE	0
IGHM_HUMAN	IGHM	Immunoglobulin heavy constant mu	5	6	6	NONE	0
IGK_HUMAN	1 SV	Immunoglobulin kappa light chain	2	2	2	NONE	0
IGKC_HUMAN	IGKC	Immunoglobulin kappa constant	2	3	3	NONE	0
IGL1_HUMAN	1 SV	Immunoglobulin lambda-1 light chain	1	1	1	NONE	0
IGLC1_HUMAN	IGLC1	Immunoglobulin lambda constant 1	1	1	1	NONE	0
IGLC2_HUMAN	IGLC2	Immunoglobulin lambda constant 2	1	1	1	NONE	0
IGLC3_HUMAN	IGLC3	Immunoglobulin lambda constant 3	1	1	1	NONE	0
IGLC6_HUMAN	IGLC6	Immunoglobulin lambda constant 6	1	1	1	NONE	0
IGLL5_HUMAN	IGLL5	Immunoglobulin lambda-like polypeptide 5	1	1	1	NONE	0
IGM_HUMAN	1 SV	Immunoglobulin mu heavy chain	4	4	4	NONE	0
ILK_HUMAN	ILK	Integrin-linked protein kinase	1	1	0	NONE	0
IMA5_HUMAN	KPNA1	Importin subunit alpha-5	1	1	1	NONE	0
IMB1_HUMAN	KPNB1	Importin subunit beta-1	3	3	3	NONE	0
INT6L_HUMAN	INTS6L	Integrator complex subunit 6-like	0	1	0	NONE	0
IPO11_HUMAN	IPO11	Importin-11	2	1	1	NONE	0
IPO5_HUMAN	IPO5	Importin-5	1	1	1	NONE	0
IPO7_HUMAN	IPO7	Importin-7	1	0	0	NONE	0
IPO9_HUMAN	IPO9	Importin-9	0	1	1	NONE	0
ISK5_HUMAN	SPINK5	Serine protease inhibitor Kazal-type 5	0	1	0	1	1-23
ITA2B_HUMAN	ITGA2B	Integrin alpha-IIb	5	3	3	4	5-27,927-949,953-975,998-1020
ITB3_HUMAN	ITGB3	Integrin beta-3	1	3	3	2	10-28,721-743
K1C10_HUMAN	KRT10	Keratin, type I cytoskeletal 10	22	18	22	NONE	0
K1C12_HUMAN	KRT12	Keratin, type I cytoskeletal 12	2	1	2	NONE	0
K1C13_HUMAN	KRT13	Keratin, type I cytoskeletal 13	6	5	3	NONE	0
K1C14_HUMAN	KRT14	Keratin, type I cytoskeletal 14	21	8	8	NONE	0
K1C15_HUMAN	KRT15	Keratin, type I cytoskeletal 15	7	5	3	NONE	0
K1C16_HUMAN	KRT16	Keratin, type I cytoskeletal 16	15	9	7	NONE	0
K1C17_HUMAN	KRT17	Keratin, type I cytoskeletal 17	10	5	5	NONE	0
K1C18_HUMAN	KRT18	Keratin, type I cytoskeletal 18	1	1	1	NONE	0
K1C19_HUMAN	KRT19	Keratin, type I cytoskeletal 19	6	4	3	NONE	0
K1C20_HUMAN	KRT20	Keratin, type I cytoskeletal 20	2	1	0	NONE	0
K1C24_HUMAN	KRT24	Keratin, type I cytoskeletal 24	2	2	2	NONE	0
K1C25_HUMAN	KRT25	Keratin, type I cytoskeletal 25	2	1	2	NONE	0
K1C26_HUMAN	KRT26	Keratin, type I cytoskeletal 26	2	1	2	NONE	0
K1C27_HUMAN	KRT27	Keratin, type I cytoskeletal 27	2	1	2	NONE	0
K1C28_HUMAN	KRT28	Keratin, type I cytoskeletal 28	3	2	3	NONE	0
K1C9_HUMAN	KRT9	Keratin, type I cytoskeletal 9	18	14	22	NONE	0
K1H1_HUMAN	KRT31	Keratin, type I cuticular Ha1	1	1	1	NONE	0
K1H2_HUMAN	KRT32	Keratin, type I cuticular Ha2	1	1	1	NONE	0
K22E_HUMAN	KRT2	Keratin, type II cytoskeletal 2 epidermal	24	22	22	NONE	0

K22O_HUMAN	KRT76	Keratin, type II cytoskeletal 2 oral	5	7	5	NONE	0
K2C1_HUMAN	KRT1	Keratin, type II cytoskeletal 1	29	26	35	NONE	0
K2C1B_HUMAN	KRT77	Keratin, type II cytoskeletal 1b	2	3	3	NONE	0
K2C3_HUMAN	KRT3	Keratin, type II cytoskeletal 3	5	6	5	NONE	0
K2C4_HUMAN	KRT4	Keratin, type II cytoskeletal 4	2	3	1	NONE	0
K2C5_HUMAN	KRT5	Keratin, type II cytoskeletal 5	10	9	11	NONE	0
K2C6A_HUMAN	KRT6A	Keratin, type II cytoskeletal 6A	8	10	9	NONE	0
K2C6B_HUMAN	KRT6B	Keratin, type II cytoskeletal 6B	8	11	10	NONE	0
K2C6C_HUMAN	KRT6C	Keratin, type II cytoskeletal 6C	8	10	9	NONE	0
K2C7_HUMAN	KRT7	Keratin, type II cytoskeletal 7	2	3	2	NONE	0
K2C71_HUMAN	KRT71	Keratin, type II cytoskeletal 71	1	2	2	NONE	0
K2C72_HUMAN	KRT72	Keratin, type II cytoskeletal 72	1	2	2	NONE	0
K2C73_HUMAN	KRT73	Keratin, type II cytoskeletal 73	1	2	2	NONE	0
K2C74_HUMAN	KRT74	Keratin, type II cytoskeletal 74	1	2	2	NONE	0
K2C75_HUMAN	KRT75	Keratin, type II cytoskeletal 75	3	4	4	NONE	0
K2C79_HUMAN	KRT79	Keratin, type II cytoskeletal 79	5	8	7	NONE	0
K2C8_HUMAN	KRT8	Keratin, type II cytoskeletal 8	4	5	4	NONE	0
K2C80_HUMAN	KRT80	Keratin, type II cytoskeletal 80	1	1	0	NONE	0
KAD1_HUMAN	AK1	Adenylate kinase isoenzyme 1	7	10	10	NONE	0
KAD5_HUMAN	AK5	Adenylate kinase isoenzyme 5	0	1	1	NONE	0
KANK2_HUMAN	KANK2	KN motif and ankyrin repeat domain-containing protein 2	1	0	0	NONE	0
KAP0_HUMAN	PRKAR1A	cAMP-dependent protein kinase type I-alpha regulatory subunit	0	1	1	NONE	0
KELL_HUMAN	KEL	Kell blood group glycoprotein	1	2	2	1	48-70
KGUA_HUMAN	GUK1	Guanylate kinase	1	2	2	NONE	0
KIF1C_HUMAN	KIF1C	Kinesin-like protein KIF1C	1	0	0	NONE	0
KINH_HUMAN	KIF5B	Kinesin-1 heavy chain	0	0	1	NONE	0
KRA96_HUMAN	KRTAP9-6	Keratin-associated protein 9-6	1	0	0	NONE	0
KRT35_HUMAN	KRT35	Keratin, type I cuticular Ha5	1	1	1	NONE	0
KRT36_HUMAN	KRT36	Keratin, type I cuticular Ha6	1	1	1	NONE	0
KRT37_HUMAN	KRT37	Keratin, type I cuticular Ha7	1	1	1	NONE	0
KRT38_HUMAN	KRT38	Keratin, type I cuticular Ha8	1	1	1	NONE	0
KRT84_HUMAN	KRT84	Keratin, type II cuticular Hb4	1	2	2	NONE	0
KS6C1_HUMAN	RPS6KC1	Ribosomal protein S6 kinase delta-1	0	1	1	NONE	0
KT222_HUMAN	KRT222	Keratin-like protein KRT222	1	1	0	NONE	0
KT33B_HUMAN	KRT33B	Keratin, type I cuticular Ha3-II	1	1	1	NONE	0
KT3K_HUMAN	FN3KRP	Ketosamine-3-kinase	0	1	0	NONE	0
KTHY_HUMAN	DTYMK	Thymidylate kinase	0	1	0	NONE	0
LATS1_HUMAN	LATS1	Serine/threonine-protein kinase LATS1	0	0	1	NONE	0
LCK_HUMAN	LCK	Tyrosine-protein kinase Lck	1	0	0	NONE	0
LDH6B_HUMAN	LDHAL6B	L-lactate dehydrogenase A-like 6B	1	1	1	NONE	0
LDHA_HUMAN	LDHA	L-lactate dehydrogenase A chain	1	2	2	1	23-45
LDHB_HUMAN	LDHB	L-lactate dehydrogenase B chain	7	8	6	NONE	0
LEG3_HUMAN	LGALS3	Galectin-3	0	1	1	NONE	0
LKHA4_HUMAN	LT4A4H	Leukotriene A-4 hydrolase	3	2	2	NONE	0
LRC47_HUMAN	LRRC47	Leucine-rich repeat-containing protein 47	1	1	1	NONE	0
LRRC7_HUMAN	LRRC7	Leucine-rich repeat-containing protein 7	1	1	1	NONE	0
LXN_HUMAN	LXN	Latexin	3	3	3	NONE	0
LYN_HUMAN	LYN	Tyrosine-protein kinase Lyn	1	0	0	NONE	0
MAK_HUMAN	MAK	Serine/threonine-protein kinase MAK	1	0	0	NONE	0
MAP2_HUMAN	METAP2	Methionine aminopeptidase 2	1	1	0	NONE	0
MAP4_HUMAN	MAP4	Microtubule-associated protein 4	0	1	0	NONE	0
MARE2_HUMAN	MAPRE2	Microtubule-associated protein RP/EB family member 2	0	1	1	NONE	0
MDHC_HUMAN	MDH1	Malate dehydrogenase, cytoplasmic	1	2	2	NONE	0
MIER3_HUMAN	MIER3	Mesoderm induction early response protein 3	0	1	1	NONE	0
MIF_HUMAN	MIF	Macrophage migration inhibitory factor	0	1	1	NONE	0
MKRN3_HUMAN	MKRN3	Probable E3 ubiquitin-protein ligase makorin-3	1	1	1	NONE	0
MOT3_HUMAN	SLC16A8	Monocarboxylate transporter 3	1	0	0	9	16-38,80-102,114-136,174-196,249-271,287-309,347-369,381-403,411-433
MP2K1_HUMAN	MAP2K1	Dual specificity mitogen-activated protein kinase kinase 1	0	0	1	NONE	0

MP2K2_HUMAN	MAP2K2	Dual specificity mitogen-activated protein kinase kinase 2	1	1	2	NONE	0
MP2K3_HUMAN	MAP2K3	Dual specificity mitogen-activated protein kinase kinase 3	2	2	2	NONE	0
MRP4_HUMAN	ABCC4	Multidrug resistance-associated protein 4	0	1	1	11	15-35,94-116,136-157,230-252,324-346,706-728,770-792,833-855,857-878,951-973,978-1000
MVD1_HUMAN	MVD	Diphosphomevalonate decarboxylase	0	0	1	NONE	0
MYH10_HUMAN	MYH10	Myosin-10	4	3	2	NONE	0
MYH11_HUMAN	MYH11	Myosin-11	6	6	4	NONE	0
MYH14_HUMAN	MYH14	Myosin-14	2	2	1	NONE	0
MYH9_HUMAN	MYH9	Myosin-9	39	51	43	NONE	0
MYL6_HUMAN	MYL6	Myosin light polypeptide 6	1	0	0	NONE	0
MYOM1_HUMAN	MYOM1	Myomesin-1	0	0	1	NONE	0
NALP5_HUMAN	NLRP5	NACHT, LRR and PYD domains-containing protein 5	1	1	1	NONE	0
NB5R3_HUMAN	CYB5R3	NADH-cytochrome b5 reductase 3	0	0	1	1	6-28
NFXL1_HUMAN	NFXL1	NF-X1-type zinc finger protein NFXL1	0	0	1	1	889-911
NPAS4_HUMAN	NPAS4	Neuronal PAS domain-containing protein 4	0	1	1	NONE	0
NSF_HUMAN	NSF	Vesicle-fusing ATPase	1	0	2	NONE	0
OLA1_HUMAN	OLA1	Obg-like ATPase 1	1	1	1	NONE	0
OLA1_HUMAN	OLA1	Obg-like ATPase 1	0	2	0	NONE	0
OSTF1_HUMAN	OSTF1	Osteoclast-stimulating factor 1	1	1	1	NONE	0
OTU1_HUMAN	YOD1	Ubiquitin thioesterase OTU1	2	3	2	NONE	0
OVOS1_HUMAN	OVOS1	Ovostatin homolog 1	1	0	0	1	6-28
P5CR3_HUMAN	PYCR3	Pyroline-5-carboxylate reductase 3	1	1	1	NONE	0
PA1B3_HUMAN	PAFAH1B3	Platelet-activating factor acetylhydrolase IB subunit gamma	4	4	2	NONE	0
PA2G4_HUMAN	PA2G4	Proliferation-associated protein 2G4	3	3	2	NONE	0
PAL4A_HUMAN	PPIAL4A	Peptidyl-prolyl cis-trans isomerase A-like 4A	1	1	1	NONE	0
PALMD_HUMAN	PALMD	Palmdelphin	0	1	0	NONE	0
PARG_HUMAN	PARG	Poly(ADP-ribose) glycohydrolase	0	0	1	NONE	0
PARK7_HUMAN	PARK7	Protein/nucleic acid deglycase DJ-1	2	3	3	NONE	0
PAXB1_HUMAN	PAXBP1	PAX3- and PAX7-binding protein 1	1	0	0	NONE	0
PCBP1_HUMAN	PCBP1	Poly(rC)-binding protein 1	1	1	1	NONE	0
PCBP2_HUMAN	PCBP2	Poly(rC)-binding protein 2	1	1	1	NONE	0
PCBP3_HUMAN	PCBP3	Poly(rC)-binding protein 3	1	1	1	NONE	0
PCL11_HUMAN	PID1	PTB-containing, cubilin and LRP1-interacting protein	1	1	0	NONE	0
PDC6I_HUMAN	PDCD6IP	Programmed cell death 6-interacting protein	3	5	2	NONE	0
PFKAL_HUMAN	PFKL	ATP-dependent 6-phosphofructokinase, liver type	2	3	3	NONE	0
PFKAM_HUMAN	PFKM	ATP-dependent 6-phosphofructokinase, muscle type	2	2	2	NONE	0
PFKAM_HUMAN	PFKM	ATP-dependent 6-phosphofructokinase, muscle type	2	0	0	NONE	0
PGK1_HUMAN	PGK1	Phosphoglycerate kinase 1	11	13	11	NONE	0
PGK2_HUMAN	PGK2	Phosphoglycerate kinase 2	2	1	1	NONE	0
PGM2L_HUMAN	PGM2L1	Glucose 1,6-bisphosphate synthase	1	1	1	NONE	0
PGM2L_HUMAN	PGM2L1	Glucose 1,6-bisphosphate synthase	2	0	1	NONE	0
PHB2_HUMAN	PHB2	Prohibitin-2	1	1	1	NONE	0
PIMT_HUMAN	PCMT1	Protein-L-isoaspartate(D-aspartate) O-methyltransferase	1	0	0	NONE	0
PLAK_HUMAN	JUP	Junction plakoglobin	1	0	1	NONE	0
PLCE1_HUMAN	PLCE1	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase epsilon-1	0	1	1	NONE	0
PLPP_HUMAN	PDXP	Pyridoxal phosphate phosphatase	0	0	1	NONE	0
PLS1_HUMAN	PLSCR1	Phospholipid scramblase 1	0	0	1	NONE	0
PMGE_HUMAN	BPGM	Bisphosphoglycerate mutase	7	7	7	NONE	0
POLS2_HUMAN	PRSS36	Polyserase-2	0	1	0	3	1-23,590-612,615-637
POTEE_HUMAN	POTEE	POTE ankyrin domain family member E	7	8	7	NONE	0
POTEF_HUMAN	POTEF	POTE ankyrin domain family member F	7	8	7	NONE	0
POTEL_HUMAN	POTEL	POTE ankyrin domain family member I	6	7	7	NONE	0
POTEJ_HUMAN	POTEJ	POTE ankyrin domain family member J	5	6	6	NONE	0
PP1B_HUMAN	PPP1CB	Serine/threonine-protein phosphatase PP1-beta catalytic subunit	1	1	1	NONE	0
PP2AA_HUMAN	PPP2CA	Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform	1	0	0	NONE	0
PP2AB_HUMAN	PPP2CB	Serine/threonine-protein phosphatase 2A catalytic subunit beta isoform	1	0	0	NONE	0

PPAC_HUMAN	ACP1	Low molecular weight phosphotyrosine protein phosphatase	3	3	4	NONE	0
PPIA_HUMAN	PPIA	Peptidyl-prolyl cis-trans isomerase A	7	8	7	NONE	0
PRDX1_HUMAN	PRDX1	Peroxiredoxin-1	1	2	1	NONE	0
PRDX2_HUMAN	PRDX2	Peroxiredoxin-2	7	8	8	NONE	0
PRDX6_HUMAN	PRDX6	Peroxiredoxin-6	5	5	1	NONE	0
PRG2_HUMAN	PRG2	Bone marrow proteoglycan	1	1	1	1	1-18
PRG3_HUMAN	PRG3	Proteoglycan 3	1	1	1	1	1-23
PRIC4_HUMAN	PRICKLE4	Prickle-like protein 4	0	1	0	NONE	0
PRP4B_HUMAN	PRPF4B	Serine/threonine-protein kinase PRP4 homolog	1	0	0	NONE	0
PRPS1_HUMAN	PRPS1	Ribose-phosphate pyrophosphokinase 1	2	1	1	NONE	0
PRPS2_HUMAN	PRPS2	Ribose-phosphate pyrophosphokinase 2	0	0	1	NONE	0
PRPS3_HUMAN	PRPS1L1	Ribose-phosphate pyrophosphokinase 3	1	1	1	NONE	0
PRS10_HUMAN	PSMC6	26S proteasome regulatory subunit 10B	2	1	2	NONE	0
PRS4_HUMAN	PSMC1	26S proteasome regulatory subunit 4	2	1	2	NONE	0
PRS6A_HUMAN	PSMC3	26S proteasome regulatory subunit 6A	1	0	0	NONE	0
PRS6B_HUMAN	PSMC4	26S proteasome regulatory subunit 6B	1	1	1	NONE	0
PRS7_HUMAN	PSMC2	26S proteasome regulatory subunit 7	3	5	3	NONE	0
PRS8_HUMAN	PSMC5	26S proteasome regulatory subunit 8	3	1	0	NONE	0
PSA_HUMAN	NPEPPS	Puromycin-sensitive aminopeptidase	0	1	1	NONE	0
PSA1_HUMAN	PSMA1	Proteasome subunit alpha type-1	0	1	1	NONE	0
PSA5_HUMAN	PSMA5	Proteasome subunit alpha type-5	2	1	2	NONE	0
PSA5_HUMAN	PSMA5	Proteasome subunit alpha type-5	0	1	1	NONE	0
PSB5_HUMAN	PSMB5	Proteasome subunit beta type-5	2	0	2	NONE	0
PSD10_HUMAN	PSMD10	26S proteasome non-ATPase regulatory subunit 10	0	1	0	NONE	0
PSD11_HUMAN	PSMD11	26S proteasome non-ATPase regulatory subunit 11	2	3	2	NONE	0
PSD12_HUMAN	PSMD12	26S proteasome non-ATPase regulatory subunit 12	2	1	2	NONE	0
PSD13_HUMAN	PSMD13	26S proteasome non-ATPase regulatory subunit 13	1	1	2	NONE	0
PSMD2_HUMAN	PSMD2	26S proteasome non-ATPase regulatory subunit 2	1	0	1	NONE	0
PSMD3_HUMAN	PSMD3	26S proteasome non-ATPase regulatory subunit 3	0	1	0	NONE	0
PSMD5_HUMAN	PSMD5	26S proteasome non-ATPase regulatory subunit 5	0	2	2	NONE	0
PSMD9_HUMAN	PSMD9	26S proteasome non-ATPase regulatory subunit 9	1	1	2	NONE	0
PTH2R_HUMAN	PTH2R	Parathyroid hormone 2 receptor	1	0	1	8	2-24,177-197,228-250,253-275,280-302,320-342,363-385,398-419
PTN9_HUMAN	PTPN9	Tyrosine-protein phosphatase non-receptor type 9	1	0	0	NONE	0
PUR2_HUMAN	GART	Trifunctional purine biosynthetic protein adenosine-3	0	1	1	NONE	0
PUR4_HUMAN	PFAS	Phosphoribosylformylglycinamide synthase	0	1	0	NONE	0
PUR8_HUMAN	ADSL	Adenylosuccinate lyase	2	3	2	NONE	0
PYRG1_HUMAN	CTPS1	CTP synthase 1	0	1	1	NONE	0
PZP_HUMAN	PZP	Pregnancy zone protein	0	2	2	1	5-20
RAB10_HUMAN	RAB10	Ras-related protein Rab-10	1	1	1	NONE	0
RAC1_HUMAN	RAC1	Ras-related C3 botulinum toxin substrate 1	0	0	1	NONE	0
RAC2_HUMAN	RAC2	Ras-related C3 botulinum toxin substrate 2	0	0	1	NONE	0
RAC3_HUMAN	RAC3	Ras-related C3 botulinum toxin substrate 3	0	0	1	NONE	0
RAN_HUMAN	RAN	GTP-binding nuclear protein Ran	2	1	2	NONE	0
RAP1A_HUMAN	RAP1A	Ras-related protein Rap-1A	3	1	1	NONE	0
RAP1B_HUMAN	RAP1B	Ras-related protein Rap-1b	3	1	1	NONE	0
RBM47_HUMAN	RBM47	RNA-binding protein 47	1	0	1	NONE	0
RBX1_HUMAN	RBX1	E3 ubiquitin-protein ligase RBX1	1	0	0	1	28-50
RD23A_HUMAN	RAD23A	UV excision repair protein RAD23 homolog A	0	1	1	NONE	0
RD23B_HUMAN	RAD24B	UV excision repair protein RAD24 homolog B	0	1	1	NONE	0
RHAG_HUMAN	RHAG	Ammonium transporter Rh type A	2	2	2	10	4-26,79-101,111-133,141-163,171-193,207-229,239-261,284-306,333-355,363-385
RHCE_HUMAN	RHCE	Blood group Rh(CE) polypeptide	0	0	1	11	12-34,76-98,107-129,139-161,169-191,205-227,242-262,267-289,298-320,330-352,364-386
RHD_HUMAN	RHD	Blood group Rh(D) polypeptide	0	0	1	10	12-34,76-98,107-129,139-161,168-190,202-224,238-260,277-299,326-348,365-387
RHOG_HUMAN	RHOG	Rho-related GTP-binding protein RhoG	0	0	1	NONE	0
RHOJ_HUMAN	RHOJ	Rho-related GTP-binding protein RhoJ	0	0	1	NONE	0
RHOQ_HUMAN	RHOQ	Rho-related GTP-binding protein RhoQ	0	0	1	NONE	0
RIC8A_HUMAN	RIC8A	Synembryon-A	0	2	3	NONE	0
RILP_HUMAN	RILP	Rab-interacting lysosomal protein	1	0	0	NONE	0
RINI_HUMAN	RNH1	Ribonuclease inhibitor	5	5	6	NONE	0

RL18_HUMAN	RPL18	60S ribosomal protein L18	0	1	1	NONE	0
RL27_HUMAN	RPL27	60S ribosomal protein L27	1	0	0	NONE	0
RL40_HUMAN	UBA52	Ubiquitin-60S ribosomal protein L40	0	9	8	NONE	0
RLA0_HUMAN	RPLP0	60S acidic ribosomal protein P0	0	1	1	NONE	0
RLA0L_HUMAN	RPLP0P6	60S acidic ribosomal protein P0-like	0	1	1	NONE	0
RN123_HUMAN	RNF123	E3 ubiquitin-protein ligase RNF123	4	3	5	NONE	0
RNBP6_HUMAN	RANBP6	Ran-binding protein 6	1	1	1	NONE	0
ROR2_HUMAN	ROR2	Tyrosine-protein kinase transmembrane receptor ROR2	1	0	0	2	11-33,404-426
RP1BL_HUMAN	2 SV	Ras-related protein Rap-1b-like protein	2	1	1	NONE	0
RS27A_HUMAN	RPS27A	Ubiquitin-40S ribosomal protein S27a	8	9	8	NONE	0
RS4X_HUMAN	RPS4X	40S ribosomal protein S4, X isoform	0	0	1	NONE	0
RS4Y1_HUMAN	RPS4Y1	40S ribosomal protein S4, Y isoform 1	0	0	1	NONE	0
RS4Y2_HUMAN	RPS4Y2	40S ribosomal protein S4, Y isoform 2	0	0	1	NONE	0
RSPRY_HUMAN	RSPRY1	RING finger and SPRY domain-containing protein 1 RING finger and SPRY domain-containing protein 1	1	1	1	1	1-23
RTN3_HUMAN	RTN3	Reticulon-3	0	0	1	3	863-885,942-964,972-994
S10A6_HUMAN	S100A6	Protein S100-A6	2	2	1	1	1-23
S10A8_HUMAN	S100A8	Protein S100-A8	1	1	1	NONE	0
S10A9_HUMAN	S100A9	Protein S100-A9	1	1	1	NONE	0
S29A1_HUMAN	SLC29A1	Equilibrative nucleoside transporter 1	1	0	1	11	13-35,78-100,108-130,143-165,181-203,207-229,285-307,317-339,361-381,396-418,430-452
S38A8_HUMAN	SLC38A8	Putative sodium-coupled neutral amino acid transporter 8	1	0	1	11	21-43,57-79,98-120,150-172,176-198,211-233,251-273,295-317,347-369,377-399,405-427
SAA4_HUMAN	SAA4	Serum amyloid A-4 protein	0	1	1	1	1-23
SBP1_HUMAN	SELENBP1	Methanethiol oxidase	1	1	0	NONE	0
SBSN_HUMAN	SBSN	Suprabasin	3	3	5	1	2-24
SFSWA_HUMAN	SFSWAP	Splicing factor, suppressor of white-apricot homolog	1	1	1	NONE	0
SGTA_HUMAN	SGTA	Small glutamine-rich tetratricopeptide repeat-containing protein alpha	0	1	0	NONE	0
SMIM1_HUMAN	SMIM1	Small integral membrane protein 1	1	1	1	1	47-69
SNAAL_HUMAN	NAPA	Alpha-soluble NSF attachment protein	4	6	5	NONE	0
SNAB_HUMAN	NAPB	Beta-soluble NSF attachment protein	0	1	2	NONE	0
SORCN_HUMAN	SRI	Sorcin	1	2	2	NONE	0
SPTA1_HUMAN	SPTA1	Spectrin alpha chain, erythrocytic 1	109	116	117	NONE	0
SPTB1_HUMAN	SPTB	Spectrin beta chain, erythrocytic	96	107	103	NONE	0
SPTB2_HUMAN	SPTBN1	Spectrin beta chain, non-erythrocytic 1	8	8	9	NONE	0
SPTN2_HUMAN	SPTBN2	Spectrin beta chain, non-erythrocytic 2	3	4	4	NONE	0
SPTN4_HUMAN	SPTBN4	Spectrin beta chain, non-erythrocytic 4	2	2	2	NONE	0
SSH3_HUMAN	SSH3	Protein phosphatase Slingshot homolog 3	1	0	0	NONE	0
ST134_HUMAN	ST13P4	Putative protein FAM10A4	0	1	1	NONE	0
ST18_HUMAN	ST18	Suppression of tumorigenicity 18 protein	0	1	1	NONE	0
STAB2_HUMAN	STAB2	Stabilin-2	1	0	0	2	1-23,2461-2482
STML3_HUMAN	STOML3	Stomatin-like protein 3	1	1	1	2	29-51,75-97
STOM_HUMAN	STOM	Erythrocyte band 7 integral membrane protein	17	18	20	1	32-54
STON2_HUMAN	STON2	Stonin-2	0	1	0	1	875-897
STX11_HUMAN	STX11	Syntaxin-11	0	1	1	NONE	0
SYFA_HUMAN	FARSA	Phenylalanine--tRNA ligase alpha subunit	1	0	0	NONE	0
SYNE1_HUMAN	SYNE1	Nesprin-1	1	0	0	ERROR	0
SYT5_HUMAN	SYT5	Synaptotagmin-5	1	0	1	1	29-51
SYYC_HUMAN	YARS	Tyrosine--tRNA ligase, cytoplasmic	1	0	0	NONE	0
TBA1A_HUMAN	TUBA1A	Tubulin alpha-1A chain	9	6	6	NONE	0
TBA1B_HUMAN	TUBA1B	Tubulin alpha-1B chain	9	6	6	NONE	0
TBA1C_HUMAN	TUBA1C	Tubulin alpha-1C chain	9	6	6	NONE	0
TBA3C_HUMAN	TUBA3C	Tubulin alpha-3C chain	6	3	2	NONE	0
TBA3C_HUMAN	TUBA3C	Tubulin alpha-3C chain	6	0	0	NONE	0
TBA3D_HUMAN	TUBA3D	Tubulin alpha-3D chain	6	3	2	NONE	0
TBA3E_HUMAN	TUBA3E	Tubulin alpha-3E chain	4	2	1	NONE	0
TBA4A_HUMAN	TUBA4A	Tubulin alpha-4A chain	6	4	4	NONE	0
TBA8_HUMAN	TUBA8	Tubulin alpha-8 chain	3	2	1	NONE	0
TBAL3_HUMAN	TUBAL3	Tubulin alpha chain-like 3	1	1	1	NONE	0

TBB1_HUMAN	TUBB1	Tubulin beta-1 chain	4	3	3	NONE	0
TBB2A_HUMAN	TUBB2A	Tubulin beta-2A chain	4	2	4	NONE	0
TBB2B_HUMAN	TUBB2B	Tubulin beta-2B chain	4	2	4	NONE	0
TBB3_HUMAN	TUBB3	Tubulin beta-3 chain	3	2	5	NONE	0
TBB4A_HUMAN	TUBB4A	Tubulin beta-4A chain	5	3	5	NONE	0
TBB4B_HUMAN	TUBB4B	Tubulin beta-4B chain	7	5	5	NONE	0
TBB5_HUMAN	TUBB	Tubulin beta chain	6	4	7	NONE	0
TBB6_HUMAN	TUBB6	Tubulin beta-6 chain	1	1	2	NONE	0
TBB8_HUMAN	TUBB8	Tubulin beta-8 chain	3	2	2	NONE	0
TBB8L_HUMAN	N/A	Tubulin beta-8 chain-like protein LOC260334	2	2	2	NONE	0
TBD2A_HUMAN	TBC1D2	TBC1 domain family member 2A	0	1	1	1	787-809
TCPA_HUMAN	TCP1	T-complex protein 1 subunit alpha	9	7	3	NONE	0
TCPB_HUMAN	CCT2	T-complex protein 1 subunit beta	3	4	4	NONE	0
TCPD_HUMAN	CCT4	T-complex protein 1 subunit delta	3	4	5	NONE	0
TCPE_HUMAN	CCT5	T-complex protein 1 subunit epsilon	4	3	3	NONE	0
TCPG_HUMAN	CCT3	T-complex protein 1 subunit gamma	6	10	11	NONE	0
TCPH_HUMAN	CCT7	T-complex protein 1 subunit eta	5	9	8	NONE	0
TCPO_HUMAN	CCT8	T-complex protein 1 subunit theta	6	6	4	NONE	0
TCPW_HUMAN	CCT6B	T-complex protein 1 subunit zeta-2	1	1	1	NONE	0
TCPZ_HUMAN	CCT6A	T-complex protein 1 subunit zeta	5	8	5	NONE	0
TERA_HUMAN	VCP	Transitional endoplasmic reticulum ATPase	1	1	0	NONE	0
TFE2_HUMAN	TCF3	Transcription factor E2-alpha	1	0	0	NONE	0
TGM2_HUMAN	TGM2	Protein-glutamine gamma-glutamyltransferase 2	9	8	5	NONE	0
THIO_HUMAN	TXN	Thioredoxin	0	1	0	NONE	0
TITIN_HUMAN	TTN	Titin	1	0	1	ERROR	0
TKFC_HUMAN	TKFC	Triokinase/FMN cyclase	3	4	4	NONE	0
TLN1_HUMAN	TLN1	Talin-1	9	7	6	NONE	0
TLN2_HUMAN	TLN2	Talin-2	0	1	0	NONE	0
TMPSD_HUMAN	TMPPSS13	Transmembrane protease serine 13	1	1	1	1	167-189
TNG2_HUMAN	TANGO2	Transport and Golgi organization protein 2 homolog	1	1	0	NONE	0
TPIS_HUMAN	TP1	Triosephosphate isomerase	1	1	1	NONE	0
TPM4_HUMAN	TPM4	Tropomyosin alpha-4 chain	0	1	0	NONE	0
TPP2_HUMAN	TPP2	Tripeptidyl-peptidase 2	6	6	3	NONE	0
TRFE_HUMAN	TF	Serotransferrin	0	0	1	1	2-24
TRFL_HUMAN	LTF	Lactotransferrin	0	0	1	1	1-20
TRI33_HUMAN	TRIM33	E3 ubiquitin-protein ligase TRIM33	1	0	0	NONE	0
TRY1_HUMAN	PRSS1	Trypsin-1	2	2	1	NONE	0
TRY2_HUMAN	PRSS2	Trypsin-2	1	1	0	NONE	0
TRY3_HUMAN	PRSS3	Trypsin-3	1	1	1	NONE	0
TRY6_HUMAN	PRSS3P2	Putative trypsin-6	1	1	0	NONE	0
TSP1_HUMAN	THBS1	Thrombospondin-1	5	6	8	1	1-23
TSP2_HUMAN	THBS2	Thrombospondin-2	1	0	1	NONE	0
TTK_HUMAN	TTK	Dual specificity protein kinase TTK	0	1	1	NONE	0
TXK_HUMAN	TXK	Tyrosine-protein kinase TXK	0	1	0	NONE	0
TXNL1_HUMAN	TXNL1	Thioredoxin-like protein 1	2	1	2	NONE	0
UB2L3_HUMAN	UBE2L3	Ubiquitin-conjugating enzyme E2 L3	1	0	0	NONE	0
UB2V1_HUMAN	UBE2V1	Ubiquitin-conjugating enzyme E2 variant 1	1	0	1	NONE	0
UB2V2_HUMAN	UBE2V2	Ubiquitin-conjugating enzyme E2 variant 2	1	0	1	NONE	0
UBA1_HUMAN	UBA1	Ubiquitin-like modifier-activating enzyme 1	1	2	3	2	888-910,986-1006
UBAC1_HUMAN	UBAC1	Ubiquitin-associated domain-containing protein 1	0	1	1	NONE	0
UBB_HUMAN	UBB	Polyubiquitin-B	20	23	20	NONE	0
UBC_HUMAN	UBC	Polyubiquitin-C	56	65	56	NONE	0
UBE2O_HUMAN	UBE2O	(E3-independent) E2 ubiquitin-conjugating enzyme	0	2	0	NONE	0
UBP14_HUMAN	USP14	Ubiquitin carboxyl-terminal hydrolase 14	3	2	4	NONE	0
UBP15_HUMAN	USP15	Ubiquitin carboxyl-terminal hydrolase 15	0	1	0	NONE	0
UBP47_HUMAN	USP47	Ubiquitin carboxyl-terminal hydrolase 47	0	0	1	NONE	0
UBP5_HUMAN	USP5	Ubiquitin carboxyl-terminal hydrolase 5	2	2	2	NONE	0
UBR4_HUMAN	UBR4	E3 ubiquitin-protein ligase UBR4	7	5	3	ERROR	0

UCHL3_HUMAN	UCHL3	Ubiquitin carboxyl-terminal hydrolase isozyme L3	0	0	1	NONE	0
UFD1_HUMAN	UFD1	Ubiquitin recognition factor in ER-associated degradation protein 1	1	0	1	NONE	0
URP2_HUMAN	FERMT3	Fermitin family homolog 3	4	2	2	NONE	0
USP9X_HUMAN	USP9X	Probable ubiquitin carboxyl-terminal hydrolase FAF-X	5	3	2	2	1087-1109,1146-1168
USP9Y_HUMAN	USP9Y	Probable ubiquitin carboxyl-terminal hydrolase FAF-Y	1	1	2	2	1087-1108,1147-1169
UT1_HUMAN	SLC14A1	Urea transporter 1	0	2	1	9	60-82,91-113,116-137,142-164,167-188,247-269,285-306,310-332,335-356
VASP_HUMAN	VASP	Vasodilator-stimulated phosphoprotein	1	1	1	NONE	0
VWF_HUMAN	VWF	von Willebrand factor	0	1	1	2	2-24,46-67
WDFY3_HUMAN	WDFY3	WD repeat and FYVE domain-containing protein 3	1	1	1	NONE	0
WDR1_HUMAN	WDR1	WD repeat-containing protein 1	2	1	1	1	414-435
XPO1_HUMAN	XPO1	Exportin-1	4	1	3	NONE	0
XPO2_HUMAN	CSE1L	Exportin-2	2	1	1	NONE	0
XPO7_HUMAN	XPO7	Exportin-7	4	4	5	1	490-511
YES_HUMAN	YES1	Tyrosine-protein kinase Yes	1	0	0	NONE	0
ZC21C_HUMAN	ZC2HC1C	Zinc finger C2HC domain-containing protein 1C	1	1	1	NONE	0
ZC21C_HUMAN	ZC2HC1C	Zinc finger C2HC domain-containing protein 1C	0	0	1	NONE	0
ZN331_HUMAN	ZNF331	Zinc finger protein 331	0	1	0	NONE	0
ZN580_HUMAN	ZNF580	Zinc finger protein 580	1	1	0	NONE	0
ZYX_HUMAN	ZYX	Zyxin	1	0	0	NONE	0
Number of totally identified proteins			470	500	501		

Yellow highlights indicate IMPs characterized in the text.

Table S3. List of WG IMPs identified by pTRUST and LC-MS/MS at the sub-microgram range

gene name	protein	involvement in disease
ALDH16A1	Aldehyde dehydrogenase family 16 member A1	
ABCA7	ATP-binding cassette sub-family A member 7	Alzheimer disease
ABCC4	Multidrug resistance-associated protein 4	
ABHD15	Protein ABHD15	
APOL1	Apolipoprotein L1	Focal segmental glomerulosclerosis 4 (FSGS4)
ATP2A2	Sarcoplasmic/endoplasmic reticulum calcium ATPase 2	Acrokeratosis verruciformis (AKV)
ATP2B1	Plasma membrane calcium-transporting ATPase 1	Intellectual developmental disorder, autosomal dominant 66 (MRD66)
ATP2B2	Plasma membrane calcium-transporting ATPase 2	May act as a disease modifier.
ATP2B3	Plasma membrane calcium-transporting ATPase 3	Spinocerebellar ataxia, X-linked 1 (SCAX1)
ATP2B4	Plasma membrane calcium-transporting ATPase 4	
C3	Complement C3	Complement component 3 deficiency (C3D)
CACNA2D4	Voltage-dependent calcium channel subunit alpha-2/delta-4	Retinal cone dystrophy 4 (RCD4)
CASK	Peripheral plasma membrane protein CASK	Intellectual developmental disorder with microcephaly and pontine and cerebellar hypoplasia (MICPCH)
CD44	CD44 antigen	
CD47	Leukocyte surface antigen CD47	
CD59	CD59 glycoprotein	Hemolytic anemia, CD59-mediated, with or without polyneuropathy (HACD59)
CD99	CD99 antigen	
CEACAM8	Carcinoembryonic antigen-related cell adhesion molecule 8	

CHST4	Carbohydrate sulfotransferase 4	
CYBRD1	Cytochrome b reductase 1	
DNAJC13	DnaJ homolog subfamily C member 13	Parkinson disease (PARK)
ELANE	Neutrophil elastase	Cyclic haematopoiesis (CH)
EPB41L3	Band 4.1-like protein 3	
EPB42	Erythrocyte membrane protein band 4.2	Spherocytosis 5 (SPH5)
FGFR1	Fibroblast growth factor receptor 1	Pfeiffer syndrome (PS)
FGFR2	Fibroblast growth factor receptor 2	Crouzon syndrome (CS)
FGFR3	Fibroblast growth factor receptor 3	Achondroplasia (ACH)
FGFR4	Fibroblast growth factor receptor 4	
FLNC	Filamin-C	Myopathy, myofibrillar, 5 (MFM5)
GP1BA	Platelet glycoprotein Ib alpha chain	Non-arteritic anterior ischemic optic neuropathy (NAION)
GP9	Platelet glycoprotein IX	Bernard-Soulier syndrome (BSS)
GRID1	Glutamate receptor ionotropic, delta-1	
HAS1	Hyaluronan synthase 1	
ITGA2B	Integrin alpha-IIb	Glanzmann thrombasthenia 1 (GT1)
ITGB3	Integrin beta-3	Glanzmann thrombasthenia 2 (GT2)
KEL	Kell blood group glycoprotein	
MT-CO3	Cytochrome c oxidase subunit 3	Leber hereditary optic neuropathy (LHON)
NFXL1	NF-X1-type zinc finger protein NFXL1	

PRSS36	Polyserase-2	
PTH2R	Parathyroid hormone 2 receptor	
RHAG	Ammonium transporter Rh type A	Regulator type Rh-null hemolytic anemia (RHN)
RHCE	Blood group Rh(CE) polypeptide	Rh-null, amorph type (RHNA)
RHD	Blood group Rh(D) polypeptide	Hemolytic disease of fetus and newborn, RH-induced (HDFNRH)
ROR2	Tyrosine-protein kinase transmembrane receptor ROR2	Brachydactyly B1 (BDB1)
RTN3	Reticulon-3	
SLC14A1	Urea transporter 1	
SLC16A8	Monocarboxylate transporter 3	
SLC29A1	Equilibrative nucleoside transporter 1	
SLC2A1	Solute carrier family 2, facilitated glucose transporter member 1	GLUT1 deficiency syndrome 1 (GLUT1DS1)
SLC2A14	Solute carrier family 2, facilitated glucose transporter member 14	
SLC2A3	Solute carrier family 2, facilitated glucose transporter member 3	
SLC38A8	Putative sodium-coupled neutral amino acid transporter 8	Foveal hypoplasia 2 (FVH2)
SLC4A1	Band 3 anion transport protein	Ovalocytosis, Southeast Asian (SAO)
SLC7A9	b(0,+)-type amino acid transporter 1	Cystinuria (CSNU)
SMIM1	Small integral membrane protein 1	
STAB2	Stabilin-2	
STOML3	Stomatin-like protein 3	
STON2	Stonin-2	

TBC1D2	TBC1 domain family member 2A	
TBC1D32	Protein broad-minded	
TMPRSS13	Transmembrane protease serine 13	
UBA1	Ubiquitin-like modifier-activating enzyme 1	Spinal muscular atrophy X-linked 2 (SMA2)
USP9X	Probable ubiquitin carboxyl-terminal hydrolase FAF-X	Intellectual developmental disorder, X-linked 99 (XLID99)
USP9Y	Probable ubiquitin carboxyl-terminal hydrolase FAF-Y	
VWF	von Willebrand factor	von Willebrand disease 1 (VWD1)
WDR1	WD repeat-containing protein 1	Periodic fever, immunodeficiency, and thrombocytopenia syndrome (PFITS)
XPO7	Exportin-7	

Table S4. Summary of proteins identified by pTRUST and LC-MS/MS in plasma membrane fractions prepared from human cancer cell lines

Accession	Protein mass	Gene name	Protein	A549			HeLa			HepG2			Number of transmembrane domain (TMD)	Transmembrane region
				Experiment	1	2	Experiment	1	2	Experiment	1	2		
1433B_HUMAN	28179	YWHAH	14-3-3 protein beta/alpha	6	8	8	11	12	10	3	5	5	NONE	0
1433E_HUMAN	29326	YWHAH	14-3-3 protein epsilon	4	2	3	13	10	12	2	2	1	NONE	0
1433F_HUMAN	28372	YWHAH	14-3-3 protein eta	4	5	4	9	4	3	2	3	2	NONE	0
1433G_HUMAN	28456	YWHAH	14-3-3 protein gamma	7	9	7	9	8	9	3	4	3	NONE	0
1433S_HUMAN	27871	SFN	14-3-3 protein sigma	5	6	4	5	3	2	2	3	2	NONE	0
1433T_HUMAN	28032	YWHAQ	14-3-3 protein theta	7	8	8	12	11	9	2	5	5	NONE	0
1433Z_HUMAN	27899	YWHAZ	14-3-3 protein zeta/delta	7	11	9	18	17	18	2	4	5	NONE	0
1A01_HUMAN	41105	HLA-A	HLA class I histocompatibility antigen, A-1 alpha chain	0	1	1	1	2	1	5	6	5	2	2-24,305-327
1A02_HUMAN	41181	HLA-A	HLA class I histocompatibility antigen, A-2 alpha chain	2	3	3	4	6	5	10	10	13	2	2-24,305-327
1A03_HUMAN	41100	HLA-A	HLA class I histocompatibility antigen, A-3 alpha chain	0	1	1	1	3	1	5	7	6	2	2-24,305-327
1A11_HUMAN	41196	HLA-A	HLA class I histocompatibility antigen, A-11 alpha chain	0	1	1	1	3	1	5	6	5	2	2-24,305-327
1A23_HUMAN	40992	HLA-A	HLA class I histocompatibility antigen, A-23 alpha chain	0	1	1	2	4	2	5	6	6	2	2-24,305-327
1A24_HUMAN	40948	HLA-A	HLA class I histocompatibility antigen, A-24 alpha chain	0	1	1	2	4	2	5	7	7	2	2-24,305-327
1A25_HUMAN	41477	HLA-A	HLA class I histocompatibility antigen, A-25 alpha chain	2	3	3	3	5	3	8	6	7	2	2-24,305-327
1A26_HUMAN	41321	HLA-A	HLA class I histocompatibility antigen, A-26 alpha chain	2	3	3	3	5	3	8	6	7	2	2-24,305-327
1A29_HUMAN	41122	HLA-A	HLA class I histocompatibility antigen, A-29 alpha chain	2	3	3	3	5	3	8	6	7	2	2-24,305-327
1A30_HUMAN	41164	HLA-A	HLA class I histocompatibility antigen, A-30 alpha chain	0	1	1	1	3	1	5	6	5	2	2-24,305-327
1A31_HUMAN	41263	HLA-A	HLA class I histocompatibility antigen, A-31 alpha chain	2	3	3	3	5	3	8	7	8	2	2-24,305-327
1A32_HUMAN	41307	HLA-A	HLA class I histocompatibility antigen, A-32 alpha chain	2	3	3	3	5	3	8	7	8	2	2-24,305-327
1A33_HUMAN	41151	HLA-A	HLA class I histocompatibility antigen, A-33 alpha chain	2	3	3	3	5	3	8	7	8	2	2-24,305-327
1A34_HUMAN	41314	HLA-A	HLA class I histocompatibility antigen, A-34 alpha chain	2	3	3	3	5	3	8	7	8	2	2-24,305-327
1A36_HUMAN	41193	HLA-A	HLA class I histocompatibility antigen, A-36 alpha chain	0	1	1	1	2	1	5	6	5	2	2-24,305-327
1A43_HUMAN	41292	HLA-A	HLA class I histocompatibility antigen, A-43 alpha chain	2	3	3	3	5	3	8	6	7	2	2-24,305-327
1A66_HUMAN	41341	HLA-A	HLA class I histocompatibility antigen, A-66 alpha chain	2	3	3	3	5	3	8	7	8	2	2-24,305-327
1A68_HUMAN	41168	HLA-A	HLA class I histocompatibility antigen, A-68 alpha chain	2	3	3	3	5	4	8	7	8	2	2-24,305-327
1A69_HUMAN	41236	HLA-A	HLA class I histocompatibility antigen, A-69 alpha chain	2	3	3	4	6	5	10	9	12	2	2-24,305-327
1A74_HUMAN	41150	HLA-A	HLA class I histocompatibility antigen, A-74 alpha chain	2	3	3	3	5	3	8	8	9	2	2-24,305-327
1A80_HUMAN	41051	HLA-A	HLA class I histocompatibility antigen, A-80 alpha chain	0	0	0	1	1	1	2	3	2	2	2-24,305-327
1B07_HUMAN	40777	HLA-B	HLA class I histocompatibility antigen, B-7 alpha chain	0	0	1	2	0	1	1	1	1	2	2-24,307-329
1B08_HUMAN	40648	HLA-B	HLA class I histocompatibility antigen, B-8 alpha chain	0	0	1	2	0	1	1	1	1	2	2-24,307-329
1B13_HUMAN	40791	HLA-B	HLA class I histocompatibility antigen, B-13 alpha chain	0	0	0	0	0	0	1	1	1	2	2-24,307-329
1B14_HUMAN	40675	HLA-B	HLA class I histocompatibility antigen, B-14 alpha chain	0	0	1	1	0	0	1	1	1	2	2-24,307-329
1B15_HUMAN	40648	HLA-B	HLA class I histocompatibility antigen, B-15 alpha chain	0	1	2	1	1	0	3	3	3	2	2-24,307-329
1B18_HUMAN	40535	HLA-B	HLA class I histocompatibility antigen, B-18 alpha chain	0	0	1	1	0	0	1	1	1	2	2-24,307-329
1B27_HUMAN	40802	HLA-B	HLA class I histocompatibility antigen, B-27 alpha chain	0	0	1	1	0	0	1	1	1	2	2-24,307-329
1B35_HUMAN	40715	HLA-B	HLA class I histocompatibility antigen, B-35 alpha chain	0	1	3	4	4	2	4	4	4	2	2-24,307-329
1B37_HUMAN	40716	HLA-B	HLA class I histocompatibility antigen, B-37 alpha chain	0	0	1	1	0	0	1	1	1	2	2-24,307-329
1B38_HUMAN	40733	HLA-B	HLA class I histocompatibility antigen, B-38 alpha chain	0	0	1	1	0	0	1	1	1	2	2-24,307-329
1B39_HUMAN	40645	HLA-B	HLA class I histocompatibility antigen, B-39 alpha chain	0	0	1	1	0	0	1	1	1	2	2-24,307-329
1B40_HUMAN	40822	HLA-B	HLA class I histocompatibility antigen, B-40 alpha chain	0	0	0	1	0	1	1	1	1	2	2-24,307-329
1B41_HUMAN	40856	HLA-B	HLA class I histocompatibility antigen, B-41 alpha chain	0	0	0	1	0	1	1	1	1	2	2-24,307-329
1B42_HUMAN	40650	HLA-B	HLA class I histocompatibility antigen, B-42 alpha chain	0	0	1	2	0	1	1	1	1	2	2-24,307-329
1B44_HUMAN	40798	HLA-B	HLA class I histocompatibility antigen, B-44 alpha chain	0	0	0	0	0	0	1	1	1	2	2-24,307-329
1B45_HUMAN	40674	HLA-B	HLA class I histocompatibility antigen, B-45 alpha chain	0	0	0	0	0	0	1	1	1	2	2-24,307-329
1B46_HUMAN	40700	HLA-B	HLA class I histocompatibility antigen, B-46 alpha chain	0	1	2	1	1	0	3	3	3	2	2-24,307-329
1B47_HUMAN	40888	HLA-B	HLA class I histocompatibility antigen, B-47 alpha chain	0	0	0	0	0	0	1	1	1	2	2-24,307-329
1B48_HUMAN	40679	HLA-B	HLA class I histocompatibility antigen, B-48 alpha chain	0	0	1	1	0	0	0	0	0	2	2-24,307-329
1B49_HUMAN	40841	HLA-B	HLA class I histocompatibility antigen, B-49 alpha chain	0	0	0	0	0	0	1	1	1	2	2-24,307-329
1B50_HUMAN	40801	HLA-B	HLA class I histocompatibility antigen, B-50 alpha chain	0	0	0	0	0	0	1	1	1	2	2-24,307-329
1B51_HUMAN	40826	HLA-B	HLA class I histocompatibility antigen, B-51 alpha chain	0	1	3	4	4	2	4	4	4	2	2-24,307-329
1B52_HUMAN	40781	HLA-B	HLA class I histocompatibility antigen, B-52 alpha chain	0	1	3	4	4	2	4	4	4	2	2-24,307-329
1B53_HUMAN	40755	HLA-B	HLA class I histocompatibility antigen, B-53 alpha chain	0	1	3	4	4	2	4	4	4	2	2-24,307-329

1B54_HUMAN	40640	HLA-B	HLA class I histocompatibility antigen, B-54 alpha chain	0	1	2	1	1	0	3	3	3	2	2-24,307-329
1B55_HUMAN	40756	HLA-B	HLA class I histocompatibility antigen, B-55 alpha chain	0	1	2	1	1	0	3	3	3	2	2-24,307-329
1B56_HUMAN	40738	HLA-B	HLA class I histocompatibility antigen, B-56 alpha chain	0	1	2	1	1	0	3	3	3	2	2-24,307-329
1B57_HUMAN	40541	HLA-B	HLA class I histocompatibility antigen, B-57 alpha chain	0	1	2	1	1	0	3	3	3	2	2-24,307-329
1B58_HUMAN	40597	HLA-B	HLA class I histocompatibility antigen, B-58 alpha chain	0	1	3	4	4	2	4	4	4	2	2-24,307-329
1B59_HUMAN	40844	HLA-B	HLA class I histocompatibility antigen, B-59 alpha chain	0	1	2	1	1	0	3	3	3	2	2-24,307-329
1B67_HUMAN	40602	HLA-B	HLA class I histocompatibility antigen, B-67 alpha chain	0	0	1	1	0	0	1	1	1	2	2-24,307-329
1B73_HUMAN	40809	HLA-B	HLA class I histocompatibility antigen, B-73 alpha chain	0	0	1	3	1	2	2	2	2	2	2-24,307-329
1B78_HUMAN	40738	HLA-B	HLA class I histocompatibility antigen, B-78 alpha chain	0	1	3	4	4	2	4	4	4	2	2-24,307-329
1B81_HUMAN	40717	HLA-B	HLA class I histocompatibility antigen, B-81 alpha chain	0	0	1	1	0	0	0	0	0	2	2-24,307-329
1B82_HUMAN	40681	HLA-B	HLA class I histocompatibility antigen, B-82 alpha chain	0	0	1	1	0	0	1	1	1	2	2-24,307-329
1C01_HUMAN	41395	HLA-C	HLA class I histocompatibility antigen, Cw-1 alpha chain	0	0	2	5	3	3	1	2	2	2	2-24,307-329
1C02_HUMAN	41468	HLA-C	HLA class I histocompatibility antigen, Cw-2 alpha chain	0	0	2	6	4	4	3	3	3	2	2-24,307-329
1C03_HUMAN	41234	HLA-C	HLA class I histocompatibility antigen, Cw-3 alpha chain	0	0	2	5	3	3	2	2	2	2	2-24,307-329
1C04_HUMAN	41368	HLA-C	HLA class I histocompatibility antigen, Cw-4 alpha chain	0	1	3	5	4	3	4	4	4	2	2-24,307-329
1C05_HUMAN	41343	HLA-C	HLA class I histocompatibility antigen, Cw-5 alpha chain	0	0	1	4	4	3	3	3	3	2	2-24,307-329
1C06_HUMAN	41399	HLA-C	HLA class I histocompatibility antigen, Cw-6 alpha chain	0	0	2	6	4	4	3	3	3	2	2-24,307-329
1C07_HUMAN	41136	HLA-C	HLA class I histocompatibility antigen, Cw-7 alpha chain	0	0	1	3	1	2	2	2	2	2	2-24,307-329
1C08_HUMAN	41203	HLA-C	HLA class I histocompatibility antigen, Cw-8 alpha chain	0	0	1	5	4	4	3	3	3	2	2-24,307-329
1C12_HUMAN	41316	HLA-C	HLA class I histocompatibility antigen, Cw-12 alpha chain	0	1	3	6	5	4	5	5	5	2	2-24,307-329
1C14_HUMAN	41268	HLA-C	HLA class I histocompatibility antigen, Cw-14 alpha chain	0	1	3	5	4	3	4	4	4	2	2-24,307-329
1C15_HUMAN	41293	HLA-C	HLA class I histocompatibility antigen, Cw-15 alpha chain	0	0	2	6	4	4	3	3	3	2	2-24,307-329
1C16_HUMAN	41240	HLA-C	HLA class I histocompatibility antigen, Cw-16 alpha chain	0	1	2	2	2	1	5	5	5	2	2-24,307-329
1C17_HUMAN	41612	HLA-C	HLA class I histocompatibility antigen, Cw-17 alpha chain	0	1	3	5	5	3	5	5	5	2	2-24,307-329
1C18_HUMAN	41363	HLA-C	HLA class I histocompatibility antigen, Cw-18 alpha chain	0	0	2	5	3	3	2	2	2	2	2-24,307-329
2AAA_HUMAN	66065	PPP2R1A	Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform	0	0	0	2	1	0	0	0	1	NONE	0
3BHS1_HUMAN	42510	HSD3B1	3 beta-hydroxysteroid dehydrogenase/Delta 5-->4-isomerase type 1	0	0	0	0	0	1	0	0	0	NONE	0
4F2_HUMAN	68180	SLC3A2	4F2 cell-surface antigen heavy chain	55	49	53	95	91	91	15	16	13	1	183-205
5HT6R_HUMAN	47722	HTR6	5-hydroxytryptamine receptor 6	1	0	0	0	1	1	0	0	0	8	29-51,64-86,102-124,142-164,184-206,211-233,275-297,303-325
5NT1B_HUMAN	69502	NT5C1B	Cytosolic 5'-nucleotidase 1B	0	0	0	1	0	0	1	0	0	NONE	0
5NTD_HUMAN	63898	NT5E	5'-nucleotidase	6	8	8	0	0	0	0	0	0	2	8-30,554-574
68MP_HUMAN	6658	MP68	6.8 kDa mitochondrial proteolipid	0	0	0	0	0	0	0	1	2	1	17-37
6PGD_HUMAN	53619	PGD	6-phosphogluconate dehydrogenase, decarboxylating	0	0	1	0	0	0	0	0	0	NONE	0
A1AT_HUMAN	46878	SERPINA1	Alpha-1-antitrypsin	0	0	0	0	0	0	11	10	10	1	4-25
A1BG_HUMAN	54790	A1BG	Alpha-1B-glycoprotein	1	1	0	0	0	0	0	0	0	NONE	0
A2MG_HUMAN	164613	A2M	Alpha-2-macroglobulin	0	0	0	0	0	0	0	20	17	NONE	0
AAAT_HUMAN	57018	SLC1A5	Neutral amino acid transporter B(0)	16	16	14	4	3	2	3	3	2	10	54-76,93-115,139-161,224-245,262-284,301-323,332-351,377-399,415-437,448-470
AACT_HUMAN	47792	SERPINA3	Alpha-1-antichymotrypsin	0	0	0	0	0	0	1	3	3	NONE	0
AATM_HUMAN	47886	GOT2	Aspartate aminotransferase, mitochondrial	0	0	0	0	3	1	1	2	3	NONE	0
ABCB8_HUMAN	80793	ABCB8	ATP-binding cassette sub-family B member 8, mitochondrial	0	0	0	0	0	0	0	0	1	4	1-23,150-172,197-219,294-316
ABCB4_HUMAN	79497	ABCB10	ATP-binding cassette sub-family B member 10, mitochondrial	0	0	0	0	0	0	0	0	1	4	16-38,308-330,398-420,429-451
ABCCB_HUMAN	155855	ABCC11	ATP-binding cassette sub-family C member 11	0	0	0	0	1	0	0	0	0	12	166-188,196-218,270-292,300-322,381-403,418-440,803-825,862-884,937-959,966-987,1048-1070,1072-1094
ABCD3_HUMAN	75941	ABCD3	ATP-binding cassette sub-family D member 3	0	0	0	2	1	2	12	13	10	3	4-26,230-246,318-340
ABCG2_HUMAN	72952	ABCG2	ATP-binding cassette sub-family G member 2	0	0	0	13	8	11	0	0	0	6	393-415,426-448,454-476,479-500,506-528,540-562
ABD12_HUMAN	45524	ABHD12	Monoacylglycerol lipase ABHD12	0	0	0	0	0	0	1	1	2	1	77-99
ABHDA_HUMAN	34253	ABHD10	Mycophenolic acid acyl-glucuronide esterase, mitochondrial	0	0	0	0	0	0	0	0	0	NONE	0
ACADM_HUMAN	47015	ACADM	Medium-chain specific acyl-CoA dehydrogenase, mitochondrial	0	0	0	4	3	0	0	0	0	NONE	0
ACADS_HUMAN	44611	ACADS	Short-chain specific acyl-CoA dehydrogenase, mitochondrial	0	0	0	0	0	1	0	0	0	NONE	0
ACADV_HUMAN	70745	ACADVL	Very long-chain specific acyl-CoA dehydrogenase, mitochondrial	0	0	0	3	2	1	1	0	0	NONE	0
ACBP_HUMAN	10038	DBI	Acyl-CoA-binding protein	0	0	0	1	0	0	0	0	0	NONE	0
ACD11_HUMAN	88007	ACAD11	Acyl-CoA dehydrogenase family member 11	0	0	0	0	0	0	0	0	0	NONE	0
ACDSB_HUMAN	47797	ACADSB	Short/branched chain specific acyl-CoA dehydrogenase, mitochondrial	0	0	0	0	0	0	2	2	1	NONE	0
ACES_HUMAN	67796	ACHE	Acetylcholinesterase	2	1	2	0	0	0	0	0	0	1	8-30
ACLY_HUMAN	121674	ACLY	ATP-citrate synthase	2	1	2	1	1	1	2	0	0	NONE	0
ACOD_HUMAN	41667	SCD	Acyl-CoA desaturase	0	0	0	2	3	3	8	11	8	6	73-95,100-122,134-156,218-240,246-268,316-335

ACON_HUMAN	86113	ACO2	Aconitate hydratase, mitochondrial	0	0	0	1	0	0	0	0	1	NONE	0
ACOX1_HUMAN	74889	ACOX1	Peroxisomal acyl-coenzyme A oxidase 1	0	0	0	0	0	0	3	2	3	NONE	0
ACPM_HUMAN	17577	NDUFAB1	Acyl carrier protein, mitochondrial	0	0	0	0	0	0	1	1	1	NONE	0
ACSL1_HUMAN	78919	ACSL1	Long-chain-fatty-acid--CoA ligase 1	0	0	0	0	0	0	2	2	2	NONE	0
ACSL3_HUMAN	81338	ACSL3	Long-chain-fatty-acid--CoA ligase 3	1	2	2	4	2	2	19	17	16	2	20-42,177-199
ACSL4_HUMAN	80220	ACSL4	Long-chain-fatty-acid--CoA ligase 4	0	0	0	1	0	0	9	9	8	1	8-30
ACSL5_HUMAN	76855	ACSL5	Long-chain-fatty-acid--CoA ligase 5	0	0	0	0	0	0	3	3	4	1	7-29
ACTA_HUMAN	42381	ACTA2	Actin, aortic smooth muscle	81	78	83	62	57	62	41	38	41	NONE	0
ACTB_HUMAN	42052	ACTB	Actin, cytoplasmic 1	132	127	126	102	94	96	67	66	66	NONE	0
ACTBL_HUMAN	42318	ACTBL2	Beta-actin-like protein 2	41	38	46	29	27	33	19	22	21	NONE	0
ACTBM_HUMAN	42331	POTEKP	Putative beta-actin-like protein 3	25	20	20	18	14	16	11	13	9	NONE	0
ACTC_HUMAN	42334	ACTC1	Actin, alpha cardiac muscle 1	87	83	87	67	60	66	43	40	43	NONE	0
ACTG_HUMAN	42108	ACTG1	Actin, cytoplasmic 2	132	128	126	102	94	96	67	66	66	NONE	0
ACTH_HUMAN	42249	ACTG2	Actin, gamma-enteric smooth muscle	81	78	83	62	57	62	41	38	41	NONE	0
ACTN1_HUMAN	103563	ACTN1	Alpha-actinin-1	21	23	21	8	10	10	2	3	5	NONE	0
ACTN2_HUMAN	104358	ACTN2	Alpha-actinin-2	7	8	8	3	4	4	0	2	2	NONE	0
ACTN3_HUMAN	103917	ACTN3	Alpha-actinin-3	5	5	8	1	2	3	0	0	0	NONE	0
ACTN4_HUMAN	105245	ACTN4	Alpha-actinin-4	44	41	42	18	24	21	2	4	5	NONE	0
ACTS_HUMAN	42366	ACTA1	Actin, alpha skeletal muscle	87	83	87	67	60	66	43	40	43	NONE	0
ACTZ_HUMAN	42701	ACTR1A	Alpha-centractin	4	5	4	3	3	3	2	2	2	NONE	0
ACY1_HUMAN	46084	ACY1	Aminoacylase-1	0	1	0	0	0	0	0	0	0	NONE	0
ADAS_HUMAN	73664	AGPS	Alkylidihydroxyacetonephosphate synthase, peroxisomal	0	0	0	0	0	0	0	0	0	NONE	0
ADCY1_HUMAN	123440	ADCY1	Adenylate cyclase type 1	3	0	2	1	0	1	0	2	0	10	61-83,93-115,122-144,173-195,213-235,607-629,635-657,670-692,739-761,783-804
ADGB_HUMAN	190677	ADGB	Androglobin	1	0	0	0	0	0	0	0	0	NONE	0
ADRO_HUMAN	54259	FDXR	NADPH:adrenodoxin oxidoreductase, mitochondrial	0	0	0	0	0	0	2	2	2	NONE	0
ADSV_HUMAN	80895	SCIN	Adseverin	1	0	0	0	0	0	0	0	0	NONE	0
ADT1_HUMAN	33271	SLC25A4	ADP/ATP translocase 1	7	10	9	9	10	9	18	17	18	NONE	0
ADT2_HUMAN	33059	SLC25A5	ADP/ATP translocase 2	13	12	15	15	14	14	29	31	33	NONE	0
ADT3_HUMAN	33073	SLC25A6	ADP/ATP translocase 3	8	9	9	10	10	9	19	21	20	NONE	0
ADT4_HUMAN	35285	SLC25A31	ADP/ATP translocase 4	2	2	2	3	3	3	5	6	5	NONE	0
AEGP_HUMAN	131449	MAMDC4	Apical endosomal glycoprotein	0	0	0	1	0	0	0	0	0	2	1-23,1151-1173
AFG32_HUMAN	88984	AFG3L2	AFG3-like protein 2	0	0	0	0	0	0	1	1	2	1	250-271
AGRIN_HUMAN	225333	AGRN	Agrin	0	0	0	0	0	0	2	1	1	NONE	0
AHNK_HUMAN	629213	AHNAK	Neuroblast differentiation-associated protein AHNAK	331	350	294	338	359	334	0	0	0	ERROR	0
AHNK2_HUMAN	617383	AHNAK2	Protein AHNAK2	16	18	15	20	15	32	0	0	0	ERROR	0
AIFM1_HUMAN	67144	AIFM1	Apoptosis-inducing factor 1, mitochondrial	0	0	0	6	2	3	8	18	12	NONE	0
AIG1_HUMAN	28546	AIG1	Androgen-induced gene 1 protein	0	0	0	0	0	0	0	0	1	5	4-26,42-64,86-108,157-179,194-216
AIMP1_HUMAN	34616	AIMP1	Aminoacyl tRNA synthase complex-interacting multifunctional protein 1	0	0	0	0	0	0	0	0	0	NONE	0
AK1C1_HUMAN	37221	AKR1C1	Aldo-keto reductase family 1 member C1	0	0	1	0	0	0	5	5	3	NONE	0
AK1C2_HUMAN	37111	AKR1C2	Aldo-keto reductase family 1 member C2	0	0	1	0	0	0	3	2	1	NONE	0
AK1C3_HUMAN	37229	AKR1C3	Aldo-keto reductase family 1 member C3	0	0	1	0	0	0	5	4	3	NONE	0
AK1C4_HUMAN	37442	AKR1C4	Aldo-keto reductase family 1 member C4	0	0	0	0	0	0	4	3	2	NONE	0
AKCL2_HUMAN	37136	AKR1E2	1,5-anhydro-D-fructose reductase	0	0	0	0	0	0	1	0	0	NONE	0
AL1A1_HUMAN	55454	ALDH1A1	Retinal dehydrogenase 1	0	0	0	0	0	0	1	1	2	NONE	0
AL1A2_HUMAN	57144	ALDH1A2	Retinal dehydrogenase 2	0	0	0	0	0	0	2	1	2	NONE	0
AL1A3_HUMAN	56871	ALDH1A3	Aldehyde dehydrogenase family 1 member A3	0	0	0	0	0	0	1	1	1	2	181-203,224-246
AL1B1_HUMAN	57626	ALDH1B1	Aldehyde dehydrogenase X, mitochondrial	0	0	0	0	0	0	4	4	2	NONE	0
AL3A1_HUMAN	50762	ALDH3A1	Aldehyde dehydrogenase, dimeric NADP-preferring	2	2	0	0	0	0	1	1	1	NONE	0
AL3A2_HUMAN	55269	ALDH3A2	Fatty aldehyde dehydrogenase	3	2	2	0	0	0	5	9	7	1	463-482
AL3B1_HUMAN	52434	ALDH3B1	Aldehyde dehydrogenase family 3 member B1	2	1	0	0	0	0	1	1	1	2	110-132,151-173
AL3B2_HUMAN	43178	ALDH3B2	Aldehyde dehydrogenase family 3 member B2	2	1	0	0	0	0	1	1	1	2	37-59,70-92
AL4A1_HUMAN	62137	ALDH4A1	Delta-1-pyrroline-5-carboxylate dehydrogenase, mitochondrial	0	0	0	0	0	0	1	1	0	NONE	0
ALBU_HUMAN	71317	ALB	Serum albumin	0	1	0	0	0	0	14	19	16	NONE	0
ALDH2_HUMAN	56859	ALDH2	Aldehyde dehydrogenase, mitochondrial	0	0	0	0	0	0	2	4	5	NONE	0
ALDOA_HUMAN	39851	ALDOA	Fructose-bisphosphate aldolase A	10	8	9	17	14	15	6	6	5	NONE	0
ALDOB_HUMAN	39961	ALDOB	Fructose-bisphosphate aldolase B	1	1	1	2	2	1	0	1	1	NONE	0
ALDOC_HUMAN	39830	ALDOC	Fructose-bisphosphate aldolase C	1	1	1	3	3	1	0	1	2	NONE	0

ALDR_HUMAN	36230	AKR1B1	Aldose reductase	0	1	0	0	0	0	0	0	0	NONE	0
ALG1_HUMAN	53282	ALG1	Chitobiosyldiphosphodolichol beta-mannosyltransferase	0	0	0	0	0	0	0	2	1	3	2-23,100-122,133-155
ALKBH8_HUMAN	76016	ALKBH8	Alkylated DNA repair protein alkB homolog 8	0	0	0	0	0	0	1	0	0	NONE	0
AMD_HUMAN	109119	PAM	Peptidyl-glycine alpha-amidating monooxygenase	0	0	1	0	0	0	0	0	0	2	5-27,863-885
AMPN_HUMAN	109870	ANPEP	Aminopeptidase N	85	92	86	0	0	0	9	5	7	1	10-32
AMRP_HUMAN	41441	LRPAP1	Alpha-2-macroglobulin receptor-associated protein	0	0	0	0	0	0	2	5	1	1	7-28
ANCHR_HUMAN	52427	ZFYVE19	Abscission/NoCut checkpoint regulator	1	1	1	1	1	1	1	1	0	NONE	0
ANGT_HUMAN	53406	AGT	Angiotensinogen	0	0	0	0	0	0	3	2	2	NONE	0
ANKH1_HUMAN	271286	ANKHD1	Ankyrin repeat and KH domain-containing protein 1	0	0	0	0	0	0	0	0	1	NONE	0
ANKL2_HUMAN	104905	ANKLE2	Ankyrin repeat and LEM domain-containing protein 2	1	0	1	0	0	0	0	0	0	1	10-32
ANPRA_HUMAN	119813	NPR1	Atrial natriuretic peptide receptor 1	0	0	0	1	0	1	0	0	0	2	17-39,472-494
ANS1B_HUMAN	139235	ANKS1B	Ankyrin repeat and sterile alpha motif domain-containing protein 1B	0	0	0	0	1	1	0	0	0	NONE	0
ANX11_HUMAN	54697	ANXA11	Annexin A11	1	1	0	9	10	12	0	0	0	NONE	0
ANXA1_HUMAN	38918	ANXA1	Annexin A1	7	5	3	10	8	13	0	0	0	NONE	0
ANXA2_HUMAN	38808	ANXA2	Annexin A2	92	97	91	75	84	84	0	0	0	NONE	0
ANXA3_HUMAN	36524	ANXA3	Annexin A3	1	1	0	0	1	2	0	0	0	NONE	0
ANXA4_HUMAN	36088	ANXA4	Annexin A4	1	1	1	11	9	8	7	7	8	NONE	0
ANXA5_HUMAN	35971	ANXA5	Annexin A5	0	0	0	6	7	9	1	0	0	NONE	0
ANXA6_HUMAN	76168	ANXA6	Annexin A6	3	3	0	14	19	18	7	4	4	NONE	0
ANXA7_HUMAN	52991	ANXA7	Annexin A7	0	0	0	5	5	3	1	1	2	NONE	0
ANXA8_HUMAN	37086	ANXA8	Annexin A8	0	0	0	1	0	0	0	0	0	NONE	0
AOFA_HUMAN	60157	MAOA	Amine oxidase [flavin-containing] A	0	0	0	0	0	0	2	0	1	NONE	0
AOFB_HUMAN	59238	MAOB	Amine oxidase [flavin-containing] B	0	0	0	0	0	0	2	0	1	NONE	0
AP1B1_HUMAN	105482	AP1B1	AP-1 complex subunit beta-1	0	0	0	1	2	3	1	0	0	NONE	0
AP1G1_HUMAN	92148	AP1G1	AP-1 complex subunit gamma-1	1	1	2	2	3	3	2	2	2	NONE	0
AP2A1_HUMAN	108561	AP2A1	AP-2 complex subunit alpha-1	1	1	0	0	1	2	0	0	0	NONE	0
AP2A2_HUMAN	104807	AP2A2	AP-2 complex subunit alpha-2	1	1	0	0	0	0	0	0	0	NONE	0
AP2B1_HUMAN	105398	AP2B1	AP-2 complex subunit beta	0	0	1	2	3	1	0	0	0	NONE	0
AP3B1_HUMAN	121815	AP3B1	AP-3 complex subunit beta-1	0	0	0	1	1	0	0	0	0	NONE	0
AP4AT_HUMAN	55844	TEPSIN	AP-4 complex accessory subunit Tepsin	0	0	0	1	0	0	0	0	0	NONE	0
APC_HUMAN	313622	APC	Adenomatous polyposis coli protein	0	1	0	0	0	0	0	0	0	NONE	0
APMAP_HUMAN	46622	APMAP	Adipocyte plasma membrane-associated protein	1	0	0	0	0	0	7	7	7	NONE	0
APOA1_HUMAN	30759	APOA1	Apolipoprotein A-I	0	0	0	0	0	0	2	6	5	NONE	0
APOA2_HUMAN	11282	APOA2	Apolipoprotein A-II	0	0	0	0	0	0	3	1	2	1	1-21
APOB_HUMAN	516651	APOB	Apolipoprotein B-100	0	0	0	0	0	0	20	18	17	1	6-28
APOE_HUMAN	36246	APOE	Apolipoprotein E	1	1	1	0	0	0	9	10	9	1	1-23
APOH_HUMAN	39584	APOH	Beta-2-glycoprotein 1	0	0	0	0	0	0	1	1	1	1	1-23
APOL2_HUMAN	37126	APOL2	Apolipoprotein L2	0	0	0	0	0	0	1	1	1	NONE	0
AR6P1_HUMAN	23519	ARL6IP1	ADP-ribosylation factor-like protein 6-interacting protein 1	0	0	0	0	0	0	2	2	1	4	42-64,70-92,137-159,161-183
ARF1_HUMAN	20741	ARF1	ADP-ribosylation factor 1	3	4	3	4	4	3	3	2	3	NONE	0
ARF3_HUMAN	20645	ARF3	ADP-ribosylation factor 3	3	4	3	4	4	3	3	2	3	NONE	0
ARF4_HUMAN	20612	ARF4	ADP-ribosylation factor 4	3	4	4	5	5	4	4	3	4	NONE	0
ARF5_HUMAN	20631	ARF5	ADP-ribosylation factor 5	3	4	3	4	4	3	3	2	3	NONE	0
ARF6_HUMAN	20183	ARF6	ADP-ribosylation factor 6	2	2	2	3	2	1	1	1	1	NONE	0
ARL17_HUMAN	19603	ARL17A	ADP-ribosylation factor-like protein 17	2	2	2	2	2	1	1	1	1	NONE	0
ARL8B_HUMAN	21753	ARL8B	ADP-ribosylation factor-like protein 8B	1	1	0	0	0	0	1	1	0	NONE	0
ARMX5_HUMAN	62649	ARMCX5	Armadillo repeat-containing X-linked protein 5	2	2	2	0	0	0	0	0	0	NONE	0
ARP3_HUMAN	47797	ACTR3	Actin-related protein 3	1	0	1	0	0	0	0	0	0	1	134-156
ARPC4_HUMAN	19768	ARPC4	Actin-related protein 2/3 complex subunit 4	1	1	1	1	1	0	0	1	0	NONE	0
ARPC5_HUMAN	16367	ARPC5	Actin-related protein 2/3 complex subunit 5	0	0	1	0	0	0	0	0	0	NONE	0
ASB13_HUMAN	30729	ASB13	Ankyrin repeat and SOCS box protein 13	0	1	0	0	0	0	0	0	0	NONE	0
ASB15_HUMAN	66726	ASB15	Ankyrin repeat and SOCS box protein 15	0	0	1	0	0	0	0	0	0	NONE	0
ASCC3_HUMAN	252898	ASCC3	Activating signal cointegrator 1 complex subunit 3	0	1	0	0	0	0	0	0	0	NONE	0
ASGR1_HUMAN	33735	ASGR1	Asialoglycoprotein receptor 1	0	0	0	0	0	0	21	20	23	1	39-60
ASGR2_HUMAN	35697	ASGR2	Asialoglycoprotein receptor 2	0	0	0	0	0	0	1	1	2	1	54-76
ASM_HUMAN	70918	SMPD1	Sphingomyelin phosphodiesterase	0	0	0	1	1	1	1	0	1	1	26-48
ASPD_HUMAN	30213	ASPDH	Putative L-aspartate dehydrogenase	1	0	1	0	0	0	0	0	0	NONE	0
ASPH_HUMAN	86266	ASPH	Aspartyl/asparaginyl beta-hydroxylase	6	8	7	7	6	6	9	6	7	1	53-75

ASPM_HUMAN	413189	ASPM	Abnormal spindle-like microcephaly-associated protein	0	1	1	0	0	0	1	0	1	NONE	0
ASSY_HUMAN	46786	ASS1	Argininosuccinate synthase	0	0	0	7	8	9	0	0	0	NONE	0
AT10A_HUMAN	169806	ATP10A	Probable phospholipid-transporting ATPase VA	0	0	0	0	0	0	0	0	0	8	107-129,309-331,360-382,1108-1130,1173-1195,1201-1223,1231-1253,1266-1288
AT12A_HUMAN	116292	ATP12A	Potassium-transporting ATPase alpha chain 2	2	3	4	5	3	5	6	7	7	7	107-129,142-164,304-326,339-361,810-832,932-951,968-990
AT131_HUMAN	134523	ATP13A1	Manganese-transporting ATPase 13A1	0	0	0	0	0	0	0	1	0	11	1-22,241-263,265-287,437-459,493-515,984-1006,1012-1033,1049-1071,1096-1118,1132-1153,1167-1189
AT1A1_HUMAN	114135	ATP1A1	Sodium/potassium-transporting ATPase subunit alpha-1	28	29	26	39	36	34	45	38	43	9	98-120,130-150,292-314,324-346,795-817,859-881,915-937,953-975,983-1004
AT1A2_HUMAN	113505	ATP1A2	Sodium/potassium-transporting ATPase subunit alpha-2	10	11	10	17	14	15	22	19	18	8	96-118,128-148,290-312,322-344,792-814,912-934,952-974,980-1001
AT1A3_HUMAN	113102	ATP1A3	Sodium/potassium-transporting ATPase subunit alpha-3	13	14	15	20	18	17	26	23	22	7	87-109,119-139,279-301,314-336,785-807,841-863,905-927
AT1A4_HUMAN	115119	ATP1A4	Sodium/potassium-transporting ATPase subunit alpha-4	2	3	5	8	5	6	8	8	9	8	106-128,138-158,300-322,332-354,801-823,921-943,958-980,989-1010
AT1B1_HUMAN	35438	ATP1B1	Sodium/potassium-transporting ATPase subunit beta-1	1	1	1	1	1	1	1	2	1	1	36-58
AT1B3_HUMAN	31834	ATP1B3	Sodium/potassium-transporting ATPase subunit beta-3	3	2	2	4	6	4	3	5	4	2	39-61,137-158
AT2A1_HUMAN	111550	ATP2A1	Sarcoplasmic/endoplasmic reticulum calcium ATPase 1	2	1	2	0	0	0	4	8	5	4	58-80,86-108,257-279,299-321
AT2A2_HUMAN	116336	ATP2A2	Sarcoplasmic/endoplasmic reticulum calcium ATPase 2	4	3	6	3	3	3	13	18	13	10	58-80,86-108,258-280,299-321,775-797,831-853,895-917,933-955,961-983,1013-1035
AT2A3_HUMAN	115444	ATP2A3	Sarcoplasmic/endoplasmic reticulum calcium ATPase 3	1	0	1	1	1	1	3	4	4	9	57-78,86-108,258-280,299-321,776-798,831-853,895-917,933-955,966-988
AT2B1_HUMAN	135569	ATP2B1	Plasma membrane calcium-transporting ATPase 1	8	7	5	10	10	12	1	1	0	10	101-123,155-175,272-293,373-395,421-443,857-879,934-956,971-990,1006-1028,1040-1062
AT2B2_HUMAN	137987	ATP2B2	Plasma membrane calcium-transporting ATPase 2	6	4	2	5	4	6	1	1	0	9	98-120,149-170,194-216,401-423,445-467,880-902,957-979,1030-1052,1062-1084
AT2B3_HUMAN	135253	ATP2B3	Plasma membrane calcium-transporting ATPase 3	6	4	2	5	4	6	0	1	0	9	102-124,152-173,197-219,373-395,419-441,854-876,933-955,1000-1022,1036-1058
AT2B4_HUMAN	139030	ATP2B4	Plasma membrane calcium-transporting ATPase 4	6	4	2	7	4	6	0	1	0	8	97-119,147-168,367-389,411-433,845-867,922-944,993-1015,1026-1048
AT2C2_HUMAN	104243	ATP2C2	Calcium-transporting ATPase type 2C member 2	1	1	1	2	2	2	2	2	2	8	108-130,133-155,294-315,326-348,364-380,802-824,875-897,905-927
AT5EL_HUMAN	5860	ATP5EP2	ATP synthase subunit epsilon-like protein, mitochondrial	0	0	0	1	1	1	1	1	1	NONE	0
AT5F1_HUMAN	28947	ATP5PB	ATP synthase F(0) complex subunit B1, mitochondrial	1	1	1	5	3	4	7	10	10	NONE	0
ATAD1_HUMAN	41060	ATAD1	ATPase family AAA domain-containing protein 1	0	0	0	0	0	0	1	0	2	NONE	0
ATD3A_HUMAN	71610	ATAD3A	ATPase family AAA domain-containing protein 3A	0	0	0	1	0	1	6	8	3	NONE	0
ATD3B_HUMAN	73098	ATAD3B	ATPase family AAA domain-containing protein 3B	0	0	0	0	0	1	6	5	3	1	246-268
ATD3C_HUMAN	46635	ATAD3C	ATPase family AAA domain-containing protein 3C	0	0	0	0	0	0	2	2	1	1	70-92
ATLA3_HUMAN	60960	ATL3	Atlastin-3	2	2	0	0	0	0	0	0	0	2	444-466,470-492
ATP4A_HUMAN	115756	ATP4A	Potassium-transporting ATPase alpha chain 1	3	4	5	6	5	6	7	7	7	9	110-131,140-160,298-320,337-359,806-828,858-880,926-947,964-986,996-1017
ATP5E_HUMAN	5833	ATP5F1E	ATP synthase subunit epsilon, mitochondrial	0	0	0	1	1	1	1	1	1	NONE	0
ATP5H_HUMAN	18537	ATP5PD	ATP synthase subunit d, mitochondrial	1	1	0	1	2	1	8	5	3	NONE	0
ATP5I_HUMAN	7928	ATP5ME	ATP synthase subunit e, mitochondrial	1	0	1	2	3	3	5	2	4	NONE	0
ATP5J_HUMAN	12580	ATP5PF	ATP synthase-coupling factor 6, mitochondrial	0	0	0	0	1	0	2	1	1	NONE	0
ATP5L_HUMAN	11421	ATP5MG	ATP synthase subunit g, mitochondrial	0	0	0	2	1	3	5	5	5	1	72-94
ATP6_HUMAN	24801	MT-ATP6	ATP synthase subunit a	0	0	0	0	0	0	0	1	0	5	15-37,69-91,95-117,138-160,197-219
ATPA_HUMAN	59828	ATP5F1A	ATP synthase subunit alpha, mitochondrial	8	8	8	28	23	25	60	62	54	NONE	0
ATPB_HUMAN	56525	ATP5F1B	ATP synthase subunit beta, mitochondrial	9	10	10	22	26	26	56	51	49	NONE	0
ATPD_HUMAN	17479	ATP5F1D	ATP synthase subunit delta, mitochondrial	0	0	1	1	1	1	2	3	3	NONE	0
ATPG_HUMAN	33032	ATP5F1C	ATP synthase subunit gamma, mitochondrial	0	0	0	3	0	2	7	6	8	NONE	0
ATPO_HUMAN	23377	ATP5PO	ATP synthase subunit O, mitochondrial	1	2	2	4	3	2	9	8	11	NONE	0
ATS2_HUMAN	137918	ADAMTS2	A disintegrin and metalloproteinase with thrombospondin motifs 2	0	0	0	0	0	0	0	0	1	NONE	0
AVPI1_HUMAN	16877	AVPI1	Arginine vasopressin-induced protein 1	0	0	0	0	0	1	0	0	1	NONE	0
AXA2L_HUMAN	38806	ANXA2P2	Putative annexin A2-like protein	79	85	81	69	75	75	0	0	0	NONE	0
AXA81_HUMAN	37084	ANXA8L1	Annexin A8-like protein 1	0	0	0	1	0	0	0	0	0	NONE	0
AXDN1_HUMAN	118637	AXDND1	Axonemal dynein light chain domain-containing protein 1	1	1	1	0	0	0	0	0	0	NONE	0
B2MG_HUMAN	13820	B2M	Beta-2-microglobulin	3	0	0	2	1	1	2	1	1	1	2-24
B3A2_HUMAN	137493	SLC4A2	Anion exchange protein 2	0	1	1	0	0	0	1	0	0	12	706-728,736-758,762-784,794-816,825-847,900-918,934-956,993-1015,1035-1057,1101-1123,1160-1182,1188-1210

B3GT2_HUMAN	49213	B3GALT2	Beta-1,3-galactosyltransferase 2	0	0	0	1	0	0	0	0	0	1	23-44
B4GN3_HUMAN	115359	B4GALNT3	Beta-1,4-N-acetylgalactosaminyltransferase 3	0	0	0	0	0	0	1	0	0	1	26-48
BAG2_HUMAN	23928	BAG2	BAG family molecular chaperone regulator 2	1	1	0	0	1	1	1	0	1	NONE	0
BAP31_HUMAN	28031	BCAP31	B-cell receptor-associated protein 31	7	4	7	6	4	4	12	13	10	3	5-27,42-64,105-127
BASI_HUMAN	42573	BSG	Basigin	3	4	3	14	16	13	8	7	7	2	5-27,323-344
BASP1_HUMAN	22680	BASP1	Brain acid soluble protein 1	18	19	19	82	75	71	0	0	0	NONE	0
BAX_HUMAN	21285	BAX	Apoptosis regulator BAX	0	0	0	0	0	0	3	2	2	NONE	0
BAZ2A_HUMAN	213004	BAZ2A	Bromodomain adjacent to zinc finger domain protein 2A	0	0	0	1	0	1	0	0	0	NONE	0
BCAM_HUMAN	68161	BCAM	Basal cell adhesion molecule	0	0	0	0	0	0	3	4	4	1	548-570
BDP1_HUMAN	295359	BDP1	Transcription factor TFIIB component B" homolog	1	0	1	0	1	1	1	0	1	NONE	0
BGAT_HUMAN	41249	ABO	Histo-blood group ABO system transferase	1	0	0	0	0	0	0	0	0	1	17-39
BIP_HUMAN	72402	HSPA5	Endoplasmic reticulum chaperone BiP	29	28	28	57	56	51	135	133	130	NONE	0
BLK_HUMAN	58126	BLK	Tyrosine-protein kinase Blk	0	0	0	2	2	2	0	0	0	NONE	0
BMP15_HUMAN	45539	BMP15	Bone morphogenetic protein 15	0	0	0	1	1	0	0	0	0	1	1-23
BPIB3_HUMAN	50539	BPIFB3	BPI fold-containing family B member 3	0	0	0	0	0	0	0	1	1	2	5-27,200-222
BRD7_HUMAN	74548	BRD7	Bromodomain-containing protein 7	0	0	1	0	0	0	0	0	0	NONE	0
BSN_HUMAN	418324	BSN	Protein bassoon	0	0	0	0	0	0	0	1	0	NONE	0
BST2_HUMAN	20041	BST2	Bone marrow stromal antigen 2	0	0	0	3	3	2	0	1	1	2	24-46,161-180
BTF3_HUMAN	22211	BTF3	Transcription factor BTF3	1	1	0	0	1	1	0	0	0	NONE	0
BTK_HUMAN	76917	BTK	Tyrosine-protein kinase BTK	0	0	1	0	0	0	0	0	0	NONE	0
BZW1_HUMAN	48184	BZW1	Basic leucine zipper and W2 domain-containing protein 1	0	0	0	1	1	2	0	0	0	NONE	0
BZW2_HUMAN	48360	BZW2	Basic leucine zipper and W2 domain-containing protein 2	0	0	0	1	0	0	0	0	0	NONE	0
C144B_HUMAN	83698	CCDC144E	Coiled-coil domain-containing protein 144B	0	0	0	1	0	0	0	0	2	NONE	0
C1QBP_HUMAN	31742	C1QBP	Complement component 1 Q subcomponent-binding protein, mitochondrial	0	0	0	0	0	0	1	0	1	NONE	0
C1TC_HUMAN	102180	MTHFD1	C-1-tetrahydrofolate synthase, cytoplasmic	1	0	0	1	1	1	0	0	0	NONE	0
CA167_HUMAN	164602	C1orf167	Uncharacterized protein C1orf167	0	0	0	0	0	1	0	0	0	NONE	0
CA211_HUMAN	10504	LINC00337	Putative uncharacterized protein encoded by LINC00337	0	1	0	0	1	1	0	0	0	NONE	0
CAB45_HUMAN	41895	SDF4	45 kDa calcium-binding protein	0	0	0	0	1	0	1	2	2	1	15-37
CAC1D_HUMAN	247550	CACNA1D	Voltage-dependent L-type calcium channel subunit alpha-1D	0	0	0	1	0	0	0	0	0	21	127-148,166-188,197-219,245-267,275-297,351-373,383-405,521-542,558-580,599-621,645-667,690-712,728-750,887-909,961-983,1010-1032,1088-1110,1131-1153,1203-1224,1352-1374,1443-1465
CADH2_HUMAN	100203	CDH2	Cadherin-2	0	0	0	0	0	0	0	1	0	2	10-32,721-743
CADM1_HUMAN	48935	CADM1	Cell adhesion molecule 1	0	0	0	0	0	0	1	0	0	2	16-38,374-396
CAF17_HUMAN	38473	IBA57	Putative transferase CAF17, mitochondrial	0	0	0	0	0	0	0	0	1	NONE	0
CAH9_HUMAN	49952	CA9	Carbonic anhydrase 9	0	0	0	1	1	0	0	0	0	2	9-31,409-431
CALM1_HUMAN	16827	CALM1	Calmodulin-1	3	3	2	3	3	3	0	0	1	NONE	0
CALM2_HUMAN	16827	CALM2	Calmodulin-2	3	3	2	3	3	3	0	0	1	NONE	0
CALM3_HUMAN	16827	CALM3	Calmodulin-3	3	3	2	3	3	3	0	0	1	NONE	0
CALR_HUMAN	48283	CALR	Calreticulin	6	5	6	16	17	18	40	37	36	1	3-25
CALU_HUMAN	37198	CALU	Calumenin	1	1	0	1	4	4	9	8	8	NONE	0
CALX_HUMAN	67982	CANX	Calnexin	18	15	16	20	19	21	42	47	45	2	1-23,482-503
CAN1_HUMAN	82465	CAPN1	Calpain-1 catalytic subunit	0	0	0	0	0	0	0	0	1	NONE	0
CAN9_HUMAN	79731	CAPN9	Calpain-9	0	0	0	0	0	0	1	1	1	NONE	0
CAND1_HUMAN	137999	CAND1	Cullin-associated NEDD8-dissociated protein 1	0	0	0	0	0	1	0	0	0	NONE	0
CAP1_HUMAN	52325	CAP1	Adenylyl cyclase-associated protein 1	0	0	1	3	2	1	0	0	0	NONE	0
CAPG_HUMAN	38760	CAPG	Macrophage-capping protein	0	0	0	5	5	6	0	0	0	NONE	0
CAPR1_HUMAN	78489	CAPRIN1	Caprin-1	0	0	0	1	1	1	0	0	0	NONE	0
CASPA_HUMAN	59597	CASP10	Caspase-10	0	0	0	1	0	0	0	0	0	NONE	0
CASPE_HUMAN	27947	CASP14	Caspase-14	0	0	0	0	0	0	1	0	0	NONE	0
CATA_HUMAN	59947	CAT	Catalase	0	0	0	0	0	0	2	4	6	NONE	0
CATB_HUMAN	38766	CTSB	Cathepsin B	0	0	0	1	1	0	2	2	1	NONE	0
CATC_HUMAN	52619	CTSC	Dipeptidyl peptidase 1	0	0	0	1	1	1	0	0	0	1	1-23
CATD_HUMAN	45037	CTSD	Cathepsin D	0	0	0	1	1	0	6	7	6	NONE	0
CATF_HUMAN	53366	CTSF	Cathepsin F	2	0	1	1	0	1	0	0	0	1	1-22
CATZ_HUMAN	34530	CTSZ	Cathepsin Z	0	0	0	4	5	6	0	0	0	NONE	0
CAV1_HUMAN	20630	CAV1	Caveolin-1	3	1	0	1	1	1	0	0	0	2	82-104,111-133
CB072_HUMAN	30918	C2orf72	Uncharacterized protein C2orf72	0	0	0	0	0	0	2	1	2	NONE	0

CBLN4_HUMAN	21908	CBLN4	Cerebellin-4	1	0	0	0	2	0	1	1	0	1	7-27
CBPD_HUMAN	153919	CPD	Carboxypeptidase D	0	0	0	0	0	0	3	3	2	2	10-32,1303-1325
CBPM_HUMAN	50938	CPM	Carboxypeptidase M	0	0	0	1	1	0	0	0	0	2	1-19,422-443
CBS_HUMAN	61175	CBS	Cystathionine beta-synthase	0	0	0	1	0	0	0	0	0	NONE	0
CBSL_HUMAN	61175	CBSL	Cystathionine beta-synthase-like protein	0	0	0	1	0	0	0	0	0	NONE	0
CBX3_HUMAN	20969	CBX3	Chromobox protein homolog 3	0	0	0	0	0	0	0	1	0	NONE	0
CBX5_HUMAN	22382	CBX5	Chromobox protein homolog 5	0	0	1	0	0	0	0	0	0	NONE	0
CC138_HUMAN	76912	CCDC138	Coiled-coil domain-containing protein 138	1	2	2	0	0	0	0	0	0	NONE	0
CC150_HUMAN	129536	CCDC150	Coiled-coil domain-containing protein 150	0	0	0	1	1	1	3	4	3	NONE	0
CC170_HUMAN	82853	CCDC170	Coiled-coil domain-containing protein 170	0	1	0	0	0	0	0	0	0	NONE	0
CC175_HUMAN	94023	CCDC175	Coiled-coil domain-containing protein 175	0	0	1	0	0	0	0	0	0	NONE	0
CC178_HUMAN	102575	CCDC178	Coiled-coil domain-containing protein 178	0	0	0	0	1	0	0	0	0	NONE	0
CC191_HUMAN	111012	CCDC191	Coiled-coil domain-containing protein 191	0	0	0	1	0	0	0	0	0	NONE	0
CC192_HUMAN	32801	CCDC192	Coiled-coil domain-containing protein 192	0	0	1	0	0	0	0	0	0	NONE	0
CCD13_HUMAN	80834	CCDC13	Coiled-coil domain-containing protein 13	0	0	0	0	0	0	1	0	0	NONE	0
CCD40_HUMAN	130375	CCDC40	Coiled-coil domain-containing protein 40	0	0	0	0	0	1	0	0	0	NONE	0
CCD47_HUMAN	56123	CCDC47	Coiled-coil domain-containing protein 47	0	0	0	0	1	1	3	2	3	1	1-21
CCG6_HUMAN	28681	CACNG6	Voltage-dependent calcium channel gamma-6 subunit	0	0	0	1	1	1	1	1	1	4	40-61,140-162,169-191,222-243
CCPG1_HUMAN	88027	CCPG1	Cell cycle progression protein 1	0	0	0	1	0	0	0	0	0	1	211-233
CD109_HUMAN	162500	CD109	CD109 antigen	1	1	1	11	8	13	0	0	0	2	9-31,1428-1445
CD151_HUMAN	29132	CD151	CD151 antigen	1	1	1	0	0	0	0	0	0	3	16-38,55-77,92-114
CD166_HUMAN	65745	ALCAM	CD166 antigen	8	6	5	0	0	0	0	0	0	2	3-25,527-549
CD44_HUMAN	82001	CD44	CD44 antigen	13	11	10	10	8	7	0	0	0	2	3-25,649-670
CD59_HUMAN	14795	CD59	CD59 glycoprotein	0	0	0	1	1	1	0	0	0	2	2-24,106-128
CD63_HUMAN	26474	CD63	CD63 antigen	0	0	0	2	1	0	0	0	0	4	12-34,52-74,83-105,202-224
CD9_HUMAN	25969	CD9	CD9 antigen	0	0	0	5	3	3	0	0	0	4	12-34,58-80,88-110,191-213
CD99_HUMAN	18893	CD99	CD99 antigen	0	0	0	1	1	1	1	1	1	2	6-28,124-146
CDC37_HUMAN	44953	CDC37	Hsp90 co-chaperone Cdc37	0	0	0	0	0	1	0	0	0	NONE	0
CDC42_HUMAN	21587	CDC42	Cell division control protein 42 homolog	5	6	7	4	3	6	3	2	3	NONE	0
CDCP1_HUMAN	94298	CDCP1	CUB domain-containing protein 1	1	2	1	0	0	0	0	0	0	3	1-23,33-55,668-690
CDIPT_HUMAN	23865	CDIPT	CDP-diacylglycerol--inositol 3-phosphatidyltransferase	0	0	0	0	0	0	2	2	1	5	3-25,30-52,77-99,136-158,170-192
CDK1_HUMAN	34131	CDK1	Cyclin-dependent kinase 1	0	0	0	1	1	0	0	0	0	NONE	0
CDK2_HUMAN	34079	CDK2	Cyclin-dependent kinase 2	0	0	0	1	1	0	0	0	0	NONE	0
CDK20_HUMAN	38898	CDK20	Cyclin-dependent kinase 20	0	0	0	1	2	2	0	0	0	NONE	0
CDK3_HUMAN	35138	CDK3	Cyclin-dependent kinase 3	0	0	0	1	1	0	0	0	0	NONE	0
CDS2_HUMAN	51954	CDS2	Phosphatidate cytidyltransferase 2	0	0	0	0	0	0	3	3	1	8	69-91,95-117,121-143,165-186,197-219,222-244,260-282,339-360
CE030_HUMAN	23354	C5orf30	UNC119-binding protein C5orf30	0	0	0	0	0	0	0	1	0	NONE	0
CE162_HUMAN	162356	CEP162	Centrosomal protein of 162 kDa	0	0	1	0	0	0	0	0	0	NONE	0
CE350_HUMAN	352312	CEP350	Centrosome-associated protein 350	1	1	0	0	0	0	0	1	0	NONE	0
CEAM1_HUMAN	57981	CEACAM1	Carcinoembryonic antigen-related cell adhesion molecule 1	0	0	0	0	0	0	2	2	2	2	12-31,430-452
CEIP2_HUMAN	155702	CEMP2	Cell surface hyaluronidase	0	0	0	0	0	0	1	1	1	1	83-105
CENPE_HUMAN	317588	CENPE	Centromere-associated protein E	0	0	0	0	0	0	0	1	0	NONE	0
CENPF_HUMAN	360442	CENPF	Centromere protein F	0	0	0	0	0	0	1	0	1	NONE	0
CEP55_HUMAN	54487	CEP55	Centrosomal protein of 55 kDa	0	0	0	0	0	0	0	0	1	NONE	0
CEP63_HUMAN	81344	CEP63	Centrosomal protein of 63 kDa	0	0	0	0	0	0	0	1	0	NONE	0
CEPT1_HUMAN	47435	CEPT1	Choline/ethanolaminephosphotransferase 1	0	0	0	0	0	0	0	0	1	7	85-107,114-136,167-189,207-229,238-260,281-303,370-392
CERS2_HUMAN	44961	CERS2	Ceramide synthase 2	0	0	0	0	0	0	0	1	1	5	44-66,138-160,207-229,265-287,300-322
CES1P_HUMAN	30773	CES1P1	Putative inactive carboxylesterase 4	0	0	0	0	0	0	0	1	0	NONE	0
CF118_HUMAN	54308	C6orf118	Uncharacterized protein C6orf118	1	0	0	0	0	0	0	0	0	NONE	0
CGAS_HUMAN	59462	CGAS	Cyclic GMP-AMP synthase	0	1	0	0	0	0	0	0	0	NONE	0
CH10_HUMAN	10925	HSPE1	10 kDa heat shock protein, mitochondrial	2	1	1	5	8	6	17	20	19	NONE	0
CH60_HUMAN	61187	HSPD1	60 kDa heat shock protein, mitochondrial	9	10	11	38	26	32	83	71	70	NONE	0
CHD8_HUMAN	292162	CHD8	Chromodomain-helicase-DNA-binding protein 8	0	1	0	0	0	0	0	0	0	NONE	0
CHDH_HUMAN	66058	CHDH	Choline dehydrogenase, mitochondrial	0	0	0	0	0	0	1	1	0	NONE	0
CHM2A_HUMAN	25088	CHMP2A	Charged multivesicular body protein 2a	0	0	0	1	1	0	0	0	0	NONE	0
CHM4B_HUMAN	24935	CHMP4B	Charged multivesicular body protein 4b	0	0	0	1	1	0	3	3	1	NONE	0
CHM4C_HUMAN	26394	CHMP4C	Charged multivesicular body protein 4c	0	0	0	0	0	0	2	2	0	NONE	0

CHMP6_HUMAN	23527	CHMP6	Charged multivesicular body protein 6	0	0	0	0	0	0	1	1	1	NONE	0
CHSS1_HUMAN	92353	CHSY1	Chondroitin sulfate synthase 1	0	0	0	0	0	0	0	0	1	NONE	0
CHSTD_HUMAN	39409	CHST13	Carbohydrate sulfotransferase 13	0	0	0	0	0	0	1	0	0	1	10-32
CIO85_HUMAN	20780	C9orf85	Uncharacterized protein C9orf85	1	1	0	0	0	0	0	0	0	NONE	0
CILP2_HUMAN	128492	CILP2	Cartilage intermediate layer protein 2	0	0	0	0	1	0	0	0	0	1	1-21
CISD1_HUMAN	12362	CISD1	CDGSH iron-sulfur domain-containing protein 1	0	0	0	2	2	1	0	0	0	1	10-31
CISY_HUMAN	51908	CS	Citrate synthase, mitochondrial	0	0	0	4	2	2	4	5	4	NONE	0
CK5P3_HUMAN	57227	CDK5RAP3	CDK5 regulatory subunit-associated protein 3	0	0	0	0	0	0	0	1	0	NONE	0
CKAP4_HUMAN	66097	CKAP4	Cytoskeleton-associated protein 4	7	7	8	16	14	15	14	15	15	1	104-126
CKAP5_HUMAN	227062	CKAP5	Cytoskeleton-associated protein 5	1	0	0	2	0	1	0	0	0	NONE	0
CKLF3_HUMAN	19929	CMTM3	CKLF-like MARVEL transmembrane domain-containing protein 3	0	0	0	0	0	0	0	0	1	4	20-41,56-78,99-121,131-153
CL079_HUMAN	13786	LINC01619	Uncharacterized protein encoded by LINC01619	0	0	0	0	0	0	0	0	1	NONE	0
CLGN_HUMAN	70451	CLGN	Calmeglin	0	0	0	0	0	0	1	1	2	3	1-23,401-423,471-493
CLH1_HUMAN	193260	CLTC	Clathrin heavy chain 1	17	11	14	14	17	16	6	7	4	NONE	0
CLH2_HUMAN	189020	CLTCL1	Clathrin heavy chain 2	4	2	1	1	3	4	1	1	1	NONE	0
CLN6_HUMAN	36010	CLN6	Ceroid-lipofuscinosis neuronal protein 6	1	1	1	0	0	1	1	0	1	4	109-131,176-198,226-247,258-280
CLPP_HUMAN	30446	CLPP	ATP-dependent Clp protease proteolytic subunit, mitochondrial	0	0	0	1	0	0	0	0	0	NONE	0
CLPT1_HUMAN	76277	CLPTM1	Cleft lip and palate transmembrane protein 1	0	0	0	1	0	0	2	2	2	5	356-378,400-422,476-498,505-527,559-581
CMC1_HUMAN	75114	SLC25A12	Calcium-binding mitochondrial carrier protein Aralar1	0	0	0	0	0	0	2	3	2	NONE	0
CMC2_HUMAN	74528	SLC25A13	Calcium-binding mitochondrial carrier protein Aralar2	0	0	0	0	0	0	7	7	6	NONE	0
CN37_HUMAN	47948	CNP	2',3'-cyclic-nucleotide 3'-phosphodiesterase	0	0	0	0	1	0	10	9	12	NONE	0
CND1_HUMAN	158508	NCAPD2	Condensin complex subunit 1	1	0	1	0	0	0	0	0	0	NONE	0
CNN3_HUMAN	36562	CNN3	Calponin-3	1	1	0	0	0	0	0	0	0	NONE	0
CNPY2_HUMAN	20981	CNPY2	Protein canopy homolog 2	0	0	0	0	0	0	1	2	2	NONE	0
CO3_HUMAN	188569	C3	Complement C3	0	0	0	0	0	0	11	11	10	2	11-33,1082-1104
CO4A_HUMAN	194261	C4A	Complement C4-A	0	0	0	0	0	0	2	1	1	4	1-19,24-46,871-893,895-917
CO4B_HUMAN	194170	C4B	Complement C4-B	0	0	0	0	0	0	2	1	1	NONE	0
CO5_HUMAN	189897	C5	Complement C5	0	0	0	0	1	1	1	1	0	NONE	0
COA3_HUMAN	11724	COA3	Cytochrome c oxidase assembly factor 3 homolog, mitochondrial	0	0	0	0	0	0	1	2	2	1	56-78
COF1_HUMAN	18719	CFL1	Cofilin-1	18	15	16	10	10	8	3	2	1	NONE	0
COF2_HUMAN	18839	CFL2	Cofilin-2	5	4	5	2	2	3	1	1	1	NONE	0
COMT_HUMAN	30474	COMT	Catechol O-methyltransferase	0	0	0	0	0	1	1	1	1	2	5-27,31-53
COPA_HUMAN	139797	COPA	Coatamer subunit alpha	0	0	0	2	1	2	2	2	3	NONE	0
COPB_HUMAN	108214	COPB1	Coatamer subunit beta	0	0	0	1	3	1	1	1	1	NONE	0
COPB2_HUMAN	103278	COPB2	Coatamer subunit beta'	0	0	0	2	1	2	1	2	1	NONE	0
COPD_HUMAN	57630	ARCN1	Coatamer subunit delta	0	0	0	0	1	2	0	0	0	NONE	0
COPG1_HUMAN	98967	COPG1	Coatamer subunit gamma-1	0	0	0	1	0	0	0	0	0	NONE	0
COPT1_HUMAN	21190	SLC31A1	High affinity copper uptake protein 1	0	0	0	0	0	0	1	1	1	2	69-91,141-163
COR1C_HUMAN	53899	CORO1C	Coronin-1C	3	4	2	0	1	1	0	0	0	NONE	0
CORO6_HUMAN	53185	CORO6	Coronin-6	0	1	0	0	0	0	0	0	0	NONE	0
COTL1_HUMAN	16049	COTL1	Coactosin-like protein	0	0	0	0	0	0	0	0	0	NONE	0
COX2_HUMAN	25719	MT-CO2	Cytochrome c oxidase subunit 2	0	0	0	1	1	0	3	3	3	2	22-44,61-83
COX20_HUMAN	13511	COX20	Cytochrome c oxidase assembly protein COX20, mitochondrial	1	0	0	0	0	0	1	0	1	NONE	0
COX3_HUMAN	29988	MT-CO3	Cytochrome c oxidase subunit 3	1	1	1	1	0	1	2	2	2	7	13-34,37-59,79-101,130-152,161-183,199-221,240-261
COX41_HUMAN	19621	COX41	Cytochrome c oxidase subunit 4 isoform 1, mitochondrial	0	0	0	1	2	2	4	4	5	1	101-123
COX5A_HUMAN	16923	COX5A	Cytochrome c oxidase subunit 5A, mitochondrial	0	0	0	1	1	2	5	3	3	NONE	0
COX5B_HUMAN	13915	COX5B	Cytochrome c oxidase subunit 5B, mitochondrial	0	0	0	1	1	1	2	3	2	NONE	0
COX6C_HUMAN	8776	COX6C	Cytochrome c oxidase subunit 6C	0	0	0	0	0	1	2	2	2	1	20-38
CP20A_HUMAN	52741	CYP20A1	Cytochrome P450 20A1	0	0	0	0	0	0	2	2	1	1	3-25
CP250_HUMAN	281880	CEP250	Centrosome-associated protein CEP250	0	0	0	0	0	1	0	0	0	NONE	0
CP27A_HUMAN	60595	CYP27A1	Sterol 26-hydroxylase, mitochondrial	0	0	0	0	0	0	4	3	4	NONE	0
CP51A_HUMAN	57169	CYP51A1	Lanosterol 14-alpha demethylase	0	0	0	0	0	0	3	3	3	2	1-23,35-57
CPNE3_HUMAN	60947	CPNE3	Copine-3	0	0	0	1	2	0	0	0	0	NONE	0
CPSM_HUMAN	165975	CPS1	Carbamoyl-phosphate synthase [ammonia], mitochondrial	0	0	0	23	24	28	0	0	0	NONE	0
CPT1A_HUMAN	88995	CPT1A	Carnitine O-palmitoyltransferase 1, liver isoform	0	0	0	0	0	0	0	1	0	2	51-73,103-125
CRTAP_HUMAN	47159	CRTAP	Cartilage-associated protein	0	0	0	0	0	0	0	1	0	1	7-25
CSN1_HUMAN	56071	GPS1	COP9 signalosome complex subunit 1	0	0	0	0	0	0	1	1	1	NONE	0
CSPG4_HUMAN	251067	CSPG4	Chondroitin sulfate proteoglycan 4	0	0	0	11	9	7	0	0	0	2	11-33,2217-2239

CSRP1_HUMAN	21409	CSRP1	Cysteine and glycine-rich protein 1	2	4	4	2	2	2	0	0	0	NONE	0
CSTF3_HUMAN	83325	CSTF3	Cleavage stimulation factor subunit 3	0	0	0	0	0	0	0	1	0	NONE	0
CTGE4_HUMAN	88276	CTAGE4	cTAGE family member 4	0	0	0	0	0	1	0	0	0	1	40-62
CTGE8_HUMAN	88364	CTAGE8	cTAGE family member 8	0	0	0	0	0	1	0	0	0	1	40-62
CTGE9_HUMAN	88240	CTAGE9	cTAGE family member 9	0	0	0	0	0	1	0	0	0	1	40-62
CTNA1_HUMAN	100693	CTNNA1	Catenin alpha-1	0	0	0	3	2	1	0	0	0	NONE	0
CTNA2_HUMAN	106045	CTNNA2	Catenin alpha-2	0	0	0	2	0	0	0	0	0	NONE	0
CTNA3_HUMAN	100772	CTNNA3	Catenin alpha-3	0	0	0	0	1	0	0	0	0	NONE	0
CTNB1_HUMAN	86069	CTNNB1	Catenin beta-1	1	1	0	1	1	1	11	8	9	NONE	0
CTND1_HUMAN	108674	CTNND1	Catenin delta-1	0	0	0	0	0	0	1	0	0	NONE	0
CTR1_HUMAN	68449	SLC7A1	High affinity cationic amino acid transporter 1	0	0	2	0	1	1	0	0	0	14	34-56,64-86,104-126,162-184,188-210,242-264,290-312,346-368,383-405,409-430,492-514,525-547,558-580,584-606
CTR2_HUMAN	72424	SLC7A2	Cationic amino acid transporter 2	0	0	0	0	1	1	1	0	1	14	36-58,66-88,106-128,164-186,191-213,244-266,291-313,329-351,386-408,413-434,492-514,524-545,556-578,583-605
CTSR2_HUMAN	62041	CATSPER2	Cation channel sperm-associated protein 2	0	0	0	1	0	0	0	0	0	6	104-126,143-165,188-210,235-257,285-307,320-342
CX7A2_HUMAN	9390	COX7A2	Cytochrome c oxidase subunit 7A2, mitochondrial	0	0	0	0	0	0	1	1	1	1	53-75
CXL11_HUMAN	10643	CXCL11	C-X-C motif chemokine 11	0	0	0	0	0	0	1	1	0	1	12-34
CY1_HUMAN	35741	CYC1	Cytochrome c1, heme protein, mitochondrial	0	0	0	2	1	1	2	3	3	1	288-306
CY24A_HUMAN	21113	CYBA	Cytochrome b-245 light chain	0	0	0	0	0	0	1	1	1	3	10-31,37-53,97-119
CYB5_HUMAN	15321	CYB5A	Cytochrome b5	0	0	0	0	0	0	10	5	6	1	107-129
CYB5B_HUMAN	16436	CYB5B	Cytochrome b5 type B	0	0	1	1	1	1	13	9	8	1	121-142
CYBC1_HUMAN	20875	CYBC1	Cytochrome b-245 chaperone 1	0	0	0	0	0	0	1	0	1	NONE	0
CYC_HUMAN	11855	CYCS	Cytochrome c	1	0	1	0	0	0	1	1	1	NONE	0
CYTA_HUMAN	11000	CSTA	Cystatin-A	0	0	0	0	0	0	0	0	1	NONE	0
CYTB_HUMAN	11190	CSTB	Cystatin-B	0	0	0	1	1	2	0	0	0	NONE	0
CYTSB_HUMAN	119197	SPECC1	Cytospin-B	0	0	0	0	1	0	0	0	0	NONE	0
D19L2_HUMAN	88172	DPY19L2	Probable C-mannosyltransferase DPY19L2	0	0	0	1	0	0	0	0	0	7	107-129,196-218,242-264,268-290,300-321,334-356,371-393
DAD1_HUMAN	12660	DAD1	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit DAD1	0	0	0	0	0	0	4	2	2	3	26-48,55-77,92-113
DAF_HUMAN	42400	CD55	Complement decay-accelerating factor	0	0	0	12	8	10	0	0	0	NONE	0
DAG1_HUMAN	97723	DAG1	Dystroglycan	0	0	0	1	0	0	1	0	0	2	6-28,752-774
DAP1_HUMAN	11158	DAP	Death-associated protein 1	0	0	0	0	1	0	0	0	0	NONE	0
DBLOH_HUMAN	27342	DIABLO	Diablo homolog, mitochondrial	0	0	0	1	0	0	0	0	0	NONE	0
DBNL_HUMAN	48463	DBNL	Drebrin-like protein	1	1	1	0	0	0	0	0	0	NONE	0
DC1I2_HUMAN	71811	DYNC1I2	Cytoplasmic dynein 1 intermediate chain 2	0	0	0	0	1	1	0	0	0	NONE	0
DCAKD_HUMAN	26647	DCAKD	Dephospho-CoA kinase domain-containing protein	0	0	0	0	0	0	1	1	1	2	18-40,206-228
DCBD2_HUMAN	85893	DCBLD2	Discoidin, CUB and LCCL domain-containing protein 2	2	2	1	0	0	0	0	0	0	3	13-35,45-67,528-550
DCTN1_HUMAN	142348	DCTN1	Dynactin subunit 1	0	0	0	1	1	0	0	0	0	NONE	0
DCXR_HUMAN	26182	DCXR	L-xylulose reductase	0	0	0	0	0	0	1	1	2	NONE	0
DDAH1_HUMAN	31444	DDAH1	N(G),N(G)-dimethylarginine dimethylaminohydrolase 1	0	0	0	0	0	1	0	0	0	NONE	0
DDI1_HUMAN	44610	DDI1	Protein DDI1 homolog 1	0	0	0	0	1	1	0	1	0	NONE	0
DDR GK_HUMAN	35589	DDR GK1	DDR GK domain-containing protein 1	0	0	0	0	0	0	3	1	1	1	2-23
DDX17_HUMAN	80906	DDX17	Probable ATP-dependent RNA helicase DDX17	1	1	0	0	0	0	1	1	1	NONE	0
DDX3X_HUMAN	73597	DDX3X	ATP-dependent RNA helicase DDX3X	2	1	1	4	4	3	0	0	0	NONE	0
DDX3Y_HUMAN	73564	DDX3Y	ATP-dependent RNA helicase DDX3Y	2	1	1	4	4	3	0	0	0	NONE	0
DDX5_HUMAN	69618	DDX5	Probable ATP-dependent RNA helicase DDX5	1	1	0	0	0	0	1	1	1	NONE	0
DDX51_HUMAN	72983	DDX51	ATP-dependent RNA helicase DDX51	1	0	0	0	0	0	0	0	0	NONE	0
DDX53_HUMAN	71509	DDX53	Probable ATP-dependent RNA helicase DDX53	0	0	0	0	0	1	0	0	0	NONE	0
DDX6_HUMAN	54781	DDX6	Probable ATP-dependent RNA helicase DDX6	0	0	0	0	0	1	0	0	0	NONE	0
DECR_HUMAN	36330	DECR1	2,4-dienoyl-CoA reductase, mitochondrial	0	0	0	0	0	0	2	0	0	NONE	0
DECR2_HUMAN	31100	DECR2	Peroxisomal 2,4-dienoyl-CoA reductase	0	0	0	0	0	0	1	1	1	NONE	0
DEDD_HUMAN	37227	DEDD	Death effector domain-containing protein	0	0	0	0	1	0	0	0	0	NONE	0
DEFI6_HUMAN	74435	DEF6	Differentially expressed in FDCP 6 homolog	0	0	0	0	0	0	0	1	0	NONE	0
DEND3_HUMAN	137741	DENND3	DENN domain-containing protein 3	0	0	1	0	0	0	0	0	0	NONE	0
DESM_HUMAN	53560	DES	Desmin	1	1	1	3	3	4	0	0	0	NONE	0
DESP_HUMAN	334021	DSP	Desmoplakin	0	0	0	0	1	2	0	0	0	NONE	0
DEST_HUMAN	18950	DSTN	Destrin	3	3	3	0	1	2	0	0	0	NONE	0
DGCR8_HUMAN	86789	DGCR8	Microprocessor complex subunit DGCR8	1	0	0	0	0	0	0	0	0	NONE	0

DHB11_HUMAN	33257	HSD17B11	Estradiol 17-beta-dehydrogenase 11	0	0	0	0	0	0	0	3	4	1	4-26
DHB12_HUMAN	34416	HSD17B12	Very-long-chain 3-oxoacyl-CoA reductase	0	1	1	0	0	0	12	13	13	1	10-32
DHB2_HUMAN	43441	HSD17B2	Estradiol 17-beta-dehydrogenase 2	0	0	0	0	0	0	1	1	1	3	5-26,33-55,60-82
DHB4_HUMAN	80092	HSD17B4	Peroxisomal multifunctional enzyme type 2	0	0	0	4	2	3	25	16	22	NONE	0
DHC24_HUMAN	60803	DHCR24	Delta(24)-sterol reductase	0	0	0	0	0	0	9	6	10	2	4-26,37-59
DHCR7_HUMAN	55195	DHCR7	7-dehydrocholesterol reductase	0	0	0	1	1	1	8	13	9	7	36-58,96-118,136-158,180-202,265-287,305-327,330-352
DHE3_HUMAN	61701	GLUD1	Glutamate dehydrogenase 1, mitochondrial	0	0	0	0	0	1	23	16	19	NONE	0
DHE4_HUMAN	61738	GLUD2	Glutamate dehydrogenase 2, mitochondrial	0	0	0	0	0	1	17	11	11	NONE	0
DHRS2_HUMAN	30307	DHRS2	Dehydrogenase/reductase SDR family member 2, mitochondrial	0	0	0	0	0	0	32	35	35	NONE	0
DHX9_HUMAN	142181	DHX9	ATP-dependent RNA helicase A	0	0	0	0	0	0	0	0	0	NONE	0
DIAP1_HUMAN	141942	DIAPH1	Protein diaphanous homolog 1	0	0	0	1	1	0	0	0	0	NONE	0
DIC_HUMAN	31719	SLC25A10	Mitochondrial dicarboxylate carrier	0	0	0	0	0	0	4	7	5	NONE	0
DIRA1_HUMAN	22600	DIRAS1	GTP-binding protein Di-Ras1	0	0	0	1	0	0	1	1	1	NONE	0
DIRA2_HUMAN	22813	DIRAS2	GTP-binding protein Di-Ras2	0	0	0	1	0	0	1	1	1	NONE	0
DJB11_HUMAN	40774	DNAJB11	DnaJ homolog subfamily B member 11	0	0	0	2	2	3	5	4	7	1	4-26
DJB12_HUMAN	42062	DNAJB12	DnaJ homolog subfamily B member 12	0	0	0	0	0	0	2	2	1	1	243-265
DJC13_HUMAN	256533	DNAJC13	DnaJ homolog subfamily C member 13	0	0	0	1	1	1	1	0	1	1	1976-1996
DLDH_HUMAN	54713	DLD	Dihydrolipoyl dehydrogenase, mitochondrial	0	0	0	1	0	2	2	2	2	NONE	0
DLG5_HUMAN	213868	DLG5	Disks large homolog 5	0	0	0	1	1	0	0	0	0	NONE	0
DMD_HUMAN	428537	DMD	Dystrophin	0	0	0	0	2	0	0	0	0	NONE	0
DNHD1_HUMAN	533644	DNHD1	Dynein heavy chain domain-containing protein 1	0	0	0	0	0	0	1	1	0	NONE	0
DNJA1_HUMAN	45581	DNAJA1	DnaJ homolog subfamily A member 1	0	1	1	1	1	1	3	1	1	NONE	0
DNJA2_HUMAN	46344	DNAJA2	DnaJ homolog subfamily A member 2	0	0	0	0	1	0	1	0	0	NONE	0
DNJB4_HUMAN	38011	DNAJB4	DnaJ homolog subfamily B member 4	0	1	0	0	0	0	0	0	0	NONE	0
DNJC5_HUMAN	22933	DNAJC5	DnaJ homolog subfamily C member 5	0	0	0	0	0	0	2	0	0	1	104-126
DNM1L_HUMAN	82339	DNM1L	Dynamin-1-like protein	0	0	0	0	0	1	0	0	0	NONE	0
DNMBP_HUMAN	178719	DNMBP	Dynamin-binding protein	0	0	0	0	0	1	0	0	0	NONE	0
DOCK5_HUMAN	216198	DOCK5	Dedicator of cytokinesis protein 5	0	0	0	0	1	0	0	0	0	2	689-711,758-779
DOK3_HUMAN	53996	DOK3	Docking protein 3	1	0	1	0	1	0	0	0	0	NONE	0
DPF3_HUMAN	44254	DPF3	Zinc finger protein DPF3	0	0	0	0	0	0	0	0	0	NONE	0
DPM1_HUMAN	29673	DPM1	Dolichol-phosphate mannosyltransferase subunit 1	0	0	0	0	0	0	1	1	0	NONE	0
DPOD1_HUMAN	125035	POLD1	DNA polymerase delta catalytic subunit	0	0	0	0	1	1	1	1	1	NONE	0
DPP4_HUMAN	88907	DPP4	Dipeptidyl peptidase 4	0	0	0	0	0	0	16	16	16	1	6-28
DREB_HUMAN	71842	DBN1	Drebrin	0	0	0	0	1	0	0	0	0	NONE	0
DSG2_HUMAN	123016	DSG2	Desmoglein-2	1	1	0	7	7	5	0	0	0	2	3-25,612-634
DUS4L_HUMAN	36534	DUS4L	tRNA-dihydrouridine(20a/20b) synthase [NAD(P)+]-like	0	0	0	0	0	0	0	1	0	NONE	0
DUSTY_HUMAN	106621	DSTYK	Dual serine/threonine and tyrosine protein kinase	0	0	0	1	0	0	0	0	0	1	826-848
DUT_HUMAN	26832	DUT	Deoxyuridine 5'-triphosphate nucleotidohydrolase, mitochondrial	0	0	0	2	2	2	0	0	0	NONE	0
DYH3_HUMAN	473776	DNAH3	Dynein heavy chain 3, axonemal	0	0	0	0	0	1	0	0	0	NONE	0
DYHC1_HUMAN	534809	DYNC1H1	Cytoplasmic dynein 1 heavy chain 1	1	3	1	1	1	1	1	1	0	NONE	0
DYL1_HUMAN	10530	DYNLL1	Dynein light chain 1, cytoplasmic	0	1	0	1	1	0	1	1	1	NONE	0
DYL2_HUMAN	10350	DYNLL2	Dynein light chain 2, cytoplasmic	0	0	0	0	1	0	0	0	0	NONE	0
DYSF_HUMAN	239254	DYSF	Dysferlin	1	1	1	0	0	0	0	0	0	1	2045-2067
E41L2_HUMAN	113032	EPB41L2	Band 4.1-like protein 2	2	2	1	0	0	0	0	0	0	NONE	0
EBP_HUMAN	26564	EBP	3-beta-hydroxysteroid-Delta(8),Delta(7)-isomerase	1	1	1	4	5	6	7	6	8	5	34-56,68-90,117-139,148-170,185-207
ECH1_HUMAN	36136	ECH1	Delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase, mitochondrial	0	0	0	4	5	2	3	1	4	NONE	0
ECHA_HUMAN	83688	HADHA	Trifunctional enzyme subunit alpha, mitochondrial	0	0	0	0	1	1	27	25	23	NONE	0
ECHB_HUMAN	51547	HADHB	Trifunctional enzyme subunit beta, mitochondrial	0	0	0	1	1	1	16	18	15	NONE	0
ECHM_HUMAN	31823	ECHS1	Enoyl-CoA hydratase, mitochondrial	0	0	0	1	1	2	1	0	1	NONE	0
ECI1_HUMAN	33080	ECI1	Enoyl-CoA delta isomerase 1, mitochondrial	0	0	0	1	0	1	0	1	1	NONE	0
ECI2_HUMAN	43957	ECI2	Enoyl-CoA delta isomerase 2, mitochondrial	0	0	0	0	0	0	1	0	0	NONE	0
ECT2L_HUMAN	105782	ECT2L	Epithelial cell-transforming sequence 2 oncogene-like	0	0	0	0	0	0	1	1	1	NONE	0
EF1A1_HUMAN	50451	EEF1A1	Elongation factor 1-alpha 1	16	17	18	17	28	22	14	12	14	NONE	0
EF1A2_HUMAN	50780	EEF1A2	Elongation factor 1-alpha 2	10	10	10	10	17	11	10	6	9	NONE	0
EF1A3_HUMAN	50495	EEF1A1P5	Putative elongation factor 1-alpha-like 3	16	17	18	17	28	22	14	12	14	NONE	0
EF1D_HUMAN	31217	EEF1D	Elongation factor 1-delta	2	2	1	3	1	2	0	0	0	NONE	0
EF1G_HUMAN	50429	EEF1G	Elongation factor 1-gamma	1	5	2	3	5	2	0	0	0	NONE	0
EF2_HUMAN	96246	EEF2	Elongation factor 2	8	10	8	18	17	19	5	4	5	NONE	0

EFTU_HUMAN	49852	TUFM	Elongation factor Tu, mitochondrial	0	3	0	6	5	3	12	10	7	NONE	0
EGFR_HUMAN	137612	EGFR	Epidermal growth factor receptor	3	4	5	3	2	2	0	0	0	2	7-27,646-668
EIF3A_HUMAN	166867	EIF3A	Eukaryotic translation initiation factor 3 subunit A	0	0	0	0	1	0	0	0	0	NONE	0
EIF3B_HUMAN	92482	EIF3B	Eukaryotic translation initiation factor 3	1	2	2	0	0	0	0	0	0	NONE	0
EIF3C_HUMAN	105962	EIF3C	Eukaryotic translation initiation factor 3 subunit C	0	0	0	0	1	0	0	0	0	2	601-623,678-700
EIF3H_HUMAN	40076	EIF3H	Eukaryotic translation initiation factor 3 subunit H	1	1	1	3	2	4	1	0	1	NONE	0
EIF3J_HUMAN	29159	EIF3J	Eukaryotic translation initiation factor 3 subunit J	0	0	0	1	0	0	0	0	0	NONE	0
EIF3CL_HUMAN	106091	EIF3CL	Eukaryotic translation initiation factor 3 subunit C-like protein	0	0	0	0	1	0	0	0	0	2	602-624,679-701
ELOV5_HUMAN	35669	ELOVL5	Elongation of very long chain fatty acids protein 5	0	0	0	0	0	0	1	1	1	6	31-52,63-85,141-163,168-190,203-225,230-252
ELP2_HUMAN	94266	ELP2	Elongator complex protein 2	0	0	0	0	0	1	0	0	0	NONE	0
EMC1_HUMAN	112145	EMC1	ER membrane protein complex subunit 1	0	0	0	0	0	0	2	4	2	2	7-29,958-979
EMC7_HUMAN	26454	EMC7	ER membrane protein complex subunit 7	0	0	0	0	0	0	1	0	0	2	1-23,159-181
EMC8_HUMAN	24214	EMC8	ER membrane protein complex subunit 8	0	0	0	0	0	0	1	1	1	NONE	0
EMD_HUMAN	29033	EMD	Emerin	0	0	0	1	0	0	1	0	1	1	225-247
EMP2_HUMAN	19585	EMP2	Epithelial membrane protein 2	0	0	0	1	0	0	0	0	0	4	6-28,65-87,93-114,141-163
ENOA_HUMAN	47481	ENO1	Alpha-enolase	11	11	9	18	23	16	5	8	3	NONE	0
ENOB_HUMAN	47299	ENO3	Beta-enolase	1	1	0	2	3	1	0	0	0	NONE	0
ENOG_HUMAN	47581	ENO2	Gamma-enolase	0	0	0	0	1	0	0	0	0	NONE	0
ENPL_HUMAN	92696	HSP90B1	Endoplasmic	27	19	26	44	48	37	79	77	76	1	1-23
ENPL_HUMAN	46343	HSP90B2P	Putative endoplasmic-like protein	3	1	3	5	6	4	7	9	10	NONE	0
ENTP5_HUMAN	47886	ENTPD5	Ectonucleoside triphosphate diphosphohydrolase 5	0	0	0	0	0	0	0	1	0	2	2-24,32-54
EPCAM_HUMAN	35594	EPCAM	Epithelial cell adhesion molecule	0	0	0	0	0	0	1	0	0	2	1-23,263-285
EPHA2_HUMAN	109679	EPHA2	Ephrin type-A receptor 2	9	10	16	0	0	0	0	0	0	2	4-25,535-557
EPHA3_HUMAN	111714	EPHA3	Ephrin type-A receptor 3	0	0	1	0	0	0	0	0	0	2	4-26,544-566
EPHA4_HUMAN	111443	EPHA4	Ephrin type-A receptor 4	0	0	1	0	0	0	0	0	0	2	4-26,547-569
EPHA5_HUMAN	116725	EPHA5	Ephrin type-A receptor 5	0	0	1	0	0	0	0	0	0	2	38-60,574-596
EPHA6_HUMAN	117901	EPHA6	Ephrin type-A receptor 6	0	0	2	0	0	0	0	0	0	2	6-27,548-570
EPHA7_HUMAN	113735	EPHA7	Ephrin type-A receptor 7	0	0	2	0	0	0	0	0	0	2	9-31,556-578
EPHA8_HUMAN	112699	EPHA8	Ephrin type-A receptor 8	0	0	1	0	0	0	0	0	0	2	7-29,542-563
EPHB1_HUMAN	111297	EPHB1	Ephrin type-B receptor 1	0	0	2	0	0	0	0	0	0	2	1-23,540-562
EPHB2_HUMAN	119128	EPHB2	Ephrin type-B receptor 2	0	0	2	0	0	0	0	0	0	2	6-28,542-564
EPHB3_HUMAN	111856	EPHB3	Ephrin type-B receptor 3	0	0	2	0	0	0	0	0	0	2	14-36,558-580
EPHB4_HUMAN	109741	EPHB4	Ephrin type-B receptor 4	0	0	2	0	0	0	0	0	0	2	1-23,539-561
EPIPL_HUMAN	557768	EPPK1	Epiplakin	0	0	0	5	5	0	0	0	0	NONE	0
EPN4_HUMAN	68273	CLINT1	Clathrin interactor 1	0	0	0	1	1	0	0	0	0	NONE	0
ER6L2_HUMAN	178955	ERCC6L2	DNA excision repair protein ERCC-6-like 2	0	0	0	0	0	0	0	1	1	NONE	0
ERAP1_HUMAN	107235	ERAP1	Endoplasmic reticulum aminopeptidase 1	0	0	0	0	1	0	0	0	0	1	5-27
ERBB2_HUMAN	141185	ERBB2	Receptor tyrosine-protein kinase erbB-2	0	1	1	1	1	0	0	0	0	2	1-23,652-674
ERBB4_HUMAN	150020	ERBB4	Receptor tyrosine-protein kinase erbB-4	0	1	1	1	1	0	0	0	0	2	4-22,651-673
ERC6L_HUMAN	141985	ERCC6L	DNA excision repair protein ERCC-6-like	0	0	0	0	0	0	1	0	0	NONE	0
ERD21_HUMAN	24754	KDELRL1	ER lumen protein-retaining receptor 1	0	0	0	0	0	0	2	1	0	7	2-24,37-59,61-81,95-117,122-144,147-169,177-199
ERD22_HUMAN	24422	KDELRL2	ER lumen protein-retaining receptor 2	0	0	0	1	1	1	4	5	3	6	4-25,36-58,60-81,122-144,147-169,177-199
ERG1_HUMAN	64282	SQLE	Squalene monooxygenase	0	0	0	0	0	0	3	2	2	4	20-42,126-146,510-532,548-570
ERG24_HUMAN	46718	TM7SF2	Delta(14)-sterol reductase	0	0	0	0	0	0	1	0	0	5	14-36,60-81,100-122,136-158,282-304
ERG28_HUMAN	15968	ERG28	Probable ergosterol biosynthetic protein 28	0	0	0	0	0	0	1	0	1	4	5-27,52-74,76-98,107-129
ERG7_HUMAN	84453	LSS	Lanosterol synthase	0	0	0	0	0	0	2	1	1	NONE	0
ERG13_HUMAN	43765	ERGIC3	Endoplasmic reticulum-Golgi intermediate compartment protein 3	0	0	0	1	1	2	1	0	0	1	24-46
ERLN1_HUMAN	39072	ERLN1	Erlin-1	0	0	1	0	0	0	7	3	4	1	8-30
ERLN2_HUMAN	38044	ERLN2	Erlin-2	0	0	0	0	0	0	4	3	3	1	3-25
ERMP1_HUMAN	101023	ERMP1	Endoplasmic reticulum metalloproteinase 1	0	0	0	0	0	0	1	0	2	10	73-95,397-412,418-433,455-477,489-510,521-543,547-569,582-604,619-641,651-673
ERO1A_HUMAN	55213	ERO1A	ERO1-like protein alpha	0	0	0	0	0	0	5	3	3	NONE	0
ERO1B_HUMAN	54307	ERO1B	ERO1-like protein beta	0	0	0	0	0	0	1	0	0	NONE	0
ERP29_HUMAN	29032	ERP29	Endoplasmic reticulum resident protein 29	0	0	0	1	1	2	8	8	9	NONE	0
ERP44_HUMAN	47341	ERP44	Endoplasmic reticulum resident protein 44	0	0	0	0	0	1	1	1	1	NONE	0
ESPL1_HUMAN	236564	ESPL1	Separin	0	0	0	0	0	0	0	1	0	NONE	0
ESS2_HUMAN	52593	ESS2	Splicing factor ESS-2 homolog	0	0	0	1	1	0	0	0	0	NONE	0
EST1_HUMAN	62766	CES1	Liver carboxylesterase 1	0	0	0	0	0	0	1	3	2	NONE	0

EST2_HUMAN	62109	CES2	Cocaine esterase	0	0	0	0	0	0	3	3	4	3	9-31,141-163,165-187
ESYT1_HUMAN	123293	ESYT1	Extended synaptotagmin-1	0	0	0	0	0	0	2	6	6	1	62-84
ESYT2_HUMAN	102807	ESYT2	Extended synaptotagmin-2	1	0	0	3	4	5	2	2	3	2	102-124,128-149
ETF_A_HUMAN	35400	ETFA	Electron transfer flavoprotein subunit alpha, mitochondrial	0	0	0	2	1	0	0	1	1	NONE	0
ETFB_HUMAN	28054	ETFB	Electron transfer flavoprotein subunit beta	0	0	0	3	5	4	0	0	0	NONE	0
EX3L4_HUMAN	80416	EXOC3L4	Exocyst complex component 3-like protein 4	0	0	0	1	0	0	0	0	0	NONE	0
EXOG_HUMAN	41344	EXOG	Nuclease EXOG, mitochondrial	1	1	1	0	0	0	0	0	0	NONE	0
EYA4_HUMAN	69918	EYA4	Eyes absent homolog 4	0	0	0	0	1	0	0	0	1	NONE	0
EZR_HUMAN	69484	EZR	Ezrin	24	18	22	13	12	12	0	0	0	NONE	0
F10A1_HUMAN	41477	ST13	Hsc70-interacting protein	0	0	0	1	2	2	0	0	0	NONE	0
F10A5_HUMAN	41579	ST13P5	Putative protein FAM10A5	0	0	0	0	1	0	0	0	0	NONE	0
F162A_HUMAN	17559	FAM162A	Protein FAM162A	0	0	0	0	0	1	2	1	1	1	102-122
FA30A_HUMAN	15015	FAM30A	Putative uncharacterized protein FAM30A	0	0	0	0	0	0	1	0	0	NONE	0
FA49A_HUMAN	37688	FAM49A	Protein FAM49A	0	0	1	0	0	0	0	0	0	NONE	0
FA49B_HUMAN	37010	FAM49B	Protein FAM49B	1	1	2	0	1	1	0	0	0	NONE	0
FA8_HUMAN	268323	F8	Coagulation factor VIII	0	0	0	0	0	0	1	0	0	NONE	0
FABP5_HUMAN	15497	FABP5	Fatty acid-binding protein 5	0	0	0	0	0	0	0	0	1	NONE	0
FABPL_HUMAN	14256	FABP1	Fatty acid-binding protein, liver	0	0	0	0	0	0	3	0	0	NONE	0
FACE1_HUMAN	55063	ZMPSTE24	CAAX prenyl protease 1 homolog	0	0	0	0	1	0	5	6	7	4	19-40,120-142,172-194,198-220
FADS2_HUMAN	52340	FADS2	Acyl-CoA 6-desaturase	0	0	0	0	0	0	2	2	2	3	129-151,266-288,300-322
FAKD2_HUMAN	82379	FASTKD2	FAST kinase domain-containing protein 2, mitochondrial	0	0	0	0	0	0	0	0	1	NONE	0
FAM3C_HUMAN	24950	FAM3C	Protein FAM3C	0	0	0	0	0	0	0	1	1	1	4-26
FANCI_HUMAN	150769	FANCI	Fanconi anemia group I protein	0	0	0	1	0	0	0	0	0	NONE	0
FANCM_HUMAN	234840	FANCM	Fanconi anemia group M protein	0	1	1	0	0	0	0	0	0	NONE	0
FARP1_HUMAN	119300	FARP1	FERM, ARHGEF and pleckstrin domain-containing protein 1	0	0	0	3	3	2	2	2	3	NONE	0
FAS_HUMAN	275877	FASN	Fatty acid synthase	0	0	1	17	22	22	28	34	35	NONE	0
FAT2_HUMAN	482097	FAT2	Protocadherin Fat 2	0	0	0	1	0	1	0	1	0	2	1-23,4048-4070
FAT3_HUMAN	505144	FAT3	Protocadherin Fat 3	0	0	0	0	1	1	0	0	0	3	8-30,4107-4128,4155-4176
FB5L3_HUMAN	11299	FABP5P3	Putative fatty acid-binding protein 5-like protein 3	0	0	0	1	0	0	0	0	0	NONE	0
FBP1L_HUMAN	70478	FNBP1L	Formin-binding protein 1-like	0	0	0	1	0	0	0	0	0	NONE	0
FDFT_HUMAN	48597	FDFT1	Squalene synthase	0	0	0	0	0	0	21	18	17	1	380-402
FEN1_HUMAN	42908	FEN1	Flap endonuclease 1	0	0	0	1	0	0	0	0	0	NONE	0
FERM2_HUMAN	78438	FERMT2	Fermitin family homolog 2	0	0	0	3	2	1	0	0	0	NONE	0
FETA_HUMAN	70458	AFP	Alpha-fetoprotein	0	0	0	0	0	0	7	9	8	NONE	0
FETUA_HUMAN	40114	AHSG	Alpha-2-HS-glycoprotein	0	0	0	0	0	0	2	1	1	NONE	0
FGFP1_HUMAN	26875	FGFBP1	Fibroblast growth factor-binding protein 1	0	1	0	0	0	0	0	0	0	1	2-23
FGFR1_HUMAN	92892	FGFR1	Fibroblast growth factor receptor 1	0	0	0	1	2	2	0	0	0	2	3-25,373-395
FGFR2_HUMAN	92992	FGFR2	Fibroblast growth factor receptor 2	0	0	0	1	2	2	0	0	0	2	1-23,378-399
FGFR3_HUMAN	88624	FGFR3	Fibroblast growth factor receptor 3	0	0	0	1	2	2	0	0	0	2	2-23,374-396
FGFR4_HUMAN	88811	FGFR4	Fibroblast growth factor receptor 4	0	0	0	1	2	2	1	0	0	3	2-24,330-351,369-391
FGR_HUMAN	60068	FGR	Tyrosine-protein kinase Fgr	0	0	0	1	2	2	0	0	0	NONE	0
FIBA_HUMAN	95656	FGA	Fibrinogen alpha chain	0	0	0	0	0	0	14	14	11	1	1-20
FIBG_HUMAN	52106	FGG	Fibrinogen gamma chain	0	0	0	0	0	0	6	6	5	NONE	0
FIL1L_HUMAN	130928	FILIP1L	Filamin A-interacting protein 1-like	1	0	0	0	0	0	0	0	0	NONE	0
FILA_HUMAN	435036	FLG	Filaggrin	2	0	0	3	0	0	0	0	3	NONE	0
FILA2_HUMAN	249296	FLG2	Filaggrin-2	0	0	0	0	0	0	0	0	2	NONE	0
FINC_HUMAN	266052	FN1	Fibronectin	0	0	0	0	0	0	7	8	10	NONE	0
FKBP10_HUMAN	64717	FKBP10	Peptidyl-prolyl cis-trans isomerase FKBP10	0	0	0	3	1	3	1	1	1	1	10-32
FKBP2_HUMAN	15810	FKBP2	Peptidyl-prolyl cis-trans isomerase FKBP2	0	0	0	0	0	0	1	1	0	1	4-26
FKBP4_HUMAN	52057	FKBP4	Peptidyl-prolyl cis-trans isomerase FKBP4	4	4	3	7	6	6	0	0	0	NONE	0
FLNA_HUMAN	283301	FLNA	Filamin-A	37	32	27	20	23	24	3	3	2	NONE	0
FLNB_HUMAN	280157	FLNB	Filamin-B	9	5	9	3	4	2	0	0	1	NONE	0
FLNC_HUMAN	293407	FLNC	Filamin-C	2	1	1	0	1	0	0	0	0	1	124-146
FLOT1_HUMAN	47554	FLOT1	Flotillin-1	2	2	1	7	9	10	2	1	2	NONE	0
FLOT2_HUMAN	47434	FLOT2	Flotillin-2	3	2	2	9	11	9	3	4	4	NONE	0
FLVC1_HUMAN	60281	FLVCR1	Feline leukemia virus subgroup C receptor-related protein 1	0	0	0	1	0	1	0	0	0	12	108-130,143-165,175-197,201-223,239-261,272-294,334-356,370-392,402-424,429-451,460-482,492-514
FMNL1_HUMAN	122518	FMNL1	Formin-like protein 1	0	0	0	0	0	1	0	0	0	NONE	0

FMO5_HUMAN	60638	FMO5	Dimethylaniline monooxygenase [N-oxide-forming] 5	0	0	0	0	1	0	0	0	0	2	6-28,512-533
FOLR1_HUMAN	30712	FOLR1	Folate receptor alpha	0	0	0	1	1	0	0	0	0	1	3-25
FPPS_HUMAN	48758	FDP5	Farnesyl pyrophosphate synthase	0	0	0	0	1	0	0	0	0	NONE	0
FPRP_HUMAN	99464	PTGFRN	Prostaglandin F2 receptor negative regulator	0	0	0	5	5	5	0	0	0	2	15-37,833-855
FR1L6_HUMAN	210431	FER1L6	Fer-1-like protein 6	1	0	0	0	0	0	1	1	0	1	1828-1850
FRIH_HUMAN	21383	FTH1	Ferritin heavy chain	0	1	0	0	0	0	0	0	0	NONE	0
FRIL_HUMAN	20064	FTL	Ferritin light chain	0	0	1	0	0	0	0	0	0	NONE	0
FSCN1_HUMAN	55123	FSCN1	Fascin	3	1	2	1	3	2	0	0	0	NONE	0
FUMH_HUMAN	54773	FH	Fumarate hydratase, mitochondrial	0	0	0	4	2	3	1	0	1	NONE	0
FUT10_HUMAN	56629	FUT10	Alpha-(1,3)-fucosyltransferase 10	1	1	1	0	0	0	0	0	0	NONE	0
FXL19_HUMAN	77426	FBXL19	F-box/LRR-repeat protein 19	1	0	0	0	0	0	0	0	0	NONE	0
FYN_HUMAN	61237	FYN	Tyrosine-protein kinase Fyn	0	0	0	2	2	3	0	1	1	NONE	0
G3BP1_HUMAN	52189	G3BP1	Ras GTPase-activating protein-binding protein 1	0	0	0	1	1	0	0	0	0	NONE	0
G3BP2_HUMAN	54145	G3BP2	Ras GTPase-activating protein-binding protein 2	0	0	0	1	1	0	0	0	0	NONE	0
G3P_HUMAN	36201	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase	20	22	22	28	27	29	6	6	5	NONE	0
G3PT_HUMAN	44815	GAPDHS	Glyceraldehyde-3-phosphate dehydrogenase, testis-specific	0	0	0	0	0	1	0	0	0	NONE	0
G6PD_HUMAN	59675	G6PD	Glucose-6-phosphate 1-dehydrogenase	3	4	5	1	1	0	0	0	0	NONE	0
G6PI_HUMAN	63335	GPI	Glucose-6-phosphate isomerase	1	1	0	5	6	6	1	0	1	2	272-294,312-333
GAK1B_HUMAN	58257	GASK1B	Golgi-associated kinase 1B	0	1	1	0	0	0	0	0	0	NONE	0
GALK2_HUMAN	51258	GALK2	N-acetylgalactosamine kinase	0	0	0	0	0	0	0	0	0	NONE	0
GALT2_HUMAN	65433	GALNT2	Polypeptide N-acetylgalactosaminyltransferase 2	0	0	0	1	2	2	0	0	1	1	6-28
GANAB_HUMAN	107263	GANAB	Neutral alpha-glucosidase AB	0	1	1	14	10	11	19	18	18	2	16-36,626-648
GAS7_HUMAN	54679	GAS7	Growth arrest-specific protein 7	0	0	0	0	0	0	1	0	0	NONE	0
GATB_HUMAN	62281	GATB	Glutamyl-tRNA(Gln) amidotransferase subunit B, mitochondrial	0	0	0	0	0	0	0	0	1	NONE	0
GBB1_HUMAN	38151	GNB1	Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1	6	4	3	9	7	8	3	3	3	NONE	0
GBB2_HUMAN	38048	GNB2	Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-2	6	4	4	11	6	9	3	3	3	NONE	0
GBB3_HUMAN	38166	GNB3	Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-3	1	0	0	1	0	1	1	0	0	NONE	0
GBB4_HUMAN	38284	GNB4	Guanine nucleotide-binding protein subunit beta-4	4	3	3	9	5	9	2	2	2	NONE	0
GBF1_HUMAN	208367	GBF1	Golgi-specific brefeldin A-resistance guanine nucleotide exchange factor 1	1	2	1	1	2	2	1	1	1	NONE	0
GBG12_HUMAN	8115	GNG12	Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-12	8	6	8	12	12	12	0	0	0	NONE	0
GBG5_HUMAN	7428	GNG5	Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-5	1	1	2	1	1	1	4	4	3	NONE	0
GBP4_HUMAN	73632	GBP4	Guanylate-binding protein 4	0	0	1	0	0	0	0	0	0	NONE	0
GBRB2_HUMAN	59341	GABRB2	Gamma-aminobutyric acid receptor subunit beta-2	0	0	0	0	0	1	0	0	0	4	8-30,243-265,308-330,490-512
GCC1_HUMAN	87985	GCC1	GRIP and coiled-coil domain-containing protein 1	0	1	1	0	0	0	0	0	0	NONE	0
GCSP_HUMAN	114254	GLDC	Glycine dehydrogenase (decarboxylating), mitochondrial	0	0	0	0	0	0	1	2	2	NONE	0
GDE_HUMAN	176819	AGL	Glycogen debranching enzyme	0	0	0	4	5	4	0	0	0	NONE	0
GDF5O_HUMAN	28422	GDF5OS	Protein GDF5OS, mitochondrial	1	0	0	0	0	0	0	0	0	NONE	0
GDF7_HUMAN	47548	GDF7	Growth/differentiation factor 7	0	1	0	1	0	0	0	0	0	NONE	0
GDIA_HUMAN	51177	GDI1	Rab GDP dissociation inhibitor alpha	0	0	0	0	0	1	0	0	0	NONE	0
GDIB_HUMAN	51087	GDI2	Rab GDP dissociation inhibitor beta	0	0	0	0	1	1	0	0	0	NONE	0
GDIR1_HUMAN	23250	ARHGDI1	Rho GDP-dissociation inhibitor 1	0	0	0	0	0	0	0	0	1	NONE	0
GELS_HUMAN	85698	GSN	Gelsolin	1	0	0	0	0	0	0	0	0	1	7-29
GEM14_HUMAN	121728	GEMIN4	Gem-associated protein 4	1	1	1	1	1	1	1	1	1	NONE	0
GFAP_HUMAN	49907	GFAP	Glial fibrillary acidic protein	2	2	1	1	1	2	2	0	3	NONE	0
GGH_HUMAN	36340	GGH	Gamma-glutamyl hydrolase	0	0	0	1	1	0	0	0	0	1	1-22
GGT1_HUMAN	61714	GGT1	Glutathione hydrolase 1 proenzyme	1	0	0	0	0	0	0	0	0	2	5-27,58-80
GGT2_HUMAN	62074	GGT2	Inactive glutathione hydrolase 2	1	0	0	0	0	0	0	0	0	2	5-27,60-82
GGT3_HUMAN	61919	GGT3P	Putative glutathione hydrolase 3 proenzyme	1	0	0	0	0	0	0	0	0	2	5-27,60-82
GGYF2_HUMAN	150320	GIGYF2	GRB10-interacting GYF protein 2	0	0	0	0	1	1	1	1	0	NONE	0
GHITM_HUMAN	37352	GHITM	Growth hormone-inducible transmembrane protein	0	0	0	0	1	0	1	1	0	7	90-112,130-152,160-182,189-211,216-238,243-265,273-295
GILT_HUMAN	28572	IFI30	Gamma-interferon-inducible lysosomal thiol reductase	0	0	0	7	5	4	0	0	0	2	1-23,57-79
GL1D1_HUMAN	38711	GLT1D1	Glycosyltransferase 1 domain-containing protein 1	0	0	0	0	0	0	0	1	0	NONE	0
GLI1_HUMAN	119598	GLI1	Zinc finger protein GLI1	0	0	0	0	0	0	0	1	0	NONE	0
GLPK_HUMAN	62060	GK	Glycerol kinase	0	0	0	0	0	0	1	1	1	1	531-553
GLPK3_HUMAN	61414	GK3P	Glycerol kinase 3	0	0	0	0	0	0	1	1	1	NONE	0
GLT14_HUMAN	65135	GALNT14	Polypeptide N-acetylgalactosaminyltransferase 14	0	0	0	0	0	1	0	0	1	1	8-27
GLT16_HUMAN	63776	GALNT16	Polypeptide N-acetylgalactosaminyltransferase 16	0	0	0	0	0	1	0	0	1	1	5-27
GLU2B_HUMAN	60357	PRKCSH	Glucosidase 2 subunit beta	2	3	2	10	9	10	14	17	17	NONE	0

GLYM_HUMAN	56414	SHMT2	Serine hydroxymethyltransferase, mitochondrial	0	0	0	5	3	4	6	5	5	NONE	0
GNA11_HUMAN	42382	GNA11	Guanine nucleotide-binding protein subunit alpha-11	0	1	1	3	0	3	1	0	0	NONE	0
GNA12_HUMAN	44422	GNA12	Guanine nucleotide-binding protein subunit alpha-12	1	1	2	3	2	3	1	1	2	NONE	0
GNA13_HUMAN	44364	GNA13	Guanine nucleotide-binding protein subunit alpha-13	1	1	2	4	2	3	1	1	2	NONE	0
GNA14_HUMAN	42000	GNA14	Guanine nucleotide-binding protein subunit alpha-14	0	1	1	2	0	2	0	0	0	NONE	0
GNAI1_HUMAN	40905	GNAI1	Guanine nucleotide-binding protein G(i) subunit alpha-1	3	4	5	7	6	5	1	1	1	NONE	0
GNAI2_HUMAN	40995	GNAI2	Guanine nucleotide-binding protein G(i) subunit alpha-2	3	3	5	7	6	5	1	1	1	NONE	0
GNAI3_HUMAN	41076	GNAI3	Guanine nucleotide-binding protein G(k) subunit alpha	6	3	6	14	12	10	1	2	1	NONE	0
GNAL_HUMAN	44794	GNAL	Guanine nucleotide-binding protein G(olf) subunit alpha	2	2	2	2	2	2	1	1	1	NONE	0
GNAO_HUMAN	40595	GNAO1	Guanine nucleotide-binding protein G(o) subunit alpha	3	3	3	2	4	4	1	1	1	NONE	0
GNAQ_HUMAN	42400	GNAQ	Guanine nucleotide-binding protein G(q) subunit alpha	0	1	1	2	0	2	0	0	0	NONE	0
GNAS1_HUMAN	111697	GNAS	Guanine nucleotide-binding protein G(s) subunit alpha isoforms XLas	3	3	3	5	5	5	1	1	1	NONE	0
GNAS2_HUMAN	46092	GNAS	Guanine nucleotide-binding protein G(s) subunit alpha isoforms short	3	3	3	5	5	5	1	1	1	NONE	0
GNAT1_HUMAN	40471	GNAT1	Guanine nucleotide-binding protein G(t) subunit alpha-1	2	2	3	3	2	3	1	1	1	NONE	0
GNAT2_HUMAN	40720	GNAT2	Guanine nucleotide-binding protein G(t) subunit alpha-2	2	2	4	5	3	3	1	1	1	NONE	0
GNAT3_HUMAN	40844	GNAT3	Guanine nucleotide-binding protein G(t) subunit alpha-3	2	2	3	3	2	3	1	1	1	NONE	0
GNAZ_HUMAN	41411	GNAZ	Guanine nucleotide-binding protein G(z) subunit alpha	0	0	0	1	0	1	0	0	0	NONE	0
GOG6A_HUMAN	80183	GOLGA6A	Golgin subfamily A member 6A	0	0	0	0	0	0	2	0	0	NONE	0
GOG6B_HUMAN	80093	GOLGA6B	Golgin subfamily A member 6B	0	0	0	0	0	0	2	0	0	NONE	0
GOG6C_HUMAN	80007	GOLGA6C	Golgin subfamily A member 6C	0	0	0	0	0	0	2	0	0	NONE	0
GOG6D_HUMAN	80076	GOLGA6D	Golgin subfamily A member 6D	0	0	0	0	0	0	1	0	0	NONE	0
GOG7B_HUMAN	18608	GOLGA7B	Golgin subfamily A member 7B	1	1	1	0	0	1	0	0	0	1	73-95
GOGA2_HUMAN	113086	GOLGA2	Golgin subfamily A member 2	1	1	1	0	1	1	1	1	0	NONE	0
GOGA7_HUMAN	16042	GOLGA7	Golgin subfamily A member 7	2	1	1	0	0	1	0	0	0	1	63-85
GGOGB1_HUMAN	377215	GOLGB1	Golgin subfamily B member 1	0	0	0	0	0	0	1	1	2	1	3235-3257
GOL14_HUMAN	81888	GOLIM4	Golgi integral membrane protein 4	0	0	0	1	2	3	4	2	4	1	14-36
GOLP3_HUMAN	34075	GOLPH3	Golgi phosphoprotein 3	0	0	0	0	1	0	0	1	1	NONE	0
GP107_HUMAN	67290	GPR107	Protein GPR107	0	0	0	0	0	0	1	1	0	7	20-42,264-284,330-352,369-391,402-424,497-519,524-545
GPC1_HUMAN	62724	GPC1	Glypican-1	0	0	0	1	0	0	0	0	0	NONE	0
GPC3_HUMAN	66546	GPC3	Glypican-3	1	0	0	0	0	0	14	11	14	NONE	0
GPC6_HUMAN	63721	GPC6	Glypican-6	0	0	0	0	0	0	1	1	0	2	2-23,534-555
GPV_HUMAN	61434	GP5	Platelet glycoprotein V	1	0	0	0	0	0	0	0	0	2	4-26,525-547
GRID1_HUMAN	113029	GRID1	Glutamate receptor ionotropic, delta-1	0	0	0	0	0	0	1	1	1	5	1-23,558-580,603-625,631-653,830-852
GRP75_HUMAN	73920	HSPA9	Stress-70 protein, mitochondrial	2	1	2	19	17	19	17	21	17	NONE	0
GRPE1_HUMAN	24492	GRPEL1	GrpE protein homolog 1, mitochondrial	0	0	0	0	0	0	2	4	2	NONE	0
GSLG1_HUMAN	138341	GLG1	Golgi apparatus protein 1	0	0	0	1	1	1	5	6	4	2	10-32,1146-1168
GSTK1_HUMAN	25594	GSTK1	Glutathione S-transferase kappa 1	0	0	0	2	1	0	2	1	2	NONE	0
GSTP1_HUMAN	23569	GSTP1	Glutathione S-transferase P	1	1	1	0	0	0	0	0	0	NONE	0
GT251_HUMAN	71933	COLGALT1	Procollagen galactosyltransferase 1	0	0	0	1	0	0	5	5	5	NONE	0
GTF2I_HUMAN	112859	GTF2I	General transcription factor II-I	0	0	1	0	0	0	0	0	0	NONE	0
GTR1_HUMAN	54391	SLC2A1	Solute carrier family 2, facilitated glucose transporter member 1	9	9	8	3	4	3	12	9	9	12	8-30,62-84,94-116,122-144,156-178,186-208,271-293,308-330,335-357,362-384,402-424,430-452
GTR14_HUMAN	56854	SLC2A14	Solute carrier family 2, facilitated glucose transporter member 14	3	3	3	4	5	5	5	3	4	11	17-39,86-108,116-138,144-166,179-201,208-230,293-315,329-351,358-380,386-408,445-467
GTR3_HUMAN	54345	SLC2A3	Solute carrier family 2, facilitated glucose transporter member 3	3	3	3	5	5	5	5	3	4	12	3-25,57-79,92-114,121-143,155-177,184-206,269-291,305-327,334-356,362-384,401-423,428-450
GTR8_HUMAN	51299	SLC2A8	Solute carrier family 2, facilitated glucose transporter member 8	0	0	0	0	0	0	1	0	0	12	26-48,70-92,98-120,123-145,155-177,182-204,254-276,290-312,320-342,366-388,402-424,441-463
GYS1_HUMAN	84531	GYS1	Glycogen [starch] synthase, muscle	0	0	0	3	3	3	0	0	0	1	106-128
GYS2_HUMAN	81565	GYS2	Glycogen [starch] synthase, liver	0	0	0	1	1	0	0	0	0	NONE	0
H10_HUMAN	20850	H1F0	Histone H1.0	3	3	4	0	0	0	5	4	4	NONE	0
H11_HUMAN	21829	HIST1H1A	Histone H1.1	8	8	9	2	0	1	3	3	3	NONE	0
H12_HUMAN	21352	HIST1H1C	Histone H1.2	16	15	16	3	1	2	6	6	6	NONE	0
H13_HUMAN	22336	HIST1H1D	Histone H1.3	15	13	14	3	1	2	6	7	6	NONE	0
H14_HUMAN	21852	HIST1H1E	Histone H1.4	15	13	14	3	1	2	6	6	6	NONE	0
H15_HUMAN	22566	HIST1H1B	Histone H1.5	2	3	4	2	1	0	2	2	2	NONE	0
H1T_HUMAN	22006	HIST1H1T	Histone H1t	4	3	3	1	0	1	1	1	1	NONE	0
H1X_HUMAN	22474	H1FX	Histone H1x	1	1	1	0	0	0	0	0	0	NONE	0

H2A1_HUMAN	14083	-IIST1H2AC	Histone H2A type 1	7	6	6	2	3	4	4	4	2	NONE	0
H2A1A_HUMAN	14225	-IIST1H2A/	Histone H2A type 1-A	5	3	4	2	2	2	3	3	2	NONE	0
H2A1B_HUMAN	14127	-IIST1H2AE	Histone H2A type 1-B/E	6	5	5	2	3	4	4	4	2	NONE	0
H2A1C_HUMAN	14097	-IIST1H2AC	Histone H2A type 1-C	6	5	5	2	3	4	4	4	2	NONE	0
H2A1D_HUMAN	14099	-IIST1H2AC	Histone H2A type 1-D	7	6	6	2	3	4	4	4	2	NONE	0
H2A1H_HUMAN	13898	-IIST1H2A/	Histone H2A type 1-H	7	6	6	2	3	4	4	4	2	NONE	0
H2A1J_HUMAN	13928	HIST1H2A/	Histone H2A type 1-J	7	6	6	2	3	4	4	4	2	NONE	0
H2A2A_HUMAN	14087	-IIST2H2AA	Histone H2A type 2-A	7	6	6	2	3	4	4	4	2	NONE	0
H2A2B_HUMAN	13987	-IIST2H2AE	Histone H2A type 2-B	4	2	3	2	2	2	2	2	1	NONE	0
H2A2C_HUMAN	13980	-IIST2H2AC	Histone H2A type 2-C	7	6	6	2	3	4	4	4	2	NONE	0
H2A3_HUMAN	14113	HIST3H2A	Histone H2A type 3	6	5	5	2	3	4	4	4	2	NONE	0
H2AJ_HUMAN	14011	H2AFJ	Histone H2A.J	7	6	6	2	3	4	4	4	2	NONE	0
H2AV_HUMAN	13501	H2AFV	Histone H2A.V	4	3	4	2	2	2	3	3	2	NONE	0
H2AX_HUMAN	15135	H2AFX	Histone H2AX	5	3	4	2	2	2	3	3	2	NONE	0
H2AZ_HUMAN	13545	H2AFZ	Histone H2A.Z	4	3	3	2	2	2	3	3	2	NONE	0
H2B1A_HUMAN	14159	-IIST1H2B/	Histone H2B type 1-A	10	11	10	4	4	4	4	6	3	NONE	0
H2B1B_HUMAN	13942	-IIST1H2BE	Histone H2B type 1-B	16	17	13	4	4	4	4	7	3	NONE	0
H2B1C_HUMAN	13898	-IIST1H2BC	Histone H2B type 1-C/E/F/G/I	15	19	16	7	6	6	7	9	4	NONE	0
H2B1D_HUMAN	13928	-IIST1H2BC	Histone H2B type 1-D	15	18	15	7	5	5	6	8	4	NONE	0
H2B1H_HUMAN	13884	-IIST1H2B/	Histone H2B type 1-H	14	18	16	6	4	5	5	7	3	NONE	0
H2B1J_HUMAN	13896	HIST1H2B/	Histone H2B type 1-J	15	17	15	5	6	6	6	8	4	NONE	0
H2B1K_HUMAN	13882	-IIST1H2B/	Histone H2B type 1-K	15	19	16	7	6	6	7	9	4	NONE	0
H2B1L_HUMAN	13944	HIST1H2BL	Histone H2B type 1-L	13	16	14	6	4	4	5	7	3	NONE	0
H2B1M_HUMAN	13981	-IIST1H2B/	Histone H2B type 1-M	14	17	14	6	4	4	5	7	3	NONE	0
H2B1N_HUMAN	13914	-IIST1H2B/	Histone H2B type 1-N	16	19	14	6	4	4	5	8	3	NONE	0
H2B1O_HUMAN	13898	-IIST1H2BC	Histone H2B type 1-O	14	16	15	4	4	5	4	6	3	NONE	0
H2B2C_HUMAN	21971	-IIST2H2BC	Putative histone H2B type 2-C	3	2	1	0	0	0	0	0	0	NONE	0
H2B2D_HUMAN	18406	-IIST2H2BC	Putative histone H2B type 2-D	3	2	1	0	0	0	0	0	0	NONE	0
H2B2E_HUMAN	13912	-IIST2H2BE	Histone H2B type 2-E	15	17	15	5	6	6	6	8	4	NONE	0
H2B2F_HUMAN	13912	HIST2H2BF	Histone H2B type 2-F	14	18	16	6	4	5	5	7	3	NONE	0
H2B3B_HUMAN	13900	-IIST3H2BE	Histone H2B type 3-B	12	13	11	4	4	4	4	6	3	NONE	0
H2BFS_HUMAN	13936	H2BFS	Histone H2B type F-S	14	18	16	7	6	6	7	9	4	NONE	0
H31_HUMAN	15509	HIST1H3A	Histone H3.1	6	11	6	1	3	0	1	0	2	NONE	0
H31T_HUMAN	15613	HIST3H3	Histone H3.1t	6	11	6	1	3	0	1	0	2	NONE	0
H32_HUMAN	15436	HIST2H3A	Histone H3.2	6	11	6	1	3	0	1	0	2	NONE	0
H33_HUMAN	15376	H3F3A	Histone H3.3	6	11	6	1	3	0	1	0	2	NONE	0
H3C_HUMAN	15318	H3F3C	Histone H3.3C	5	9	4	0	1	0	1	0	1	NONE	0
H3X_HUMAN	16513	H3Y2	Putative histone H3.X	2	2	1	0	0	0	0	0	0	NONE	0
H3Y_HUMAN	15471	H3Y1	Histone H3.Y	2	2	1	0	0	0	0	0	0	NONE	0
H4_HUMAN	11360	HIST1H4A	Histone H4	17	16	17	12	8	10	8	8	7	NONE	0
H90B2_HUMAN	44492	-ISP90AB2f	Putative heat shock protein HSP 90-beta 2	1	6	3	12	7	12	2	4	3	NONE	0
H90B3_HUMAN	68624	-ISP90AB3f	Putative heat shock protein HSP 90-beta-3	9	10	11	29	25	24	5	9	7	NONE	0
H90B4_HUMAN	58855	-ISP90AB4f	Putative heat shock protein HSP 90-beta 4	4	3	4	5	5	5	2	4	3	NONE	0
HACD2_HUMAN	28407	HACD2	Very-long-chain (3R)-3-hydroxyacyl-CoA dehydratase 2	0	0	0	0	0	0	0	1	0	5	40-62,93-115,127-149,170-192,214-236
HACD3_HUMAN	43360	HACD3	Very-long-chain (3R)-3-hydroxyacyl-CoA dehydratase 3	0	0	0	0	0	0	2	6	4	5	148-170,193-215,230-252,282-304,323-344
HAT1_HUMAN	49880	HAT1	Histone acetyltransferase type B catalytic subunit	0	0	0	1	0	1	0	1	0	NONE	0
HCD2_HUMAN	27134	HSD17B10	3-hydroxyacyl-CoA dehydrogenase type-2	0	0	0	3	1	2	0	0	0	NONE	0
HCK_HUMAN	60075	HCK	Tyrosine-protein kinase HCK	0	0	0	1	2	2	0	0	0	NONE	0
HDGF_HUMAN	26886	HDGF	Hepatoma-derived growth factor	0	0	0	0	1	1	0	0	0	NONE	0
HEAT1_HUMAN	244382	HEATR1	HEAT repeat-containing protein 1	0	0	0	0	0	0	0	1	0	2	1371-1393,1411-1433
HERC6_HUMAN	116535	HERC6	Probable E3 ubiquitin-protein ligase HERC6	0	0	1	0	0	0	0	0	0	NONE	0
HEXB_HUMAN	63527	HEXB	Beta-hexosaminidase subunit beta	0	0	0	3	2	1	0	0	0	1	16-38
HG2A_HUMAN	33950	CD74	HLA class II histocompatibility antigen gamma chain	0	0	0	0	0	0	0	1	1	1	45-67
HGB1A_HUMAN	24394	HMGBlP1	Putative high mobility group protein B1-like 1	0	2	2	1	1	0	0	0	0	NONE	0
HHIP_HUMAN	80739	HHIP	Hedgehog-interacting protein	0	0	0	0	0	0	1	1	1	1	1-23
HINT1_HUMAN	13907	HINT1	Histidine triad nucleotide-binding protein 1	0	0	0	1	0	0	0	0	0	NONE	0
HLAE_HUMAN	40261	HLA-E	HLA class I histocompatibility antigen, alpha chain E	0	0	0	0	0	0	1	1	1	2	1-22,304-326
HLAG_HUMAN	38542	HLA-G	HLA class I histocompatibility antigen, alpha chain G	0	0	0	0	0	0	1	1	1	2	2-23,307-329

HLAH_HUMAN	41094	HLA-H	Putative HLA class I histocompatibility antigen, alpha chain H	0	0	0	1	1	1	3	3	2	2	2-24,307-329
HM13_HUMAN	41747	HM13	Minor histocompatibility antigen H13	0	0	0	0	0	0	7	7	7	8	31-53,75-97,101-123,169-191,209-231,257-279,292-314,317-339
HMGB1_HUMAN	25049	HMGB1	High mobility group protein B1	0	2	2	1	1	0	0	0	0	NONE	0
HMOX1_HUMAN	32798	HMOX1	Heme oxygenase 1	0	1	0	0	0	0	1	3	1	1	265-287
HMOX2_HUMAN	36181	HMOX2	Heme oxygenase 2	0	0	0	0	0	0	2	2	2	1	294-314
HNRPC_HUMAN	33707	HNRNPC	Heterogeneous nuclear ribonucleoproteins C1/C2	0	0	1	0	0	0	0	0	0	NONE	0
HNRPF_HUMAN	45985	HNRNPF	Heterogeneous nuclear ribonucleoprotein F	0	1	1	0	0	1	0	0	0	NONE	0
HNRPM_HUMAN	77749	HNRNPM	Heterogeneous nuclear ribonucleoprotein M	0	1	1	4	5	5	4	6	1	NONE	0
HNRPU_HUMAN	91269	HNRNPU	Heterogeneous nuclear ribonucleoprotein U	3	4	3	1	1	2	1	3	2	NONE	0
HORN_HUMAN	283140	HRNR	Hornerin	18	18	25	32	6	10	9	16	51	NONE	0
HPCA_HUMAN	22527	HPCA	Neuron-specific calcium-binding protein hippocalcin	1	1	1	1	1	1	0	0	0	NONE	0
HPCL1_HUMAN	22413	HPCAL1	Hippocalcin-like protein 1	1	1	1	1	1	1	0	0	0	NONE	0
HPCL4_HUMAN	22359	HPCAL4	Hippocalcin-like protein 4	0	0	0	0	0	0	1	0	0	NONE	0
HPPD_HUMAN	45077	HPD	4-hydroxyphenylpyruvate dioxygenase	0	0	0	1	2	0	0	0	0	NONE	0
HS3S2_HUMAN	41988	HS3ST2	Heparan sulfate glucosamine 3-O-sulfotransferase 2	2	1	1	0	0	1	0	1	0	NONE	0
HS71A_HUMAN	70294	HSPA1A	Heat shock 70 kDa protein 1A	6	6	6	22	18	20	7	8	7	NONE	0
HS71B_HUMAN	70294	HSPA1B	Heat shock 70 kDa protein 1B	6	6	6	22	18	20	7	8	7	NONE	0
HS71L_HUMAN	70730	HSPA1L	Heat shock 70 kDa protein 1-like	6	6	7	18	15	18	10	11	11	NONE	0
HS74L_HUMAN	95479	HSPA4L	Heat shock 70 kDa protein 4L	0	0	0	1	1	1	0	0	0	NONE	0
HS902_HUMAN	39454	HSP90AA2	Heat shock protein HSP 90-alpha A2	8	11	10	12	10	12	4	7	6	NONE	0
HS904_HUMAN	47796	HSP90AA4	Putative heat shock protein HSP 90-alpha A4	7	8	7	6	8	6	3	4	2	NONE	0
HS905_HUMAN	38942	HSP90AA5	Putative heat shock protein HSP 90-alpha A5	2	4	2	3	3	2	1	1	2	NONE	0
HS90A_HUMAN	85006	HSP90AA1	Heat shock protein HSP 90-alpha	22	28	24	31	31	30	12	16	13	NONE	0
HS90B_HUMAN	83554	HSP90AB1	Heat shock protein HSP 90-beta	24	30	26	63	63	60	26	34	31	NONE	0
HSDL2_HUMAN	45651	HSDL2	Hydroxysteroid dehydrogenase-like protein 2	0	0	0	0	0	0	1	1	0	NONE	0
HSP72_HUMAN	70263	HSPA2	Heat shock-related 70 kDa protein 2	9	11	12	18	16	18	16	16	14	NONE	0
HSP74_HUMAN	95127	HSPA4	Heat shock 70 kDa protein 4	0	1	0	2	2	2	0	0	0	NONE	0
HSP76_HUMAN	71440	HSPA6	Heat shock 70 kDa protein 6	4	4	4	8	6	7	3	4	3	NONE	0
HSP77_HUMAN	40448	HSPA7	Putative heat shock 70 kDa protein 7	2	1	1	4	3	4	2	1	2	NONE	0
HSP7C_HUMAN	71082	HSPA8	Heat shock cognate 71 kDa protein	20	21	19	34	30	30	24	25	21	NONE	0
HSPB1_HUMAN	22826	HSPB1	Heat shock protein beta-1	0	0	0	4	5	1	0	0	0	NONE	0
HUWE1_HUMAN	485523	HUWE1	E3 ubiquitin-protein ligase HUWE1	0	0	0	1	1	1	0	0	0	NONE	0
HYDIN_HUMAN	580945	HYDIN	Hydrocephalus-inducing protein homolog	0	0	0	0	1	0	0	0	0	ERROR	0
HYEP_HUMAN	53143	EPHX1	Epoxide hydrolase 1	0	0	1	1	2	1	11	10	11	1	1-21
HYOU1_HUMAN	111494	HYOU1	Hypoxia up-regulated protein 1	0	0	0	4	7	5	38	36	37	1	16-38
ICAM1_HUMAN	58587	ICAM1	Intercellular adhesion molecule 1	0	0	0	1	2	3	2	1	2	2	3-24,479-500
ICK_HUMAN	71724	ICK	Serine/threonine-protein kinase ICK	0	0	0	1	2	2	0	0	0	NONE	0
IDH3A_HUMAN	40022	IDH3A	Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial	0	0	0	1	0	0	0	0	0	NONE	0
IDHC_HUMAN	46915	IDH1	Isocitrate dehydrogenase [NADP] cytoplasmic	0	0	0	1	1	1	4	3	4	NONE	0
IDHP_HUMAN	51333	IDH2	Isocitrate dehydrogenase [NADP], mitochondrial	0	0	0	0	0	0	1	1	1	NONE	0
IF2A_HUMAN	36374	EIF2S1	Eukaryotic translation initiation factor 2 subunit 1	0	0	0	1	1	0	0	0	0	NONE	0
IF2B1_HUMAN	63783	IGF2BP1	Insulin-like growth factor 2 mRNA-binding protein 1	0	0	0	0	0	1	4	2	2	NONE	0
IF2B2_HUMAN	66195	IGF2BP2	Insulin-like growth factor 2 mRNA-binding protein 2	0	0	0	0	0	1	1	1	1	NONE	0
IF2B3_HUMAN	64008	IGF2BP3	Insulin-like growth factor 2 mRNA-binding protein 3	0	0	0	0	0	1	3	1	1	NONE	0
IF2G_HUMAN	51647	EIF2S3	Eukaryotic translation initiation factor 2 subunit 3	0	0	0	0	1	0	0	0	0	NONE	0
IF2GL_HUMAN	51766	EIF2S3B	Eukaryotic translation initiation factor 2 subunit 3B	0	0	0	0	1	0	0	0	0	NONE	0
IF2P_HUMAN	139198	EIF5B	Eukaryotic translation initiation factor 5B	1	0	0	1	0	1	0	0	0	NONE	0
IF4A1_HUMAN	46353	EIF4A1	Eukaryotic initiation factor 4A-I	9	9	9	13	12	13	8	7	8	NONE	0
IF4A2_HUMAN	46601	EIF4A2	Eukaryotic initiation factor 4A-II	7	7	7	9	7	9	5	5	6	NONE	0
IF4A3_HUMAN	47126	EIF4A3	Eukaryotic initiation factor 4A-III	2	2	2	4	2	3	2	2	3	NONE	0
IF4B_HUMAN	69167	EIF4B	Eukaryotic translation initiation factor 4B	0	0	0	0	2	1	0	0	0	NONE	0
IF4E_HUMAN	25310	EIF4E	Eukaryotic translation initiation factor 4E	0	0	0	0	1	1	0	0	0	NONE	0
IF4G1_HUMAN	176124	EIF4G1	Eukaryotic translation initiation factor 4 gamma 1	0	0	0	2	2	2	0	0	0	NONE	0
IF5A1_HUMAN	17049	EIF5A	Eukaryotic translation initiation factor 5A-1	0	1	0	3	2	2	0	0	0	NONE	0
IF5A2_HUMAN	17124	EIF5A2	Eukaryotic translation initiation factor 5A-2	0	0	0	1	1	2	0	0	0	NONE	0
IF5AL_HUMAN	16990	EIF5AL1	Eukaryotic translation initiation factor 5A-1-like	0	0	0	2	1	2	0	0	0	NONE	0
IFM1_HUMAN	14126	IFITM1	Interferon-induced transmembrane protein 1	0	0	0	4	3	4	4	4	4	2	39-60,91-113
IFM2_HUMAN	14794	IFITM2	Interferon-induced transmembrane protein 2	0	0	0	4	3	4	4	4	4	2	59-80,106-128

IFM3_HUMAN	14794	IFITM3	Interferon-induced transmembrane protein 3	0	0	0	4	3	4	4	4	4	2	60-81,107-129
IGS10_HUMAN	292936	IGSF10	Immunoglobulin superfamily member 10	0	0	0	0	1	0	0	0	0	1	6-28
IKIP_HUMAN	39399	IKBIP	Inhibitor of nuclear factor kappa-B kinase-interacting protein	0	0	0	0	0	0	6	6	5	NONE	0
ILDR1_HUMAN	63972	ILDR1	Immunoglobulin-like domain-containing receptor 1	0	0	0	1	0	1	1	1	0	2	16-38,164-186
ILVBL_HUMAN	68452	ILVBL	Acetolactate synthase-like protein	0	1	0	1	1	2	2	3	3	NONE	0
IMB1_HUMAN	98420	KPNB1	Importin subunit beta-1	0	1	1	1	2	1	0	0	0	NONE	0
INSI2_HUMAN	25161	INSIG2	Insulin-induced gene 2 protein	0	0	0	0	0	0	1	1	1	5	28-50,53-75,77-99,155-177,186-208
INT1_HUMAN	246366	INTS1	Integrator complex subunit 1	0	0	0	1	0	0	0	0	0	NONE	0
IPO11_HUMAN	113489	IPO11	Importin-11	2	1	1	2	1	1	2	3	2	NONE	0
IPO5_HUMAN	125032	IPO5	Importin-5	0	0	1	1	2	1	0	0	0	NONE	0
IPO7_HUMAN	120751	IPO7	Importin-7	0	0	0	1	0	2	0	0	0	NONE	0
IPO9_HUMAN	116858	IPO9	Importin-9	0	0	0	0	2	0	0	0	0	NONE	0
IQGA1_HUMAN	189761	IQGAP1	Ras GTPase-activating-like protein IQGAP1	11	7	9	13	11	14	0	0	0	NONE	0
IQGA2_HUMAN	181036	IQGAP2	Ras GTPase-activating-like protein IQGAP2	0	0	0	0	0	1	0	0	0	NONE	0
IQGA3_HUMAN	185268	IQGAP3	Ras GTPase-activating-like protein IQGAP3	0	0	0	1	1	2	0	0	0	1	134-156
IR3IP_HUMAN	9020	IER3IP1	Immediate early response 3-interacting protein 1	0	0	0	0	0	0	1	1	1	2	7-29,61-82
IRF2_HUMAN	39501	IRF2	Interferon regulatory factor 2	1	1	1	0	0	0	0	0	0	NONE	0
IST1_HUMAN	39897	IST1	IST1 homolog	0	0	0	0	0	1	0	0	0	NONE	0
ITA1_HUMAN	132304	ITGA1	Integrin alpha-1	0	0	0	2	1	1	0	0	0	3	9-31,1081-1103,1143-1165
ITA2_HUMAN	130468	ITGA2	Integrin alpha-2	0	0	0	0	0	0	1	0	0	2	12-34,1133-1155
ITA3_HUMAN	117735	ITGA3	Integrin alpha-3	12	13	13	0	1	0	0	0	0	2	12-34,993-1015
ITAV_HUMAN	117048	ITGAV	Integrin alpha-V	1	1	0	2	3	3	2	2	2	2	13-35,994-1016
ITAX_HUMAN	128946	ITGAX	Integrin alpha-X	0	0	0	0	0	0	0	1	0	2	6-23,1107-1129
ITB1_HUMAN	91664	ITGB1	Integrin beta-1	13	16	11	5	6	9	2	3	2	2	2-23,731-753
ITIH2_HUMAN	106853	ITIH2	Inter-alpha-trypsin inhibitor heavy chain H2	0	0	0	0	0	0	3	5	4	NONE	0
ITM2A_HUMAN	30121	ITM2A	Integral membrane protein 2A	0	0	0	0	1	0	0	0	0	1	53-75
ITM2B_HUMAN	30832	ITM2B	Integral membrane protein 2B	0	0	0	0	0	0	0	1	0	1	53-75
ITPR2_HUMAN	311060	ITPR2	Inositol 1,4,5-trisphosphate receptor type 2	0	0	0	0	0	0	0	0	1	7	1-23,2229-2251,2260-2282,2299-2321,2345-2367,2396-2418,2518-2540
JAG1_HUMAN	141179	JAG1	Protein jagged-1	0	0	0	0	0	0	3	1	1	2	12-31,1068-1090
JAGN1_HUMAN	21111	JAGN1	Protein jagunal homolog 1	0	0	0	0	0	0	1	2	2	4	40-62,72-94,101-123,138-160
JAM1_HUMAN	32962	F11R	Junctional adhesion molecule A	0	0	1	0	0	0	2	1	1	2	11-32,237-259
K0100_HUMAN	256105	KIAA0100	Protein KIAA0100	0	0	0	0	0	0	0	1	1	1	6-28
K1C10_HUMAN	59020	KRT10	Keratin, type I cytoskeletal 10	34	25	29	23	22	26	15	35	31	NONE	0
K1C12_HUMAN	53592	KRT12	Keratin, type I cytoskeletal 12	3	2	3	2	2	1	1	3	4	NONE	0
K1C13_HUMAN	49900	KRT13	Keratin, type I cytoskeletal 13	7	6	6	7	7	9	4	8	8	NONE	0
K1C14_HUMAN	51872	KRT14	Keratin, type I cytoskeletal 14	14	14	15	12	14	17	8	19	25	NONE	0
K1C15_HUMAN	49409	KRT15	Keratin, type I cytoskeletal 15	7	7	8	7	7	7	5	9	10	NONE	0
K1C16_HUMAN	51578	KRT16	Keratin, type I cytoskeletal 16	11	11	11	8	8	11	7	16	15	NONE	0
K1C17_HUMAN	48361	KRT17	Keratin, type I cytoskeletal 17	8	8	9	11	14	10	6	12	17	NONE	0
K1C18_HUMAN	48029	KRT18	Keratin, type I cytoskeletal 18	10	10	8	17	16	17	9	8	11	NONE	0
K1C19_HUMAN	44079	KRT19	Keratin, type I cytoskeletal 19	7	7	7	8	8	7	6	10	10	NONE	0
K1C20_HUMAN	48514	KRT20	Keratin, type I cytoskeletal 20	1	1	1	2	2	3	1	2	2	NONE	0
K1C24_HUMAN	55567	KRT24	Keratin, type I cytoskeletal 24	3	3	3	2	2	2	2	3	3	NONE	0
K1C25_HUMAN	49858	KRT25	Keratin, type I cytoskeletal 25	4	3	3	1	1	3	2	2	2	NONE	0
K1C26_HUMAN	52620	KRT26	Keratin, type I cytoskeletal 26	3	3	3	1	1	3	2	2	2	NONE	0
K1C27_HUMAN	50419	KRT27	Keratin, type I cytoskeletal 27	4	3	3	1	1	3	2	2	2	NONE	0
K1C28_HUMAN	51163	KRT28	Keratin, type I cytoskeletal 28	6	5	5	2	2	4	4	4	4	NONE	0
K1C9_HUMAN	62255	KRT9	Keratin, type I cytoskeletal 9	30	32	32	26	24	23	19	21	55	NONE	0
K1H1_HUMAN	48633	KRT31	Keratin, type I cuticular Ha1	2	2	2	1	1	1	2	2	2	NONE	0
K1H2_HUMAN	51793	KRT32	Keratin, type I cuticular Ha2	2	2	2	1	1	1	2	2	2	NONE	0
K22E_HUMAN	65678	KRT2	Keratin, type II cytoskeletal 2 epidermal	32	19	36	22	11	20	12	32	37	NONE	0
K22O_HUMAN	66370	KRT76	Keratin, type II cytoskeletal 2 oral	14	7	12	8	7	7	5	13	12	NONE	0
K2C1_HUMAN	66170	KRT1	Keratin, type II cytoskeletal 1	44	41	54	32	32	44	29	43	85	NONE	0
K2C1B_HUMAN	62149	KRT77	Keratin, type II cytoskeletal 1b	7	6	6	5	5	5	4	4	8	NONE	0
K2C3_HUMAN	64549	KRT3	Keratin, type II cytoskeletal 3	13	7	11	7	6	6	4	12	11	NONE	0
K2C4_HUMAN	57649	KRT4	Keratin, type II cytoskeletal 4	3	2	2	1	1	2	2	1	4	NONE	0
K2C5_HUMAN	62568	KRT5	Keratin, type II cytoskeletal 5	15	12	15	10	9	14	6	15	26	NONE	0

K2C6A_HUMAN	60293	KRT6A	Keratin, type II cytoskeletal 6A	16	11	15	10	10	12	7	14	17	NONE	0
K2C6B_HUMAN	60315	KRT6B	Keratin, type II cytoskeletal 6B	16	11	16	12	12	13	8	16	19	NONE	0
K2C6C_HUMAN	60273	KRT6C	Keratin, type II cytoskeletal 6C	16	11	15	10	10	12	7	14	17	NONE	0
K2C7_HUMAN	51411	KRT7	Keratin, type II cytoskeletal 7	18	14	14	10	14	12	2	2	6	NONE	0
K2C71_HUMAN	57769	KRT71	Keratin, type II cytoskeletal 71	2	2	2	2	2	1	1	0	1	NONE	0
K2C72_HUMAN	56470	KRT72	Keratin, type II cytoskeletal 72	2	2	3	2	2	1	1	0	1	NONE	0
K2C73_HUMAN	59457	KRT73	Keratin, type II cytoskeletal 73	2	2	2	2	2	1	1	0	1	NONE	0
K2C74_HUMAN	58229	KRT74	Keratin, type II cytoskeletal 74	2	2	2	2	2	1	1	0	1	NONE	0
K2C75_HUMAN	59809	KRT75	Keratin, type II cytoskeletal 75	9	7	7	5	5	6	3	6	9	NONE	0
K2C78_HUMAN	57629	KRT78	Keratin, type II cytoskeletal 78	1	1	0	1	1	1	0	0	1	NONE	0
K2C79_HUMAN	58085	KRT79	Keratin, type II cytoskeletal 79	9	6	9	4	5	6	2	10	8	NONE	0
K2C8_HUMAN	53671	KRT8	Keratin, type II cytoskeletal 8	22	17	19	29	29	31	20	26	31	NONE	0
K2C80_HUMAN	51007	KRT80	Keratin, type II cytoskeletal 80	1	1	1	0	0	1	1	0	3	NONE	0
KAD2_HUMAN	26689	AK2	Adenylate kinase 2, mitochondrial	0	0	0	1	1	1	1	1	1	NONE	0
KAD4_HUMAN	25366	AK4	Adenylate kinase 4, mitochondrial	0	0	0	0	0	0	1	1	2	NONE	0
KALRN_HUMAN	343097	KALRN	Kalirin	0	0	0	1	1	1	0	0	0	NONE	0
KANK2_HUMAN	91916	KANK2	KN motif and ankyrin repeat domain-containing protein 2	0	0	0	0	0	0	1	0	1	NONE	0
KAT2A_HUMAN	94835	KAT2A	Histone acetyltransferase KAT2A	1	1	1	0	0	0	0	0	0	NONE	0
KBTB2_HUMAN	72368	KBTBD2	Kelch repeat and BTB domain-containing protein 2	1	1	1	0	0	0	0	0	0	1	420-441
KBTB3_HUMAN	70775	KBTBD3	Kelch repeat and BTB domain-containing protein 3	1	1	0	0	0	0	1	1	1	NONE	0
KCA10_HUMAN	58147	KCNA10	Potassium voltage-gated channel subfamily A member 10	1	0	0	0	0	0	0	0	0	5	215-237,268-290,303-325,372-394,438-460
KCNN1_HUMAN	60519	KCNN1	Small conductance calcium-activated potassium channel protein 1	0	1	1	0	0	0	0	0	0	7	107-129,141-163,180-202,222-244,278-300,314-336,345-366
KCNV2_HUMAN	63161	KCNV2	Potassium voltage-gated channel subfamily V member 2	0	0	0	0	0	0	1	1	1	4	258-280,333-355,411-433,469-491
KCRB_HUMAN	42902	CKB	Creatine kinase B-type	0	0	0	0	0	1	0	0	0	NONE	0
KEAP1_HUMAN	71160	KEAP1	Kelch-like ECH-associated protein 1	0	0	1	0	0	0	0	0	0	NONE	0
KIF13A_HUMAN	203836	KIF13A	Kinesin-like protein KIF13A	0	1	0	3	2	2	0	0	0	NONE	0
KIF1C_HUMAN	123725	KIF1C	Kinesin-like protein KIF1C	0	1	0	0	0	0	0	0	0	NONE	0
KIF27_HUMAN	160283	KIF27	Kinesin-like protein KIF27	0	0	0	1	0	1	0	0	0	NONE	0
KIF5A_HUMAN	118161	KIF5A	Kinesin heavy chain isoform 5A	0	0	0	0	0	0	0	0	1	NONE	0
KIF5C_HUMAN	109997	KIF5C	Kinesin heavy chain isoform 5C	0	0	0	0	0	0	0	0	1	NONE	0
KINH_HUMAN	110358	KIF5B	Kinesin-1 heavy chain	0	0	0	0	0	0	0	0	1	NONE	0
KLH41_HUMAN	68792	KLHL41	Kelch-like protein 41	1	0	0	0	0	0	0	0	0	NONE	0
KPCA_HUMAN	77841	PRKCA	Protein kinase C alpha type	0	0	0	1	0	0	0	0	0	NONE	0
KPCI_HUMAN	69188	PRKCI	Protein kinase C iota type	1	0	0	0	0	0	0	0	0	NONE	0
KPCZ_HUMAN	68529	PRKCZ	Protein kinase C zeta type	1	0	0	0	0	0	0	0	0	NONE	0
KPYM_HUMAN	58470	PKM	Pyruvate kinase PKM	25	22	25	27	29	31	3	1	2	NONE	0
KPYR_HUMAN	62191	PKLR	Pyruvate kinase PKLR	0	0	1	2	1	2	0	0	0	NONE	0
KR87P_HUMAN	29555	KRT87P	Putative keratin-87 protein	2	3	3	0	0	0	0	0	0	NONE	0
KRT35_HUMAN	51640	KRT35	Keratin, type I cuticular Ha5	3	3	3	3	3	4	3	3	3	NONE	0
KRT36_HUMAN	53354	KRT36	Keratin, type I cuticular Ha6	2	2	2	1	1	1	2	2	2	NONE	0
KRT37_HUMAN	51084	KRT37	Keratin, type I cuticular Ha7	2	2	2	1	1	1	2	3	2	NONE	0
KRT38_HUMAN	52044	KRT38	Keratin, type I cuticular Ha8	2	2	2	1	1	1	2	3	2	NONE	0
KRT81_HUMAN	56832	KRT81	Keratin, type II cuticular Hb1	4	5	3	1	1	1	0	0	0	NONE	0
KRT82_HUMAN	57985	KRT82	Keratin, type II cuticular Hb2	1	1	1	0	0	0	0	0	0	NONE	0
KRT83_HUMAN	55928	KRT83	Keratin, type II cuticular Hb3	3	4	3	1	1	1	0	0	0	NONE	0
KRT84_HUMAN	65942	KRT84	Keratin, type II cuticular Hb4	5	3	3	4	3	3	1	2	3	NONE	0
KRT85_HUMAN	57306	KRT85	Keratin, type II cuticular Hb5	3	3	2	1	1	1	0	0	0	NONE	0
KRT86_HUMAN	55120	KRT86	Keratin, type II cuticular Hb6	4	5	3	1	1	1	0	0	0	NONE	0
KSYK_HUMAN	72533	SYK	Tyrosine-protein kinase SYK	0	0	0	1	0	0	0	0	0	NONE	0
KT222_HUMAN	34308	KRT222	Keratin-like protein KRT222	0	0	0	1	1	1	1	1	1	NONE	0
KT33B_HUMAN	47325	KRT33B	Keratin, type I cuticular Ha3-II	2	2	2	1	1	1	2	2	2	NONE	0
KTN1_HUMAN	156464	KTN1	Kinectin	1	1	1	6	4	5	15	13	11	1	8-30
KY_HUMAN	64213	KY	Kyphoscoliosis peptidase	1	1	1	0	0	0	0	0	0	NONE	0
KYNU_HUMAN	52831	KYNU	Kynureninase	0	0	1	0	0	0	0	0	0	NONE	0
L1CAM_HUMAN	140885	L1CAM	Neural cell adhesion molecule L1	0	0	0	9	12	14	0	0	0	2	2-24,1122-1143
LAD1_HUMAN	57154	LAD1	Ladinin-1	0	0	0	0	0	0	0	1	0	NONE	0
LAMA2_HUMAN	352978	LAMA2	Laminin subunit alpha-2	1	2	1	0	0	0	0	0	0	NONE	0
LAMA5_HUMAN	412023	LAMA5	Laminin subunit alpha-5	0	0	0	0	0	0	1	1	1	NONE	0

LAMB1_HUMAN	205150	LAMB1	Laminin subunit beta-1	0	0	0	0	0	0	1	1	0	NONE	0
LAMC1_HUMAN	183191	LAMC1	Laminin subunit gamma-1	0	0	0	0	0	0	1	1	1	NONE	0
LAMP1_HUMAN	45367	LAMP1	Lysosome-associated membrane glycoprotein 1	2	2	2	5	9	6	6	5	8	2	10-32,378-400
LAMP2_HUMAN	45503	LAMP2	Lysosome-associated membrane glycoprotein 2	0	0	0	0	0	0	1	2	2	2	3-25,377-399
LARP1_HUMAN	123833	LARP1	La-related protein 1	0	0	0	0	1	0	1	0	0	NONE	0
LASP1_HUMAN	30097	LASP1	LIM and SH3 domain protein 1	2	1	3	0	0	1	0	0	0	NONE	0
LAT1_HUMAN	55659	SLC7A5	Large neutral amino acids transporter small subunit 1	12	13	12	24	20	20	4	4	5	13	52-74,82-104,120-142,145-167,169-191,200-222,237-259,275-297,323-345,371-393,398-419,430-452,455-476
LBR_HUMAN	71057	LBR	Delta(14)-sterol reductase	0	0	0	0	0	0	1	1	0	8	211-232,258-280,295-317,326-348,388-410,413-435,449-471,483-505
LCK_HUMAN	58477	LCK	Tyrosine-protein kinase Lck	0	0	0	1	2	2	0	1	1	NONE	0
LDH6A_HUMAN	36826	LDHAL6A	L-lactate dehydrogenase A-like 6A	2	1	1	2	4	3	1	1	1	NONE	0
LDH6B_HUMAN	42372	LDHAL6B	L-lactate dehydrogenase A-like 6B	1	1	1	2	1	1	1	1	1	NONE	0
LDHA_HUMAN	36950	LDHA	L-lactate dehydrogenase A chain	13	10	12	17	18	18	5	4	6	1	23-45
LDHB_HUMAN	36900	LDHB	L-lactate dehydrogenase B chain	9	7	5	21	24	21	2	2	2	NONE	0
LDHC_HUMAN	36630	LDHC	L-lactate dehydrogenase C chain	2	1	1	2	4	3	1	1	1	NONE	0
LEG1_HUMAN	15048	LGALS1	Galectin-1	1	2	2	14	19	17	0	0	0	NONE	0
LEG3_HUMAN	26193	LGALS3	Galectin-3	0	0	0	3	4	2	0	0	0	NONE	0
LETM1_HUMAN	83986	LETM1	Mitochondrial proton/calcium exchanger protein	0	0	0	0	0	0	2	2	1	1	206-228
LG3BP_HUMAN	66202	LGALS3BP	Galectin-3-binding protein	0	0	0	1	1	1	1	1	2	NONE	0
LGAT1_HUMAN	43289	LPGAT1	Acyl-CoA:lysophosphatidylglycerol acyltransferase 1	0	0	0	0	1	0	1	1	0	1	18-40
LIMK2_HUMAN	73554	LIMK2	LIM domain kinase 2	1	1	1	0	0	0	0	0	0	NONE	0
LIN7A_HUMAN	26095	LIN7A	Protein lin-7 homolog A	1	2	1	2	1	1	1	1	1	NONE	0
LIN7B_HUMAN	22939	LIN7B	Protein lin-7 homolog B	0	1	0	1	1	0	0	0	0	NONE	0
LIN7C_HUMAN	21935	LIN7C	Protein lin-7 homolog C	2	2	1	2	1	1	1	1	1	NONE	0
LIS1_HUMAN	47178	PAFAH1B1	Platelet-activating factor acetylhydrolase IB subunit alpha	0	0	0	0	0	0	1	1	1	NONE	0
LITAF_HUMAN	17722	LITAF	Lipopolysaccharide-induced tumor necrosis factor-alpha factor	0	0	0	1	1	0	1	0	1	1	117-139
LMAN1_HUMAN	57798	LMAN1	Protein ERGIC-53	0	0	0	8	4	6	10	12	11	2	14-34,476-498
LMAN2_HUMAN	40545	LMAN2	Vesicular integral-membrane protein VIP36	0	0	0	1	0	1	1	1	2	2	32-52,321-343
LMF2_HUMAN	79933	LMF2	Lipase maturation factor 2	0	0	0	0	0	0	1	1	0	11	7-29,76-98,100-122,127-148,167-189,222-244,262-284,308-330,362-384,398-420,635-657
LMNA_HUMAN	74380	LMNA	Prelamin-A/C	0	0	0	1	1	1	0	0	0	NONE	0
LMTK2_HUMAN	165996	LMTK2	Serine/threonine-protein kinase LMTK2	0	0	0	0	0	0	1	1	0	2	11-32,46-68
LMX1A_HUMAN	43746	LMX1A	LIM homeobox transcription factor 1-alpha	1	0	0	0	0	0	0	0	0	NONE	0
LMX1B_HUMAN	46085	LMX1B	LIM homeobox transcription factor 1-beta	1	0	0	0	0	0	0	0	0	NONE	0
LONM_HUMAN	106936	LONP1	Lon protease homolog, mitochondrial	0	0	0	2	1	0	0	0	0	NONE	0
LOXH1_HUMAN	237639	LOXHD1	Lipoxygenase homology domain-containing protein 1	0	0	0	0	0	0	1	0	0	NONE	0
LPPRC_HUMAN	159003	LRPPRC	Leucine-rich PPR motif-containing protein, mitochondrial	0	0	0	4	3	2	17	15	17	NONE	0
LRC59_HUMAN	35308	LRRCS9	Leucine-rich repeat-containing protein 59	0	0	2	1	1	1	10	6	5	1	246-268
LRC1_HUMAN	120719	LRRCC1	Leucine-rich repeat and coiled-coil domain-containing protein 1	0	0	0	0	1	0	0	0	0	NONE	0
LTOR3_HUMAN	13671	LAMTOR3	Ragulator complex protein LAMTOR3	0	0	0	0	0	0	0	1	0	NONE	0
LTOR5_HUMAN	9779	LAMTOR5	Ragulator complex protein LAMTOR5	0	0	0	0	1	0	0	1	0	NONE	0
LYN_HUMAN	58993	LYN	Tyrosine-protein kinase Lyn	0	0	0	2	3	2	0	0	0	NONE	0
LYPD3_HUMAN	37031	LYPD3	Ly6/PLAUR domain-containing protein 3	0	0	0	1	1	1	0	0	0	2	7-29,324-346
LYRIC_HUMAN	63856	MTDH	Protein LYRIC	0	0	0	1	0	0	1	1	1	1	52-74
LYSC_HUMAN	16982	LYZ	Lysozyme C	0	0	0	0	0	0	0	1	1	1	1-23
LZTS2_HUMAN	73399	LZTS2	Leucine zipper putative tumor suppressor 2	1	1	1	1	0	1	0	1	0	NONE	0
M21D2_HUMAN	56392	MB21D2	Protein MB21D2	1	1	1	0	0	0	0	0	0	NONE	0
M2OM_HUMAN	34211	SLC25A11	Mitochondrial 2-oxoglutarate/malate carrier protein	0	0	0	2	2	1	7	6	4	NONE	0
MA1A1_HUMAN	73150	MAN1A1	Mannosyl-oligosaccharide 1,2-alpha-mannosidase IA	0	0	0	0	0	0	1	3	1	2	3-25,48-70
MAGF1_HUMAN	35200	MAGEF1	Melanoma-associated antigen F1	0	0	1	0	0	0	0	0	0	NONE	0
MAGT1_HUMAN	38411	MAGT1	Magnesium transporter protein 1	0	0	0	0	0	0	1	2	2	5	6-27,184-205,215-237,269-291,301-322
MAK_HUMAN	70764	MAK	Serine/threonine-protein kinase MAK	0	0	0	1	2	2	0	0	0	NONE	0
MAL2_HUMAN	19341	MAL2	Protein MAL2	0	0	0	0	0	0	0	1	0	4	35-57,67-89,104-126,149-171
MAN1_HUMAN	100790	LEMD3	Inner nuclear membrane protein Man1	0	0	1	0	0	0	0	0	0	2	474-496,631-653
MANF_HUMAN	21143	MANF	Mesencephalic astrocyte-derived neurotrophic factor	0	0	0	0	0	0	6	6	4	NONE	0
MAP1B_HUMAN	271665	MAP1B	Microtubule-associated protein 1B	1	0	0	0	0	0	0	0	0	NONE	0
MAP4_HUMAN	121443	MAP4	Microtubule-associated protein 4	0	0	0	2	1	2	0	1	1	NONE	0
MARCI_HUMAN	37989	44621	Mitochondrial amidoxime-reducing component 1	0	0	0	0	0	0	0	0	1	1	23-40

MARCS_HUMAN	31707	MARCKS	Myristoylated alanine-rich C-kinase substrate	2	2	1	6	6	8	5	6	4	NONE	0
MAST2_HUMAN	197569	MAST2	Microtubule-associated serine/threonine-protein kinase 2	0	0	0	0	0	1	0	0	0	NONE	0
MB12A_HUMAN	29107	MVB12A	Multivesicular body subunit 12A	0	0	0	0	0	1	0	0	0	NONE	0
MBOA5_HUMAN	56511	LPCAT3	Lysophospholipid acyltransferase 5	0	0	0	0	0	0	1	1	1	6	42-63,100-122,234-256,275-297,368-390,455-477
MCF2L_HUMAN	129340	MCF2L	Guanine nucleotide exchange factor DBS	0	1	2	0	0	0	0	0	0	NONE	0
MCP_HUMAN	44745	CD46	Membrane cofactor protein	0	0	0	0	0	0	0	0	1	2	14-36,342-364
MDHC_HUMAN	36631	MDH1	Malate dehydrogenase, cytoplasmic	0	0	0	0	1	1	0	0	0	NONE	0
MDHM_HUMAN	35937	MDH2	Malate dehydrogenase, mitochondrial	0	0	0	5	6	6	3	2	4	NONE	0
MDR1_HUMAN	141788	ABCB1	Multidrug resistance protein 1	0	0	0	2	1	1	1	1	1	11	49-71,119-141,190-212,214-236,297-319,326-348,714-736,754-776,856-878,935-957,965-987
MDR3_HUMAN	142004	ABCB4	Phosphatidylcholine translocator ABCB4	0	0	0	0	0	0	0	0	1	9	57-79,121-143,186-208,218-240,299-321,333-355,715-737,752-774,857-879
MESD_HUMAN	26231	MESD	LRP chaperone MESD	0	0	0	0	0	0	4	5	7	1	10-30
MET7A_HUMAN	28814	METTL7A	Methyltransferase-like protein 7A	0	0	0	0	0	0	1	0	1	1	6-28
MFA3L_HUMAN	45750	MFAP3L	Microfibrillar-associated protein 3-like	0	1	0	0	0	0	0	0	0	3	6-28,35-57,153-175
MFAP3_HUMAN	40653	MFAP3	Microfibril-associated glycoprotein 3	0	1	0	0	0	0	0	0	0	3	5-27,118-140,151-173
MFF_HUMAN	38498	MFF	Mitochondrial fission factor	1	1	1	2	2	2	3	4	3	NONE	0
MFSD1_HUMAN	51973	MFSD1	Major facilitator superfamily domain-containing protein 1	0	0	0	0	1	0	0	0	0	11	39-61,83-105,108-130,156-178,213-235,266-288,303-325,330-352,362-384,394-416,420-442
MGST1_HUMAN	17644	MGST1	Microsomal glutathione S-transferase 1	3	3	5	6	5	5	6	6	6	1	13-35
MGST2_HUMAN	16781	MGST2	Microsomal glutathione S-transferase 2	0	0	0	1	0	0	1	1	1	3	1-23,60-82,107-129
MGST3_HUMAN	16734	MGST3	Microsomal glutathione S-transferase 3	0	0	0	1	2	2	0	0	0	4	10-31,58-80,83-104,114-136
MIC19_HUMAN	26421	CHCHD3	MICOS complex subunit MIC19	0	0	0	1	1	1	6	4	4	NONE	0
MIC60_HUMAN	84026	IMMT	MICOS complex subunit MIC60	0	0	0	2	1	2	18	18	19	1	44-65
MIF_HUMAN	12639	MIF	Macrophage migration inhibitory factor	0	1	1	7	6	6	2	2	2	NONE	0
MISP_HUMAN	75482	MISP	Mitotic interactor and substrate of PLK1	0	1	0	1	2	1	0	0	0	NONE	0
MLEC_HUMAN	32385	MLEC	Malectin	0	0	0	0	0	0	3	1	2	3	3-25,32-54,268-290
MLKL_HUMAN	55015	MLKL	Mixed lineage kinase domain-like protein	0	0	0	0	1	0	0	1	0	NONE	0
MMP21_HUMAN	65288	MMP21	Matrix metalloproteinase-21	2	0	0	0	0	0	0	0	0	1	1-20
MOES_HUMAN	67892	MSN	Moesin	32	27	30	27	28	33	0	0	0	NONE	0
MOGS_HUMAN	92032	MOGS	Mannosyl-oligosaccharide glucosidase	0	0	0	0	0	1	4	7	5	1	40-62
MOS_HUMAN	38366	MOS	Proto-oncogene serine/threonine-protein kinase mos	0	0	0	0	0	1	0	0	0	NONE	0
MOT1_HUMAN	54593	SLC16A1	Monocarboxylate transporter 1	4	5	5	9	6	9	3	3	3	12	19-41,58-80,85-107,115-137,148-170,177-199,260-282,297-319,329-351,358-380,390-412,425-446
MOT4_HUMAN	50064	SLC16A3	Monocarboxylate transporter 4	1	1	2	11	11	12	6	7	6	11	23-45,61-83,85-107,110-132,147-169,181-203,226-248,275-297,322-344,352-374,385-407
MP2K1_HUMAN	43753	MAP2K1	Dual specificity mitogen-activated protein kinase kinase 1	0	0	0	1	1	3	0	0	0	NONE	0
MP2K2_HUMAN	44681	MAP2K2	Dual specificity mitogen-activated protein kinase kinase 2	0	0	0	1	2	2	0	0	0	NONE	0
MPC2_HUMAN	14327	MPC2	Mitochondrial pyruvate carrier 2	0	0	0	0	0	0	0	2	1	3	38-60,68-90,94-116
MPCP_HUMAN	40525	SLC25A3	Phosphate carrier protein, mitochondrial	7	5	4	10	8	9	17	16	16	2	265-287,312-334
MPEG1_HUMAN	79564	MPEG1	Macrophage-expressed gene 1 protein	0	0	0	0	1	1	0	0	0	2	570-592,655-677
MPPA_HUMAN	58729	PMPCA	Mitochondrial-processing peptidase subunit alpha	0	0	0	1	0	0	1	1	1	NONE	0
MPPB_HUMAN	55073	PMPCB	Mitochondrial-processing peptidase subunit beta	0	0	0	1	1	1	1	1	1	NONE	0
MPRD_HUMAN	31487	M6PR	Cation-dependent mannose-6-phosphate receptor	0	0	0	1	0	0	1	0	0	2	1-22,186-208
MPRI_HUMAN	281155	IGF2R	Cation-independent mannose-6-phosphate receptor	0	0	0	0	0	0	6	9	5	3	21-35,2263-2284,2305-2327
MPU1_HUMAN	26906	MPDU1	Mannose-P-dolichol utilization defect 1 protein	0	0	0	0	0	0	1	1	1	7	12-34,37-59,73-95,102-124,126-148,152-174,214-236
MPZL1_HUMAN	29235	MPZL1	Myelin protein zero-like protein 1	1	0	0	2	1	1	0	0	0	2	19-41,165-187
MRO2B_HUMAN	182090	MROH2B	Maestro heat-like repeat-containing protein family member 2B	0	1	0	0	0	0	0	0	0	NONE	0
MRP_HUMAN	19574	MARCKSL1	MARCKS-related protein	0	0	0	2	2	1	4	3	3	NONE	0
MRP1_HUMAN	172907	ABCC1	Multidrug resistance-associated protein 1	4	6	5	0	0	0	0	0	0	17	34-50,74-90,101-123,134-154,175-195,326-350,365-387,436-460,465-486,548-570,584-606,966-988,1016-1038,1085-1107,1116-1128,1167-1210,1227-1240
MRP2_HUMAN	175237	ABCC2	Canalicular multispecific organic anion transporter 1	0	0	1	0	0	0	0	0	0	13	28-50,67-89,102-124,130-152,162-184,322-344,362-384,435-457,462-483,540-562,973-995,1025-1047,1111-1133
MRP4_HUMAN	150344	ABCC4	Multidrug resistance-associated protein 4	0	0	0	1	1	0	0	0	0	11	15-35,94-116,136-157,230-252,324-346,706-728,770-792,833-855,857-878,951-973,978-1000
MRP5_HUMAN	161641	ABCC5	Multidrug resistance-associated protein 5	0	0	1	0	0	0	0	0	0	12	178-200,218-240,286-308,313-335,396-418,429-451,848-870,917-939,993-1015,1018-1039,1092-1114,1124-1146

MRP7_HUMAN	163067	ABCC10	Multidrug resistance-associated protein 7	1	0	0	0	0	0	0	0	0	15	28-50,69-91,100-122,134-156,170-192,288-310,320-342,416-438,504-526,541-563,879-901,929-951,966-988,1049-1071,1154-1175
MSH2_HUMAN	105418	MSH2	DNA mismatch repair protein Msh2	0	0	0	1	0	0	0	0	0	NONE	0
MTCH1_HUMAN	41859	MTCH1	Mitochondrial carrier homolog 1	0	0	0	0	0	0	1	0	0	2	253-275,316-338
MTCH2_HUMAN	33936	MTCH2	Mitochondrial carrier homolog 2	0	0	0	0	0	1	7	9	10	4	7-29,177-199,225-247,252-274
MTDC_HUMAN	38042	MTHFD2	Bifunctional methylenetetrahydrofolate dehydrogenase/cyclohydrolase, mitochondrial	0	0	0	0	0	0	1	0	1	NONE	0
MTLN_HUMAN	6523	MTLN	Mitoregulin	0	0	0	0	0	0	1	0	1	NONE	0
MTMR5_HUMAN	210422	SBF1	Myotubularin-related protein 5	1	1	1	0	0	0	0	0	0	NONE	0
MTP_HUMAN	99916	MTTP	Microsomal triglyceride transfer protein large subunit	0	0	0	0	1	0	6	6	5	NONE	0
MUC16_HUMAN	1520294	MUC16	Mucin-16	0	0	0	1	1	0	0	0	0	NONE	0
MUC18_HUMAN	72532	MCAM	Cell surface glycoprotein MUC18	3	2	1	8	9	9	0	0	0	2	4-26,560-582
MXRA7_HUMAN	21509	MXRA7	Matrix-remodeling-associated protein 7	0	0	0	0	0	0	2	3	3	1	6-27
MY18B_HUMAN	287205	MYO18B	Unconventional myosin-XVIIIb	0	0	0	1	0	0	1	1	0	NONE	0
MYADM_HUMAN	36049	MYADM	Myeloid-associated differentiation marker	1	0	0	0	0	0	1	0	0	8	30-52,71-93,101-123,137-159,169-191,202-224,235-257,296-318
MYDGF_HUMAN	18897	MYDGF	Myeloid-derived growth factor	1	1	1	1	2	5	4	4	4	1	12-33
MYH10_HUMAN	229827	MYH10	Myosin-10	3	4	3	2	3	2	3	2	2	NONE	0
MYH11_HUMAN	228054	MYH11	Myosin-11	3	3	3	2	1	1	1	0	1	NONE	0
MYH13_HUMAN	224605	MYH13	Myosin-13	0	0	0	0	0	0	0	0	0	NONE	0
MYH14_HUMAN	228701	MYH14	Myosin-14	1	2	2	2	1	1	1	0	1	NONE	0
MYH3_HUMAN	224850	MYH3	Myosin-3	0	0	1	0	0	0	0	0	0	NONE	0
MYH9_HUMAN	227646	MYH9	Myosin-9	19	23	18	11	12	11	5	4	4	NONE	0
MYL6_HUMAN	17090	MYL6	Myosin light polypeptide 6	3	3	3	3	3	2	1	1	1	NONE	0
MYL6B_HUMAN	22864	MYL6B	Myosin light chain 6B	2	2	2	2	2	1	0	0	0	NONE	0
MYO1B_HUMAN	132928	MYO1B	Unconventional myosin-Ib	4	3	4	0	0	0	1	0	0	NONE	0
MYO1C_HUMAN	122461	MYO1C	Unconventional myosin-Ic	1	0	2	6	5	7	0	0	0	NONE	0
MYO5C_HUMAN	203994	MYO5C	Unconventional myosin-Vc	0	0	0	0	0	0	0	0	1	NONE	0
MYO7A_HUMAN	256339	MYO7A	Unconventional myosin-VIIa	0	0	0	1	0	0	0	0	0	NONE	0
MYOF_HUMAN	236100	MYOF	Myoferlin	20	19	23	1	2	3	0	0	0	1	2026-2048
MYPT1_HUMAN	115610	PPP1R12A	Protein phosphatase 1 regulatory subunit 12A	0	0	0	1	1	0	0	0	0	NONE	0
MYRIP_HUMAN	96788	MYRIP	Rab effector MyRIP	0	0	0	0	0	0	1	0	0	NONE	0
NAB1_HUMAN	54824	NAB1	NGFI-A-binding protein 1	0	0	0	1	0	0	0	0	0	NONE	0
NAB2_HUMAN	56844	NAB2	NGFI-A-binding protein 2	0	0	0	1	0	0	0	0	0	NONE	0
NACA_HUMAN	23370	NACA	Nascent polypeptide-associated complex subunit alpha	0	0	0	1	2	2	0	0	0	NONE	0
NACAM_HUMAN	205979	NACA	Nascent polypeptide-associated complex subunit alpha, muscle-specific for	0	0	0	1	2	2	0	0	0	NONE	0
NAT14_HUMAN	21808	NAT14	N-acetyltransferase 14	0	0	0	0	0	0	0	1	0	1	52-74
NAV1_HUMAN	203088	NAV1	Neuron navigator 1	1	0	0	0	0	0	0	0	0	NONE	0
NB5R3_HUMAN	34441	CYB5R3	NADH-cytochrome b5 reductase 3	0	0	0	3	2	1	8	7	8	1	6-28
NBEA_HUMAN	330066	NBEA	Neurobeachin	0	0	0	0	0	0	0	0	0	2	2607-2629,2781-2803
NCALD_HUMAN	22345	NCALD	Neurocalcin-delta	1	1	1	1	1	1	0	0	0	NONE	0
NCEH1_HUMAN	46064	NCEH1	Neutral cholesterol ester hydrolase 1	0	0	0	0	0	0	0	1	1	NONE	0
NCKP1_HUMAN	130018	NCKAP1	Nck-associated protein 1	0	1	0	0	0	0	0	0	0	NONE	0
NCLN_HUMAN	63106	NCLN	Nicalin	1	1	1	0	0	0	3	3	1	2	15-37,524-546
NCPR_HUMAN	77097	POR	NADPH--cytochrome P450 reductase	0	0	0	3	6	4	31	25	31	1	20-42
NDK8_HUMAN	15690	NME2P1	Putative nucleoside diphosphate kinase	2	3	2	5	2	4	1	0	1	NONE	0
NDKA_HUMAN	17309	NME1	Nucleoside diphosphate kinase A	3	4	4	8	5	7	3	2	3	NONE	0
NDKB_HUMAN	17401	NME2	Nucleoside diphosphate kinase B	3	4	4	8	5	6	3	2	3	NONE	0
NDRG1_HUMAN	43264	NDRG1	Protein NDRG1	0	0	0	9	9	5	0	0	0	NONE	0
NDUA2_HUMAN	11029	NDUFA2	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 2	0	0	0	0	0	0	0	2	0	NONE	0
NDUA5_HUMAN	13507	NDUFA5	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 5	0	0	0	0	0	0	1	1	1	NONE	0
NDUA8_HUMAN	20548	NDUFA8	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 8	1	1	1	1	2	2	4	3	2	NONE	0
NDUA9_HUMAN	42654	NDUFA9	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 9, mitochondrial	0	0	0	0	0	0	1	0	0	1	275-297
NDUAA_HUMAN	41067	NDUFA10	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 10, mitochondrial	0	0	0	0	0	0	1	1	0	NONE	0
NDUAC_HUMAN	17104	NDUFA12	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 12	0	0	0	0	0	0	3	0	2	NONE	0
NDUAD_HUMAN	16688	NDUFA13	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 13	0	0	0	0	0	0	2	2	2	1	29-50

NDUB4_HUMAN	15256	NDUFB4	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 4	0	0	0	0	0	0	0	1	0	1	85-107
NDUB5_HUMAN	21737	NDUFB5	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 5, mitochondrial	0	0	0	0	0	0	0	1	1	2	3-25,72-94
NDUB9_HUMAN	22045	NDUFB9	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 9	0	0	0	0	0	0	0	1	1	NONE	0
NDUBA_HUMAN	21048	NDUFB10	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 10	0	0	0	0	0	0	1	2	0	NONE	0
NDUC2_HUMAN	14235	NDUFC2	NADH dehydrogenase [ubiquinone] 1 subunit C2	0	0	0	0	0	0	3	1	3	NONE	0
NDUCR_HUMAN	13570	UFCD2-KCTD1	NADH dehydrogenase [ubiquinone] 1 subunit C2, isoform 2	0	0	0	0	0	0	2	1	3	NONE	0
NDUS1_HUMAN	80443	NDUFS1	NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial	0	0	0	0	0	0	5	3	4	NONE	0
NDUS2_HUMAN	52911	NDUFS2	NADH dehydrogenase [ubiquinone] iron-sulfur protein 2, mitochondrial	0	0	0	0	0	0	3	1	2	NONE	0
NDUS3_HUMAN	30337	NDUFS3	NADH dehydrogenase [ubiquinone] iron-sulfur protein 3, mitochondrial	0	0	0	1	1	0	2	1	2	NONE	0
NDUS5_HUMAN	12737	NDUFS5	NADH dehydrogenase [ubiquinone] iron-sulfur protein 5	0	0	0	0	0	1	0	0	0	NONE	0
NDUS7_HUMAN	23833	NDUFS7	NADH dehydrogenase [ubiquinone] iron-sulfur protein 7, mitochondrial	0	0	0	0	0	0	1	1	1	NONE	0
NDUS8_HUMAN	24203	NDUFS8	NADH dehydrogenase [ubiquinone] iron-sulfur protein 8, mitochondrial	0	0	0	0	0	0	1	0	2	NONE	0
NDUV1_HUMAN	51469	NDUFV1	NADH dehydrogenase [ubiquinone] flavoprotein 1, mitochondrial	0	0	0	0	0	0	1	0	0	NONE	0
NEB2_HUMAN	89309	PPP1R9B	Neurabin-2	0	0	0	1	0	0	0	0	0	NONE	0
NECT2_HUMAN	58162	NECTIN2	Nectin-2	2	1	0	0	0	2	0	0	0	2	14-36,358-380
NEP_HUMAN	86144	MME	Neprilysin	0	0	0	1	1	0	0	0	0	1	28-50
NEUR1_HUMAN	45952	NEU1	Sialidase-1	0	0	0	0	0	0	1	1	2	1	24-45
NF1_HUMAN	322760	NF1	Neurofibromin	0	0	0	0	0	0	0	1	1	4	264-286,2072-2094,2096-2118,2313-2335
NFH_HUMAN	112639	NEFH	Neurofilament heavy polypeptide	0	0	0	0	0	1	0	0	0	NONE	0
NGDN_HUMAN	35872	NGDN	Neuroguidin	1	0	0	0	1	0	1	2	1	NONE	0
NHRF1_HUMAN	39130	SLC9A3R1	Na(+)/H(+) exchange regulatory cofactor NHE-RF1	0	0	0	6	7	6	0	0	0	NONE	0
NIBAN_HUMAN	103135	NIBAN1	Protein Niban 1	1	1	1	0	1	0	0	0	0	NONE	0
NIBL1_HUMAN	84598	FAM129B	Niban-like protein 1	0	0	0	3	2	2	0	0	0	NONE	0
NICA_HUMAN	79103	NCSTN	Nicastrin	1	2	1	2	2	1	0	1	1	NONE	0
NIN_HUMAN	245208	NIN	Ninein	0	0	0	0	0	0	3	1	2	NONE	0
NIPS1_HUMAN	33460	NIPSNAP1	Protein NipSnap homolog 1	0	0	0	0	0	0	2	1	1	NONE	0
NLRP3_HUMAN	120662	NLRP3	NACHT, LRR and PYD domains-containing protein 3	0	0	0	0	1	2	1	1	1	2	403-425,434-456
NLRP6_HUMAN	100188	NLRP6	NACHT, LRR and PYD domains-containing protein 6	1	0	0	0	0	0	0	0	0	2	380-402,413-435
NLTP_HUMAN	59640	SCP2	Non-specific lipid-transfer protein	0	0	0	1	1	1	6	4	3	NONE	0
NNTM_HUMAN	114564	NNT	NAD(P) transhydrogenase, mitochondrial	0	0	0	0	0	0	3	2	2	13	479-501,505-527,531-553,597-619,621-643,646-668,670-691,701-723,735-757,772-794,811-833,858-880,924-946
NOLC1_HUMAN	73560	NOLC1	Nucleolar and coiled-body phosphoprotein 1	0	1	0	0	0	0	0	0	0	NONE	0
NOMO1_HUMAN	135209	NOMO1	Nodal modulator 1	0	0	0	0	0	0	4	6	6	1	2-24
NOMO2_HUMAN	140435	NOMO2	Nodal modulator 2	0	0	0	0	0	0	4	6	6	1	2-24
NOMO3_HUMAN	135019	NOMO3	Nodal modulator 3	0	0	0	0	0	0	4	6	6	1	2-24
NONO_HUMAN	54311	NONO	Non-POU domain-containing octamer-binding protein	2	1	1	0	0	0	2	1	2	NONE	0
NP1L1_HUMAN	45631	NAP1L1	Nucleosome assembly protein 1-like 1	1	1	1	1	0	1	0	0	0	NONE	0
NP1L4_HUMAN	42968	NAP1L4	Nucleosome assembly protein 1-like 4	1	1	1	2	2	3	0	0	0	NONE	0
NPC1_HUMAN	144868	NPC1	NPC intracellular cholesterol transporter 1	0	1	0	0	0	0	1	1	1	13	1-23,264-286,350-372,529-549,622-644,652-674,684-706,764-785,1094-1116,1121-1143,1148-1170,1192-1214,1227-1249
NPM_HUMAN	32726	NPM1	Nucleophosmin	10	9	12	10	8	8	11	9	11	NONE	0
NPTN_HUMAN	44702	NPTN	Neuroplastin	3	2	3	2	2	1	2	2	1	2	8-30,338-359
NQO1_HUMAN	30905	NQO1	NAD(P)H dehydrogenase [quinone] 1	4	4	2	0	0	0	1	1	2	NONE	0
NSDHL_HUMAN	42159	NSDHL	Sterol-4-alpha-carboxylate 3-dehydrogenase, decarboxylating	0	0	0	2	2	2	2	1	2	1	296-318
NSF_HUMAN	83055	NSF	Vesicle-fusing ATPase	0	0	0	0	0	1	1	3	0	NONE	0
NT5D1_HUMAN	52439	NT5DC1	5'-nucleotidase domain-containing protein 1	1	1	1	0	0	0	0	0	0	NONE	0
NTR2_HUMAN	45869	NTSR2	Neurotensin receptor type 2	0	0	0	0	1	0	1	0	1	7	29-51,72-94,154-175,193-215,222-244,292-314,341-363
NU4M_HUMAN	51718	MT-ND4	NADH-ubiquinone oxidoreductase chain 4	0	0	0	0	0	0	0	0	1	12	1-18,27-49,60-82,104-126,154-176,185-207,226-248,256-278,282-304,310-331,363-385,390-412
NUCB1_HUMAN	53846	NUCB1	Nucleobindin-1	0	0	0	3	3	2	4	5	5	1	8-30
NUCB2_HUMAN	50305	NUCB2	Nucleobindin-2	0	0	0	1	1	2	2	2	2	1	7-29
NUCL_HUMAN	76625	NCL	Nucleolin	2	3	4	2	3	1	13	14	12	NONE	0
NUDC_HUMAN	38276	NUDC	Nuclear migration protein nudC	0	0	0	1	1	2	1	1	1	NONE	0
NUDC3_HUMAN	40854	NUDCD3	NudC domain-containing protein 3	0	0	0	0	0	0	0	0	1	NONE	0
NUMA1_HUMAN	239199	NUMA1	Nuclear mitotic apparatus protein 1	0	0	0	0	0	1	0	1	0	NONE	0
NXPE1_HUMAN	63708	NXPE1	NXPE family member 1	1	1	0	0	0	0	0	0	0	NONE	0
NXPE4_HUMAN	62850	NXPE4	NXPE family member 4	1	1	0	0	0	0	0	0	0	1	8-30

O10H2_HUMAN	34663	OR10H2	Olfactory receptor 10H2	1	1	1	0	0	0	0	0	8	1-23,29-51,61-83,94-116,144-166,202-224,241-262,274-294
OAT_HUMAN	48846	OAT	Ornithine aminotransferase, mitochondrial	0	0	0	0	0	0	1	0	NONE	0
OCAD1_HUMAN	27780	OCIAD1	OCIA domain-containing protein 1	0	0	0	0	0	0	1	2	NONE	0
OCRL_HUMAN	105392	OCRL	Inositol polyphosphate 5-phosphatase OCRL-1	0	0	0	1	0	0	0	0	NONE	0
ODO1_HUMAN	117059	OGDH	2-oxoglutarate dehydrogenase, mitochondrial	0	0	0	0	0	0	0	1	NONE	0
ODO2_HUMAN	49067	DLST	Dihydrolipoylysine-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex, mitochondrial	1	1	2	1	2	2	2	1	NONE	0
ODP2_HUMAN	69466	DLAT	Dihydrolipoylysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial	0	0	0	0	0	0	1	0	NONE	0
ODPA_HUMAN	43952	PDHA1	Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial	0	0	0	0	0	0	1	0	NONE	0
ODPB_HUMAN	39550	PDHB	Pyruvate dehydrogenase E1 component subunit beta, mitochondrial	0	0	0	0	0	0	3	1	NONE	0
OFUT1_HUMAN	44383	POFUT1	GDP-fucose protein O-fucosyltransferase 1	0	0	0	0	0	0	1	0	NONE	0
OPA1_HUMAN	112131	OPA1	Dynamin-like 120 kDa protein, mitochondrial	0	0	0	0	0	1	0	0	NONE	0
OR6K2_HUMAN	37230	OR6K2	Olfactory receptor 6K2	0	0	0	0	0	0	1	0	8	24-46,57-79,108-130,145-167,177-199,209-231,239-261,270-292
ORML1_HUMAN	17360	ORMDL1	ORM1-like protein 1	0	0	0	0	0	0	1	1	2	23-45,101-117
ORML2_HUMAN	17352	ORMDL2	ORM1-like protein 2	0	0	0	0	0	0	1	1	2	25-47,110-132
ORML3_HUMAN	17483	ORMDL3	ORM1-like protein 3	0	0	0	0	0	0	1	1	1	25-47
OS9_HUMAN	75971	OS9	Protein OS-9	0	0	0	0	0	0	1	0	1	4-26
OSBP2_HUMAN	102172	OSBP2	Oxysterol-binding protein 2	0	0	0	0	0	1	0	0	NONE	0
OST48_HUMAN	50940	DDOST	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 48 kDa subunit	1	1	1	0	1	1	20	16	2	22-44,431-448
OSTC_HUMAN	16932	OSTC	Oligosaccharyltransferase complex subunit OSTC	0	0	0	0	0	0	1	0	2	32-54,115-137
OSTF1_HUMAN	23943	OSTF1	Osteoclast-stimulating factor 1	0	0	0	0	0	1	0	0	NONE	0
OTOF_HUMAN	228207	OTOF	Otoferlin	1	0	0	0	0	0	1	1	1	1969-1991
OX1R_HUMAN	48246	HCRT1R	Orexin receptor type 1	0	0	0	0	0	0	0	1	6	48-70,83-105,116-138,164-186,215-237,299-320
OXA1L_HUMAN	48916	OXA1L	Mitochondrial inner membrane protein OXA1L	0	0	0	0	0	0	1	0	1	140-162
OXLA_HUMAN	62881	IL4I1	L-amino-acid oxidase	1	1	1	0	0	0	0	0	1	1-22
OXND1_HUMAN	35345	OXNAD1	Oxidoreductase NAD-binding domain-containing protein 1	0	0	0	0	0	1	0	0	NONE	0
OXR1_HUMAN	98480	OXR1	Oxidation resistance protein 1	0	1	1	0	0	0	0	0	NONE	0
P2RX4_HUMAN	43369	P2RX4	P2X purinoceptor 4	0	0	0	1	1	1	0	0	3	1-23,28-50,337-359
P2Y13_HUMAN	41275	P2RY13	P2Y purinoceptor 13	0	0	0	0	0	0	0	0	7	45-67,78-100,119-141,157-179,210-232,255-276,301-321
P3H1_HUMAN	84196	P3H1	Prolyl 3-hydroxylase 1	0	0	0	0	0	1	2	2	1	1-22
P4HA1_HUMAN	61296	P4HA1	Prolyl 4-hydroxylase subunit alpha-1	0	0	0	1	2	0	4	3	NONE	0
P4HA2_HUMAN	61263	P4HA2	Prolyl 4-hydroxylase subunit alpha-2	0	0	0	0	1	0	0	0	1	2-24
P5CR1_HUMAN	33568	PYCR1	Pyrroline-5-carboxylate reductase 1, mitochondrial	0	0	0	3	2	2	5	4	NONE	0
P5CR2_HUMAN	33958	PYCR2	Pyrroline-5-carboxylate reductase 2	0	0	0	0	0	0	0	0	NONE	0
P5CS_HUMAN	87989	ALDH18A1	Delta-1-pyrroline-5-carboxylate synthase	0	0	0	1	0	0	15	19	NONE	0
PA2G4_HUMAN	44101	PA2G4	Proliferation-associated protein 2G4	0	0	0	3	1	1	0	0	NONE	0
PABP1_HUMAN	70854	PABPC1	Polyadenylate-binding protein 1	0	1	1	2	1	1	2	2	NONE	0
PABP3_HUMAN	70215	PABPC3	Polyadenylate-binding protein 3	0	1	0	1	1	1	1	1	NONE	0
PACN3_HUMAN	48799	PACSIN3	Protein kinase C and casein kinase substrate in neurons protein 3	0	0	0	1	0	0	0	0	NONE	0
PAIRB_HUMAN	44995	SERBP1	Plasminogen activator inhibitor 1 RNA-binding protein	3	2	2	9	7	5	2	2	NONE	0
PAK4_HUMAN	64317	PAK4	Serine/threonine-protein kinase PAK 4	1	1	1	0	1	1	1	0	NONE	0
PAL4A_HUMAN	18398	PPIAL4A	Peptidyl-prolyl cis-trans isomerase A-like 4A	0	0	0	2	0	2	0	0	NONE	0
PAL4C_HUMAN	18372	PPIAL4C	Peptidyl-prolyl cis-trans isomerase A-like 4C	0	0	0	0	0	1	0	0	NONE	0
PAL4D_HUMAN	18383	PPIAL4D	Peptidyl-prolyl cis-trans isomerase A-like 4D	0	0	0	0	0	1	0	0	NONE	0
PAL4E_HUMAN	18413	PPIAL4E	Peptidyl-prolyl cis-trans isomerase A-like 4E	0	0	0	0	0	1	0	0	NONE	0
PAL4F_HUMAN	18413	PPIAL4F	Peptidyl-prolyl cis-trans isomerase A-like 4F	0	0	0	0	0	1	0	0	NONE	0
PAL4G_HUMAN	18382	PPIAL4G	Peptidyl-prolyl cis-trans isomerase A-like 4G	0	0	0	0	0	1	0	0	NONE	0
PAL4H_HUMAN	18424	PPIAL4H	Peptidyl-prolyl cis-trans isomerase A-like 4H	0	0	0	0	0	1	0	0	NONE	0
PALM_HUMAN	42221	PALM	Paralemmin-1	0	0	0	1	0	0	0	0	NONE	0
PAN3_HUMAN	96293	PAN3	PAN2-PAN3 deadenylation complex subunit PAN3	1	0	0	0	0	0	0	0	NONE	0
PAP1L_HUMAN	68976	PABPC1L	Polyadenylate-binding protein 1-like	0	0	1	1	0	0	1	1	NONE	0
PARK7_HUMAN	20050	PARK7	Protein/nucleic acid deglycase DJ-1	0	0	0	1	0	1	0	0	NONE	0
PARP8_HUMAN	97065	PARP8	Protein mono-ADP-ribosyltransferase PARP8	0	0	1	0	0	0	0	0	NONE	0
PCAT1_HUMAN	59741	LPCAT1	Lysophosphatidylcholine acyltransferase 1	0	0	0	1	1	1	2	1	1	49-71
PCBP1_HUMAN	37987	PCBP1	Poly(rC)-binding protein 1	0	0	0	7	7	5	3	3	NONE	0
PCBP2_HUMAN	38955	PCBP2	Poly(rC)-binding protein 2	0	0	0	5	6	2	2	2	NONE	0

PCBP3_HUMAN	39725	PCBP3	Poly(rC)-binding protein 3	0	0	0	5	5	2	2	2	2	NONE	0
PCDGM_HUMAN	101921	PCDHG5	Protocadherin gamma-C5	2	1	2	0	0	0	0	0	0	2	8-30,692-714
PCH2_HUMAN	48863	TRIP13	Pachytene checkpoint protein 2 homolog	0	0	0	1	1	1	0	0	0	NONE	0
PCLI1_HUMAN	28766	PID1	PTB-containing, cubilin and LRP1-interacting protein	3	1	2	3	1	0	0	0	0	NONE	0
PCLO_HUMAN	562179	PCLO	Protein piccolo	1	1	1	1	1	1	0	0	0	ERROR	0
PCYOX_HUMAN	57003	PCYOX1	Prenylcysteine oxidase 1	0	0	0	3	3	2	10	8	9	3	3-25,36-54,129-151
PDC10_HUMAN	24686	PDCD10	Programmed cell death protein 10	0	0	0	1	1	2	0	0	0	NONE	0
PDC61_HUMAN	96590	PDCD6IP	Programmed cell death 6-interacting protein	0	0	0	1	1	2	0	0	0	NONE	0
PDCD5_HUMAN	14276	PDCD5	Programmed cell death protein 5	1	1	1	1	1	1	1	0	1	NONE	0
PDCD6_HUMAN	21912	PDCD6	Programmed cell death protein 6	0	0	0	4	5	5	0	0	0	NONE	0
PDIA1_HUMAN	57480	P4HB	Protein disulfide-isomerase	15	14	13	29	29	31	76	77	71	NONE	0
PDIA3_HUMAN	57146	PDIA3	Protein disulfide-isomerase A3	5	5	6	20	23	17	61	69	65	NONE	0
PDIA4_HUMAN	73229	PDIA4	Protein disulfide-isomerase A4	1	3	1	4	2	4	51	51	51	1	6-24
PDIA5_HUMAN	60297	PDIA5	Protein disulfide-isomerase A5	0	0	0	0	0	0	4	3	5	NONE	0
PDIA6_HUMAN	48490	PDIA6	Protein disulfide-isomerase A6	5	4	3	8	10	9	27	30	32	1	2-24
PDIP3_HUMAN	46289	POLDIP3	Polymerase delta-interacting protein 3	0	0	0	0	0	0	0	1	0	NONE	0
PDP2_HUMAN	60396	PDP2	[Pyruvate dehydrogenase [acetyl-transferring]]-phosphatase 2, mitochondrial	1	0	0	0	0	0	0	0	0	NONE	0
PEBP1_HUMAN	21158	PEBP1	Phosphatidylethanolamine-binding protein 1	0	0	0	1	0	1	1	1	1	NONE	0
PECR_HUMAN	32809	PECR	Peroxisomal trans-2-enoyl-CoA reductase	0	0	0	0	0	0	3	2	1	NONE	0
PEDF_HUMAN	46454	SERPINF1	Pigment epithelium-derived factor	1	0	0	0	0	0	0	0	0	NONE	0
PERI_HUMAN	53732	PRPH	Peripherin	1	1	1	3	1	2	0	0	0	NONE	0
PEX14_HUMAN	41269	PEX14	Peroxisomal membrane protein PEX14	0	0	0	0	0	0	1	0	0	NONE	0
PFD2_HUMAN	16695	PFDN2	Prefoldin subunit 2	0	1	2	1	2	2	0	0	0	NONE	0
PFKAL_HUMAN	85762	PFKL	ATP-dependent 6-phosphofructokinase, liver type	0	0	0	1	2	0	0	0	0	NONE	0
PFKAP_HUMAN	86454	PFKP	ATP-dependent 6-phosphofructokinase, platelet type	0	0	0	0	1	1	0	0	0	NONE	0
PGAM1_HUMAN	28900	PGAM1	Phosphoglycerate mutase 1	2	0	2	4	3	5	0	0	0	NONE	0
PGAM2_HUMAN	28919	PGAM2	Phosphoglycerate mutase 2	2	0	2	3	3	5	0	0	0	NONE	0
PGAM4_HUMAN	28930	PGAM4	Probable phosphoglycerate mutase 4	1	0	1	1	1	1	0	0	0	NONE	0
PGAM5_HUMAN	32213	PGAM5	Serine/threonine-protein phosphatase PGAM5, mitochondrial	0	0	0	0	0	0	2	5	1	NONE	0
PGK1_HUMAN	44985	PGK1	Phosphoglycerate kinase 1	0	0	0	11	12	15	0	0	0	NONE	0
PGK2_HUMAN	45166	PGK2	Phosphoglycerate kinase 2	0	0	0	3	2	5	0	0	0	NONE	0
PGM1_HUMAN	61696	PGM1	Phosphoglucomutase-1	0	0	0	0	1	2	0	0	0	NONE	0
PGRC1_HUMAN	21772	PGRMC1	Membrane-associated progesterone receptor component 1	2	2	1	0	0	0	9	6	8	1	26-48
PGRC2_HUMAN	23861	PGRMC2	Membrane-associated progesterone receptor component 2	1	1	1	1	1	1	6	3	4	1	52-74
PHAR4_HUMAN	78391	PHACTR4	Phosphatase and actin regulator 4	1	0	1	0	0	0	0	0	0	NONE	0
PHB_HUMAN	29843	PHB	Prohibitin	6	4	6	7	9	11	20	19	18	NONE	0
PHB2_HUMAN	33276	PHB2	Prohibitin-2	5	6	4	8	6	10	18	19	20	NONE	0
PHF19_HUMAN	66803	PHF19	PHD finger protein 19	0	0	0	0	1	0	0	0	0	NONE	0
PIGS_HUMAN	61731	PIGS	GPI transamidase component PIG-S	0	0	0	0	0	0	0	0	1	2	19-35,520-542
PITH1_HUMAN	24391	PITHD1	PITH domain-containing protein 1	0	0	0	1	1	1	0	0	0	NONE	0
PIWL2_HUMAN	109849	PIWIL2	Piwi-like protein 2	1	0	1	0	0	0	0	0	0	NONE	0
PK2L1_HUMAN	92608	PKD2L1	Polycystic kidney disease 2-like 1 protein	0	0	0	0	0	0	1	0	1	7	101-123,307-328,348-370,384-406,441-463,473-495,539-561
PKHA8_HUMAN	58908	PLEKHA8	Pleckstrin homology domain-containing family A member 8	0	0	0	0	0	1	0	0	0	NONE	0
PKHA9_HUMAN	44081	LEKHA8P	Putative protein PLEKHA9	0	0	0	0	0	1	0	0	0	NONE	0
PKN1_HUMAN	104666	PKN1	Serine/threonine-protein kinase N1	0	0	0	0	0	0	1	1	0	NONE	0
PKN2_HUMAN	112820	PKN2	Serine/threonine-protein kinase N2	0	0	0	0	1	0	0	0	0	NONE	0
PLAK_HUMAN	82434	JUP	Junction plakoglobin	0	0	2	16	16	17	1	1	3	NONE	0
PLCB3_HUMAN	139511	PLCB3	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-3	2	1	2	1	0	0	0	0	0	NONE	0
PLCE_HUMAN	42387	AGPAT5	1-acyl-sn-glycerol-3-phosphate acyltransferase epsilon	0	0	0	0	0	0	1	0	0	NONE	0
PLEC_HUMAN	533462	PLEC	Plectin	8	8	8	19	12	13	0	1	0	NONE	0
PLGA_HUMAN	11136	PLGLA	Plasminogen-like protein A	1	1	0	0	1	1	0	0	0	NONE	0
PLGB_HUMAN	11192	PLGLB1	Plasminogen-like protein B	1	1	0	0	1	1	0	0	0	NONE	0
PLIN3_HUMAN	47217	PLIN3	Perilipin-3	0	1	0	5	5	7	3	3	3	NONE	0
PLMN_HUMAN	93247	PLG	Plasminogen	1	1	0	0	1	1	0	0	0	NONE	0
PLOD1_HUMAN	84068	PLOD1	Procollagen-lysine,2-oxoglutarate 5-dioxygenase 1	0	0	0	2	2	2	2	1	1	1	1-20
PLOD2_HUMAN	85373	PLOD2	Procollagen-lysine,2-oxoglutarate 5-dioxygenase 2	0	1	0	0	1	0	1	1	1	NONE	0
PLOD3_HUMAN	85302	PLOD3	Multifunctional procollagen lysine hydroxylase and glycosyltransferase LH3	0	0	0	2	2	2	0	6	3	NONE	0

PLP2_HUMAN	17022	PLP2	Proteolipid protein 2	0	0	0	1	0	0	0	0	0	3	25-43,50-72,92-114
PLPP2_HUMAN	33066	PLPP2	Phospholipid phosphatase 2	0	0	0	1	1	0	0	0	0	6	6-28,53-74,90-112,172-190,196-213,224-246
PLRG1_HUMAN	57194	PLRG1	Pleiotropic regulator 1	1	1	1	1	0	1	1	1	1	NONE	0
PLSI_HUMAN	70608	PLS1	Plastin-1	0	0	0	0	1	1	0	0	0	NONE	0
PLSL_HUMAN	70814	LCP1	Plastin-2	0	0	0	0	1	0	0	0	0	NONE	0
PLST_HUMAN	71279	PLS3	Plastin-3	2	0	0	1	4	4	0	0	0	NONE	0
PLXB2_HUMAN	207734	PLXNB2	Plexin-B2	0	0	0	1	3	2	0	0	0	3	1-21,35-57,1196-1217
PMS1_HUMAN	106619	PMS1	PMS1 protein homolog 1	0	0	0	0	0	0	1	0	0	NONE	0
PODXL_HUMAN	59055	PODXL	Podocalyxin	0	0	0	1	1	0	0	0	0	2	2-22,460-482
PON2_HUMAN	39527	PON2	Serum paraoxonase/arylesterase 2	0	0	0	0	0	0	2	2	1	NONE	0
POTEE_HUMAN	122882	POTEE	POTE ankryrin domain family member E	51	42	40	40	34	33	25	22	21	NONE	0
POTEF_HUMAN	123020	POTEF	POTE ankryrin domain family member F	43	40	36	37	31	30	25	20	19	NONE	0
POTEL_HUMAN	122858	POTEL	POTE ankryrin domain family member I	43	37	35	36	30	30	23	20	17	NONE	0
POTEJ_HUMAN	118740	POTEJ	POTE ankryrin domain family member J	31	25	25	22	18	21	12	14	10	NONE	0
PP1A_HUMAN	38229	PPP1CA	Serine/threonine-protein phosphatase PP1-alpha catalytic subunit	0	0	0	1	1	1	0	0	0	NONE	0
PP1B_HUMAN	37961	PPP1CB	Serine/threonine-protein phosphatase PP1-beta catalytic subunit	0	0	0	1	1	1	0	0	0	NONE	0
PP1G_HUMAN	37701	PPP1CC	Serine/threonine-protein phosphatase PP1-gamma catalytic subunit	1	0	0	1	1	1	0	0	0	NONE	0
PP2BA_HUMAN	59335	PPP3CA	Serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform	0	0	0	0	1	0	0	0	0	NONE	0
PP2BB_HUMAN	59671	PPP3CB	Serine/threonine-protein phosphatase 2B catalytic subunit beta isoform	0	0	0	0	1	0	0	0	0	NONE	0
PP2BC_HUMAN	58777	PPP3CC	Serine/threonine-protein phosphatase 2B catalytic subunit gamma isoform	0	0	0	0	1	0	0	0	0	NONE	0
PP4R4_HUMAN	100472	PPP4R4	Serine/threonine-protein phosphatase 4 regulatory subunit 4	1	1	1	0	0	0	0	0	0	NONE	0
PP4RL_HUMAN	46677	PPP4R1L	Putative serine/threonine-protein phosphatase 4 regulatory subunit 1-like	1	0	0	0	0	0	0	0	0	NONE	0
PPAL_HUMAN	48713	ACP2	Lysosomal acid phosphatase	0	0	0	1	1	0	0	0	0	2	8-29,383-405
PPGB_HUMAN	54944	CTSA	Lysosomal protective protein	0	0	0	1	1	1	1	1	2	1	2-24
PPIA_HUMAN	18229	PPIA	Peptidyl-prolyl cis-trans isomerase A	5	7	6	15	13	14	2	1	1	NONE	0
PPIB_HUMAN	23785	PPIB	Peptidyl-prolyl cis-trans isomerase B	12	14	10	23	19	25	37	33	38	NONE	0
PPIC_HUMAN	22863	PPIC	Peptidyl-prolyl cis-trans isomerase C	0	0	0	0	0	1	0	0	0	1	6-28
PPID_HUMAN	41137	PPID	Peptidyl-prolyl cis-trans isomerase D	0	0	0	0	0	1	0	0	0	NONE	0
PPIF_HUMAN	22368	PPIF	Peptidyl-prolyl cis-trans isomerase F, mitochondrial	0	0	0	0	0	1	1	1	0	NONE	0
PPIH_HUMAN	19481	PPIH	Peptidyl-prolyl cis-trans isomerase H	0	0	0	0	0	2	0	0	0	NONE	0
PPR3A_HUMAN	127000	PPP1R3A	Protein phosphatase 1 regulatory subunit 3A	0	0	0	0	0	0	1	0	1	1	1081-1103
PPRC1_HUMAN	178917	PPRC1	Peroxisome proliferator-activated receptor gamma coactivator-related protein 1	0	0	0	1	0	0	0	0	0	NONE	0
PQLC1_HUMAN	30686	PQLC1	PQ-loop repeat-containing protein 1	0	0	0	0	0	0	2	1	2	6	9-31,50-70,80-102,143-165,169-191,230-252
PRAF3_HUMAN	21600	ARL6IP5	PRA1 family protein 3	0	0	0	0	1	0	0	1	1	3	36-58,64-86,108-130
PRC2B_HUMAN	243958	PRRC2B	Protein PRRC2B	0	0	0	0	0	0	0	0	0	NONE	0
PRC2C_HUMAN	317346	PRRC2C	Protein PRRC2C	0	0	0	0	0	1	0	0	0	NONE	0
PRCA1_HUMAN	41108	PROCA1	Protein PROCA1	1	0	0	0	0	0	0	0	0	NONE	0
PRDX1_HUMAN	22324	PRDX1	Peroxisredoxin-1	11	12	10	9	9	10	4	2	2	NONE	0
PRDX2_HUMAN	22049	PRDX2	Peroxisredoxin-2	2	1	2	3	4	2	1	0	1	NONE	0
PRDX3_HUMAN	28017	PRDX3	Thioredoxin-dependent peroxide reductase, mitochondrial	0	0	1	1	1	3	5	3	5	NONE	0
PRDX4_HUMAN	30749	PRDX4	Peroxisredoxin-4	3	2	3	6	7	7	6	5	6	1	20-36
PRDX5_HUMAN	22301	PRDX5	Peroxisredoxin-5, mitochondrial	0	0	0	1	1	1	0	0	0	NONE	0
PRDX6_HUMAN	25133	PRDX6	Peroxisredoxin-6	0	0	0	2	4	2	0	0	0	NONE	0
PREB_HUMAN	46010	PREB	Prolactin regulatory element-binding protein	0	0	0	0	0	0	0	1	1	2	314-336,392-414
PRIO_HUMAN	27871	PRNP	Major prion protein	1	1	1	0	0	0	0	0	0	2	1-20,230-252
PRKDC_HUMAN	473749	PRKDC	DNA-dependent protein kinase catalytic subunit	0	0	0	0	2	1	0	0	0	NONE	0
PROF1_HUMAN	15216	PFN1	Profilin-1	2	3	3	6	9	8	1	1	2	NONE	0
PRP8_HUMAN	274738	PRPF8	Pre-mRNA-processing-splicing factor 8	0	0	0	0	0	0	1	1	0	NONE	0
PRR25_HUMAN	41486	PRR25	Proline-rich protein 25	1	0	1	1	1	0	0	0	0	NONE	0
PRS10_HUMAN	44430	PSMC6	26S proteasome regulatory subunit 10B	0	0	0	0	1	0	0	0	0	NONE	0
PRSS6_HUMAN	65583	PRSS6	Serine protease 56	0	0	0	0	1	0	0	0	0	1	128-150
PSA1_HUMAN	29822	PSMA1	Proteasome subunit alpha type-1	0	0	0	1	2	2	0	0	0	NONE	0
PSA2_HUMAN	25996	PSMA2	Proteasome subunit alpha type-2	0	1	0	0	0	0	0	0	0	NONE	0
PSA3_HUMAN	28643	PSMA3	Proteasome subunit alpha type-3	0	0	0	0	0	1	0	0	0	NONE	0
PSA5_HUMAN	26565	PSMA5	Proteasome subunit alpha type-5	0	0	0	1	1	0	0	0	0	NONE	0
PSA7_HUMAN	28041	PSMA7	Proteasome subunit alpha type-7	0	0	0	0	1	0	0	0	0	NONE	0
PSB5_HUMAN	28633	PSMB5	Proteasome subunit beta type-5	0	0	0	0	2	1	0	0	0	NONE	0

PSB6_HUMAN	25570	PSMB6	Proteasome subunit beta type-6	0	0	0	0	0	1	0	0	0	NONE	0
PSD10_HUMAN	24697	PSMD10	26S proteasome non-ATPase regulatory subunit 10	1	1	1	2	1	1	1	1	1	NONE	0
PSD11_HUMAN	47719	PSMD11	26S proteasome non-ATPase regulatory subunit 11	0	0	0	0	1	0	0	0	0	NONE	0
PSMD1_HUMAN	106795	PSMD1	26S proteasome non-ATPase regulatory subunit 1	1	0	0	0	0	1	0	0	0	NONE	0
PSMD3_HUMAN	61054	PSMD3	26S proteasome non-ATPase regulatory subunit 3	0	0	1	0	1	0	0	0	0	NONE	0
PSMD6_HUMAN	45787	PSMD6	26S proteasome non-ATPase regulatory subunit 6	0	0	0	0	0	1	0	0	0	NONE	0
PSME1_HUMAN	28876	PSME1	Proteasome activator complex subunit 1	0	0	0	0	0	0	3	1	2	NONE	0
PSME2_HUMAN	27555	PSME2	Proteasome activator complex subunit 2	0	0	0	0	0	0	3	3	2	NONE	0
PSME4_HUMAN	213536	PSME4	Proteasome activator complex subunit 4	1	1	0	0	0	0	0	0	0	NONE	0
PTBP1_HUMAN	57357	PTBP1	Polypyrimidine tract-binding protein 1	2	3	2	2	1	2	2	2	1	NONE	0
PTBP2_HUMAN	57569	PTBP2	Polypyrimidine tract-binding protein 2	0	1	0	0	0	1	0	0	0	NONE	0
PTBP3_HUMAN	59937	PTBP3	Polypyrimidine tract-binding protein 3	0	0	0	0	0	0	1	0	0	NONE	0
PTCD3_HUMAN	79184	PTCD3	Pentatricopeptide repeat domain-containing protein 3, mitochondrial	0	0	0	1	0	0	0	0	0	NONE	0
PTGES_HUMAN	17319	PTGES	Prostaglandin E synthase	1	1	0	0	0	0	0	0	0	4	12-34,73-95,99-120,129-151
PTGR1_HUMAN	36075	PTGR1	Prostaglandin reductase 1	0	0	1	1	0	0	0	0	0	NONE	0
PTH2_HUMAN	19466	PTRH2	Peptidyl-tRNA hydrolase 2, mitochondrial	0	0	0	0	0	0	1	1	1	NONE	0
PTN1_HUMAN	50505	PTPN1	Tyrosine-protein phosphatase non-receptor type 1	0	0	0	0	0	0	1	1	1	NONE	0
PTPRD_HUMAN	215651	PTPRD	Receptor-type tyrosine-protein phosphatase delta	0	0	0	0	1	1	0	0	0	2	1-19,1267-1289
PTPRF_HUMAN	213942	PTPRF	Receptor-type tyrosine-protein phosphatase F	0	0	0	1	3	2	0	0	0	2	9-31,1262-1284
PTPRS_HUMAN	218159	PTPRS	Receptor-type tyrosine-protein phosphatase S	0	0	0	0	1	1	0	0	0	2	8-30,1282-1304
PTTG_HUMAN	21109	PTTG1IP	Pituitary tumor-transforming gene 1 protein-interacting protein	0	0	0	0	0	0	0	0	1	2	16-33,96-118
PUR6_HUMAN	47790	PAICS	Multifunctional protein ADE2	1	1	0	2	1	3	0	0	0	NONE	0
PUR9_HUMAN	65089	ATIC	Bifunctional purine biosynthesis protein PURH	0	0	0	0	0	0	0	0	1	NONE	0
PVR_HUMAN	45787	PVR	Poliovirus receptor	5	5	4	1	1	0	0	0	0	2	6-28,345-367
PWP3B_HUMAN	80073	PWWP3B	PWWP domain-containing DNA repair factor 3B	1	0	1	1	0	0	0	0	0	NONE	0
PXL2A_HUMAN	25861	PRXL2A	Peroxiredoxin-like 2A	0	0	0	0	0	0	5	5	7	1	13-35
PYC_HUMAN	130293	PC	Pyruvate carboxylase, mitochondrial	0	0	0	1	1	3	3	2	3	NONE	0
PYR1_HUMAN	245167	CAD	CAD protein	0	0	0	1	1	1	0	0	0	NONE	0
PZP_HUMAN	165242	PZP	Pregnancy zone protein	0	0	0	0	0	0	4	3	2	1	5-20
QCR1_HUMAN	53297	UQCRC1	Cytochrome b-c1 complex subunit 1, mitochondrial	0	0	0	1	1	1	6	8	8	NONE	0
QCR2_HUMAN	48584	UQCRC2	Cytochrome b-c1 complex subunit 2, mitochondrial	3	2	3	3	5	5	11	10	15	NONE	0
QCR6_HUMAN	11017	UQCRH	Cytochrome b-c1 complex subunit 6, mitochondrial	0	0	0	0	0	0	1	0	1	NONE	0
QCR6L_HUMAN	10973	UQCRHL	Cytochrome b-c1 complex subunit 6-like, mitochondrial	0	0	0	0	0	0	1	0	1	NONE	0
QCR7_HUMAN	13522	UQCRB	Cytochrome b-c1 complex subunit 7	0	0	0	0	0	0	1	0	0	NONE	0
QCR8_HUMAN	9900	UQCRQ	Cytochrome b-c1 complex subunit 8	1	1	1	1	1	1	2	3	3	1	43-65
QOR_HUMAN	35356	CRYZ	Quinone oxidoreductase	0	0	0	0	0	0	1	1	1	NONE	0
QSOX2_HUMAN	78221	QSOX2	Sulfhydryl oxidase 2	0	0	0	1	0	0	0	0	0	2	29-51,654-676
R113A_HUMAN	39504	RNF113A	E3 ubiquitin-protein ligase RNF113A	0	0	0	0	0	0	0	1	0	NONE	0
R13P3_HUMAN	12184	RPL13AP3	Putative 60S ribosomal protein L13a protein RPL13AP3	2	2	1	0	2	1	1	2	2	NONE	0
RA1L2_HUMAN	34375	HNRPA1L	Heterogeneous nuclear ribonucleoprotein A1-like 2	2	1	1	0	0	0	1	1	1	NONE	0
RAB10_HUMAN	22755	RAB10	Ras-related protein Rab-10	3	1	1	1	2	2	1	2	3	NONE	0
RAB13_HUMAN	22988	RAB13	Ras-related protein Rab-13	1	0	0	0	1	0	0	0	1	NONE	0
RAB14_HUMAN	24110	RAB14	Ras-related protein Rab-14	1	1	0	2	3	1	2	1	3	NONE	0
RAB15_HUMAN	24660	RAB15	Ras-related protein Rab-15	1	1	1	1	1	1	1	1	1	NONE	0
RAB1A_HUMAN	22891	RAB1A	Ras-related protein Rab-1A	4	4	3	7	8	8	12	11	15	NONE	0
RAB1B_HUMAN	22328	RAB1B	Ras-related protein Rab-1B	3	2	2	4	5	5	6	4	8	NONE	0
RAB1C_HUMAN	22231	RAB1C	Putative Ras-related protein Rab-1C	1	1	0	1	2	1	3	2	3	NONE	0
RAB21_HUMAN	24731	RAB21	Ras-related protein Rab-21	1	1	1	1	1	1	1	1	1	NONE	0
RAB25_HUMAN	23595	RAB25	Ras-related protein Rab-25	1	0	0	1	1	1	0	1	1	NONE	0
RAB2A_HUMAN	23702	RAB2A	Ras-related protein Rab-2A	0	0	0	3	2	3	1	1	1	NONE	0
RAB2B_HUMAN	24427	RAB2B	Ras-related protein Rab-2B	0	0	0	2	2	3	0	0	0	NONE	0
RAB31_HUMAN	21897	RAB31	Ras-related protein Rab-31	0	0	0	2	0	1	0	0	0	NONE	0
RAB35_HUMAN	23296	RAB35	Ras-related protein Rab-35	5	2	3	3	3	3	2	3	3	NONE	0
RAB3A_HUMAN	25196	RAB3A	Ras-related protein Rab-3A	1	0	0	0	0	0	0	0	0	NONE	0
RAB3B_HUMAN	24970	RAB3B	Ras-related protein Rab-3B	1	0	0	0	0	0	0	0	0	NONE	0
RAB3C_HUMAN	26164	RAB3C	Ras-related protein Rab-3C	1	0	0	0	0	0	0	0	0	NONE	0
RAB3D_HUMAN	24480	RAB3D	Ras-related protein Rab-3D	1	0	0	0	0	1	0	0	0	NONE	0
RAB5A_HUMAN	23872	RAB5A	Ras-related protein Rab-5A	0	0	0	2	1	1	1	2	2	NONE	0

RAB5B_HUMAN	23920	RAB5B	Ras-related protein Rab-5B	0	0	0	2	1	1	1	2	2	NONE	0
RAB5C_HUMAN	23696	RAB5C	Ras-related protein Rab-5C	1	1	1	5	5	3	6	7	7	NONE	0
RAB6A_HUMAN	23692	RAB6A	Ras-related protein Rab-6A	0	0	0	0	0	1	2	3	2	NONE	0
RAB6B_HUMAN	23561	RAB6B	Ras-related protein Rab-6B	0	0	0	0	0	0	0	1	1	NONE	0
RAB6C_HUMAN	28565	RAB6C	Ras-related protein Rab-6C	0	0	0	0	0	0	0	0	1	NONE	0
RAB6D_HUMAN	28452	RAB6D	Ras-related protein Rab-6D	0	0	0	0	0	0	1	0	1	NONE	0
RAB7A_HUMAN	23760	RAB7A	Ras-related protein Rab-7a	3	3	1	2	1	2	7	6	6	NONE	0
RAB8A_HUMAN	23824	RAB8A	Ras-related protein Rab-8A	2	2	1	3	3	1	4	3	5	NONE	0
RAB8B_HUMAN	23740	RAB8B	Ras-related protein Rab-8B	1	0	0	1	1	1	2	1	3	NONE	0
RAC1_HUMAN	21835	RAC1	Ras-related C3 botulinum toxin substrate 1	13	13	12	7	6	6	3	3	2	NONE	0
RAC2_HUMAN	21814	RAC2	Ras-related C3 botulinum toxin substrate 2	3	4	4	2	1	2	1	1	1	NONE	0
RAC3_HUMAN	21764	RAC3	Ras-related C3 botulinum toxin substrate 3	7	8	8	3	2	3	1	1	1	NONE	0
RACK1_HUMAN	35511	RACK1	Receptor of activated protein C kinase 1	0	0	0	1	1	1	0	0	0	NONE	0
RADI_HUMAN	68635	RDX	Radixin	17	12	15	15	14	12	0	0	0	NONE	0
RAI3_HUMAN	40624	GPRC5A	Retinoic acid-induced protein 3	2	3	2	4	3	3	0	0	0	7	30-52,67-89,99-121,131-153,179-201,213-235,241-263
RALA_HUMAN	23723	RALA	Ras-related protein Ral-A	2	1	2	1	1	2	2	2	2	NONE	0
RALB_HUMAN	23508	RALB	Ras-related protein Ral-B	1	1	1	0	2	3	3	2	2	NONE	0
RAN_HUMAN	24579	RAN	GTP-binding nuclear protein Ran	2	0	2	2	2	3	0	0	0	NONE	0
RAP1A_HUMAN	21316	RAP1A	Ras-related protein Rap-1A	3	3	1	1	2	2	3	4	3	NONE	0
RAP1B_HUMAN	21040	RAP1B	Ras-related protein Rap-1b	3	3	1	1	2	2	3	4	3	NONE	0
RAP2A_HUMAN	20830	RAP2A	Ras-related protein Rap-2a	1	1	1	1	0	0	0	0	0	NONE	0
RAP2B_HUMAN	20719	RAP2B	Ras-related protein Rap-2b	1	1	1	1	0	0	0	0	0	NONE	0
RAP2C_HUMAN	20959	RAP2C	Ras-related protein Rap-2c	1	1	1	1	0	1	0	0	0	NONE	0
RAPH1_HUMAN	135799	RAPH1	Ras-associated and pleckstrin homology domains-containing protein 1	0	1	0	0	0	0	0	0	0	NONE	0
RASH_HUMAN	21627	HRAS	GTPase HRas	1	0	0	0	1	1	1	1	0	NONE	0
RASK_HUMAN	21927	KRAS	GTPase KRas	1	0	0	0	1	1	1	1	0	NONE	0
RASN_HUMAN	21501	NRAS	GTPase NRas	1	0	0	0	1	1	1	1	0	NONE	0
RB11A_HUMAN	24492	RAB11A	Ras-related protein Rab-11A	4	5	3	5	4	5	1	2	2	NONE	0
RB11B_HUMAN	24588	RAB11B	Ras-related protein Rab-11B	4	5	3	5	4	5	1	2	2	NONE	0
RB33B_HUMAN	26043	RAB33B	Ras-related protein Rab-33B	0	0	0	1	0	1	1	1	1	NONE	0
RBBP4_HUMAN	47911	RBBP4	Histone-binding protein RBBP4	1	0	1	0	0	1	0	0	0	NONE	0
RBBP7_HUMAN	48132	RBBP7	Histone-binding protein RBBP7	1	0	1	0	0	1	0	0	0	NONE	0
RBP2_HUMAN	362365	RANBP2	E3 SUMO-protein ligase RanBP2	0	0	0	0	0	1	0	0	0	NONE	0
RCN1_HUMAN	38866	RCN1	Reticulocalbin-1	1	1	1	6	7	7	0	0	0	1	10-28
RCN2_HUMAN	36911	RCN2	Reticulocalbin-2	0	0	0	0	0	0	0	1	1	1	5-27
RCN3_HUMAN	37470	RCN3	Reticulocalbin-3	0	0	0	0	1	0	0	0	0	NONE	0
RDH11_HUMAN	35763	RDH11	Retinol dehydrogenase 11	0	0	0	0	0	0	1	1	0	1	1-23
RDH13_HUMAN	36195	RDH13	Retinol dehydrogenase 13	0	0	0	0	0	0	1	1	1	NONE	0
REEP5_HUMAN	21707	REEP5	Receptor expression-enhancing protein 5	0	0	0	0	0	0	1	1	1	2	37-59,96-118
REEP6_HUMAN	23574	REEP6	Receptor expression-enhancing protein 6	0	0	0	0	0	0	1	0	0	2	41-63,86-108
RER1_HUMAN	23057	RER1	Protein RER1	0	0	0	0	0	0	1	0	0	3	39-61,65-87,134-156
RET4_HUMAN	23337	RBP4	Retinol-binding protein 4	0	0	0	0	0	0	1	1	1	NONE	0
REV3L_HUMAN	355976	REV3L	DNA polymerase zeta catalytic subunit	0	0	0	0	0	0	1	1	1	NONE	0
RFC4_HUMAN	40170	RFC4	Replication factor C subunit 4	0	0	0	0	1	1	0	0	0	NONE	0
RGPA2_HUMAN	213088	RALGAP2	Ral GTPase-activating protein subunit alpha-2	0	0	1	2	2	1	1	1	1	3	1155-1177,1197-1219,1257-1279
RHG05_HUMAN	173834	ARHGAP5	Rho GTPase-activating protein 5	1	0	1	0	0	0	0	0	0	NONE	0
RHOA_HUMAN	22096	RHOA	Transforming protein RhoA	4	5	6	3	10	8	4	2	2	NONE	0
RHOB_HUMAN	22565	RHOB	Rho-related GTP-binding protein RhoB	0	0	0	0	2	1	1	0	1	NONE	0
RHOC_HUMAN	22334	RHOC	Rho-related GTP-binding protein RhoC	1	1	0	0	4	4	0	0	0	NONE	0
RHOF_HUMAN	24009	RHOF	Rho-related GTP-binding protein RhoF	1	2	1	0	0	0	0	0	0	NONE	0
RHOG_HUMAN	21751	RHOG	Rho-related GTP-binding protein RhoG	2	1	3	2	2	2	2	2	1	NONE	0
RHOJ_HUMAN	24489	RHOJ	Rho-related GTP-binding protein RhoJ	1	1	2	1	0	1	1	1	1	NONE	0
RHOQ_HUMAN	23215	RHOQ	Rho-related GTP-binding protein RhoQ	1	1	2	1	0	1	1	1	1	NONE	0
RIC8A_HUMAN	60185	RIC8A	Synembryn-A	0	0	1	1	1	0	1	0	0	NONE	0
RIR1_HUMAN	90925	RRM1	Ribonucleoside-diphosphate reductase large subunit	0	0	0	1	0	0	0	0	0	NONE	0
RL10_HUMAN	25044	RPL10	60S ribosomal protein L10	7	4	3	6	5	3	6	8	6	NONE	0
RL10A_HUMAN	24987	RPL10A	60S ribosomal protein L10a	3	2	2	6	5	5	6	7	8	NONE	0
RL10L_HUMAN	24959	RPL10L	60S ribosomal protein L10-like	5	4	2	5	5	3	5	7	5	NONE	0

RL11_HUMAN	20468	RPL11	60S ribosomal protein L11	3	2	3	2	2	3	4	5	4	NONE	0
RL12_HUMAN	17979	RPL12	60S ribosomal protein L12	3	5	5	6	4	5	5	6	5	NONE	0
RL13_HUMAN	24304	RPL13	60S ribosomal protein L13	4	5	5	6	6	5	6	7	5	NONE	0
RL13A_HUMAN	23619	RPL13A	60S ribosomal protein L13a	7	9	7	5	7	7	8	8	9	NONE	0
RL14_HUMAN	23531	RPL14	60S ribosomal protein L14	1	1	3	3	3	0	3	3	2	NONE	0
RL15_HUMAN	24245	RPL15	60S ribosomal protein L15	3	6	6	6	5	5	6	8	7	NONE	0
RL17_HUMAN	21611	RPL17	60S ribosomal protein L17	2	2	3	3	7	5	3	3	4	NONE	0
RL18_HUMAN	21735	RPL18	60S ribosomal protein L18	8	9	8	8	5	9	6	7	7	NONE	0
RL18A_HUMAN	21034	RPL18A	60S ribosomal protein L18a	2	2	2	2	4	2	5	4	4	NONE	0
RL19_HUMAN	23565	RPL19	60S ribosomal protein L19	3	1	2	4	4	1	5	3	3	NONE	0
RL1D1_HUMAN	55167	RSL1D1	Ribosomal L1 domain-containing protein 1	0	0	0	0	0	0	0	1	0	NONE	0
RL21_HUMAN	18610	RPL21	60S ribosomal protein L21	4	3	4	8	5	5	5	7	6	NONE	0
RL22_HUMAN	14835	RPL22	60S ribosomal protein L22	1	1	1	2	1	2	2	1	1	NONE	0
RL23_HUMAN	14970	RPL23	60S ribosomal protein L23	3	2	1	6	3	5	2	4	5	NONE	0
RL23A_HUMAN	17684	RPL23A	60S ribosomal protein L23a	3	3	3	2	3	2	4	3	3	NONE	0
RL24_HUMAN	17882	RPL24	60S ribosomal protein L24	2	1	1	3	1	2	2	2	3	NONE	0
RL26_HUMAN	17248	RPL26	60S ribosomal protein L26	5	3	8	9	9	6	7	10	8	NONE	0
RL26L_HUMAN	17246	RPL26L1	60S ribosomal protein L26-like 1	3	2	4	5	5	4	5	6	6	NONE	0
RL27_HUMAN	15788	RPL27	60S ribosomal protein L27	5	3	4	5	7	4	6	4	6	NONE	0
RL27A_HUMAN	16665	RPL27A	60S ribosomal protein L27a	2	3	3	3	3	2	1	1	1	NONE	0
RL28_HUMAN	15795	RPL28	60S ribosomal protein L28	1	2	2	6	4	4	2	1	2	NONE	0
RL29_HUMAN	17798	RPL29	60S ribosomal protein L29	2	2	2	3	4	4	3	3	4	NONE	0
RL3_HUMAN	46365	RPL3	60S ribosomal protein L3	6	5	7	9	5	7	17	12	13	NONE	0
RL30_HUMAN	12947	RPL30	60S ribosomal protein L30	2	2	2	2	4	2	2	4	3	NONE	0
RL31_HUMAN	14454	RPL31	60S ribosomal protein L31	0	0	0	2	2	0	1	1	0	NONE	0
RL32_HUMAN	15964	RPL32	60S ribosomal protein L32	2	2	1	3	3	4	1	2	1	NONE	0
RL34_HUMAN	13513	RPL34	60S ribosomal protein L34	2	1	2	2	5	4	4	2	4	NONE	0
RL35_HUMAN	14543	RPL35	60S ribosomal protein L35	3	3	2	3	5	4	2	2	4	NONE	0
RL35A_HUMAN	12587	RPL35A	60S ribosomal protein L35a	7	5	4	2	2	6	7	8	4	NONE	0
RL36_HUMAN	12303	RPL36	60S ribosomal protein L36	2	2	3	4	3	2	3	1	1	NONE	0
RL36A_HUMAN	12718	RPL36A	60S ribosomal protein L36a	0	0	0	0	0	0	0	0	1	NONE	0
RL36L_HUMAN	12746	RPL36AL	60S ribosomal protein L36a-like	0	0	0	0	0	0	0	0	1	NONE	0
RL37A_HUMAN	10497	RPL37A	60S ribosomal protein L37a	3	4	3	4	6	8	6	5	5	NONE	0
RL37L_HUMAN	10861	RPL37AP8	Putative 60S ribosomal protein L37a-like protein	0	1	0	0	1	1	0	0	0	NONE	0
RL38_HUMAN	8270	RPL38	60S ribosomal protein L38	1	2	1	2	3	2	3	2	2	NONE	0
RL3L_HUMAN	46609	RPL3L	60S ribosomal protein L3-like	1	0	1	1	1	1	5	2	2	NONE	0
RL4_HUMAN	47953	RPL4	60S ribosomal protein L4	5	4	4	8	6	5	8	7	6	NONE	0
RL40_HUMAN	15004	UBA52	Ubiquitin-60S ribosomal protein L40	11	12	13	22	22	20	15	14	15	NONE	0
RL5_HUMAN	34569	RPL5	60S ribosomal protein L5	7	7	4	10	12	9	13	11	10	NONE	0
RL6_HUMAN	32765	RPL6	60S ribosomal protein L6	14	16	14	15	11	17	16	14	14	NONE	0
RL7_HUMAN	29264	RPL7	60S ribosomal protein L7	3	3	8	6	9	9	11	6	8	NONE	0
RL7A_HUMAN	30148	RPL7A	60S ribosomal protein L7a	13	14	13	14	13	14	15	18	12	NONE	0
RL8_HUMAN	28235	RPL8	60S ribosomal protein L8	4	4	4	7	5	6	6	4	5	NONE	0
RL9_HUMAN	21964	RPL9	60S ribosomal protein L9	1	3	2	0	2	2	4	3	3	NONE	0
RLA0_HUMAN	34423	RPLP0	60S acidic ribosomal protein P0	8	6	5	6	6	7	11	9	8	NONE	0
RLA0L_HUMAN	34514	RPLP0P6	60S acidic ribosomal protein P0-like	4	3	3	2	1	3	5	4	5	NONE	0
RLA1_HUMAN	11621	RPLP1	60S acidic ribosomal protein P1	0	0	0	0	0	0	0	0	1	NONE	0
RLA2_HUMAN	11658	RPLP2	60S acidic ribosomal protein P2	3	6	6	3	4	2	2	4	3	NONE	0
RM09_HUMAN	30395	MRPL9	39S ribosomal protein L9, mitochondrial	0	0	0	0	0	0	1	0	1	NONE	0
RM11_HUMAN	20727	MRPL11	39S ribosomal protein L11, mitochondrial	0	0	0	0	0	0	0	1	1	NONE	0
RM12_HUMAN	21563	MRPL12	39S ribosomal protein L12, mitochondrial	0	0	0	3	3	3	5	5	5	NONE	0
RM16_HUMAN	28488	MRPL16	39S ribosomal protein L16, mitochondrial	0	0	0	0	0	0	1	0	0	NONE	0
RM22_HUMAN	23797	MRPL22	39S ribosomal protein L22, mitochondrial	0	0	0	0	0	0	0	1	1	NONE	0
RM28_HUMAN	30252	MRPL28	39S ribosomal protein L28, mitochondrial	0	0	0	0	0	0	0	1	0	NONE	0
RM40_HUMAN	24475	MRPL40	39S ribosomal protein L40, mitochondrial	0	0	0	0	0	0	1	0	1	NONE	0
RM44_HUMAN	37854	MRPL44	39S ribosomal protein L44, mitochondrial	0	0	0	0	0	0	1	1	0	NONE	0
RM53_HUMAN	12270	MRPL53	39S ribosomal protein L53, mitochondrial	0	0	0	1	1	2	1	1	1	NONE	0
RMND1_HUMAN	51970	RMND1	Required for meiotic nuclear division protein 1 homolog	0	0	0	0	0	0	0	0	1	1	426-448

RNAS4_HUMAN	17286	RNASE4	Ribonuclease 4	0	0	0	0	0	0	1	1	0	1	3-25
RNC_HUMAN	160811	DROSHA	Ribonuclease 3	0	0	0	0	0	1	0	0	0	NONE	0
RNF34_HUMAN	41641	RNF34	E3 ubiquitin-protein ligase RNF34	0	0	0	0	0	1	0	0	0	NONE	0
RNF8_HUMAN	55518	RNF8	E3 ubiquitin-protein ligase RNF8	0	0	0	1	1	1	0	0	0	NONE	0
ROA1_HUMAN	38837	HNRNPA1	Heterogeneous nuclear ribonucleoprotein A1	2	1	1	0	0	0	1	1	1	NONE	0
ROA2_HUMAN	37464	HNRNPA2B	Heterogeneous nuclear ribonucleoproteins A2/B1	2	2	1	0	1	0	0	0	0	NONE	0
ROA3_HUMAN	39799	HNRNPA3	Heterogeneous nuclear ribonucleoprotein A3	1	1	1	0	0	0	1	1	1	NONE	0
ROR2_HUMAN	106343	ROR2	Tyrosine-protein kinase transmembrane receptor ROR2	0	0	0	1	1	1	0	0	0	2	11-33,404-426
RP1BL_HUMAN	21140	2 SV=1	Ras-related protein Rap-1b-like protein	2	2	1	0	1	2	2	3	2	NONE	0
RPAB2_HUMAN	14526	POLR2F	DNA-directed RNA polymerases I, II, and III subunit RPABC2	0	0	1	0	0	0	0	0	0	NONE	0
RPB3_HUMAN	31441	POLR2C	DNA-directed RNA polymerase II subunit RPB3	1	1	1	0	0	0	0	0	0	1	37-58
RPN1_HUMAN	68641	RPN1	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1	5	2	5	8	8	8	34	38	32	2	4-20,438-460
RPN2_HUMAN	69355	RPN2	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 2	0	1	0	1	2	0	17	15	19	4	6-26,540-562,573-595,600-622
RRAS_HUMAN	23637	RRAS	Ras-related protein R-Ras	2	2	2	1	1	1	0	0	0	NONE	0
RRAS2_HUMAN	23613	RRAS2	Ras-related protein R-Ras2	3	3	4	3	4	4	0	0	0	NONE	0
RRBP1_HUMAN	152764	RRBP1	Ribosome-binding protein 1	1	0	1	14	1	2	82	83	59	1	9-31
RRF2M_HUMAN	87401	GFM2	Ribosome-releasing factor 2, mitochondrial	1	1	1	0	0	0	0	0	0	NONE	0
RRP12_HUMAN	145037	RRP12	RRP12-like protein	1	0	0	0	0	0	0	0	0	1	905-927
RS10_HUMAN	18886	RPS10	40S ribosomal protein S10	0	0	1	1	0	1	1	0	0	NONE	0
RS10L_HUMAN	20279	RPS10P5	Putative 40S ribosomal protein S10-like	0	0	0	1	0	1	0	0	0	NONE	0
RS11_HUMAN	18590	RPS11	40S ribosomal protein S11	1	2	0	5	5	4	4	2	2	NONE	0
RS12_HUMAN	14905	RPS12	40S ribosomal protein S12	0	2	1	2	2	2	1	0	1	NONE	0
RS13_HUMAN	17212	RPS13	40S ribosomal protein S13	3	3	2	5	3	6	1	2	1	NONE	0
RS14_HUMAN	16434	RPS14	40S ribosomal protein S14	1	0	0	2	1	0	0	0	0	NONE	0
RS15_HUMAN	17029	RPS15	40S ribosomal protein S15	4	1	3	2	2	2	2	2	4	NONE	0
RS15A_HUMAN	14944	RPS15A	40S ribosomal protein S15a	2	1	1	3	2	3	0	1	1	NONE	0
RS16_HUMAN	16549	RPS16	40S ribosomal protein S16	2	2	2	3	2	2	0	0	0	NONE	0
RS17_HUMAN	15597	RPS17	40S ribosomal protein S17	2	2	2	2	2	4	0	0	1	NONE	0
RS18_HUMAN	17708	RPS18	40S ribosomal protein S18	0	1	0	1	2	2	2	2	1	NONE	0
RS19_HUMAN	16051	RPS19	40S ribosomal protein S19	6	3	5	6	6	5	3	4	3	NONE	0
RS2_HUMAN	31590	RPS2	40S ribosomal protein S2	2	3	2	3	2	4	1	1	1	NONE	0
RS20_HUMAN	13478	RPS20	40S ribosomal protein S20	1	2	2	3	2	2	1	1	1	NONE	0
RS21_HUMAN	9220	RPS21	40S ribosomal protein S21	0	0	0	1	0	0	0	0	0	NONE	0
RS23_HUMAN	15969	RPS23	40S ribosomal protein S23	5	3	3	6	3	4	5	6	4	NONE	0
RS24_HUMAN	15413	RPS24	40S ribosomal protein S24	0	1	1	0	1	1	0	0	0	NONE	0
RS25_HUMAN	13791	RPS25	40S ribosomal protein S25	3	4	3	5	5	5	2	1	2	NONE	0
RS26_HUMAN	13292	RPS26	40S ribosomal protein S26	1	1	0	1	1	1	0	0	0	NONE	0
RS26L_HUMAN	13336	RPS26P11	Putative 40S ribosomal protein S26-like 1	1	1	0	1	1	1	0	0	0	NONE	0
RS27_HUMAN	9797	RPS27	40S ribosomal protein S27	0	0	1	3	2	2	2	2	2	NONE	0
RS27A_HUMAN	18296	RPS27A	Ubiquitin-40S ribosomal protein S27a	11	12	13	22	22	20	15	14	15	NONE	0
RS27L_HUMAN	9813	RPS27L	40S ribosomal protein S27-like	0	0	1	3	2	2	2	3	3	NONE	0
RS29_HUMAN	6900	RPS29	40S ribosomal protein S29	0	1	0	0	0	1	0	0	0	NONE	0
RS3_HUMAN	26842	RPS3	40S ribosomal protein S3	9	7	6	9	10	9	0	1	0	NONE	0
RS30_HUMAN	6644	FAU	40S ribosomal protein S30	0	0	0	0	0	0	0	1	0	NONE	0
RS3A_HUMAN	30154	RPS3A	40S ribosomal protein S3a	12	10	9	12	9	8	5	4	3	NONE	0
RS4X_HUMAN	29807	RPS4X	40S ribosomal protein S4, X isoform	2	3	4	3	6	4	1	1	2	NONE	0
RS4Y1_HUMAN	29665	RPS4Y1	40S ribosomal protein S4, Y isoform 1	2	2	2	1	4	1	1	1	2	NONE	0
RS4Y2_HUMAN	29619	RPS4Y2	40S ribosomal protein S4, Y isoform 2	1	2	2	1	4	2	0	0	1	NONE	0
RS5_HUMAN	23033	RPS5	40S ribosomal protein S5	3	4	2	1	4	5	1	1	1	NONE	0
RS6_HUMAN	28834	RPS6	40S ribosomal protein S6	4	4	2	4	5	6	4	3	5	NONE	0
RS7_HUMAN	22113	RPS7	40S ribosomal protein S7	4	3	4	5	2	3	4	3	4	NONE	0
RS8_HUMAN	24475	RPS8	40S ribosomal protein S8	2	1	2	4	5	4	1	2	1	NONE	0
RS9_HUMAN	22635	RPS9	40S ribosomal protein S9	2	2	2	9	5	2	4	3	2	NONE	0
RSBNL_HUMAN	95381	RSBNL1	Round spermatid basic protein 1-like protein	0	0	0	0	0	0	0	0	1	NONE	0
RSRP1_HUMAN	33650	RSRP1	Arginine/serine-rich protein 1	0	0	0	0	0	0	0	1	1	NONE	0
RSSA_HUMAN	32947	RPSA	40S ribosomal protein SA	1	1	1	1	2	1	1	1	0	NONE	0
RSU1_HUMAN	31521	RSU1	Ras suppressor protein 1	0	0	0	2	2	1	0	0	0	NONE	0
RT18B_HUMAN	29719	MRPS18B	28S ribosomal protein S18b, mitochondrial	1	0	0	0	0	0	0	0	0	NONE	0

RT28_HUMAN	21001	MRPS28	28S ribosomal protein S28, mitochondrial	0	0	0	0	0	0	1	0	1	NONE	0
RT31_HUMAN	45405	MRPS31	28S ribosomal protein S31, mitochondrial	0	0	0	0	0	0	0	1	1	NONE	0
RTCB_HUMAN	55688	RTCB	tRNA-splicing ligase RtcB homolog	2	0	1	0	0	1	0	1	0	NONE	0
RTL1_HUMAN	155919	RTL1	Retrotransposon-like protein 1	1	0	0	1	1	1	1	1	1	1	1078-1100
RTN3_HUMAN	113169	RTN3	Reticulon-3	0	0	0	0	1	0	0	1	0	3	863-885,942-964,972-994
RTN4_HUMAN	130250	RTN4	Reticulon-4	3	4	5	2	4	2	7	5	5	4	1006-1028,1034-1056,1109-1131,1135-1157
RTN4R_HUMAN	51588	RTN4R	Reticulon-4 receptor	0	1	0	0	0	0	0	0	0	NONE	0
RUFY4_HUMAN	65393	RUFY4	RUN and FYVE domain-containing protein 4	1	0	0	0	0	0	0	0	0	NONE	0
RUVB1_HUMAN	50538	RUVBL1	RuvB-like 1	0	0	0	1	1	1	0	0	0	NONE	0
RUVB2_HUMAN	51296	RUVBL2	RuvB-like 2	0	0	0	2	2	1	0	0	0	NONE	0
RWD2B_HUMAN	36822	RWDD2B	RWD domain-containing protein 2B	1	1	1	0	0	0	0	0	0	NONE	0
S10A4_HUMAN	11949	S100A4	Protein S100-A4	0	0	0	4	6	6	0	0	0	NONE	0
S10A6_HUMAN	10230	S100A6	Protein S100-A6	0	1	1	2	2	1	0	0	0	1	1-23
S10AA_HUMAN	11310	S100A10	Protein S100-A10	13	13	11	10	8	12	0	0	0	NONE	0
S10AB_HUMAN	11847	S100A11	Protein S100-A11	4	3	5	8	11	10	0	0	0	NONE	0
S11IP_HUMAN	121609	STK11IP	Serine/threonine-protein kinase 11-interacting protein	0	0	0	0	0	0	1	1	0	NONE	0
S12A2_HUMAN	132048	SLC12A2	Solute carrier family 12 member 2	0	0	0	1	0	1	0	0	0	11	287-309,320-342,367-389,406-427,436-458,487-509,524-546,599-621,652-674,679-701,719-741
S14L4_HUMAN	47070	SEC14L4	SEC14-like protein 4	0	0	0	1	0	0	0	0	0	NONE	0
S14L6_HUMAN	45734	SEC14L6	Putative SEC14-like protein 6	0	0	0	0	2	1	0	0	0	NONE	0
S17A5_HUMAN	55060	SLC17A5	Sialin	0	0	0	0	0	0	2	2	1	10	45-67,108-130,143-165,198-220,230-252,279-301,327-349,373-395,420-442,457-479
S29A1_HUMAN	50757	SLC29A1	Equilibrative nucleoside transporter 1	1	1	0	0	0	0	0	0	0	11	13-35,78-100,108-130,143-165,181-203,207-229,285-307,317-339,361-381,396-418,430-452
S31C1_HUMAN	131809	SPATA31C	Putative spermatogenesis-associated protein 31C1	0	0	0	1	1	0	0	0	0	1	25-47
S31C2_HUMAN	125606	SPATA31C	Putative spermatogenesis-associated protein 31C2	0	0	0	1	1	0	0	0	0	1	25-47
S35B2_HUMAN	48054	SLC35B2	Adenosine 3'-phospho 5'-phosphosulfate transporter 1	0	0	0	0	0	0	0	1	1	9	5-23,35-57,106-128,152-174,240-257,267-288,336-358,363-385,390-412
S35E1_HUMAN	45086	SLC35E1	Solute carrier family 35 member E1	0	0	0	0	0	0	1	0	0	7	27-49,54-76,137-158,174-196,226-248,259-281,305-327
S35F6_HUMAN	40473	SLC35F6	Solute carrier family 35 member F6	0	1	1	0	1	0	1	2	1	8	5-27,116-137,144-166,177-199,215-236,254-276,291-313,316-338
S38A1_HUMAN	54639	SLC38A1	Sodium-coupled neutral amino acid transporter 1	2	0	1	1	2	2	0	0	0	11	70-92,103-125,148-170,193-215,217-238,277-299,310-332,354-376,389-411,418-440,455-477
S38A2_HUMAN	56332	SLC38A2	Sodium-coupled neutral amino acid transporter 2	0	0	0	1	0	0	4	3	4	12	72-94,101-123,161-183,192-214,217-238,293-315,327-349,360-382,386-407,411-433,439-461,474-496
S39A4_HUMAN	69219	SLC39A4	Zinc transporter ZIP4	0	0	0	0	0	0	1	0	1	8	1-23,330-352,361-383,402-424,513-535,551-573,589-611,618-640
S39A7_HUMAN	50201	SLC39A7	Zinc transporter SLC39A7	0	0	0	0	1	0	4	3	3	6	8-30,135-157,215-237,383-405,418-440,446-468
S39A9_HUMAN	32402	SLC39A9	Zinc transporter ZIP9	0	0	0	0	0	0	0	1	1	8	6-28,40-62,107-129,146-168,176-198,210-232,243-265,284-305
S39AE_HUMAN	54918	SLC39A14	Zinc transporter ZIP14	0	0	0	0	0	0	4	7	5	4	2-24,151-173,186-208,223-245
S43A3_HUMAN	55063	SLC43A3	Solute carrier family 43 member 3	0	0	0	5	7	5	0	0	0	11	12-34,71-93,96-118,124-146,158-180,281-303,316-338,361-383,396-418,426-448,455-477
S4A7_HUMAN	137098	SLC4A7	Sodium bicarbonate cotransporter 3	1	1	1	1	0	1	0	0	0	10	607-629,648-670,707-729,821-843,858-880,908-930,957-979,1018-1040,1073-1095,1103-1125
S61A1_HUMAN	52687	SEC61A1	Protein transport protein Sec61 subunit alpha isoform 1	0	1	1	2	4	2	9	10	8	10	1-23,33-55,72-94,117-138,145-167,171-193,239-261,286-308,363-385,428-450
S61A2_HUMAN	52670	SEC61A2	Protein transport protein Sec61 subunit alpha isoform 2	0	0	0	0	1	0	3	4	3	10	1-23,33-55,72-94,115-137,144-166,171-193,239-261,294-316,356-377,428-450
SAC1_HUMAN	67437	SACM1L	Phosphatidylinositol phosphatase SAC1	0	0	0	0	0	0	3	3	2	2	521-543,554-576
SAHH_HUMAN	48255	AHCY	Adenosylhomocysteinase	0	0	0	0	0	3	0	0	0	NONE	0
SAHH2_HUMAN	59997	AHCYL1	S-adenosylhomocysteine hydrolase-like protein 1	0	0	0	0	0	1	0	0	0	NONE	0
SAHH3_HUMAN	67705	AHCYL2	Adenosylhomocysteinase 3	0	0	0	0	0	1	0	0	0	NONE	0
SAP_HUMAN	59899	PSAP	Prosaposin	1	1	1	3	2	4	7	7	5	1	4-26
SART3_HUMAN	110721	SART3	Squamous cell carcinoma antigen recognized by T-cells 3	1	0	0	0	0	0	0	0	0	NONE	0
SATT_HUMAN	56087	SLC1A4	Neutral amino acid transporter A	0	0	0	0	0	0	1	1	1	9	42-64,81-103,117-139,216-237,257-279,293-315,325-347,369-391,409-431
SC11A_HUMAN	20612	SEC11A	Signal peptidase complex catalytic subunit SEC11A	0	0	0	0	0	0	1	1	1	1	18-40
SC11C_HUMAN	21528	SEC11C	Signal peptidase complex catalytic subunit SEC11C	0	0	0	0	0	0	0	1	0	1	30-52
SC22B_HUMAN	24806	SEC22B	Vesicle-trafficking protein SEC22b	1	1	2	8	4	4	6	6	4	2	1-18,195-215
SC23A_HUMAN	87018	SEC23A	Protein transport protein Sec23A	0	0	0	0	0	0	0	2	1	NONE	0

SC23B_HUMAN	87393	SEC23B	Protein transport protein Sec23B	0	0	0	0	0	1	0	0	0	NONE	0
SC31A_HUMAN	133900	SEC31A	Protein transport protein Sec31A	2	2	2	4	2	1	2	1	2	NONE	0
SC61B_HUMAN	10025	SEC61B	Protein transport protein Sec61 subunit beta	1	1	2	3	2	2	7	7	6	1	67-89
SC61G_HUMAN	7793	SEC61G	Protein transport protein Sec61 subunit gamma	0	0	0	0	0	0	1	1	1	1	40-62
SC6A6_HUMAN	70867	SLC6A6	Sodium- and chloride-dependent taurine transporter	1	1	1	1	1	0	0	0	0	12	47-69,78-100,123-145,219-241,246-268,292-313,334-356,381-403,429-451,463-485,507-529,541-563
SCAM2_HUMAN	37082	SCAMP2	Secretory carrier-associated membrane protein 2	0	0	0	0	1	0	2	2	2	4	151-173,182-204,216-238,262-284
SCAM3_HUMAN	38661	SCAMP3	Secretory carrier-associated membrane protein 3	0	0	0	2	1	2	1	0	1	4	171-192,197-219,238-260,276-297
SCFD1_HUMAN	72676	SCFD1	Sec1 family domain-containing protein 1	0	0	0	0	0	0	3	3	3	NONE	0
SCO1_HUMAN	34021	SCO1	Protein SCO1 homolog, mitochondrial	0	0	0	0	0	0	1	1	1	NONE	0
SCO2_HUMAN	29962	SCO2	Protein SCO2 homolog, mitochondrial	0	0	0	0	0	0	2	1	1	NONE	0
SCOT1_HUMAN	56578	OXCT1	Succinyl-CoA:3-ketoacid coenzyme A transferase 1, mitochondrial	0	0	0	4	3	1	0	0	0	NONE	0
SCPDL_HUMAN	47464	SCCPDH	Saccharopine dehydrogenase-like oxidoreductase	0	0	0	0	0	0	0	1	0	2	273-295,366-388
SCRB1_HUMAN	61636	SCARB1	Scavenger receptor class B member 1	0	0	0	2	1	1	2	2	1	3	14-36,48-70,438-460
SCRB2_HUMAN	54712	SCARB2	Lysosome membrane protein 2	1	1	2	2	3	3	3	3	2	1	8-30
SCRIB_HUMAN	175748	SCRIB	Protein scribble homolog	0	1	0	0	0	1	0	0	1	NONE	0
SDCB1_HUMAN	32595	SDCBP	Syntenin-1	0	0	0	1	1	1	0	0	0	NONE	0
SDF2_HUMAN	23240	SDF2	Stromal cell-derived factor 2	0	0	0	0	0	0	1	1	1	1	8-30
SDF2L_HUMAN	23812	SDF2L1	Stromal cell-derived factor 2-like protein 1	0	0	0	0	1	0	0	0	0	1	7-29
SDHA_HUMAN	73672	SDHA	Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial	0	0	0	4	3	3	1	0	1	NONE	0
SDK1_HUMAN	242988	SDK1	Protein sidekick-1	1	1	0	0	0	0	0	0	0	1	2009-2031
SEL1L_HUMAN	89212	SEL1L	Protein sel-1 homolog 1	0	0	0	0	0	0	1	1	1	3	4-21,701-723,741-762
SEC62_HUMAN	46175	SEC62	Translocation protein SEC62	3	2	2	1	2	1	3	3	4	2	192-214,230-252
SEC63_HUMAN	88341	SEC63	Translocation protein SEC63 homolog	0	0	0	1	2	1	2	3	3	3	13-32,77-99,189-211
SEPT7_HUMAN	50933	44811	Septin-7	0	0	0	0	1	0	0	0	0	NONE	0
SERA_HUMAN	57356	PHGDH	D-3-phosphoglycerate dehydrogenase	0	0	0	22	20	16	5	4	6	NONE	0
SERB_HUMAN	25163	PSPH	Phosphoserine phosphatase	1	0	0	0	0	0	0	0	0	NONE	0
SERP1_HUMAN	7426	SERP1	Stress-associated endoplasmic reticulum protein 1	0	0	0	0	0	0	3	1	2	1	40-62
SERP2_HUMAN	7483	SERP2	Stress-associated endoplasmic reticulum protein 2	0	0	0	0	0	0	3	1	2	1	39-61
SERPH_HUMAN	46525	SERPINH1	Serpin H1	3	3	3	10	9	11	15	16	12	2	1-21,64-86
SET_HUMAN	33469	SET	Protein SET	0	0	0	1	0	1	0	0	0	NONE	0
SETB1_HUMAN	145119	SETDB1	Histone-lysine N-methyltransferase SETDB1	0	0	0	0	0	0	0	1	0	NONE	0
SETLP_HUMAN	34861	SETSIP	Protein SETSIP	0	0	0	1	0	1	0	0	0	NONE	0
SF3A1_HUMAN	88888	SF3A1	Splicing factor 3A subunit 1	1	1	1	0	0	0	0	0	0	NONE	0
SF3B1_HUMAN	146479	SF3B1	Splicing factor 3B subunit 1	0	0	0	0	0	0	1	0	1	NONE	0
SFPQ_HUMAN	76216	SFPQ	Splicing factor, proline- and glutamine-rich	1	0	0	0	0	0	2	2	3	NONE	0
SFRP2_HUMAN	34494	SFRP2	Secreted frizzled-related protein 2	1	1	1	0	0	0	0	0	0	NONE	0
SFT2B_HUMAN	18167	SFT2D2	Vesicle transport protein SFT2B	1	0	1	0	1	0	1	0	0	4	35-57,65-87,95-116,130-151
SFXN1_HUMAN	35881	SFXN1	Sideroflexin-1	0	0	0	3	2	0	2	3	2	2	231-252,265-287
SFXN3_HUMAN	35823	SFXN3	Sideroflexin-3	0	0	0	0	1	0	0	1	1	4	144-166,174-196,224-246,264-286
SGMR1_HUMAN	25169	SIGMAR1	Sigma non-opioid intracellular receptor 1	0	0	0	0	0	0	0	0	0	2	13-34,86-108
SGMR2_HUMAN	21005	TMEM97	Sigma intracellular receptor 2	0	0	0	0	1	1	2	1	2	3	11-33,100-122,141-162
SGPL1_HUMAN	64053	SGPL1	Sphingosine-1-phosphate lyase 1	0	0	0	0	0	0	3	2	3	1	39-61
SGT1_HUMAN	41284	SUGT1	Protein SGT1 homolog	0	0	0	0	1	1	0	1	0	NONE	0
SH24B_HUMAN	51314	SH2D4B	SH2 domain-containing protein 4B	0	0	0	1	0	0	0	0	0	NONE	0
SHAN2_HUMAN	159237	SHANK2	SH3 and multiple ankyrin repeat domains protein 2	1	0	1	0	0	0	0	0	0	NONE	0
SHF_HUMAN	46768	SHF	SH2 domain-containing adapter protein F	2	2	2	0	0	0	0	0	0	NONE	0
SIKE1_HUMAN	23877	SIKE1	Suppressor of IKBKE 1	0	0	1	0	0	0	0	0	0	NONE	0
SIX5_HUMAN	74858	SIX5	Homeobox protein SIX5	0	0	0	0	0	1	0	0	0	NONE	0
SKP1_HUMAN	18817	SKP1	S-phase kinase-associated protein 1	0	0	0	2	1	0	0	0	0	NONE	0
SL9A8_HUMAN	65422	SLC9A8	Sodium/hydrogen exchanger 8	0	0	0	0	0	0	0	1	0	10	16-38,61-81,88-109,152-174,187-209,264-286,314-336,352-374,381-403,451-473
SLIRP_HUMAN	12398	SLIRP	SRA stem-loop-interacting RNA-binding protein, mitochondrial	0	0	0	1	3	1	3	4	4	NONE	0
SMC1B_HUMAN	145073	SMC1B	Structural maintenance of chromosomes protein 1B	0	0	0	2	1	1	0	0	0	NONE	0
SMD3_HUMAN	14021	SNRPD3	Small nuclear ribonucleoprotein Sm D3	0	0	0	0	0	0	1	0	0	NONE	0
SMRCC1_HUMAN	123303	SMARCC1	SWI/SNF complex subunit SMARCC1	1	0	0	0	0	0	0	0	0	NONE	0
SMRD1_HUMAN	58481	SMARCD1	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin :	1	2	2	2	1	1	0	0	0	NONE	0
SMRD3_HUMAN	55016	SMARCD3	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin :	1	2	2	2	1	1	0	0	0	NONE	0

SNAH_HUMAN	33667	NAPA	Alpha-soluble NSF attachment protein	0	0	0	1	0	1	2	3	2	NONE	0
SNAB_HUMAN	33878	NAPB	Beta-soluble NSF attachment protein	0	0	0	0	0	0	0	1	0	NONE	0
SND1_HUMAN	102618	SND1	Staphylococcal nuclease domain-containing protein 1	0	0	0	4	5	4	2	3	3	NONE	0
SNG2_HUMAN	25079	SYNGR2	Synaptogyrin-2	0	0	0	0	0	1	1	0	0	4	23-45,71-93,107-129,142-164
SNP23_HUMAN	23682	SNAP23	Synaptosomal-associated protein 23	0	0	0	0	0	0	0	1	0	NONE	0
SNTB1_HUMAN	58367	SNTB1	Beta-1-syntrophin	0	0	0	0	0	0	2	1	1	NONE	0
SNX3_HUMAN	18808	SNX3	Sorting nexin-3	0	0	0	1	0	0	0	0	0	NONE	0
SO5A1_HUMAN	93629	SLCO5A1	Solute carrier organic anion transporter family member 5A1	0	0	0	0	0	0	1	0	0	13	103-125,127-149,166-188,196-218,262-284,303-325,346-368,428-450,471-493,505-527,650-672,688-710,735-757
SOAT1_HUMAN	65205	SOAT1	Sterol O-acyltransferase 1	0	0	0	0	0	0	1	1	1	8	140-162,176-198,231-253,322-344,363-385,445-467,471-493,497-518
SODC_HUMAN	16154	SOD1	Superoxide dismutase [Cu-Zn]	0	0	0	1	1	1	0	0	0	NONE	0
SODM_HUMAN	24906	SOD2	Superoxide dismutase [Mn], mitochondrial	0	0	0	0	0	0	1	0	0	NONE	0
SORT_HUMAN	92979	SORT1	Sortilin	0	0	0	0	0	0	0	1	0	2	13-34,763-785
SOX_HUMAN	44494	PIPOX	Peroxisomal sarcosine oxidase	0	0	0	0	0	0	4	3	3	NONE	0
SP100_HUMAN	101495	SP100	Nuclear autoantigen Sp-100	0	1	1	0	0	0	0	0	0	NONE	0
SP140_HUMAN	100270	SP140	Nuclear body protein SP140	0	0	0	0	1	0	0	0	0	NONE	0
SP16H_HUMAN	120409	SUPT16H	FACT complex subunit SPT16	0	0	0	1	1	0	0	0	0	NONE	0
SPCS2_HUMAN	25272	SPCS2	Signal peptidase complex subunit 2	0	0	1	0	0	0	2	2	4	2	83-105,113-134
SPS2L_HUMAN	62204	SPATS2L	SPATS2-like protein	0	0	0	0	0	0	0	1	1	NONE	0
SPT5H_HUMAN	121324	SUPT5H	Transcription elongation factor SPT5	0	1	0	0	0	0	0	0	0	NONE	0
SPTB2_HUMAN	275237	SPTBN1	Spectrin beta chain, non-erythrocytic 1	0	1	1	5	2	5	8	3	7	NONE	0
SPTC1_HUMAN	53281	SPTLC1	Serine palmitoyltransferase 1	0	0	0	0	0	0	2	2	1	1	23-44
SPTN1_HUMAN	285163	SPTAN1	Spectrin alpha chain, non-erythrocytic 1	0	0	0	4	6	8	1	2	0	NONE	0
SPTN2_HUMAN	272526	SPTBN2	Spectrin beta chain, non-erythrocytic 2	0	0	0	0	1	1	0	0	0	NONE	0
SPTN4_HUMAN	290005	SPTBN4	Spectrin beta chain, non-erythrocytic 4	0	1	1	0	0	0	0	0	0	NONE	0
SPTN5_HUMAN	419230	SPTBN5	Spectrin beta chain, non-erythrocytic 5	0	0	0	0	0	0	0	0	1	NONE	0
SPYA_HUMAN	43325	AGXT	Serine-pyruvate aminotransferase	0	0	0	0	0	0	0	1	0	NONE	0
SQSTM_HUMAN	48455	SQSTM1	Sequestosome-1	3	4	3	0	0	0	0	0	0	NONE	0
SRC_HUMAN	60310	SRC	Proto-oncogene tyrosine-protein kinase Src	0	0	0	0	0	0	0	1	1	NONE	0
SRP14_HUMAN	14675	SRP14	Signal recognition particle 14 kDa protein	0	0	0	0	0	0	1	0	0	NONE	0
SRP68_HUMAN	71199	SRP68	Signal recognition particle subunit SRP68	0	0	0	1	0	0	2	1	0	NONE	0
SRPRA_HUMAN	70223	SRPRA	Signal recognition particle receptor subunit alpha	0	0	0	0	1	2	1	0	0	NONE	0
SRPRB_HUMAN	29912	SRPRB	Signal recognition particle receptor subunit beta	0	0	1	0	0	0	3	4	4	1	35-57
SRSF2_HUMAN	25461	SRSF2	Serine/arginine-rich splicing factor 2	2	0	1	0	0	2	1	1	2	NONE	0
SSBP_HUMAN	17249	SSBP1	Single-stranded DNA-binding protein, mitochondrial	0	0	0	2	2	2	0	0	0	NONE	0
SSRA_HUMAN	32215	SSR1	Translocon-associated protein subunit alpha	0	0	0	1	1	1	3	2	1	2	1-23,206-228
SSRB_HUMAN	20122	SSR2	Translocon-associated protein subunit beta	0	1	0	2	1	1	5	4	3	NONE	0
SSRD_HUMAN	19158	SSR4	Translocon-associated protein subunit delta	2	2	2	4	2	2	9	7	9	2	1-23,145-167
SSRG_HUMAN	21067	SSR3	Translocon-associated protein subunit gamma	0	0	0	1	1	0	1	1	1	2	26-48,56-78
ST13A_HUMAN	27561	ST13P4	Putative protein FAM10A4	0	0	0	1	2	2	0	0	0	NONE	0
ST1A1_HUMAN	34257	SULT1A1	Sulfotransferase 1A1	0	0	0	0	0	0	2	0	1	NONE	0
ST1A2_HUMAN	34401	SULT1A2	Sulfotransferase 1A2	0	0	0	0	0	0	2	0	0	NONE	0
ST1A3_HUMAN	34288	SULT1A3	Sulfotransferase 1A3	0	0	0	0	0	0	1	0	1	NONE	0
ST1A4_HUMAN	34288	SULT1A4	Sulfotransferase 1A4	0	0	0	0	0	0	1	0	1	NONE	0
STA5A_HUMAN	91161	STAT5A	Signal transducer and activator of transcription 5A	0	0	0	0	0	1	0	0	0	NONE	0
STA5B_HUMAN	90323	STAT5B	Signal transducer and activator of transcription 5B	0	0	0	0	0	1	0	0	0	NONE	0
STAB2_HUMAN	288323	STAB2	Stabilin-2	1	0	0	0	0	0	0	0	0	2	1-23,2461-2482
STAG1_HUMAN	145305	STAG1	Cohesin subunit SA-1	0	0	1	1	1	1	1	1	1	NONE	0
STAR9_HUMAN	521840	STARD9	StAR-related lipid transfer protein 9	0	0	0	1	0	0	0	0	0	NONE	0
STEAP2_HUMAN	56305	STEAP2	Metalloreductase STEAP2	0	0	1	0	0	0	0	0	0	6	206-228,255-277,304-325,359-381,393-415,431-453
STEAP4_HUMAN	52518	STEAP4	Metalloreductase STEAP4	0	0	0	1	2	2	0	0	0	5	202-224,249-271,292-314,349-371,421-443
STIM1_HUMAN	77660	STIM1	Stromal interaction molecule 1	0	0	0	0	0	0	0	1	0	2	1-23,210-231
STIP1_HUMAN	63227	STIP1	Stress-induced-phosphoprotein 1	0	0	0	1	2	2	0	0	1	NONE	0
STK26_HUMAN	46785	STK26	Serine/threonine-protein kinase 26	0	0	0	0	0	1	0	0	0	NONE	0
STML2_HUMAN	38624	STOML2	Stomatin-like protein 2, mitochondrial	0	0	0	1	0	1	6	7	8	NONE	0
STMN1_HUMAN	17292	STMN1	Stathmin	0	0	0	3	2	1	1	1	1	NONE	0
STOM_HUMAN	31882	STOM	Erythrocyte band 7 integral membrane protein	2	2	2	4	5	6	8	8	9	1	32-54

STON2_HUMAN	101843	STON2	Stonin-2	2	1	1	0	0	0	0	0	1	875-897	
STT3A_HUMAN	81104	STT3A	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit STT	1	2	2	2	1	1	10	10	12	19-41,83-105,114-136,138-160,171-185,191-211,215-237,239-261,299-321,363-383,386-408,411-433,453-475	
STT3B_HUMAN	94241	STT3B	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit STT	0	0	0	0	0	0	2	3	4	72-94,133-155,162-184,190-212,254-276,293-315,319-341,350-372,411-433,450-472,533-555	
STX4_HUMAN	34273	STX4	Syntaxin-4	2	3	2	0	0	0	0	0	0	274-296	
STXB1_HUMAN	67925	STXBP1	Syntaxin-binding protein 1	0	0	0	0	1	0	0	0	0	NONE	0
SUCA_HUMAN	36626	SUCLG1	Succinate--CoA ligase [ADP/GDP-forming] subunit alpha, mitochondrial	0	0	0	0	0	0	0	1	1	NONE	0
SURF4_HUMAN	30602	SURF4	Surfeit locus protein 4	0	1	0	1	2	0	6	4	8	5	64-86,94-116,166-188,202-224,239-260
SURF6_HUMAN	41540	SURF6	Surfeit locus protein 6	1	0	0	0	0	0	0	0	0	NONE	0
SWP70_HUMAN	69354	SWAP70	Switch-associated protein 70	0	0	0	0	1	0	0	0	0	NONE	0
SYAC_HUMAN	107485	AARS	Alanine--tRNA ligase, cytoplasmic	0	0	0	0	1	2	0	0	0	NONE	0
SYDC_HUMAN	57499	DARS	Aspartate--tRNA ligase, cytoplasmic	0	0	0	1	0	0	0	0	0	NONE	0
SYEP_HUMAN	172080	EPRS	Bifunctional glutamate/proline--tRNA ligase	0	0	0	5	4	3	2	1	1	NONE	0
SYIC_HUMAN	145718	IARS	Isoleucine--tRNA ligase, cytoplasmic	0	0	0	0	1	0	0	0	0	NONE	0
SYMC_HUMAN	102249	MARS	Methionine--tRNA ligase, cytoplasmic	1	1	1	0	0	1	0	0	0	NONE	0
SYNE1_HUMAN	1017127	SYNE1	Nesprin-1	0	0	1	0	0	0	0	0	0	NONE	0
SYNE2_HUMAN	801817	SYNE2	Nesprin-2	0	0	0	0	0	0	1	1	1	NONE	0
SYQ_HUMAN	88655	QARS	Glutamine--tRNA ligase	0	0	0	0	0	1	0	0	0	NONE	0
SYRC_HUMAN	76129	RARS	Arginine--tRNA ligase, cytoplasmic	0	0	0	0	1	0	0	0	0	NONE	0
SYTC_HUMAN	84294	TARS	Threonine--tRNA ligase, cytoplasmic	1	0	0	3	2	2	0	0	0	NONE	0
SYTC2_HUMAN	93613	TARSL2	Threonine--tRNA ligase 2, cytoplasmic	0	1	0	0	0	0	0	0	0	NONE	0
SYUG_HUMAN	13323	SNCG	Gamma-synuclein	0	0	0	0	1	0	0	0	0	NONE	0
SYVC_HUMAN	141642	VARS	Valine--tRNA ligase	0	0	0	2	1	2	0	0	0	NONE	0
SYYC_HUMAN	59448	YARS	Tyrosine--tRNA ligase, cytoplasmic	1	1	1	0	0	0	0	0	0	NONE	0
T126A_HUMAN	21742	TMEM126A	Transmembrane protein 126A	0	0	0	0	0	0	1	0	0	2	32-54,107-128
T4S1_HUMAN	22644	TM4SF1	Transmembrane 4 L6 family member 1	2	2	3	8	6	7	3	3	4	4	11-32,46-68,92-114,165-187
T4S5_HUMAN	21835	TM4SF5	Transmembrane 4 L6 family member 5	0	0	0	1	0	0	0	0	0	4	10-32,45-67,90-112,160-182
TAGL2_HUMAN	22548	TAGLN2	Transgelin-2	0	2	3	9	8	7	0	0	0	NONE	0
TAGL3_HUMAN	22629	TAGLN3	Transgelin-3	0	0	0	2	2	2	0	0	0	NONE	0
TAP2_HUMAN	76186	TAP2	Antigen peptide transporter 2	0	0	0	0	0	0	0	0	1	5	11-33,59-81,100-122,142-164,184-205
TBA1A_HUMAN	50788	TUBA1A	Tubulin alpha-1A chain	12	10	13	25	25	20	21	15	15	NONE	0
TBA1B_HUMAN	50804	TUBA1B	Tubulin alpha-1B chain	12	11	14	27	26	24	21	16	16	NONE	0
TBA1C_HUMAN	50548	TUBA1C	Tubulin alpha-1C chain	12	10	13	25	26	23	21	15	15	NONE	0
TBA3C_HUMAN	50612	TUBA3C	Tubulin alpha-3C chain	8	9	10	21	21	15	16	11	11	NONE	0
TBA3D_HUMAN	50612	TUBA3D	Tubulin alpha-3D chain	8	9	10	21	21	15	16	11	11	NONE	0
TBA3E_HUMAN	50568	TUBA3E	Tubulin alpha-3E chain	3	4	5	12	11	8	9	5	4	NONE	0
TBA4A_HUMAN	50634	TUBA4A	Tubulin alpha-4A chain	8	9	11	21	21	19	16	12	14	NONE	0
TBA4B_HUMAN	27819	TUBA4B	Putative tubulin-like protein alpha-4B	1	1	1	2	2	3	2	1	1	NONE	0
TBA8_HUMAN	50746	TUBA8	Tubulin alpha-8 chain	5	6	7	12	12	10	9	6	8	NONE	0
TBAL3_HUMAN	50675	TUBAL3	Tubulin alpha chain-like 3	3	2	3	6	6	5	5	5	5	NONE	0
TBB1_HUMAN	50865	TUBB1	Tubulin beta-1 chain	3	3	2	6	6	7	6	5	5	NONE	0
TBB2A_HUMAN	50274	TUBB2A	Tubulin beta-2A chain	7	9	7	21	23	20	15	16	16	NONE	0
TBB2B_HUMAN	50377	TUBB2B	Tubulin beta-2B chain	7	9	7	21	23	20	15	16	16	NONE	0
TBB3_HUMAN	50856	TUBB3	Tubulin beta-3 chain	9	10	9	24	24	21	15	16	15	NONE	0
TBB4A_HUMAN	50010	TUBB4A	Tubulin beta-4A chain	8	8	6	17	18	16	13	13	13	NONE	0
TBB4B_HUMAN	50255	TUBB4B	Tubulin beta-4B chain	9	9	6	20	22	21	17	17	17	NONE	0
TBB5_HUMAN	50095	TUBB	Tubulin beta chain	10	12	10	32	33	28	23	26	23	NONE	0
TBB6_HUMAN	50281	TUBB6	Tubulin beta-6 chain	4	5	3	9	9	9	8	8	8	NONE	0
TBB8_HUMAN	50257	TUBB8	Tubulin beta-8 chain	5	6	3	11	13	13	10	10	10	NONE	0
TBB8L_HUMAN	50168		Tubulin beta-8 chain-like protein LOC260334	5	6	3	8	11	11	10	9	10	N/A	N/A
TBC31_HUMAN	125137	TBC1D31	TBC1 domain family member 31	0	1	0	0	0	0	0	0	0	NONE	0
TBCD4_HUMAN	148068	TBC1D4	TBC1 domain family member 4	0	0	0	0	0	0	0	0	1	1	1095-1117
TBL2_HUMAN	50393	TBL2	Transducin beta-like protein 2	0	0	0	0	1	0	5	6	3	1	10-32
TCP4_HUMAN	14386	SUB1	Activated RNA polymerase II transcriptional coactivator p15	0	0	1	3	1	3	1	0	1	NONE	0
TCPA_HUMAN	60819	TCP1	T-complex protein 1 subunit alpha	0	0	0	2	1	2	1	1	0	NONE	0
TCPB_HUMAN	57794	CCT2	T-complex protein 1 subunit beta	6	8	6	7	5	5	5	4	6	NONE	0
TCPD_HUMAN	58401	CCT4	T-complex protein 1 subunit delta	2	1	2	4	2	1	0	0	0	NONE	0

TCPE_HUMAN	60089	CCT5	T-complex protein 1 subunit epsilon	1	1	1	1	5	4	2	1	1	NONE	0
TCPG_HUMAN	61066	CCT3	T-complex protein 1 subunit gamma	2	2	2	5	4	6	2	1	2	NONE	0
TCPH_HUMAN	59842	CCT7	T-complex protein 1 subunit eta	2	2	1	7	3	5	3	1	2	NONE	0
TCPO_HUMAN	60153	CCT8	T-complex protein 1 subunit theta	4	2	3	9	8	10	2	3	3	NONE	0
TCPZ_HUMAN	58444	CCT6A	T-complex protein 1 subunit zeta	0	1	1	2	2	2	2	1	1	NONE	0
TCRG1_HUMAN	124051	TCERG1	Transcription elongation regulator 1	0	0	0	0	1	0	0	0	0	NONE	0
TCTP_HUMAN	19697	TPT1	Translationally-controlled tumor protein	0	0	0	0	0	0	0	0	1	NONE	0
TCTP8_HUMAN	16041	TPT1P8	Putative translationally-controlled tumor protein-like protein TPT1P8	0	0	0	0	0	0	0	0	1	NONE	0
TECR_HUMAN	36410	TECR	Very-long-chain enoyl-CoA reductase	0	0	0	6	2	3	8	6	7	2	87-109,256-278
TEN3_HUMAN	305093	TENM3	Teneurin-3	1	0	0	1	0	0	0	0	0	1	312-334
TENR_HUMAN	151805	TNR	Tenascin-R	1	0	0	0	0	0	0	0	0	1	7-29
TERA_HUMAN	89950	VCP	Transitional endoplasmic reticulum ATPase	3	5	5	3	3	2	7	5	6	NONE	0
TEST_HUMAN	35432	PRSS21	Testisin	0	0	0	0	1	0	0	0	0	NONE	0
TET2_HUMAN	226237	TET2	Methylcytosine dioxygenase TET2	0	1	0	0	1	0	0	0	0	NONE	0
TEX15_HUMAN	319244	TEX15	Testis-expressed protein 15	0	0	0	0	1	2	2	1	1	NONE	0
TEX37_HUMAN	20886	TEX37	Testis-expressed sequence 37 protein	0	0	0	0	0	0	0	1	0	NONE	0
TF_HUMAN	33332	F3	Tissue factor	0	0	0	1	0	0	0	0	0	2	12-34,252-274
TF3C1_HUMAN	241062	GTF3C1	General transcription factor 3C polypeptide 1	1	1	1	1	0	0	1	1	1	2	9-31,902-924
TFAM_HUMAN	29306	TFAM	Transcription factor A, mitochondrial	0	0	0	0	0	0	1	0	1	NONE	0
TFG_HUMAN	43478	TFG	Protein TFG	0	0	0	1	1	0	0	0	0	NONE	0
TFR1_HUMAN	85274	TFRC	Transferrin receptor protein 1	1	2	1	13	11	11	20	18	17	1	66-88
TGBR3_HUMAN	94409	TGFBR3	Transforming growth factor beta receptor type 3	0	0	0	0	0	0	1	0	1	2	1-23,786-808
TGM2_HUMAN	78420	TGM2	Protein-glutamine gamma-glutamyltransferase 2	2	2	3	0	0	0	0	0	0	NONE	0
TGM4_HUMAN	77951	TGM4	Protein-glutamine gamma-glutamyltransferase 4	1	1	1	0	0	0	0	0	0	NONE	0
TGO1_HUMAN	214255	MIA3	Transport and Golgi organization protein 1 homolog	1	1	1	0	0	0	0	0	1	3	1-23,1143-1165,1183-1205
TGON2_HUMAN	50988	TGOLN2	Trans-Golgi network integral membrane protein 2	0	0	0	0	0	0	2	1	1	2	3-25,382-402
THADA_HUMAN	222886	THADA	Thyroid adenoma-associated protein	2	2	2	0	0	0	0	0	0	2	1769-1791,1836-1858
THEM6_HUMAN	24135	THEM6	Protein THEM6	0	0	0	0	0	0	2	2	1	1	9-31
THIL_HUMAN	45456	ACAT1	Acetyl-CoA acetyltransferase, mitochondrial	0	0	0	1	0	2	1	2	1	NONE	0
THIM_HUMAN	42354	ACAA2	3-ketoacyl-CoA thiolase, mitochondrial	0	0	0	0	0	0	1	0	0	NONE	0
THIO_HUMAN	12015	TXN	Thioredoxin	3	3	3	2	3	2	3	3	3	NONE	0
THOC3_HUMAN	38772	THOC3	THO complex subunit 3	1	1	1	1	0	1	1	1	1	NONE	0
TIGD3_HUMAN	52678	TIGD3	Tigger transposable element-derived protein 3	0	0	0	0	0	1	0	0	0	NONE	0
TIM16_HUMAN	13816	PAM16	Mitochondrial import inner membrane translocase subunit TIM16	0	0	0	0	0	0	1	1	1	1	2-24
TIM44_HUMAN	51666	TIMM44	Mitochondrial import inner membrane translocase subunit TIM44	0	0	0	0	0	0	1	0	0	NONE	0
TIM50_HUMAN	39850	TIMM50	Mitochondrial import inner membrane translocase subunit TIM50	0	0	0	0	0	0	1	0	1	NONE	0
TITIN_HUMAN	3842904	TTN	Titin	1	0	1	0	0	0	1	1	1	ERROR	0
TKT_HUMAN	68519	TKT	Transketolase	3	3	1	4	5	5	2	0	0	NONE	0
TKTL1_HUMAN	66204	TKTL1	Transketolase-like protein 1	0	1	0	0	0	0	0	0	0	NONE	0
TLN1_HUMAN	271766	TLN1	Talin-1	6	6	5	7	8	5	5	4	4	NONE	0
TLN2_HUMAN	273781	TLN2	Talin-2	1	1	0	1	1	1	0	0	0	NONE	0
TM109_HUMAN	26194	TMEM109	Transmembrane protein 109	0	0	0	0	1	0	2	2	0	5	12-34,88-110,129-151,158-180,182-204
TM14C_HUMAN	11557	TMEM14C	Transmembrane protein 14C	0	0	1	0	1	1	1	1	1	4	5-27,33-55,60-82,86-108
TM214_HUMAN	77957	TMEM214	Transmembrane protein 214	0	0	0	0	0	0	8	5	4	2	480-502,558-580
TM232_HUMAN	77260	TMEM232	Transmembrane protein 232	1	0	1	1	1	0	0	1	0	4	133-155,166-188,309-331,354-376
TM245_HUMAN	97808	TMEM245	Transmembrane protein 245	0	0	0	0	0	0	1	2	1	16	66-88,114-136,154-176,188-209,215-237,239-260,269-290,353-375,380-401,454-476,606-628,642-664,738-760,771-793,804-826,830-852
TM41B_HUMAN	32663	TMEM41B	Transmembrane protein 41B	0	0	0	0	0	0	1	1	2	5	52-74,113-135,147-169,226-248,262-283
TM9S1_HUMAN	69330	TM9SF1	Transmembrane 9 superfamily member 1	0	0	0	0	0	0	1	0	2	10	8-30,237-259,308-330,340-362,375-397,409-431,466-488,499-521,533-555,572-594
TM9S2_HUMAN	76809	TM9SF2	Transmembrane 9 superfamily member 2	0	0	0	0	0	0	4	3	2	10	9-30,302-324,366-388,396-418,434-456,468-490,522-544,557-579,591-613,628-650
TM9S3_HUMAN	68584	TM9SF3	Transmembrane 9 superfamily member 3	0	0	0	0	1	0	0	2	0	9	4-25,225-247,291-313,360-382,394-416,447-469,483-505,519-540,552-574
TM9S4_HUMAN	75211	TM9SF4	Transmembrane 9 superfamily member 4	0	0	0	0	0	0	6	4	5	10	1-23,282-304,345-367,378-400,417-438,446-468,501-523,536-558,571-593,607-629
TMCO1_HUMAN	21389	TMCO1	Calcium load-activated calcium channel	0	0	0	0	0	0	3	2	4	1	56-78

TMED1_HUMAN	25361	TMED1	Transmembrane emp24 domain-containing protein 1	0	0	0	0	0	0	0	1	1	2	1-23,194-215
TMED2_HUMAN	22860	TMED2	Transmembrane emp24 domain-containing protein 2	2	2	2	6	5	5	7	6	7	2	3-25,167-189
TMED3_HUMAN	25046	TMED3	Transmembrane emp24 domain-containing protein 3	0	0	0	1	1	1	0	0	0	NONE	0
TMED4_HUMAN	26097	TMED4	Transmembrane emp24 domain-containing protein 4	0	0	0	1	1	2	3	2	2	2	4-26,193-215
TMED5_HUMAN	26102	TMED5	Transmembrane emp24 domain-containing protein 5	0	0	0	0	1	0	0	0	0	2	6-28,198-220
TMED7_HUMAN	25498	TMED7	Transmembrane emp24 domain-containing protein 7	0	0	0	0	0	0	1	1	1	1	191-213
TMED9_HUMAN	27374	TMED9	Transmembrane emp24 domain-containing protein 9	1	2	2	2	2	2	2	3	3	2	14-35,201-223
TMEDA_HUMAN	25131	TMED10	Transmembrane emp24 domain-containing protein 10	2	3	2	9	13	8	13	9	11	2	17-39,185-207
TMM33_HUMAN	28302	TMEM33	Transmembrane protein 33	1	1	1	0	0	1	3	3	4	3	31-53,99-121,158-180
TMM43_HUMAN	44904	TMEM43	Transmembrane protein 43	0	0	0	0	0	0	1	0	2	4	30-52,314-336,346-368,370-391
TMPSD_HUMAN	64197	TMPRSS13	Transmembrane protease serine 13	2	1	1	2	1	2	1	2	0	1	167-189
TMX1_HUMAN	32170	TMX1	Thioredoxin-related transmembrane protein 1	1	1	1	0	0	0	3	1	3	3	1-20,141-163,183-205
TMX2_HUMAN	34358	TMX2	Thioredoxin-related transmembrane protein 2	0	0	0	0	0	0	2	0	2	4	1-23,25-47,60-79,102-124
TNIP3_HUMAN	39489	TNIP3	TNFAIP3-interacting protein 3	0	0	0	0	1	1	0	0	0	NONE	0
TNR6_HUMAN	38905	FAS	Tumor necrosis factor receptor superfamily member 6	0	0	1	0	0	0	0	0	0	2	1-23,169-190
TOM22_HUMAN	15512	TOMM22	Mitochondrial import receptor subunit TOM22 homolog	0	0	0	1	0	0	3	2	4	1	84-105
TOM40_HUMAN	38211	TOMM40	Mitochondrial import receptor subunit TOM40 homolog	0	0	0	0	0	0	3	5	3	NONE	0
TOM5_HUMAN	6031	TOMM5	Mitochondrial import receptor subunit TOM5 homolog	0	0	0	0	1	0	2	2	2	NONE	0
TOM7_HUMAN	6244	TOMM7	Mitochondrial import receptor subunit TOM7 homolog	0	0	0	0	0	0	1	2	0	NONE	0
TOM70_HUMAN	68096	TOMM70	Mitochondrial import receptor subunit TOM70	0	0	0	0	0	0	6	2	3	NONE	0
TP4A1_HUMAN	20144	PTP4A1	Protein tyrosine phosphatase type IVA 1	0	0	0	1	0	1	0	0	0	1	99-121
TPD52_HUMAN	24369	TPD52	Tumor protein D52	0	0	0	1	1	2	0	0	0	NONE	0
TPD54_HUMAN	22281	TPD52L2	Tumor protein D54	0	1	0	3	1	1	4	3	1	NONE	0
TPIS_HUMAN	31057	TPI1	Triosephosphate isomerase	2	3	3	5	7	7	1	1	1	NONE	0
TPM1_HUMAN	32746	TPM1	Tropomyosin alpha-1 chain	4	5	6	4	4	4	1	2	2	NONE	0
TPM2_HUMAN	32945	TPM2	Tropomyosin beta chain	5	5	6	5	6	6	1	2	2	NONE	0
TPM3_HUMAN	32987	TPM3	Tropomyosin alpha-3 chain	10	9	9	8	7	8	1	2	2	NONE	0
TPM4_HUMAN	28619	TPM4	Tropomyosin alpha-4 chain	7	5	6	6	7	7	1	2	2	NONE	0
TPP1_HUMAN	61723	TPP1	Tripeptidyl-peptidase 1	0	0	0	0	0	1	2	1	0	1	1-19
TPSN_HUMAN	47938	TAPBP	Tapasin	0	0	0	0	0	0	1	1	1	2	6-28,415-437
TR150_HUMAN	108658	THRAP3	Thyroid hormone receptor-associated protein 3	0	0	0	0	0	0	0	1	1	NONE	0
TRAM1_HUMAN	43215	TRAM1	Translocating chain-associated membrane protein 1	0	0	0	0	0	0	2	1	3	9	13-35,39-61,76-98,126-148,159-181,193-215,218-240,253-275,292-314
TRAM2_HUMAN	43756	TRAM2	Translocating chain-associated membrane protein 2	0	0	0	0	0	0	0	0	1	7	29-51,73-95,118-140,156-178,195-217,248-270,286-308
TRAP1_HUMAN	80345	TRAP1	Heat shock protein 75 kDa, mitochondrial	5	6	5	11	10	7	7	10	7	NONE	0
TRFE_HUMAN	79294	TF	Serotransferrin	0	0	0	0	0	0	15	15	13	1	2-24
TRIR_HUMAN	18465	TRIR	Telomerase RNA component interacting RNase	0	0	0	0	0	0	0	0	1	NONE	0
TRNK1_HUMAN	340341	TRANK1	TPR and ankyrin repeat-containing protein 1	2	1	0	0	0	0	0	0	0	NONE	0
TRPM2_HUMAN	172743	TRPM2	Transient receptor potential cation channel subfamily M member 2	1	0	0	0	0	0	0	0	0	7	753-774,795-817,825-847,868-890,901-923,933-955,1025-1047
TRXR1_HUMAN	71832	TXNRD1	Thioredoxin reductase 1, cytoplasmic	2	1	1	0	0	0	0	0	0	2	194-216,351-373
TRXR2_HUMAN	57156	TXNRD2	Thioredoxin reductase 2, mitochondrial	0	0	0	1	1	1	0	0	0	NONE	0
TRY1_HUMAN	27111	PRSS1	Trypsin-1	3	4	2	3	1	4	1	2	1	NONE	0
TRY2_HUMAN	26927	PRSS2	Trypsin-2	1	3	1	1	0	2	0	0	1	NONE	0
TRY3_HUMAN	33306	PRSS3	Trypsin-3	1	2	1	1	2	2	2	2	2	NONE	0
TRY6_HUMAN	27090	PRSS3P2	Putative trypsin-6	1	3	1	1	0	1	0	0	1	NONE	0
TSN3_HUMAN	28797	TSPAN3	Tetraspanin-3	0	0	0	0	2	1	0	0	0	4	12-34,50-72,84-106,205-227
TSN4_HUMAN	26841	TSPAN4	Tetraspanin-4	0	1	0	1	1	0	0	0	0	4	9-31,53-75,84-106,204-226
TSP50_HUMAN	43915	PRSS50	Probable threonine protease PRSS50	0	1	0	0	0	0	0	0	0	1	21-43
TSPO_HUMAN	18930	TSPO	Translocator protein	0	0	0	1	0	0	0	0	0	4	6-28,79-101,105-127,129-151
TSY26_HUMAN	39833	TSY26P	Putative testis-specific Y-encoded-like protein 3	0	0	0	0	0	0	1	0	0	NONE	0
TT21A_HUMAN	152501	TTC21A	Tetratricopeptide repeat protein 21A	0	0	1	0	0	0	0	0	0	NONE	0
TT21B_HUMAN	152380	TTC21B	Tetratricopeptide repeat protein 21B	0	0	1	0	0	0	0	0	0	NONE	0
TTC25_HUMAN	77007	TTC25	Tetratricopeptide repeat protein 25	0	0	0	0	1	0	0	0	1	NONE	0
TTI1_HUMAN	123474	TTI1	TELO2-interacting protein 1 homolog	0	0	1	1	1	0	0	0	1	NONE	0
TTK_HUMAN	97980	TTK	Dual specificity protein kinase TTK	0	0	0	0	0	0	1	1	1	NONE	0
TTYH3_HUMAN	58477	TTYH3	Protein tweety homolog 3	0	0	0	0	0	0	1	1	0	6	43-65,83-104,175-197,209-231,240-262,388-410
TXD12_HUMAN	19365	TXNDC12	Thioredoxin domain-containing protein 12	0	0	0	0	0	0	3	2	1	NONE	0
TXD17_HUMAN	14217	TXNDC17	Thioredoxin domain-containing protein 17	0	0	0	0	0	0	0	0	1	NONE	0

TXND5_HUMAN	48283	TXNDC5	Thioredoxin domain-containing protein 5	0	0	0	1	0	0	3	5	4	NONE	0
TXTP_HUMAN	34333	SLC25A1	Tricarboxylate transport protein, mitochondrial	0	0	0	1	0	3	10	6	9	NONE	0
U5S1_HUMAN	110336	EFTUD2	116 kDa U5 small nuclear ribonucleoprotein component	1	0	0	0	0	0	0	0	0	NONE	0
UB2V1_HUMAN	16598	UBE2V1	Ubiquitin-conjugating enzyme E2 variant 1	0	0	0	3	1	0	0	0	0	NONE	0
UB2V2_HUMAN	16409	UBE2V2	Ubiquitin-conjugating enzyme E2 variant 2	0	0	0	3	1	0	0	0	0	NONE	0
UBA1_HUMAN	118858	UBA1	Ubiquitin-like modifier-activating enzyme 1	0	0	0	1	0	0	0	0	0	2	888-910,986-1006
UBA5_HUMAN	45291	UBA5	Ubiquitin-like modifier-activating enzyme 5	0	0	0	0	1	0	0	0	0	NONE	0
UBB_HUMAN	25803	UBB	Polyubiquitin-B	31	32	33	60	58	52	39	36	41	NONE	0
UBC_HUMAN	76992	UBC	Polyubiquitin-C	91	92	93	174	166	148	111	102	119	NONE	0
UBE2N_HUMAN	17184	UBE2N	Ubiquitin-conjugating enzyme E2 N	1	1	1	1	2	3	1	1	2	NONE	0
UBP2L_HUMAN	114579	UBAP2L	Ubiquitin-associated protein 2-like	0	0	0	0	1	0	0	0	0	NONE	0
UBP47_HUMAN	158581	USP47	Ubiquitin carboxyl-terminal hydrolase 47	1	0	1	0	0	0	0	0	0	NONE	0
UBP51_HUMAN	79756	USP51	Ubiquitin carboxyl-terminal hydrolase 51	0	0	1	0	0	0	0	0	0	NONE	0
UBQL1_HUMAN	62479	UBQLN1	Ubiquilin-1	0	0	0	0	0	1	0	0	0	NONE	0
UBQL2_HUMAN	65655	UBQLN2	Ubiquilin-2	0	0	0	0	0	1	0	0	0	NONE	0
UBQL4_HUMAN	63869	UBQLN4	Ubiquilin-4	0	0	0	0	0	1	0	0	0	NONE	0
UBR2_HUMAN	203829	UBR2	E3 ubiquitin-protein ligase UBR2	1	1	1	0	0	0	1	0	0	NONE	0
UBR4_HUMAN	580547	UBR4	E3 ubiquitin-protein ligase UBR4	0	2	1	0	0	0	0	0	0	ERROR	0
UBTD1_HUMAN	26150	UBTD1	Ubiquitin domain-containing protein 1	0	1	1	0	1	1	1	0	1	NONE	0
UBXN4_HUMAN	57028	UBXN4	UBX domain-containing protein 4	0	0	0	0	0	0	0	1	2	NONE	0
UCR1_HUMAN	29934	UQCRCFS1	Cytochrome b-c1 complex subunit Rieske, mitochondrial	0	0	0	0	0	0	2	2	2	NONE	0
UCR1L_HUMAN	31081	UQCRCFS1P	Putative cytochrome b-c1 complex subunit Rieske-like protein 1	0	0	0	0	0	0	1	1	1	NONE	0
UD2A1_HUMAN	60400	UGT2A1	UDP-glucuronosyltransferase 2A1	0	0	0	0	0	0	1	0	1	2	5-27,491-513
UD2A3_HUMAN	60899	UGT2A3	UDP-glucuronosyltransferase 2A3	0	0	0	0	0	0	1	1	2	1	8-30
UD2B4_HUMAN	60872	UGT2B4	UDP-glucuronosyltransferase 2B4	0	0	0	0	0	0	1	0	1	1	495-517
UDB17_HUMAN	61625	UGT2B17	UDP-glucuronosyltransferase 2B17	0	0	0	0	0	0	1	0	1	2	1-23,494-516
UE2NL_HUMAN	17366	UBE2NL	Putative ubiquitin-conjugating enzyme E2 N-like	1	1	1	1	2	3	1	1	2	NONE	0
UFO_HUMAN	99529	AXL	Tyrosine-protein kinase receptor UFO	0	1	0	0	0	0	0	0	0	2	8-29,451-472
UGDH_HUMAN	55674	UGDH	UDP-glucose 6-dehydrogenase	0	0	0	0	0	0	1	1	1	NONE	0
UGGG1_HUMAN	177819	UGGT1	UDP-glucose:glycoprotein glucosyltransferase 1	0	0	0	0	0	0	12	12	8	1	14-36
UGGG2_HUMAN	175251	UGGT2	UDP-glucose:glycoprotein glucosyltransferase 2	0	0	0	0	0	0	1	1	1	NONE	0
UGPA_HUMAN	57076	UGP2	UTP--glucose-1-phosphate uridylyltransferase	0	0	0	1	0	0	0	0	0	NONE	0
UMPS_HUMAN	52645	UMPS	Uridine 5'-monophosphate synthase	0	0	0	0	1	1	0	0	0	NONE	0
UNC5D_HUMAN	107922	UNC5D	Netrin receptor UNC5D	0	0	1	0	0	0	0	0	0	2	17-39,382-403
UROK_HUMAN	49901	PLAU	Urokinase-type plasminogen activator	0	1	0	0	0	0	0	0	0	NONE	0
UROL1_HUMAN	146711	UMODL1	Uromodulin-like 1	0	1	0	0	0	0	0	0	0	2	9-31,1269-1291
USMG5_HUMAN	6510	ATP5MD	Up-regulated during skeletal muscle growth protein 5	0	0	0	0	1	1	3	2	2	1	24-45
VA0D1_HUMAN	40759	ATP6V0D1	V-type proton ATPase subunit d 1	0	0	0	0	0	0	2	2	1	NONE	0
VAFNB_HUMAN	20547	ATP6V1FNB	Protein ATP6V1FNB	1	0	0	0	0	0	0	0	0	NONE	0
VAMP1_HUMAN	13008	VAMP1	Vesicle-associated membrane protein 1	0	0	0	0	0	0	0	1	1	1	96-118
VAMP2_HUMAN	12712	VAMP2	Vesicle-associated membrane protein 2	1	1	0	0	1	0	1	3	2	1	93-113
VAMP3_HUMAN	11359	VAMP3	Vesicle-associated membrane protein 3	2	1	0	0	1	0	2	4	2	1	78-100
VAMP7_HUMAN	25261	VAMP7	Vesicle-associated membrane protein 7	0	0	0	0	0	1	0	0	0	2	5-27,188-210
VAMP8_HUMAN	11488	VAMP8	Vesicle-associated membrane protein 8	0	0	0	0	0	0	0	1	0	1	74-96
VAPA_HUMAN	28103	VAPA	Vesicle-associated membrane protein-associated protein A	0	0	1	3	3	5	13	8	7	1	226-248
VAPB_HUMAN	27439	VAPB	Vesicle-associated membrane protein-associated protein B/C	0	0	0	0	0	1	2	1	2	1	220-242
VAS1_HUMAN	52164	ATP6AP1	V-type proton ATPase subunit S1	0	0	0	1	0	2	1	1	1	2	21-43,426-448
VASP_HUMAN	39976	VASP	Vasodilator-stimulated phosphoprotein	1	1	2	0	1	1	0	0	0	NONE	0
VAT1_HUMAN	42122	VAT1	Synaptic vesicle membrane protein VAT-1 homolog	0	0	0	3	2	0	7	6	5	NONE	0
VATA_HUMAN	68660	ATP6V1A	V-type proton ATPase catalytic subunit A	1	0	0	0	0	0	1	1	1	NONE	0
VATG1_HUMAN	13863	ATP6V1G1	V-type proton ATPase subunit G 1	0	0	0	0	0	0	0	1	1	NONE	0
VATL_HUMAN	15725	ATP6V0C	V-type proton ATPase 16 kDa proteolipid subunit	1	0	1	1	2	1	1	1	2	4	11-33,48-70,94-116,129-151
VDAC1_HUMAN	30868	VDAC1	Voltage-dependent anion-selective channel protein 1	1	1	1	12	6	8	29	23	21	NONE	0
VDAC2_HUMAN	32060	VDAC2	Voltage-dependent anion-selective channel protein 2	4	3	2	6	5	5	18	16	15	NONE	0
VDAC3_HUMAN	30981	VDAC3	Voltage-dependent anion-selective channel protein 3	1	1	1	2	2	1	6	7	5	NONE	0
VIGLN_HUMAN	141995	HDLBP	Vigilin	0	0	0	1	1	0	0	0	0	NONE	0
VILI_HUMAN	93093	VIL1	Villin-1	0	0	0	0	0	0	5	6	4	NONE	0
VIME_HUMAN	53676	VIM	Vimentin	2	2	1	15	18	13	0	0	0	NONE	0

VINC_HUMAN	124292	VCL	Vinculin	3	1	2	9	4	3	0	0	0	NONE	0
VISL1_HUMAN	22299	VSNL1	Visinin-like protein 1	0	0	0	0	0	0	2	1	1	NONE	0
VKGC_HUMAN	88075	GGCX	Vitamin K-dependent gamma-carboxylase	0	0	0	0	0	0	1	1	1	5	123-145,197-216,257-279,291-313,360-382
VN1R5_HUMAN	41265	VN1R5	Vomerolateral type-1 receptor 5	2	2	1	0	0	0	0	0	0	7	5-27,55-76,85-107,126-148,164-186,267-289,304-326
VP26A_HUMAN	38260	VPS26A	Vacuolar protein sorting-associated protein 26A	0	0	0	1	0	0	0	0	0	NONE	0
VP33B_HUMAN	71225	VPS33B	Vacuolar protein sorting-associated protein 33B	0	0	1	0	0	0	0	1	0	NONE	0
VPS35_HUMAN	92447	VPS35	Vacuolar protein sorting-associated protein 35	1	1	1	1	1	1	1	1	1	NONE	0
VPS51_HUMAN	86901	VPS51	Vacuolar protein sorting-associated protein 51 homolog	0	0	0	0	0	0	0	0	1	NONE	0
VWA3A_HUMAN	135531	VWA3A	von Willebrand factor A domain-containing protein 3A	0	1	0	0	0	0	0	0	0	NONE	0
VWF_HUMAN	322401	VWF	von Willebrand factor	0	0	0	1	0	1	0	1	1	2	2-24,46-67
WASF1_HUMAN	61899	WASF1	Wiskott-Aldrich syndrome protein family member 1	0	0	0	0	1	0	0	0	0	NONE	0
WASF3_HUMAN	55373	WASF3	Wiskott-Aldrich syndrome protein family member 3	0	0	0	0	1	0	0	0	0	NONE	0
WDR1_HUMAN	66836	WDR1	WD repeat-containing protein 1	2	2	3	0	0	0	0	0	0	1	414-435
WDR35_HUMAN	135229	WDR35	WD repeat-containing protein 35	0	0	0	0	0	0	0	0	0	NONE	0
WDR37_HUMAN	55316	WDR37	WD repeat-containing protein 37	0	0	0	0	0	0	1	0	0	NONE	0
WDR44_HUMAN	101874	WDR44	WD repeat-containing protein 44	0	0	0	0	0	1	0	0	0	NONE	0
WDR70_HUMAN	73896	WDR70	WD repeat-containing protein 70	1	0	1	0	0	0	0	0	0	NONE	0
WDR81_HUMAN	213389	WDR81	WD repeat-containing protein 81	0	0	0	0	0	0	0	0	1	NONE	0
WDR87_HUMAN	335256	WDR87	WD repeat-containing protein 87	1	1	1	0	0	0	0	0	0	1	122-144
WDR90_HUMAN	190681	WDR90	WD repeat-containing protein 90	1	1	0	0	0	0	0	0	0	1	381-403
WFS1_HUMAN	101367	WFS1	Wolframin	0	0	0	0	0	0	4	3	2	8	334-356,402-424,428-449,491-513,527-549,559-581,600-622,631-653
WNK1_HUMAN	251552	WNK1	Serine/threonine-protein kinase WNK1	0	0	0	1	0	1	0	0	0	NONE	0
XCT_HUMAN	55786	SLC7A11	Cystine/glutamate transporter	2	0	0	0	0	0	0	0	0	13	46-68,75-97,109-131,136-158,162-184,192-214,235-257,268-290,298-320,363-385,389-411,422-444,450-471
XPO1_HUMAN	124447	XPO1	Exportin-1	0	0	0	1	1	1	1	0	1	NONE	0
XPO2_HUMAN	111145	CSE1L	Exportin-2	0	0	1	2	4	3	1	1	1	NONE	0
XPP3_HUMAN	57624	XPENPE3	Xaa-Pro aminopeptidase 3	0	1	1	1	0	1	1	1	1	NONE	0
XRCC5_HUMAN	83222	XRCC5	X-ray repair cross-complementing protein 5	0	0	0	0	1	1	0	0	0	NONE	0
XRCC6_HUMAN	70084	XRCC6	X-ray repair cross-complementing protein 6	1	0	1	2	0	1	0	0	0	NONE	0
YBOX1_HUMAN	35903	YBX1	Nuclease-sensitive element-binding protein 1	1	2	0	3	3	3	3	3	3	NONE	0
YES_HUMAN	61276	YES1	Tyrosine-protein kinase Yes	0	0	0	2	3	3	0	1	1	NONE	0
YIF1A_HUMAN	32048	YIF1A	Protein YIF1A	0	0	0	0	0	0	0	1	2	4	139-160,169-191,206-227,268-290
YJU2_HUMAN	37086	YJU2	Splicing factor YJU2	0	0	0	0	0	1	0	0	0	NONE	0
YLAT1_HUMAN	56639	SLC7A7	Y+L amino acid transporter 1	2	2	2	4	3	3	1	1	1	11	36-58,68-90,114-136,155-177,188-210,258-280,308-330,358-380,383-404,415-437,442-464
YLAT2_HUMAN	57532	SLC7A6	Y+L amino acid transporter 2	2	2	2	4	3	3	1	1	1	10	46-68,78-100,122-144,164-186,195-217,276-298,320-342,366-388,423-445,449-470
Z385A_HUMAN	40771	ZNF385A	Zinc finger protein 385A	0	0	1	0	0	0	0	0	0	NONE	0
ZAR1L_HUMAN	36010	ZAR1L	Protein ZAR1-like	0	0	0	0	0	0	0	1	0	NONE	0
ZBT10_HUMAN	95975	ZBTB10	Zinc finger and BTB domain-containing protein 10	0	1	0	0	0	0	0	0	0	NONE	0
ZC11A_HUMAN	89931	ZC3H11A	Zinc finger CCH domain-containing protein 11A	1	1	1	1	1	0	0	1	1	NONE	0
ZCHC4_HUMAN	60625	ZCHC4	rRNA N6-adenosine-methyltransferase ZCHC4	0	0	0	0	0	0	0	0	1	NONE	0
ZDH13_HUMAN	71955	ZDHHC13	Palmitoyltransferase ZDHHC13	0	1	0	0	0	0	0	0	0	6	289-311,318-340,347-369,374-395,471-493,522-544
ZN469_HUMAN	414169	ZNF469	Zinc finger protein 469	1	0	1	0	0	0	0	0	0	NONE	0
ZN638_HUMAN	221914	ZNF638	Zinc finger protein 638	1	1	1	0	0	0	0	0	0	NONE	0
ZN75A_HUMAN	35356	ZNF75A	Zinc finger protein 75A	0	1	0	0	0	0	0	0	0	NONE	0
ZN827_HUMAN	120687	ZNF827	Zinc finger protein 827	1	0	0	0	0	0	0	0	0	NONE	0
ZN830_HUMAN	42144	ZNF830	Zinc finger protein 830	0	0	0	0	0	0	1	1	0	NONE	0
ZNT1_HUMAN	56290	SLC30A1	Zinc transporter 1	3	1	2	2	1	2	0	0	0	6	11-33,37-59,78-100,114-136,248-270,319-341
ZO1_HUMAN	195682	TJP1	Tight junction protein ZO-1	1	1	1	0	0	0	0	0	0	NONE	0
ZO2_HUMAN	134104	TJP2	Tight junction protein ZO-2	0	0	1	0	0	0	0	0	0	NONE	0
Number of totally identified proteins				773	778	809	1031	1040	1026	1114	1084	1111		

Yellow highlights indicate IMPs characterized in the text.

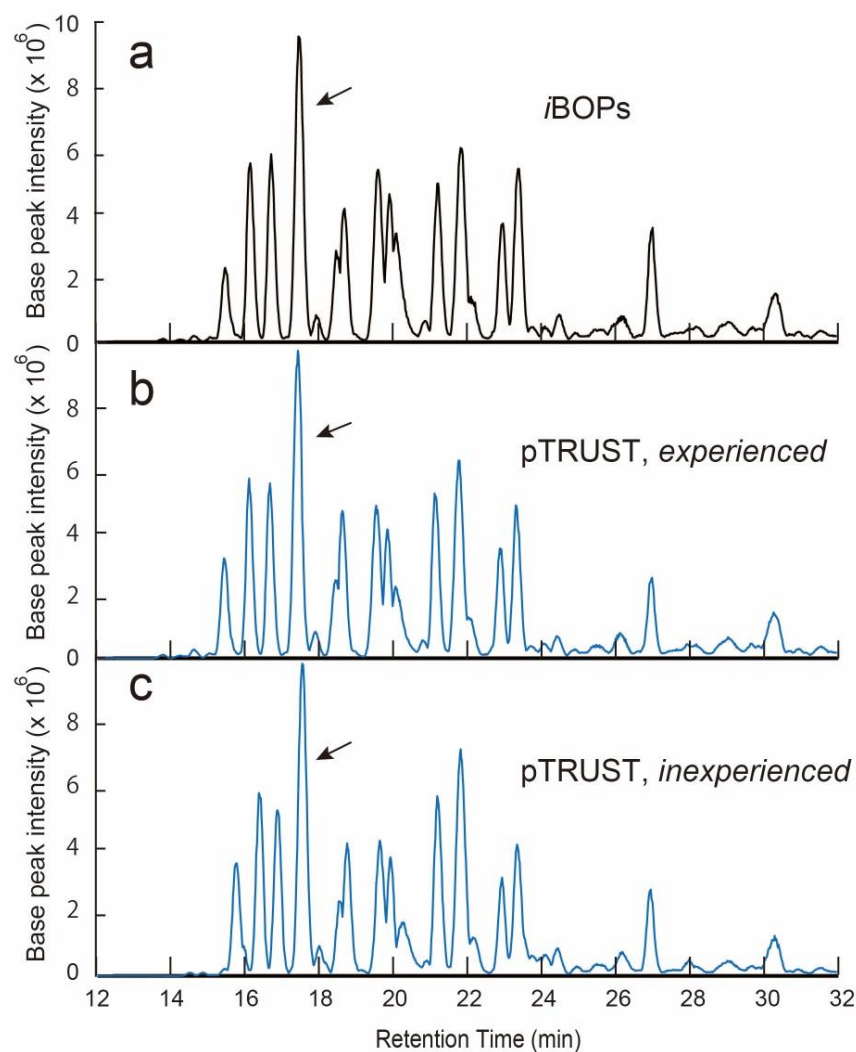


Figure S1: Liquid chromatography-mass spectrometry chromatograms of the BSA digests. One microgram of BSA was alkylated in *i*-soln, and the alkylated samples were processed according to the procedure of *i*BOPs (a) and pTRUST (b,c). (b,c) Experiments were conducted by two experienced proteomics researchers and three inexperienced researchers, and representative data from each group are presented. *Arrows* indicate trypsin autolysis products.

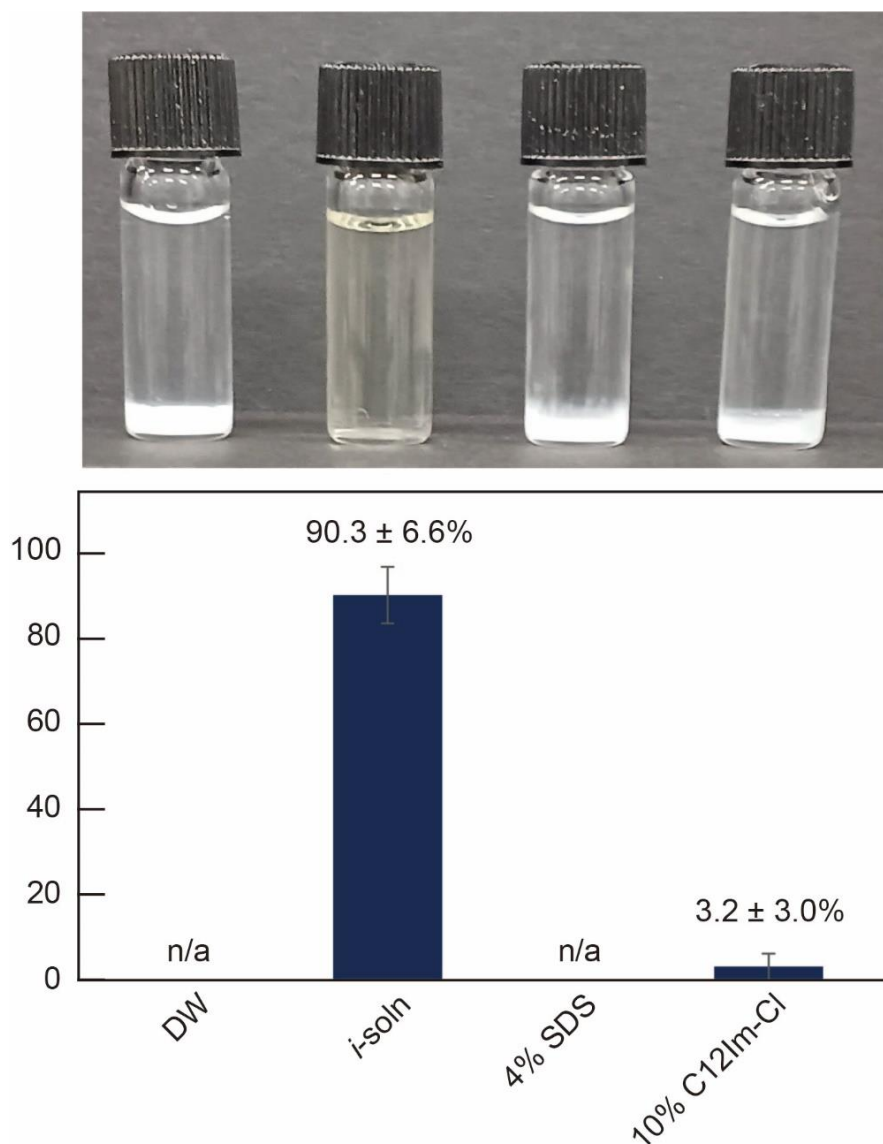


Figure S2: Dissolution of heat-denatured egg white aggregates with *i*-soln, SDS or C12Im-Cl. Dissolution was assessed by visual inspection (top panel) and direct protein quantification after centrifugation at $100,000 \times g$ for 60 min (bottom panel). Each data point is expressed as a percentage of the amount of corresponding native (non-boiled) egg white proteins (mean $\pm$ SD) for ≥ 3 independent experiments. DW, distilled water; *i*-soln, mixed [bmim][SCN]-0.5 M NaOH solution [40% (v/v) IL]; SDS, sodium dodecyl sulfate; C12Im-Cl, 1-dodecyl-3-methylimidazolium chloride.

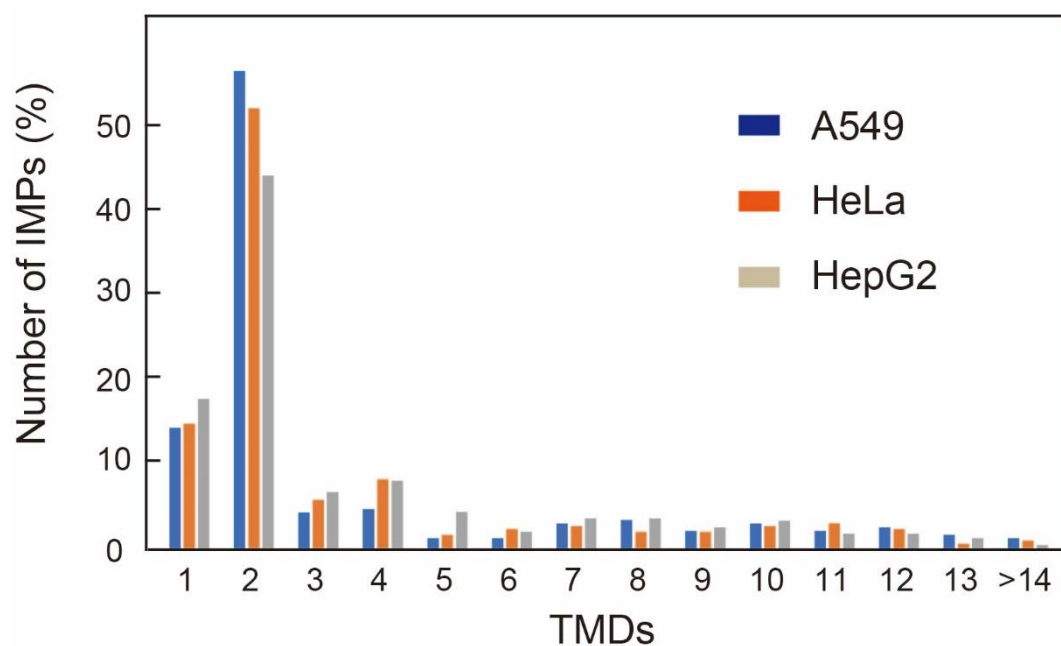


Figure S3: Comparison of the distribution of TMDs of IMPs identified using LC-MS/MS and pTRUST from three human cell lines. Each data point was expressed as a percentage of total number of IMPs identified from A549 (235 proteins), HeLa (296 proteins), and HepG2 cells (391 proteins).