

Приложение Предлагаемый список белков плазмы для использования в качестве протеомных часов старения. Перечень возраст-ассоциированных белков, предлагаемых для обнаружения методом SRM, выделен жирным шрифтом.

№	Идентификатор Uniprot	Название белка	Название гена	Количество пересечений (из 17 наборов данных)	Суммарное количество МС-экспериментов (PRIDE+ SRMatlas)
1	P39900	Macrophage metalloelastase	MMP12	11	729
2	P21246	Pleiotrophin	PTN	11	334
3	P16860	Natriuretic peptides B	NPPB	11	214
4	P15692	Vascular endothelial growth factor A	VEGFA	10	598
5	P25445	Tumor necrosis factor receptor superfamily member 6	FAS	10	277
6	Q99988	Growth/differentiation factor 15 (GDF-15)	GDF15	10	125
7	P00533	Epidermal growth factor receptor (EC 2.7.10.1)	EGFR	9	746
8	P01034	Cystatin-C	CST3	9	334
9	P24592	Insulin-like growth factor-binding protein 6 (IBP-6) (IGF-binding protein 6) (IGFBP-6)	IGFBP6	9	256
10	Q76M96	Coiled-coil domain-containing protein 80	CCDC80	9	45
11	P02765	Alpha-2-HS-glycoprotein	AHSG	8	544
12	Q96KN2	Beta-Ala-His dipeptidase	CNDP1	8	1
13	P14151	L-selectin	SELL	8	878
14	O00300	Tumor necrosis factor receptor superfamily member 11B (Osteoclastogenesis inhibitory factor) (Osteoprotegerin)	TNFRSF11B	8	844
15	P01011	α1-Antichymotrypsin	SERPINA3	8	714
16	O00253	Agouti-related protein	AGRP	8	421
17	Q9UNA0	A disintegrin and metalloproteinase with thrombospondin motifs 5 (ADAM-TS 5)	ADAMTS5	8	101
18	Q9BQB4	Sclerostin	SOST	8	73
19	P21810	Biglycan (Bone/cartilage proteoglycan I) (PG-S1)	BGN	8	1
20	Q76LX8	A disintegrin and metalloproteinase with thrombospondin motifs 13 (ADAM-TS 13)	ADAMTS13	8	0
21	P02778	C-X-C motif chemokine 10	CXCL10	7	239
22	P02751	Fibronectin	FINC	7	395
23	P00742	Coagulation factor X	F10	7	330
24	Q01344	Interleukin-5 receptor subunit alpha (IL-5 receptor subunit alpha) (IL-5R subunit alpha) (IL-5R-alpha) (IL-5RA) (CDw125) (CD antigen CD125)	IL5RA	7	773
25	P49862	Kallikrein-7 (hK7) (EC 3.4.21.117) (Serine protease 6)	KLK7	7	685
26	P07949	Proto-oncogene tyrosine-protein kinase receptor Ret (EC 2.7.10.1)	RET	7	638
27	Q12805	EGF-containing fibulin-like extracellular matrix protein 1 (Extracellular protein S1-5) (Fibrillin-like protein) (Fibulin-3) (FIBL-3)	EFEMP1	7	591
28	P18065	Insulin-like growth factor-binding protein 2	IGFBP2	7	553
29	P10645	Chromogranin-A (CgA)	CHGA	7	385
30	P35443	Thrombospondin-4	THBS4	7	331
31	P20333	Tumor necrosis factor receptor superfamily member 1B	TNFRSF1B	7	304
32	P36222	Chitinase-3-like protein 1	CHI3L1	7	296
33	P08294	Extracellular superoxide dismutase [Cu-Zn] (EC-SOD) (EC 1.15.1.1)	SOD3	7	248
34	Q4KMG0	Cell adhesion molecule-related/down-regulated by oncogenes	CDON	7	146
35	Q9H773	dCTP pyrophosphatase 1 (EC 3.6.1.12)	DCTPP1	7	142
36	O60911	Cathepsin L2 (EC 3.4.22.43) (Cathepsin U) (Cathepsin V)	CTSV	7	117

37	P08697	Alpha-2-antiplasmin	A2AP	7	68
38	Q13231	Chitotriosidase-1 (EC 3.2.1.14) (Chitinase-1)	CHIT1	7	68
39	Q03405	Urokinase plasminogen activator surface receptor (U-PAR) (uPAR) (Monocyte activation antigen Mo3) (CD antigen CD87)	PLAUR	7	37
40	P19438	Tumor necrosis factor receptor superfamily member 1A	TNFRSF1A	7	21
41	Q9BU40	Chordin-like protein 1 (Neuralin-1) (Neurogenesin-1) (Ventroptin)	CHRD1	7	18
42	Q9HCB6	Spondin-1 (F-spondin) (Vascular smooth muscle cell growth-promoting factor)	SPON1	7	2
43	Q07507	Dermatopontin (Tyrosine-rich acidic matrix protein) (TRAMP)	DPT	7	0
44	P17931	Galectin-3 (Gal-3) (35 kDa lectin)	LGALS3	6	408
45	Q07325	C-X-C motif chemokine 9	CXCL9	6	12
46	P01031	Complement C5	CO5	6	702
47	P02679	Fibrinogen gamma chain	FIBG	6	588
48	P05155	Plasma protease C1 inhibitor	IC1	6	344
49	P00747	Plasminogen	PLMN	6	267
50	P07288	Prostate-specific antigen (PSA) (EC 3.4.21.77) (Gamma-seminoprotein) (Seminin) (Kallikrein-3) (P-30 antigen) (Semenogelase)	KLK3	6	919
51	P06756	Integrin alpha-V (Vitronectin receptor)	ITGAV	6	850
52	O15031	Plexin-B2 (MM1)	PLXNB2	6	788
53	Q14508	WAP four-disulfide core domain protein 2 (Epididymal secretory protein E4) (Major epididymis-specific protein E4) (Putative protease inhibitor WAP5)	WFDC2	6	680
54	Q15063	Periostin (PN) (Osteoblast-specific factor 2) (OSF-2)	POSTN	6	677
55	P55773	C-C motif chemokine 23 (CK-beta-8)	CCL23	6	641
56	P02768	Albumin, serum	ALB	6	583
57	Q96GP6	Scavenger receptor class F member 2 (SRECRP-1) (Scavenger receptor expressed by endothelial cells 2 protein) (SREC-II)	SCARF2	6	495
58	P01033	Metalloproteinase inhibitor 1 (Erythroid-potentiating activity)	TIMP1	6	475
59	Q15109	Advanced glycosylation end product-specific receptor (Receptor for advanced glycosylation end products)	AGER	6	401
60	P02748	Complement component C9	C9	6	368
61	O14791	Apolipoprotein L1	APOL1	6	355
62	Q9UBX1	Cathepsin F (CATSF) (EC 3.4.22.41)	CTSF	6	355
63	P39060	Collagen alpha-1(XVIII) chain [Cleaved into: Endostatin; Non-collagenous domain 1 (NC1)]	COL18A1	6	313
64	P10721	Mast/stem cell growth factor receptor Kit	KIT	6	234
65	P10646	Tissue factor pathway inhibitor (TFPI) (Extrinsic pathway inhibitor) (EPI) (Lipoprotein-associated coagulation inhibitor) (LACI)	TFPI	6	184
66	Q8N474	Secreted frizzled-related protein 1 (FRP-1) (sFRP-1) (Secreted apoptosis-related protein 2) (SARP-2)	SFRP1	6	159
67	P48740	Mannan-binding lectin serine protease 1	MASP1	6	123
68	Q96GW7	Brevican core protein	BCAN	6	114
69	P01833	Polymeric immunoglobulin receptor (PIgR) (Poly-Ig receptor) (Hepatocellular carcinoma-associated protein TB6) [Cleaved into: Secretory component]	PIGR	6	87
70	P41222	Prostaglandin-H2 D-isomerase (EC 5.3.99.2) (Beta-trace protein) (Cerebrin-28)	PTGDS	6	68
71	P01298	Pancreatic prohormone (Pancreatic polypeptide)	PPY	6	59
72	Q02487	Desmocollin-2	DSC2	6	48
73	O95633	Follistatin-related protein 3 (Follistatin-like protein 3) (Follistatin-related gene protein)	FSTL3	6	48
74	Q9HD89	Resistin (Adipose tissue-specific secretory factor) (ADSF)	RETN	6	42
75	Q8N423	Leukocyte immunoglobulin-like receptor subfamily B member 2 (LIR-2)	LILRB2	6	36
76	Q210M5	R-spondin-4 (Roof plate-specific spondin-4) (hRspo4)	RSPO4	6	33
77	P01215	Glycoprotein hormones alpha chain chain (LSH-alpha)	CGA	6	24
78	Q9UBP4	Dickkopf-related protein 3 (Dickkopf-3) (Dkk-3) (hDkk-3)	DKK3	6	18
79	Q9Y286	Sialic acid-binding Ig-like lectin 7	SIGLEC7	6	18
80	P22105	Tenascin-X (TN-X) (Hexabrachion-like protein)	TNXB	6	16
81	Q14515	SPARC-like protein 1 (High endothelial venule protein) (Hevin) (MAST 9)	SPARCL1	6	10

82	Q07954	Prolow-density lipoprotein receptor-related protein 1 (LRP-1) (Alpha-2-macroglobulin receptor)	LRP1	6	2
83	P61769	Beta-2-microglobulin	B2M	6	0
84	P51884	Lumican	LUM	6	0
85	P00738	Haptoglobin (Zonulin)	HPT	5	429
86	P01024	Complement C3	CO3	5	683
87	P02671	Fibrinogen alpha chain	FIBA	5	494
88	P04114	Apolipoprotein B-100	APOB	5	0
89	P00734	Prothrombin	F2	5	1010
90	P07451	Carbonic anhydrase 3 (EC 4.2.1.1) (Carbonate dehydratase III) (Carbonic anhydrase III) (CA-III)	CA3	5	1000
91	P35968	Vascular endothelial growth factor receptor 2 (VEGFR-2)	KDR	5	979
92	P25774	Cathepsin S (EC 3.4.22.27)	CTSS	5	970
93	P07355	Annexin A2 (Annexin II)	ANXA2	5	881
94	P14555	Phospholipase A2, membrane associated	PLA2G2A	5	826
95	P13726	Tissue factor (TF) (Coagulation factor III) (Thromboplastin) (CD antigen CD142)	F3	5	741
96	Q16270	Insulin-like growth factor-binding protein 7 (IBP-7)	IGFBP7	5	694
97	P10643	Complement component C7	C7	5	672
98	Q9H2A7	C-X-C motif chemokine 16	CXCL16	5	662
99	Q13561	Dynactin subunit 2 (50 kDa dynein-associated polypeptide) (Dynactin complex 50 kDa subunit) (DCTN-50) (p50 dynamitin)	DCTN2	5	646
100	Q969J5	Interleukin-22 receptor subunit alpha-2	IL22RA2	5	641
101	P17936	Insulin-like growth factor-binding protein 3	IGFBP3	5	583
102	P19823	Inter-alpha-trypsin inhibitor heavy chain H2	ITIH2	5	536
103	Q15582	Transforming growth factor-beta-induced protein ig-h3	TGFB1	5	536
104	P19827	Inter-alpha-trypsin inhibitor heavy chain H1 (ITI heavy chain H1)	ITIH1	5	535
105	Q8TDQ0	Hepatitis A virus cellular receptor 2 (HAVcr-2)	HAVCR2	5	524
106	P41271	Neuroblastoma suppressor of tumorigenicity 1 (DAN domain family member 1) (Protein N03) (Zinc finger protein DAN)	NBL1	5	456
107	P12872	Promotilin [Cleaved into: Motilin; Motilin-associated peptide (MAP)]	MLN	5	430
108	P02760	Protein AMBP	AMBP	5	412
109	Q16288	NT-3 growth factor receptor (EC 2.7.10.1) (GP145-TrkC) (Trk-C) (Neurotrophic tyrosine kinase receptor type 3) (TrkC tyrosine kinase)	NTRK3	5	400
110	P29323	Ephrin type-B receptor 2 (EC 2.7.10.1)	EPHB2	5	347
111	Q9HAV5	Tumor necrosis factor receptor superfamily member 27 (X-linked ectodysplasin-A2 receptor) (EDA-A2 receptor)	EDA2R	5	342
112	P52209	6-phosphogluconate dehydrogenase, decarboxylating (EC 1.1.1.44)	PGD	5	321
113	O95998	Interleukin-18-binding protein (IL-18BP) (Tadekinig-alfa)	IL18BP	5	320
114	P22692	Insulin-like growth factor-binding protein 4	IGFBP4	5	312
115	P54826	Growth arrest-specific protein 1 (GAS-1)	GAS1	5	292
116	P28325	Cystatin-D	CST5	5	262
117	P00746	Complement factor D (EC 3.4.21.46) (Adipsin) (C3 convertase activator) (Properdin factor D)	CFD	5	237
118	P02743	Serum amyloid P-component	APCS	5	228
119	Q9HDB5	Neurexin-3-beta (Neurexin III-beta) [Cleaved into: Neurexin-3-beta, soluble form; Neurexin-3-beta, C-terminal fragment (NRXN3-CTF)]	NRXN3	5	171
120	Q12907	Vesicular integral-membrane protein VIP36 (Glycoprotein GP36b) (Lectin mannose-binding 2) (Vesicular integral-membrane protein 36) (VIP36)	LMAN2	5	166
121	Q9Y625	Glypican-6 [Cleaved into: Secreted glypican-6]	GPC6	5	165
122	P08174	Complement decay-accelerating factor (CD antigen CD55)	CD55	5	138
123	P22897	Macrophage mannose receptor 1 (MMR)	MRC1	5	134
124	O15041	Semaphorin-3E	SEMA3E	5	132
125	P00750	Tissue-type plasminogen activator (t-PA) (t-plasminogen activator)	PLAT	5	101
126	P18627	Lymphocyte activation gene 3 protein (LAG-3) (CD antigen CD223) [Cleaved into: Secreted lymphocyte activation gene 3 protein (sLAG-3)]	LAG3	5	93
127	Q9BWV1	Brother of CDO (Protein BOC)	BOC	5	82
128	P36955	Pigment epithelium-derived factor	SERPINF1	5	38
129	P15814	Immunoglobulin lambda-like polypeptide 1	IGLL1	5	34

130	Q9HDC9	Adipocyte plasma membrane-associated protein	APMAP	5	30
131	P07585	Decorin (Bone proteoglycan II) (PG-S2) (PG40)	DCN	5	21
132	Q99969	Retinoic acid receptor responder protein 2	RARRES2	5	21
133	P21860	Receptor tyrosine-protein kinase erbB-3 (EC 2.7.10.1) (Proto-oncogene-like protein c-ErbB-3) (Tyrosine kinase-type cell surface receptor HER3)	ERBB3	5	15
134	Q9NQ79	Cartilage acidic protein 1	CRTAC1	5	10
135	P22079	Lactoperoxidase	LPO	5	10
136	Q13261	Interleukin-15 receptor subunit alpha	IL15RA	5	3
137	P12931	Proto-oncogene tyrosine-protein kinase Src (EC 2.7.10.2) (Proto-oncogene c-Src) (pp60c-src) (p60-Src)	SRC	5	2
138	P04275	von Willebrand factor	VWF	4	1026
139	P02647	Apolipoprotein A-I	APOA1	4	383
140	P13796	Plastin-2	LCP1	4	120
141	P01008	Antithrombin-III	ANT3	4	52
142	P08253	72 kDa type IV collagenase	MMP2	4	1002
143	P13671	Complement component C6	C6	4	982
144	P35542	Serum amyloid A-4 protein	SAA4	4	959
145	Q9H4F8	SPARC-related modular calcium-binding protein 1 (Secreted modular calcium-binding protein 1) (SMOC-1)	SMOC1	4	894
146	P30043	Flavin reductase	BLVRB	4	885
147	P09228	Cystatin-SA	CST2	4	882
148	P05090	Apolipoprotein D	APOD	4	789
149	P02144	Myoglobin	MB	4	789
150	P14210	Hepatocyte growth factor (Hepatopoietin-A) (Scatter factor) (SF) [Cleaved into: Hepatocyte growth factor alpha chain; Hepatocyte growth factor beta chain]	HGF	4	784
151	P04083	Annexin A1 (Annexin I) (Annexin-1) (Calpactin II) (Calpactin-2) (Chromobindin-9) (Lipocortin I) (Phospholipase A2 inhibitory protein) (p35)	ANXA1	4	759
152	P42224	Signal transducer and activator of transcription 1-alpha/beta (Transcription factor ISGF-3 components p91/p84)	STAT1	4	757
153	P02788	Lactotransferrin	LTF	4	754
154	P02649	Apolipoprotein E	APOE	4	679
155	P35858	Insulin-like growth factor-binding protein complex acid labile subunit	IGFALS	4	666
156	Q01973	Inactive tyrosine-protein kinase transmembrane receptor ROR1 (Neurotrophic tyrosine kinase, receptor-related 1)	ROR1	4	646
157	Q9NZP8	Complement C1r subcomponent-like protein	C1RL	4	644
158	P30533	Alpha-2-macroglobulin receptor-associated protein	LRPAP1	4	617
159	Q01638	Interleukin-1 receptor-like 1	IL1RL1	4	601
160	Q15303	Receptor tyrosine-protein kinase erbB-4 (EC 2.7.10.1)	ERBB4	4	593
161	P02741	C-reactive protein	CRP	4	589
162	Q9UBT3	Dickkopf-related protein 4 (Dickkopf-4) (Dkk-4) (hDkk-4) [Cleaved into: Dickkopf-related protein 4 short form]	DKK4	4	558
163	Q86VB7	Scavenger receptor cysteine-rich type 1 protein M130 (Hemoglobin scavenger receptor) (CD antigen CD163) [Cleaved into: Soluble CD163 (sCD163)]	CD163	4	525
164	P00797	Renin	REN	4	523
165	O95631	Netrin-1 (Epididymis tissue protein Li 131P)	NTN1	4	501
166	Q7Z4V5	Hepatoma-derived growth factor-related protein 2 (HDGF-related protein 2) (HRP-2) (Hepatoma-derived growth factor 2) (HDGF-2)	HDGFL2	4	462
167	P01037	Cystatin-SN	CST1	4	442
168	P25311	Zinc- α 2-glycoprotein	AZGP1	4	421
169	P05164	Myeloperoxidase (MPO)	MPO	4	393
170	P08476	Inhibin beta A chain (Activin beta-A chain) (Erythroid differentiation protein) (EDF)	INHBA	4	386
171	P21815	Bone sialoprotein 2 (Bone sialoprotein II) (BSP II) (Cell-binding sialoprotein) (Integrin-binding sialoprotein)	IBSP	4	365
172	Q15768	Ephrin-B3 (EPH-related receptor transmembrane ligand ELK-L3) (EPH-related receptor tyrosine kinase ligand 8) (LERK-8)	EFNB3	4	362
173	Q16610	Extracellular matrix protein 1	ECM1	4	348
174	Q8IYJ0	PILR alpha-associated neural protein (PILR-associating neural protein) (Paired immunoglobulin-like type 2 receptor-associating neural protein)	PIANP	4	347
175	Q7Z3B1	Neuronal growth regulator 1 (IgLON family member 4)	NEGR1	4	338

176	P55735	Protein SEC13 homolog	SEC13	4	337
177	O43155	Leucine-rich repeat transmembrane protein FLRT2 (Fibronectin-like domain-containing leucine-rich transmembrane protein 2)	FLRT2	4	328
178	O15467	C-C motif chemokine 16 (Chemokine CC-4)	CCL16	4	327
179	P08571	Monocyte differentiation antigen CD14	CD14	4	327
180	Q9GZN4	Brain-specific serine protease 4 (BSSP-4) (EC 3.4.21.-) (Serine protease 22) (Serine protease 26) (Trypsin epsilon)	PRSS22	4	299
181	P18510	Interleukin-1 receptor antagonist protein (IL-1RN) (IL-1ra) (IRAP) (ICIL-1RA) (IL1 inhibitor) (Anakinra)	IL1RN	4	298
182	P18084	Integrin beta-5	ITGB5	4	289
183	P04179	Superoxide dismutase [Mn], mitochondrial	SOD2	4	289
184	Q16627	C-C motif chemokine 14 (Chemokine CC-1/CC-3) (HCC-1/HCC-3) (HCC-1(1-74)) (NCC-2) (Small-inducible cytokine A14) [Cleaved into: HCC-1(3-74); HCC-1(4-74); HCC-1(9-74)]	CCL14	4	262
185	Q9BYZ8	Regenerating islet-derived protein 4 (REG-4)	REG4	4	250
186	Q8NAC3	Interleukin-17 receptor C (IL-17 receptor C)	IL17RC	4	243
187	Q9BXY4	R-spondin-3 (Protein with TSP type-1 repeat) (hPWTSR) (Roof plate-specific spondin-3) (hRspo3) (Thrombospondin type-1 domain-containing protein 2)	RSPO3	4	237
188	P01133	Pro-epidermal growth factor (EGF) [Cleaved into: Epidermal growth factor (Urogastrone)]	EGF	4	226
189	Q9NPY3	Complement component C1q receptor	CD93	4	226
190	P01160	Natriuretic peptides A (CDD-ANF) (Cardiodilatin) (CDD) (Cardiodilatin-related peptide) (CDP) (Prepronatriodilatin) [Cleaved into: Atrial natriuretic factor (ANF) (Atrial natriuretic peptide) (ANP)]	NPPA	4	214
191	Q13219	Pappalysin-1 (EC 3.4.24.79) (Insulin-like growth factor-dependent IGF-binding protein 4 protease)	PAPPA	4	198
192	P27930	Interleukin-1 receptor type 2	IL1R2	4	196
193	Q03403	Trefoil factor 2 (Spasmodysin) (Spasmodytic polypeptide) (SP)	TFF2	4	194
194	Q14005	Pro-interleukin-16 [Cleaved into: Interleukin-16 (IL-16) (Lymphocyte chemoattractant factor) (LCF)]	IL16	4	188
195	P05413	Fatty acid-binding protein, heart	FABP3	4	176
196	P29622	Kallistatin	SERPINA4	4	164
197	Q13790	Apolipoprotein F	APOF	4	152
198	P15090	Fatty acid-binding protein, adipocyte	FABP4	4	151
199	P07858	Cathepsin B	CTSB	4	149
200	P09211	Glutathione S-transferase P (EC 2.5.1.18) (GST class-pi) (GSTP1-1)	GSTP1	4	148
201	P52803	Ephrin-A5 (AL-1) (EPH-related receptor tyrosine kinase ligand 7) (LERK-7)	EFNA5	4	142
202	Q9BXN1	Asporin (Periodontal ligament-associated protein 1) (PLAP-1)	ASPN	4	135
203	Q96D42	Hepatitis A virus cellular receptor 1 (HAVcr-1) (Kidney injury molecule 1) (KIM-1) (T-cell immunoglobulin and mucin domain-containing protein 1) (TIMD-1) (T-cell immunoglobulin mucin receptor 1) (TIM) (TIM-1) (T-cell membrane protein 1) (CD antigen CD365)	HAVCR1	4	132
204	P09341	Growth-regulated alpha protein (C-X-C motif chemokine 1)	CXCL1	4	127
205	Q9NR28	Diablo homolog, mitochondrial (Direct IAP-binding protein with low pI) (Second mitochondria-derived activator of caspase) (Smac)	DIABLO	4	126
206	P05452	Tetranectin	CLEC3B	4	123
207	P10145	Interleukin-8 (IL-8) (C-X-C motif chemokine 8)	CXCL8	4	121
208	Q96AP7	Endothelial cell-selective adhesion molecule	ESAM	4	112
209	Q9NZA1	Chloride intracellular channel protein 5	CLIC5	4	105
210	Q9UBR2	Cathepsin Z (EC 3.4.18.1) (Cathepsin P) (Cathepsin X)	CTSZ	4	96
211	P17174	Aspartate aminotransferase, cytoplasmic (cAspAT)	GOT1	4	84
212	Q8N729	Neuropeptide W (Preproprotein L8) (hPPL8)	NPW	4	76
213	P01137	Transforming growth factor beta-1 proprotein [Cleaved into: Latency-associated peptide (LAP); Transforming growth factor beta-1 (TGF-beta-1)]	TGFB1	4	67
214	P09237	Matrilysin	MMP7	4	65
215	P20231	Trypsin beta-2 (Trypsin-2) (EC 3.4.21.59) (Trypsin II)	TPSB2	4	64
216	P40121	Macrophage-capping protein	CAPG	4	62
217	Q9BRK3	Matrix remodeling-associated protein 8	MXRA8	4	62
218	P52823	Stanniocalcin-1 (STC-1)	STC1	4	60
219	O15335	Chondroadherin	CHAD	4	57

220	O94856	Neurofascin	NFASC	4	56
221	Q4LDE5	Sushi, von Willebrand factor type A, EGF and pentraxin domain-containing protein 1	SVEP1	4	52
222	Q8WVN6	Secreted and transmembrane protein 1 (Protein K-12)	SECTM1	4	49
223	Q1L6U9	Prostate-associated microseminoprotein (PC3-secreted microprotein)	MSMP	4	41
224	P60604	Ubiquitin-conjugating enzyme E2 G2 (EC 2.3.2.23) (E2 ubiquitin-conjugating enzyme G2) (Ubiquitin carrier protein G2) (Ubiquitin-protein ligase G2)	UBE2G2	4	41
225	P49908	Selenoprotein P	SELENOP	4	41
226	Q8WXD2	Secretogranin-3	SCG3	4	40
227	P51671	Eotaxin (C-C motif chemokine 11) (Eosinophil chemotactic protein) (Small-inducible cytokine A11)	CCL11	4	37
228	P42785	Lysosomal Pro-X carboxypeptidase	PRCP	4	37
229	Q8N2S1	Latent-transforming growth factor beta-binding protein 4 (LTBP-4)	LTBP4	4	35
230	P01225	Follitropin subunit beta (Follicle-stimulating hormone beta subunit) (FSH-B) (FSH-beta) (Follitropin beta chain)	FSHB	4	33
231	P35318	ADM	ADM	4	31
232	O95150	Tumor necrosis factor ligand superfamily member 15	TNFSF15	4	21
233	P29317	Ephrin type-A receptor 2 (EC 2.7.10.1) (Epithelial cell kinase) (Tyrosine-protein kinase receptor ECK)	EPHA2	4	20
234	Q9BUN1	Protein MENT (Methylated in normal thymocytes protein)	MENT	4	18
235	Q15113	Procollagen C-endopeptidase enhancer 1	PCOLCE	4	15
236	P09382	Galectin-1 (Gal-1)	LGALS1	4	12
237	Q9UK23	N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase (EC 3.1.4.45) (Mannose 6-phosphate-uncovering enzyme) (Phosphodiester alpha-GlcNAcase)	NAGPA	4	10
238	P01588	Erythropoietin (Epoetin)	EPO	4	7
239	P52798	Ephrin-A4 (EPH-related receptor tyrosine kinase ligand 4) (LERK-4)	EFNA4	4	7
240	Q9UM47	Neurogenic locus notch homolog protein 3	NOTCH3	4	5
241	P26447	Protein S100-A4 (Calvasculin) (Metastasin) (Placental calcium-binding protein) (Protein Mts1) (S100 calcium-binding protein A4)	S100A4	4	4
242	P39059	Collagen alpha-1(XV) chain [	COL15A1	4	2
243	Q9HB63	Netrin-4	NTN4	4	2
244	P01236	Prolactin	PRL	4	1
245	P05019	Insulin-like growth factor I	IGF1	4	1
246	Q12841	Follistatin-related protein 1	FSTL1	4	1
247	Q9NP99	Triggering receptor expressed on myeloid cells 1 (TREM-1) (Triggering receptor expressed on monocytes 1) (CD antigen CD354)	TREM1	4	0
248	O43927	C-X-C motif chemokine 13 (Angie) (B cell-attracting chemokine 1) (BCA-1) (B lymphocyte chemoattractant) (CXC chemokine BLC) (Small-inducible cytokine B13)	CXCL13	4	0
249	Q8TDY8	Immunoglobulin superfamily DCC subclass member 4	IGDCC4	4	0
250	Q9UJA9	Ectonucleotide pyrophosphatase/phosphodiesterase family member 5	ENPP5	4	0
251	Q9Y259	Choline/ethanolamine kinase	CHKB	4	0
252	P10451	Osteopontin	SPP1	3	829
253	P05231	Interleukin-6 (IL-6) (B-cell stimulatory factor 2) (BSF-2) (CTL differentiation factor) (CDF) (Hybridoma growth factor) (Interferon beta-2) (IFN-beta-2)	IL6	3	409
254	P02787	Serotransferrin	TRFE	3	713
255	P02790	Hemopexin	HEMO	3	651
256	P00740	Coagulation factor IX	FA9	3	596
257	P01023	Alpha-2-macroglobulin	A2MG	3	498
258	Q14126	Desmoglein-2	DSG2	3	205
259	P02771	Alpha-fetoprotein	AFP	3	1064
260	P14621	Acylphosphatase-2 (EC 3.6.1.7) (Acylphosphatase, muscle type isozyme) (Acylphosphate phosphohydrolase 2)	ACYP2	3	1052
261	P68366	Tubulin alpha-4A chain	TUBA4A	3	1027
262	P68400	Casein kinase II subunit alpha (CK II alpha) (EC 2.7.11.1)	CSNK2A1	3	1001
263	P35590	Tyrosine-protein kinase receptor Tie-1	TIE1	3	966
264	P13942	Collagen alpha-2	COL11A2	3	952
265	P27918	Properdin	CFP	3	952

266	P22626	Heterogeneous nuclear ribonucleoproteins A2/B1 (hnRNP A2/B1)	HNRNPA2B1	3	948
267	P07357	Complement component C8 alpha chain	C8A	3	946
268	P06753	Tropomyosin alpha-3 chain	TPM3	3	946
269	P18850	Cyclic AMP-dependent transcription factor ATF-6 alpha	ATF6	3	943
270	Q15389	Angiopoietin-1 (ANG-1)	ANGPT1	3	894
271	P62258	14-3-3 protein epsilon	YWHAE	3	892
272	Q01581	Hydroxymethylglutaryl-CoA synthase, cytoplasmic (HMG-CoA synthase) (EC 2.3.3.10) (3-hydroxy-3-methylglutaryl coenzyme A synthase)	HMGCS1	3	882
273	P00450	Ceruloplasmin	CERU	3	877
274	P35613	Basigin	BSG	3	852
275	P61201	COP9 signalosome complex subunit 2 (SGN2)	COPS2	3	805
276	P78310	Coxsackievirus and adenovirus receptor	CXADR	3	800
277	P61626	Lysozyme C	LYZ	3	789
278	P09972	Fructose-bisphosphate aldolase C	ALDOC	3	787
279	O15146	Muscle, skeletal receptor tyrosine-protein kinase (EC 2.7.10.1) (Muscle-specific tyrosine-protein kinase receptor) (MuSK) (Muscle-specific kinase receptor)	MUSK	3	767
280	P12111	Collagen alpha-3	COL6A3	3	759
281	P25787	Proteasome subunit alpha type-2 (EC 3.4.25.1) (Macropain subunit C3) (Multicatalytic endopeptidase complex subunit C3) (Proteasome component C3)	PSMA2	3	757
282	P78423	Fractalkine (C-X3-C motif chemokine 1) (CX3C membrane-anchored chemokine) (Neurotactin) (Small-inducible cytokine D1) [Cleaved into: Processed fractalkine]	CX3CL1	3	752
283	P12272	Parathyroid hormone-related protein (PTH-rP)	PTHLH	3	744
284	P23468	Receptor-type tyrosine-protein phosphatase delta	PTPRD	3	736
285	P54756	Ephrin type-A receptor 5	EPHA5	3	722
286	Q9H5V8	CUB domain-containing protein 1	CDCP1	3	716
287	P21333	Filamin-A	FLNA	3	707
288	P10912	Growth hormone receptor (GH receptor)	GHR	3	706
289	Q12913	Receptor-type tyrosine-protein phosphatase eta	PTPRJ	3	706
290	Q9UJ90	Potassium voltage-gated channel subfamily E regulatory beta subunit 5	KCNE5	3	666
291	Q08431	Lactadherin	MFGE8	3	657
292	P68402	Platelet-activating factor acetylhydrolase IB subunit beta	PAFAH1B2	3	656
293	P04040	Catalase	CAT	3	625
294	P06727	Apolipoprotein A-IV	APOA4	3	604
295	P02675	Fibrinogen beta chain	FIBB	3	598
296	P56159	GDNF family receptor alpha-1 (GDNF receptor alpha-1) (GDNFR-alpha-1) (GFR-alpha-1) (RET ligand 1) (TGF-beta-related neurotrophic factor receptor 1)	GFRA1	3	584
297	P24158	Myeloblastin	PRTN3	3	572
298	Q15365	Poly(rC)-binding protein 1 (Alpha-CP1) (Heterogeneous nuclear ribonucleoprotein E1) (hnRNP E1) (Nucleic acid-binding protein SUB2.3)	PCBP1	3	559
299	Q16548	Bcl-2-related protein A1	BCL2A1	3	557
300	P26927	Hepatocyte growth factor-like protein	MST1	3	533
301	P00748	Coagulation factor XIIa HC	F12	3	504
302	P05156	Complement factor I	CFI	3	500
303	P23280	Carbonic anhydrase 6	CA6	3	497
304	Q9UKG9	Peroxisomal carnitine O-octanoyltransferase (COT) (EC 2.3.1.137)	CROT	3	486
305	P53365	Arfaptin-2	ARFIP2	3	478
306	Q9H772	Gremlin-2 (Cysteine knot superfamily 1, BMP antagonist 2) (DAN domain family member 3) (Protein related to DAN and cerberus)	GREM2	3	474
307	O14931	Natural cytotoxicity triggering receptor 3	NCR3	3	474
308	P04278	Sex hormone-binding globulin	SHBG	3	453
309	P48061	Stromal cell-derived factor 1	CXCL12	3	440
310	P04004	Vitronectin	VTN	3	428
311	P05160	Coagulation factor XIII B chain	F13B	3	415

312	P50897	Palmitoyl-protein thioesterase 1 (PPT-1) (EC 3.1.2.22) (Palmitoyl-protein hydrolase 1)	PPT1	3	410
313	P45379	Troponin T, cardiac muscle (TnTc) (Cardiac muscle troponin T) (cTnT)	TNNT2	3	408
314	Q9UGM5	Fetuin-B	FETUB	3	398
315	P04070	Vitamin K-dependent protein C	PROC	3	396
316	P06702	Protein S100-A9	S100A9	3	381
317	P01764	Immunoglobulin heavy variable 3-23	IGHV3-23	3	367
318	P21709	Ephrin type-A receptor 1	EPHA1	3	360
319	P07359	Platelet glycoprotein Ib alpha chain	GP1BA	3	359
320	P06733	Alpha-enolase	ENO1	3	338
321	Q14019	Coactosin-like protein	COTL1	3	338
322	P06396	Gelsolin, isoform 1	GSN	3	330
323	P00749	Urokinase-type plasminogen activator	PLAU	3	318
324	P30040	Endoplasmic reticulum resident protein 29	ERP29	3	312
325	P16112	Aggrecan core protein	ACAN	3	310
326	O14793	Growth/differentiation factor 8	MSTN	3	308
327	P04406	Glyceraldehyde-3-phosphate dehydrogenase	GAPDH	3	302
328	P27797	Calreticulin	CALR	3	300
329	P11226	Mannose-binding protein C	MBL2	3	295
330	P06732	Creatine kinase M-type	CKM	3	286
331	O14625	C-X-C motif chemokine 11	CXCL11	3	279
332	P02776	Platelet factor 4	PF4	3	274
333	P07477	Serine protease 1	PRSS1	3	272
334	Q92583	C-C motif chemokine 17 (CC chemokine TARC) (Small-inducible cytokine A17) (Thymus and activation-regulated chemokine)	CCL17	3	267
335	O14594	Neurocan core protein	NCAN	3	266
336	O43915	Vascular endothelial growth factor D (VEGF-D) (c-Fos-induced growth factor) (FIGF)	VEGFD	3	265
337	O15123	Angiopoietin-2	ANGPT2	3	259
338	P40197	Platelet glycoprotein V	GP5	3	245
339	Q07654	Trefoil factor 3	TFF3	3	243
340	Q06033	Inter-alpha-trypsin inhibitor heavy chain H3	ITIH3	3	238
341	Q5VWK5	Interleukin-23 receptor	IL23R	3	238
342	Q9BXR6	Complement factor H-related protein 5	CFHR5	3	238
343	P03951	Coagulation factor XI	F11	3	234
344	Q11128	Alpha-(1,3)-fucosyltransferase 5 (EC 2.4.1.65) (Fucosyltransferase 5) (Fucosyltransferase V) (Fuc-TV) (FucT-V) (Galactoside 3-L-fucosyltransferase)	FUT5	3	233
345	Q04760	Lactoylglutathione lyase	GLO1	3	226
346	Q02223	Tumor necrosis factor receptor superfamily member 17	TNFRSF17	3	225
347	P16035	Metalloproteinase inhibitor 2	TIMP2	3	224
348	P36507	Dual specificity mitogen-activated protein kinase kinase 2	MAP2K2	3	224
349	P29597	Non-receptor tyrosine-protein kinase TYK2 (EC 2.7.10.2)	TYK2	3	218
350	P20810	Calpastatin	CAST	3	218
351	O00548	Delta-like protein 1 (Drosophila Delta homolog 1) (Delta1) (H-Delta-1)	DLL1	3	213
352	P04155	Trefoil factor 1	TFF1	3	213
353	Q92820	Gamma-glutamyl hydrolase	GGH	3	213
354	Q9BQR3	Serine protease 27 (EC 3.4.21.-) (Marapsin) (Pancreasin)	PRSS27	3	208
355	O00391	Sulfhydryl oxidase 1 (hQSOX) (EC 1.8.3.2) (Quiescin Q6)	QSOX1	3	202
356	P20711	Aromatic-L-amino-acid decarboxylase	DDC	3	199
357	P04196	Histidine-rich glycoprotein	HRG	3	196
358	P24821	Tenascin	TNC	3	196
359	P03952	Plasma kallikrein	KLKB1	3	190
360	Q96CG8	Collagen triple helix repeat-containing protein 1	CTHRC1	3	187
361	P22748	Carbonic anhydrase 4	CA4	3	185
362	P10720	Platelet factor 4 variant	PF4V1	3	184

363	Q13361	Microfibrillar-associated protein 5	MFAP5	3	183
364	P04217	α 1B-Glycoprotein	A1BG	3	167
365	P19320	Vascular cell adhesion protein 1	VCAM1	3	162
366	P07360	Complement component C8 gamma chain	C8G	3	155
367	Q8NBP7	Proprotein convertase subtilisin/kexin type 9	PCSK9	3	149
368	Q8NBS9	Thioredoxin domain-containing protein 5	TXNDC5	3	147
369	Q96PD4	Interleukin-17F (IL-17F) (Cytokine ML-1)	IL17F	3	143
370	Q13508	Ecto-ADP-ribosyltransferase 3	ART3	3	141
371	P04792	Heat shock protein beta-1	HSPB1	3	138
372	P21757	Macrophage scavenger receptor types I and II	MSR1	3	136
373	Q9UK55	Protein Z-dependent protease inhibitor (PZ-dependent protease inhibitor) (PZI) (Serpina A10)	SERPINA10	3	133
374	P16152	Carbonyl reductase [NADPH] 1	CBR1	3	128
375	P14543	Nidogen-1	NID1	3	127
376	Q15848	Adiponectin	ADIPOQ	3	126
377	Q8N3T6	Transmembrane protein 132C	TMEM132C	3	122
378	Q9BXJ4	Complement C1q tumor necrosis factor-related protein 3	C1QTNF3	3	121
379	Q92876	Kallikrein-6 (EC 3.4.21.-) (Neurosin) (Protease M) (SP59) (Serine protease 18) (Serine protease 9) (Zyme)	KLK6	3	115
380	Q6UXK2	Immunoglobulin superfamily containing leucine-rich repeat protein 2	ISLR2	3	113
381	P13500	C-C motif chemokine 2 (HC11) (Monocyte chemoattractant protein 1) (Monocyte chemotactic and activating factor) (MCAF) (Monocyte chemotactic protein 1) (MCP-1) (Monocyte secretory protein JE) (Small-inducible cytokine A2)	CCL2	3	110
382	Q86UD1	Out at first protein homolog	OAF	3	110
383	P05060	Secretogranin-1 (Chromogranin-B)	CHGB	3	104
384	Q8N6Q3	CD177 antigen	CD177	3	103
385	Q92765	Secreted frizzled-related protein 3 (sFRP-3)	FRZB	3	99
386	P78552	Interleukin-13 receptor subunit alpha-1	IL13RA1	3	95
387	P09238	Stromelysin-2	MMP10	3	95
388	Q9BX67	Junctional adhesion molecule C (JAM-C)	JAM3	3	91
389	P21741	Midkine	MDK	3	90
390	P54108	Cysteine-rich secretory protein 3	CRISP3	3	89
391	O14786	Neuropilin-1	NRP1	3	85
392	O76036	Natural cytotoxicity triggering receptor 1	NCR1	3	83
393	P67936	Tropomyosin alpha-4 chain	TPM4	3	83
394	P19957	Elafin	PI3	3	79
395	P03971	Muellerian-inhibiting factor	AMH	3	77
396	Q9UHG3	Prenylcysteine oxidase 1	PCYOX1	3	77
397	Q14DG7	Transmembrane protein 132B	TMEM132B	3	75
398	Q9UHD0	Interleukin-19	IL19	3	74
399	Q8WW52	Protein FAM151A	FAM151A	3	72
400	Q9NT22	EMILIN-3	EMILIN3	3	71
401	Q9HCU0	Endosialin	CD248	3	67
402	P13591	Neural cell adhesion molecule 1	NCAM1	3	65
403	P13987	CD59 glycoprotein (1F5 antigen) (20 kDa homologous restriction factor) (HRF-20) (HRF20) (MAC-inhibitory protein) (MAC-IP) (MEM43 antigen) (Membrane attack complex inhibition factor) (MACIF) (Membrane inhibitor of reactive lysis) (MIRL) (Protectin) (CD antigen CD59)	CD59	3	64
404	O95881	Thioredoxin domain-containing protein 12	TXNDC12	3	62
405	Q08380	Galectin-3-binding protein	LGALS3BP	3	62
406	O95185	Netrin receptor UNC5C (Protein unc-5 homolog 3) (Protein unc-5 homolog C)	UNC5C	3	60
407	P17213	Bactericidal permeability-increasing protein (BPI) (CAP 57)	BPI	3	57
408	P98172	Ephrin-B1 (EFL-3)	EFNB1	3	55
409	O00299	Chloride intracellular channel protein 1	CLIC1	3	54
410	O00182	Galectin-9 (Gal-9) (Ecalectin) (Tumor antigen HOM-HD-21)	LGALS9	3	50

411	P41159	Leptin (Obese protein) (Obesity factor)	LEP	3	45
412	Q9H2X3	C-type lectin domain family 4 member M	CLEC4M	3	38
413	Q96BQ1	Protein FAM3D	FAM3D	3	30
414	Q9NQ30	Endothelial cell-specific molecule 1 (ESM-1)	ESM1	3	29
415	P14780	Matrix metalloproteinase-9	MMP9	3	29
416	P52799	Ephrin-B2	EFNB2	3	27
417	O75636	Ficolin-3	FCN3	3	26
418	Q9H098	Protein FAM107B	FAM107B	3	26
419	O95445	Apolipoprotein M	APOM	3	25
420	Q08708	CMRF35-like molecule 6	CD300C	3	22
421	Q9NS68	Tumor necrosis factor receptor superfamily member 19 (TRADE) (Toxicity and JNK inducer)	TNFRSF19	3	19
422	Q16663	C-C motif chemokine 15 (Chemokine CC-2)	CCL15	3	18
423	Q9NRJ3	C-C motif chemokine 28 (Mucosae-associated epithelial chemokine) (MEC) (Protein CCK1) (Small-inducible cytokine A28)	CCL28	3	17
424	Q02246	Contactin-2	CNTN2	3	17
425	P80098	C-C motif chemokine 7 (Monocyte chemoattractant protein 3)	CCL7	3	16
426	P10147	C-C motif chemokine 3	CCL3	3	16
427	O00339	Matrilin-2	MATN2	3	16
428	Q6UX15	Layilin	LAYN	3	15
429	O43921	Ephrin-A2	EFNA2	3	15
430	P03973	Antileukoproteinase	SLPI	3	12
431	P01189	Pro-opiomelanocortin (POMC)	POMC	3	11
432	Q8TEU8	WAP, Kazal, immunoglobulin, Kunitz and NTR domain-containing protein 2	WFIKKN2	3	11
433	P03950	Angiogenin	ANG	3	10
434	P35442	Thrombospondin-2	THBS2	3	8
435	Q16832	Discoidin domain-containing receptor 2	DDR2	3	7
436	P01210	Proenkephalin-A [Cleaved into: Synenkephalin; Met-enkephalin]	PENK	3	6
437	P55774	C-C motif chemokine 18	CCL18	3	6
438	Q9BZR6	Reticulon-4 receptor	RTN4R	3	5
439	P01229	Lutropin subunit beta (Lutropin beta chain) (Luteinizing hormone subunit beta) (LH-B) (LSH-B) (LSH-beta)	LHB	3	4
440	P57087	Junctional adhesion molecule B (JAM-B) (Junctional adhesion molecule 2) (JAM-2) (Vascular endothelial junction-associated molecule) (VE- JAM) (CD antigen CD322)	JAM2	3	4
441	Q16585	Beta-sarcoglycan	SGCB	3	4
442	P26992	Ciliary neurotrophic factor receptor subunit alpha	CNTFR	3	3
443	P58499	Protein FAM3B	FAM3B	3	3
444	Q6WN34	Chordin-like protein 2	CHRDL2	3	3
445	P0DJ18	Serum amyloid A-1 and A-2 proteins	SAA1	3	1
446	Q9NZU0	Leucine-rich repeat transmembrane protein FLRT3 (Fibronectin-like domain-containing leucine-rich transmembrane protein 3)	FLRT3	3	1
447	Q7LFX5	Carbohydrate sulfotransferase 15	CHST15	3	1
448	P80108	Phosphatidylinositol-glycan-specific phospholipase D	GPLD1	3	0
449	P43652	Afamin	AFM	3	0
450	O95390	Growth/differentiation factor 11 (GDF-11) (Bone morphogenetic protein 11) (BMP-11)	GDF11	3	0
451	Q07021	Complement component 1 Q subcomponent-binding protein, mitochondrial	C1QBP	3	0
452	Q969Z4	Tumor necrosis factor receptor superfamily member 19L (Receptor expressed in lymphoid tissues)	RELT	3	0
453	Q13740	CD166 antigen (Activated leukocyte cell adhesion molecule) (CD antigen CD166)	ALCAM	3	0
454	Q24JP5	Transmembrane protein 132A (HSPA5-binding protein 1)	TMEM132A	3	0
455	P0CG47	Polyubiquitin-B [Cleaved into: Ubiquitin]	UBB	3	0
456	Q14956	Transmembrane glycoprotein NMB (Hematopoietic growth factor inducible neurokinin-1 type)	GPNNMB	3	0
457	O76076	CCN family member 5	CCN5	3	0
458	P0DMV8	Heat shock 70 kDa protein 1A	HSPA1A	3	0

459	P48023	Tumor necrosis factor ligand superfamily member 6	FASLG	3	0
460	Q03591	Complement factor H-related protein 1	CFHR1	3	0
461	Q5DX21	Immunoglobulin superfamily member 11	IGSF11	3	0
462	Q6UXV0	GDNF family receptor alpha-like	GFRAL	3	0
463	Q8WWK9	Cytoskeleton-associated protein 2	CKAP2	3	0
464	Q96PD2	Discoidin, CUB and LCCL domain-containing protein 2	DCBLD2	3	0
465	Q8NEV9	Interleukin-27 subunit alpha	IL27	2	672
466	P09603	Macrophage colony-stimulating factor 1 (CSF-1) (M-CSF) (MCSF) (Lanimostim) [Cleaved into: Processed macrophage colony-stimulating factor 1]	CSF1	2	23
467	P02766	Transthyretin	TTR	2	705
468	P01009	Alpha-1-antitrypsin	A1AT	2	600
469	P01876	Immunoglobulin heavy constant alpha 1	IGHA1	2	590
470	P09871	Complement C1s subcomponent	C1S	2	550
471	P43251	Biotinidase	BTD	2	502
472	P02763	Alpha-1-acid glycoprotein 1	A1AG1	2	482
473	P05543	Thyroxine-binding globulin	THBG	2	419
474	P01857	Immunoglobulin heavy constant gamma 1	IGHG1	2	52
475	Q15796	Mothers against decapentaplegic homolog 2	SMAD2	2	25
476	Q9GZX9	Twisted gastrulation protein homolog 1	TWSG1	2	0
477	P04080	Cystatin-B	CSTB	2	1063
478	P07196	Neurofilament light polypeptide	NEFL	2	1046
479	P11047	Laminin subunit gamma-1 (Laminin B2 chain)	LAMC1	2	1003
480	P06734	Low affinity immunoglobulin epsilon Fc receptor	FCER2	2	1002
481	P0DN86	Choriogonadotropin subunit beta 3 (Choriogonadotropin subunit beta) (CG-beta) (Chorionic gonadotropin chain beta)	CGB3	2	996
482	P07942	Laminin subunit beta-1 (Laminin B1 chain)	LAMB1	2	993
483	P63167	Dynein light chain 1, cytoplasmic	DYNLL1	2	978
484	P62979	Ubiquitin-ribosomal protein eS31 fusion protein	RPS27A	2	972
485	P60484	Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN (EC 3.1.3.16) (EC 3.1.3.48) (EC 3.1.3.67) (Mutated in multiple advanced cancers 1) (Phosphatase and tensin homolog)	PTEN	2	968
486	P06681	Complement C2	C2	2	964
487	P40967	Melanocyte protein PMEL (ME20-M)	PMEL	2	963
488	P07478	Trypsin-2	PRSS2	2	962
489	P21583	Kit ligand (Mast cell growth factor) (MGF) (Stem cell factor) (SCF) (c-Kit ligand) [Cleaved into: Soluble KIT ligand (sKITLG)]	KITLG	2	945
490	P0C0L4	Complement C4 γ chain	C4A	2	944
491	O43765	Small glutamine-rich tetratricopeptide repeat-containing protein alpha	SGTA	2	926
492	P12830	Cadherin-1	CDH1	2	918
493	Q01105	Protein SET	SET	2	912
494	P37840	Alpha-synuclein (Non-A beta component of AD amyloid) (Non-A4 component of amyloid precursor) (NACP)	SNCA	2	882
495	P30101	Protein disulfide-isomerase A3	PDIA3	2	876
496	Q7Z408	CUB and sushi domain-containing protein 2 (CUB and sushi multiple domains protein 2)	CSMD2	2	866
497	P63261	Actin, cytoplasmic 2	ACTG1	2	852
498	Q99727	Metalloproteinase inhibitor 4 (Tissue inhibitor of metalloproteinases 4) (TIMP-4)	TIMP4	2	840
499	P08833	Insulin-like growth factor-binding protein 1	IGFBP1	2	837
500	Q99538	Legumain (EC 3.4.22.34) (Asparaginyl endopeptidase) (Protease, cysteine 1)	LGMN	2	829
501	P52566	Rho GDP-dissociation inhibitor 2 (Rho GDI 2) (Ly-GDI) (Rho-GDI beta)	ARHGDIB	2	821
502	P14415	Sodium/potassium-transporting ATPase subunit beta-2	ATP1B2	2	816
503	Q14982	Opioid-binding protein/cell adhesion molecule	OPCML	2	816
504	Q13882	Protein-tyrosine kinase 6 (EC 2.7.10.2) (Breast tumor kinase) (Tyrosine-protein kinase BRK)	PTK6	2	811
505	P08138	Tumor necrosis factor receptor superfamily member 16 (Gp80-LNGFR)	NGFR	2	802
506	P98066	Tumor necrosis factor-inducible gene 6 protein	TNFAIP6	2	760

507	P06744	Glucose-6-phosphate isomerase	GPI	2	740
508	Q9NNX6	CD209 antigen	CD209	2	738
509	P30041	Peroxioredoxin-6	PRDX6	2	730
510	Q99731	C-C motif chemokine 19	CCL19	2	730
511	P16619	C-C motif chemokine 3-like 1	CCL3L1	2	727
512	P31994	Low affinity immunoglobulin gamma Fc region receptor II-b	FCGR2B	2	716
513	P55957	BH3-interacting domain death agonist (p22 BID)	BID	2	707
514	O00212	Rho-related GTP-binding protein RhoD	RHOD	2	706
515	P07900	Heat shock protein HSP 90-alpha	HSP90AA1	2	704
516	P62736	Actin, aortic smooth muscle	ACTA2	2	704
517	P49763	Placenta growth factor	PGF	2	703
518	Q9UPZ6	Thrombospondin type-1 domain-containing protein 7A	THSD7A	2	694
519	P28799	Progranulin	GRN	2	686
520	O43707	Alpha-actinin-4	ACTN4	2	682
521	P16109	P-selectin	SELP	2	676
522	P01859	Immunoglobulin heavy constant gamma 2	IGHG2	2	673
523	P07148	Fatty acid-binding protein, liver (Fatty acid-binding protein 1) (Liver-type fatty acid-binding protein) (L-FABP)	FABP1	2	660
524	Q92484	Cyclic GMP-AMP phosphodiesterase SMPDL3A	SMPDL3A	2	660
525	P0C0L5	Complement C4 β chain	C4B	2	645
526	P63241	Eukaryotic translation initiation factor 5A-1 (eIF-5A-1) (eIF-5A1) (Eukaryotic initiation factor 5A isoform 1) (eIF-5A) (Rev-binding factor) (eIF-4D)	EIF5A	2	641
527	P0CG37	Cryptic protein (Cryptic family protein 1)	CFC1	2	637
528	P02794	Ferritin heavy chain	FTH1	2	635
529	P01871	Immunoglobulin heavy constant mu	IGHM	2	622
530	O75822	Eukaryotic translation initiation factor 3 subunit J (eIF3j)	EIF3J	2	622
531	P01860	Immunoglobulin heavy constant gamma 3	IGHG3	2	622
532	P14136	Glial fibrillary acidic protein	GFAP	2	622
533	P00558	Phosphoglycerate kinase 1	PGK1	2	621
534	Q15485	Ficolin-2	FCN2	2	619
535	P17655	Calpain-2 catalytic subunit	CAPN2	2	616
536	O75556	Mammaglobin-B (Lacryglobin) (Lipophilin-C)	SCGB2A1	2	615
537	P01880	Immunoglobulin heavy constant delta	IGHD	2	612
538	P02652	Apolipoprotein A-II precursor	APOA2	2	608
539	O75829	Leukocyte cell-derived chemotaxin 1	CNMD	2	608
540	P78380	Oxidized low-density lipoprotein receptor 1	OLR1	2	607
541	P46459	Vesicle-fusing ATPase (EC 3.6.4.6)	NSF	2	600
542	Q9Y490	Talin-1	TLN1	2	600
543	O14763	Tumor necrosis factor receptor superfamily member 10B	TNFRSF10B	2	594
544	P46108	Adapter molecule crk	CRK	2	593
545	P27169	Serum paraoxonase/arylesterase 1	PON1	2	590
546	P11142	Heat shock cognate 71 kDa protein	HSPA8	2	585
547	P01019	Angiotensinogen	ANGT	2	584
548	P12955	Xaa-Pro dipeptidase	PEPD	2	576
549	P99999	Cytochrome c	CYCS	2	573
550	P08603	Complement factor H	CFH	2	564
551	P61960	Ubiquitin-fold modifier 1	UFM1	2	562
552	P07948	Tyrosine-protein kinase Lyn	LYN	2	561
553	P46109	Crk-like protein	CRKL	2	559
554	P02792	Ferritin light chain	FTL	2	559
555	P02775	Platelet basic protein	CXCL7	2	557
556	P07998	Ribonuclease pancreatic (EC 4.6.1.18) (HP-RNase) (RIB-1) (RNase UpI-1) (Ribonuclease 1) (RNase 1) (Ribonuclease A) (RNase A)	RNASE1	2	556
557	O95817	BAG family molecular chaperone regulator 3	BAG3	2	555
558	Q04917	14-3-3 protein eta	YWHAH	2	545

559	P02750	Leucine-rich alpha-2-glycoprotein	LRG1	2	543
560	Q13201	Multimerin-1	MMRN1	2	543
561	O43278	Kunitz-type protease inhibitor 1	SPINT1	2	540
562	P00736	Complement C1r subcomponent	C1R	2	535
563	P05546	Heparin cofactor II	SERPIND1	2	533
564	O95954	Formimidoyltransferase-cyclodeaminase	FTCD	2	532
565	Q9NXA8	NAD-dependent protein deacylase sirtuin-5, mitochondrial (EC 2.3.1.-) (Regulatory protein SIR2 homolog 5) (SIR2-like protein 5)	SIRT5	2	521
566	P06850	Corticoliberin	CRH	2	512
567	Q16667	Cyclin-dependent kinase inhibitor 3	CDKN3	2	509
568	O43555	Progonadoliberin-2	GNRH2	2	507
569	P08581	Hepatocyte growth factor receptor	MET	2	506
570	P26572	Alpha-1,3-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase	MGAT1	2	497
571	Q13651	Interleukin-10 receptor subunit alpha	IL10RA	2	497
572	P36980	Complement factor H-related protein 2	CFHR2	2	495
573	Q9H4I2	Zinc fingers and homeoboxes protein 3 (Triple homeobox protein 1) (Zinc finger and homeodomain protein 3)	ZHX3	2	488
574	P05387	Large ribosomal subunit protein P2	RPLP2	2	488
575	Q13247	Serine/arginine-rich splicing factor 6	SRSF6	2	484
576	P12259	Coagulation factor V	F5	2	483
577	P02749	β 2-Glycoprotein I	APOH	2	481
578	P29353	SHC-transforming protein 1 (SHC-transforming protein 3)	SHC1	2	481
579	P42830	C-X-C motif chemokine 5	CXCL5	2	479
580	P25391	Laminin subunit alpha-1	LAMA1	2	477
581	O95497	Pantetheinase	VNN1	2	473
582	P61981	14-3-3 protein gamma	YWHAG	2	472
583	P17538	Chymotrypsinogen B	CTRB1	2	464
584	O15444	C-C motif chemokine 25	CCL25	2	462
585	O95866	Megakaryocyte and platelet inhibitory receptor G6b (Protein G6b)	MPIG6B	2	454
586	O95810	Caveolae-associated protein 2	CAVIN2	2	452
587	Q96DU3	SLAM family member 6	SLAMF6	2	451
588	Q03167	Transforming growth factor beta receptor type 3	TGFBR3	2	448
589	P01593	Immunoglobulin kappa variable 1D-33	IGKV1D-33	2	444
590	Q9BT88	Synaptotagmin-11 (Synaptotagmin XI) (SytxI)	SYT11	2	437
591	P02745	Complement C1q subcomponent subunit A	C1QA	2	436
592	P05106	Integrin beta-3	ITGB3	2	436
593	Q9Y240	C-type lectin domain family 11 member A	CLEC11A	2	433
594	Q99075	Proheparin-binding EGF-like growth factor	HBEGF	2	427
595	P14550	Aldo-keto reductase family 1 member A1	AKR1A1	2	426
596	P55001	Microfibrillar-associated protein 2	MFAP2	2	425
597	Q16539	Mitogen-activated protein kinase 14 (MAP kinase 14)	MAPK14	2	421
598	P80370	Protein delta homolog 1	DLK1	2	413
599	O00241	Signal-regulatory protein beta-1	SIRPB1	2	409
600	Q96PJ5	Fc receptor-like protein 4	FCRL4	2	405
601	P00338	L-lactate dehydrogenase A chain	LDHA	2	396
602	P27348	14-3-3 protein theta	YWHAQ	2	396
603	P13686	Tartrate-resistant acid phosphatase type 5 (TR-AP) (EC 3.1.3.2) (Tartrate-resistant acid ATPase) (TrATPase) (Type 5 acid phosphatase)	ACP5	2	392
604	Q92730	Rho-related GTP-binding protein Rho6	RND1	2	392
605	P01780	Immunoglobulin heavy variable 3-7	IGHV3-7	2	391
606	P60568	Interleukin-2	IL2	2	386
607	O00472	RNA polymerase II elongation factor ELL2	ELL2	2	383
608	P17252	Protein kinase C alpha type (PKC-A) (PKC-alpha) (EC 2.7.11.13)	PRKCA	2	364
609	P09493	Tropomyosin alpha-1 chain	TPM1	2	363
610	Q9BWP8	Collectin-11	COLEC11	2	360

611	P31947	14-3-3 protein sigma	SFN	2	359
612	P08567	Pleckstrin	PLEK	2	358
613	P20783	Neurotrophin-3	NTF3	2	358
614	Q14767	Latent-transforming growth factor beta-binding protein 2	LTBP2	2	358
615	P25786	Proteasome subunit alpha type-1	PSMA1	2	354
616	Q9BUD6	Spondin-2	SPON2	2	353
617	Q15166	Serum paraoxonase/lactonase 3	PON3	2	351
618	P22223	Cadherin-3	CDH3	2	350
619	O43300	Leucine-rich repeat transmembrane neuronal protein 2	LRRTM2	2	349
620	Q2Y0W8	Electroneutral sodium bicarbonate exchanger 1	SLC4A8	2	348
621	P16435	NADPH--cytochrome P450 reductase	POR	2	345
622	Q92743	Serine protease HTRA1	HTRA1	2	345
623	Q9Y5K2	Kallikrein-4	KLK4	2	343
624	P07384	Calpain-1 catalytic subunit	CAPN1	2	341
625	P19174	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase gamma-1	PLCG1	2	340
626	Q9P0G3	Kallikrein-14	KLK14	2	340
627	Q96SL4	Glutathione peroxidase 7 (GPx-7) (GSHPx-7) (EC 1.11.1.9) (CL683)	GPX7	2	339
628	P07358	Complement component C8 beta chain	C8B	2	336
629	P19022	Cadherin-2	CDH2	2	336
630	P05154	Plasma serine protease inhibitor	SERPINA5	2	335
631	P03956	Interstitial collagenase (EC 3.4.24.7)	MMP1	2	334
632	P49755	Transmembrane emp24 domain-containing protein 10	TMED10	2	329
633	P05451	Lithostathine-1-alpha	REG1A	2	328
634	P12724	Eosinophil cationic protein	RNASE3	2	327
635	P15169	Carboxypeptidase N catalytic chain	CPN1	2	326
636	Q8IUB2	WAP four-disulfide core domain protein 3 (Putative protease inhibitor WAP14)	WFDC3	2	321
637	P34096	Ribonuclease 4	RNASE4	2	319
638	Q49AH0	Cerebral dopamine neurotrophic factor (ARMET-like protein 1) (Conserved dopamine neurotrophic factor)	CDNF	2	315
639	P37802	Transgelin-2	TAGLN2	2	314
640	P63104	14-3-3 protein zeta/delta	YWHAZ	2	314
641	P24557	Thromboxane-A synthase (TXA synthase) (TXS) (EC 5.3.99.5) (Cytochrome P450 5A1)	TBXAS1	2	302
642	Q92794	Histone acetyltransferase KAT6A	KAT6A	2	302
643	Q9Y3B8	Oligoribonuclease, mitochondrial	REXO2	2	301
644	P04626	Receptor tyrosine-protein kinase erbB-2	ERBB2	2	300
645	Q9NZQ7	Programmed cell death 1 ligand 1	CD274	2	300
646	Q96N21	AP-4 complex accessory subunit Tepsin	TEPSIN	2	299
647	Q9UMF0	Intercellular adhesion molecule 5	ICAM5	2	295
648	O00187	Mannan-binding lectin serine protease 2	MASP2	2	292
649	P78333	Glypican-5 [Cleaved into: Secreted glypican-5]	GPC5	2	286
650	P15586	N-acetylglucosamine-6-sulfatase (EC 3.1.6.14) (Glucosamine-6-sulfatase) (G6S)	GNS	2	284
651	P05109	Protein S100-A8	S100A8	2	284
652	P50552	Vasodilator-stimulated phosphoprotein	VASP	2	283
653	Q9Y5Y7	Lymphatic vessel endothelial hyaluronic acid receptor 1	LYVE1	2	278
654	P35475	Alpha-L-iduronidase	IDUA	2	276
655	Q6P5S2	Protein LEG1 homolog	LEG1	2	276
656	P14902	Indoleamine 2,3-dioxygenase 1	IDO1	2	275
657	Q16651	Prostasin	PRSS8	2	275
658	P07195	L-lactate dehydrogenase B chain	LDHB	2	273
659	Q9HAT2	Sialate O-acetyltransferase (EC 3.1.1.53) (H-Lse) (Sialic acid-specific 9-O-acetyltransferase)	SIAE	2	270
660	Q07011	Tumor necrosis factor receptor superfamily member 9	TNFRSF9	2	265
661	Q9NZ52	ADP-ribosylation factor-binding protein GGA3 (Golgi-localized, gamma ear-containing, ARF-binding protein 3)	GGA3	2	264

662	P23083	Immunoglobulin heavy variable 1-2	IGHV1-2	2	264
663	P42574	Caspase-3	CASP3	2	257
664	Q9HOR8	Gamma-aminobutyric acid receptor-associated protein-like 1	GABARAPL1	2	253
665	P84095	Rho-related GTP-binding protein RhoG	RHOG	2	252
666	P12814	Alpha-actinin-1	ACTN1	2	252
667	P56851	Epididymal secretory protein E3-beta	EDDM3B	2	247
668	P55072	Transitional endoplasmic reticulum ATPase	VCP	2	243
669	P31350	Ribonucleoside-diphosphate reductase subunit M2	RRM2	2	242
670	Q14624	Inter- α -trypsin inhibitor HC	ITIH4	2	234
671	P98179	RNA-binding protein 3 (RNA-binding motif protein 3) (RNPL)	RBM3	2	224
672	Q16820	Meprin A subunit beta	MEP1B	2	224
673	P50461	Cysteine and glycine-rich protein 3 (Cardiac LIM protein) (Cysteine-rich protein 3) (CRP3) (LIM domain protein, cardiac) (Muscle LIM protein)	CSRP3	2	223
674	Q9H6Z4	Ran-binding protein 3 (RanBP3)	RANBP3	2	220
675	P10599	Thioredoxin	TXN	2	220
676	P55010	Eukaryotic translation initiation factor 5	EIF5	2	212
677	Q9NXW2	DnaJ homolog subfamily B member 12	DNAJB12	2	211
678	P15941	Mucin-1	MUC1	2	211
679	P05161	Ubiquitin-like protein ISG15	ISG15	2	210
680	Q9BQ10	Allograft inflammatory factor 1-like	AIF1L	2	208
681	P33908	Mannosyl-oligosaccharide 1,2-alpha-mannosidase IA	MAN1A1	2	203
682	P80162	C-X-C motif chemokine 6	CXCL6	2	202
683	Q13813	Spectrin alpha chain, non-erythrocytic 1	SPTAN1	2	201
684	P35520	Cystathionine beta-synthase (EC 4.2.1.22) (Beta-thionase) (Serine sulphydrase)	CBS	2	199
685	Q8N2K1	Ubiquitin-conjugating enzyme E2 J2	UBE2J2	2	199
686	O43294	Transforming growth factor beta-1-induced transcript 1 protein	TGFB1I1	2	198
687	O00451	GDNF family receptor alpha-2	GFRA2	2	196
688	Q9UK85	Dickkopf-like protein 1	DKKL1	2	195
689	P07339	Cathepsin D	CTSD	2	193
690	Q8WTQ1	Beta-defensin 104	DEFB104A	2	192
691	Q01844	RNA-binding protein EWS (EWS oncogene) (Ewing sarcoma breakpoint region 1 protein)	EWSR1	2	190
692	P26951	Interleukin-3 receptor subunit alpha (IL-3 receptor subunit alpha) (IL-3R subunit alpha) (IL-3R-alpha) (IL-3RA) (CD antigen CD123)	IL3RA	2	188
693	Q15517	Corneodesmosin (S protein)	CDSN	2	186
694	P08519	Apolipoprotein(a)	APOA	2	184
695	P15248	Interleukin-9	IL9	2	183
696	O95571	Persulfide dioxygenase ETHE1, mitochondrial	ETHE1	2	182
697	P06213	Insulin receptor	INSR	2	181
698	P43489	Tumor necrosis factor receptor superfamily member 4	TNFRSF4	2	181
699	O75083	WD repeat-containing protein 1	WDR1	2	177
700	P20936	Ras GTPase-activating protein 1	RASA1	2	176
701	P34130	Neurotrophin-4	NTF4	2	175
702	Q8NHW4	C-C motif chemokine 4-like	CCL4L1	2	174
703	P22894	Neutrophil collagenase	MMP8	2	173
704	P28908	Tumor necrosis factor receptor superfamily member 8	TNFRSF8	2	173
705	P21781	Fibroblast growth factor 7 (FGF-7) (Heparin-binding growth factor 7) (HBGF-7) (Keratinocyte growth factor)	FGF7	2	171
706	Q6YHK3	CD109 antigen	CD109	2	170
707	P56470	Galectin-4 (Gal-4)	LGALS4	2	165
708	P40763	Signal transducer and activator of transcription 3 (Acute-phase response factor)	STAT3	2	163
709	Q9Y337	Kallikrein-5	KLK5	2	154
710	O60486	Plexin-C1	PLXNC1	2	153
711	P28906	Hematopoietic progenitor cell antigen CD34	CD34	2	153
712	P32004	Neural cell adhesion molecule L1	L1CAM	2	152

713	Q6UWV6	Ectonucleotide pyrophosphatase/phosphodiesterase family member 7	ENPP7	2	150
714	P12544	Granzyme A	GZMA	2	149
715	Q12884	Prolyl endopeptidase FAP	FAP	2	149
716	Q9BX93	Group XIIB secretory phospholipase A2-like protein	PLA2G12B	2	144
717	Q86UX2	Inter-alpha-trypsin inhibitor heavy chain H5	ITIH5	2	143
718	Q93084	Sarcoplasmic/endoplasmic reticulum calcium ATPase 3	ATP2A3	2	142
719	P00488	Coagulation factor XIII A chain	F13A1	2	141
720	Q9GZZ8	Extracellular glycoprotein lacritin	LACRT	2	139
721	Q6UWY0	Arylsulfatase K (ASK) (EC 3.1.6.-) (Telethon sulfatase)	ARSK	2	138
722	Q86UX7	Fermitin family homolog 3	FERMT3	2	138
723	O75347	Tubulin-specific chaperone A	TBCA	2	137
724	Q86SF2	N-acetylgalactosaminyltransferase 7	GALNT7	2	135
725	Q96LW7	Caspase recruitment domain-containing protein 19	CARD19	2	135
726	Q9UIB8	SLAM family member 5	CD84	2	134
727	Q9HCK4	Roundabout homolog 2	ROBO2	2	128
728	P16284	Platelet endothelial cell adhesion molecule	PECAM1	2	125
729	Q16778	Histone H2B type 2-E	H2BC21	2	125
730	Q86VH4	Leucine-rich repeat transmembrane neuronal protein 4	LRRTM4	2	125
731	Q9HD43	Receptor-type tyrosine-protein phosphatase H	PTPRH	2	125
732	Q86UL8	Membrane-associated guanylate kinase, WW and PDZ domain-containing protein 2	MAGI2	2	124
733	Q8N9N2	Activating signal cointegrator 1 complex subunit 1 (ASC-1 complex subunit p50) (Trip4 complex subunit p50)	ASCC1	2	123
734	Q9H3T3	Semaphorin-6B	SEMA6B	2	123
735	O75821	Eukaryotic translation initiation factor 3 subunit G (eIF3g)	EIF3G	2	121
736	P55058	Phospholipid transfer protein	PLTP	2	120
737	Q15555	Microtubule-associated protein RP/EB family member 2	MAPRE2	2	114
738	P48357	Leptin receptor	LEPR	2	112
739	P60953	Cell division control protein 42 homolog	CDC42	2	112
740	Q01995	Transgelin	TAGLN	2	112
741	P01042	Kininogen-1	KNG1	2	110
742	O76083	High affinity cGMP-specific 3',5'-cyclic phosphodiesterase 9A	PDE9A	2	109
743	O75015	Low affinity immunoglobulin gamma Fc region receptor III-B	FCGR3B	2	108
744	P11021	Endoplasmic reticulum chaperone BiP	HSPA5	2	108
745	O75173	A disintegrin and metalloproteinase with thrombospondin motifs 4	ADAMTS4	2	103
746	P15428	15-hydroxyprostaglandin dehydrogenase [NAD(+)] (15-PGDH)	HPGD	2	97
747	P22749	Granulysin	GNLY	2	96
748	Q30KQ4	Beta-defensin 116	DEFB116	2	96
749	Q9UBN6	Tumor necrosis factor receptor superfamily member 10D	TNFRSF10D	2	95
750	O43866	CD5 antigen-like	CD5L	2	91
751	O60259	Kallikrein-8	KLK8	2	90
752	Q9BZM4	UL16-binding protein 3	ULBP3	2	85
753	P02774	Vitamin D-binding protein	GC	2	82
754	P11684	Uteroglobin	SCGB1A1	2	81
755	Q16629	Serine/arginine-rich splicing factor 7 (Splicing factor 9G8) (Splicing factor, arginine/serine-rich 7)	SRSF7	2	80
756	Q14247	Src substrate cortactin	CTTN	2	80
757	Q9ULX7	Carbonic anhydrase 14	CA14	2	80
758	P26038	Moesin	MSN	2	78
759	P04211	Immunoglobulin lambda variable 7-43	IGLV7-43	2	77
760	P14927	Cytochrome b-c1 complex subunit 7	UQCRB	2	76
761	Q8WZ42	Titin	TTN	2	75
762	P08887	Interleukin-6 receptor subunit alpha	IL6R	2	72
763	Q96QR1	Secretoglobin family 3A member 1	SCGB3A1	2	72
764	Q9Y514	Protocadherin alpha-C2 (PCDH-alpha-C2)	PCDHAC2	2	71

765	Q9ULT6	E3 ubiquitin-protein ligase ZNRF3	ZNRF3	2	71
766	Q8IXB1	DnaJ homolog subfamily C member 10	DNAJC10	2	68
767	O14836	Tumor necrosis factor receptor superfamily member 13B	TNFRSF13B	2	67
768	P35609	Alpha-actinin-2	ACTN2	2	67
769	P10909	Clusterin	CLU	2	66
770	O43424	Glutamate receptor ionotropic, delta-2	GRID2	2	66
771	O00533	Neural cell adhesion molecule L1-like protein	CHL1	2	65
772	Q13510	Acid ceramidase (AC) (ACDase) (Acid CDase) (EC 3.5.1.23)	ASAHI	2	64
773	P11686	Surfactant protein C	SFTPC	2	64
774	P22792	Carboxypeptidase N subunit 2	CPN2	2	62
775	P09326	CD48 antigen	CD48	2	62
776	Q9NQ76	Matrix extracellular phosphoglycoprotein	MEPE	2	62
777	P50895	Basal cell adhesion molecule	BCAM	2	60
778	Q06481	Amyloid-like protein 2 (APLP-2) (APPH) (Amyloid protein homolog) (CDEI box-binding protein) (CDEBP)	APLP2	2	58
779	P61278	Somatostatin (Growth hormone release-inhibiting factor) [Cleaved into: Somatostatin-28; Somatostatin-14 (SST-14); Neuronostatin (NST)]	SST	2	56
780	P20023	Complement receptor type 2	CR2	2	56
781	P55259	Pancreatic secretory granule membrane major glycoprotein GP2	GP2	2	55
782	Q8TE58	A disintegrin and metalloproteinase with thrombospondin motifs 15	ADAMTS15	2	54
783	P13521	Secretogranin-2	SCG2	2	52
784	P55056	Apolipoprotein C-IV	APOC4	2	49
785	O75339	Cartilage intermediate layer protein 1 (CILP-1)	CILP	2	49
786	Q8TE57	A disintegrin and metalloproteinase with thrombospondin motifs 16	ADAMTS16	2	47
787	P10619	Lysosomal protective protein	CTSA	2	46
788	O76096	Cystatin-F	CST7	2	41
789	P28482	Mitogen-activated protein kinase 1 (MAP kinase 1)	MAPK1	2	40
790	P02786	Transferrin receptor protein 1	TFRC	2	40
791	Q9NVD7	Alpha-parvin (Actopaxin) (CH-ILKBP)	PARVA	2	39
792	P25189	Myelin protein P0 (Myelin peripheral protein) (MPP) (Myelin protein zero)	MPZ	2	38
793	P01270	Parathyroid hormone	PTH	2	38
794	Q9GZV9	Fibroblast growth factor 23	FGF23	2	37
795	P28074	Proteasome subunit beta type-5	PSMB5	2	36
796	Q92575	UBX domain-containing protein 4	UBXN4	2	36
797	P02818	Osteocalcin	BGLAP	2	35
798	Q8TBM8	DnaJ homolog subfamily B member 14	DNAJB14	2	35
799	P45983	Mitogen-activated protein kinase 8	MAPK8	2	34
800	Q9NS85	Carbonic anhydrase-related protein 10	CA10	2	33
801	Q02383	Semenogelin-2 (Semenogelin II) (SGII)	SEMG2	2	33
802	O00469	Procollagen-lysine,2-oxoglutarate 5-dioxygenase 2	PLOD2	2	32
803	Q9ULZ9	Matrix metalloproteinase-17	MMP17	2	32
804	P09486	SPARC (Basement-membrane protein 40) (BM-40) (Osteonectin) (ON) (Secreted protein acidic and rich in cysteine)	SPARC	2	31
805	Q14C87	Transmembrane protein 132D	TMEM132D	2	30
806	Q8TEY5	Cyclic AMP-responsive element-binding protein 3-like protein 4 (cAMP-responsive element-binding protein 3-like protein 4)	CREB3L4	2	29
807	P48059	LIM and senescent cell antigen-like-containing domain protein 1	LIMS1	2	29
808	Q16762	Thiosulfate sulfurtransferase	TST	2	27
809	P11597	Cholesteryl ester transfer protein	CETP	2	26
810	Q9NRN5	Olfactomedin-like protein 3 (HNOEL-iso) (hOLF44)	OLFML3	2	25
811	P07307	Asialoglycoprotein receptor 2	ASGR2	2	25
812	Q14498	RNA-binding protein 39	RBM39	2	25
813	P16930	Fumarylacetoacetase	FAH	2	22
814	O95479	GDH/6PGL endoplasmic bifunctional protein [Includes: Hexose-6-phosphate dehydrogenase]	H6PD	2	21
815	P78504	Protein jagged-1	JAG1	2	19

816	Q9H6B4	CXADR-like membrane protein	CLMP	2	18
817	A6NGN9	IgLON family member 5	IGLON5	2	18
818	P15515	Histatin-1	HTN1	2	18
819	Q9Y2Y8	Proteoglycan 3	PRG3	2	18
820	P42127	Agouti-signaling protein (ASP) (Agouti switch protein)	ASIP	2	17
821	O60234	Glia maturation factor gamma	GMFG	2	17
822	P13501	C-C motif chemokine 5 (EoCP)	CCL5	2	15
823	P42892	Endothelin-converting enzyme 1 (ECE-1) (EC 3.4.24.71)	ECE1	2	15
824	P31146	Coronin-1A	CORO1A	2	15
825	Q6P387	Uncharacterized protein C16orf46	C16orf46	2	15
826	Q9UBU3	Appetite-regulating hormone	GHRL	2	15
827	Q8IW41	MAP kinase-activated protein kinase 5	MAPKAPK5	2	14
828	Q9H6X2	Anthrax toxin receptor 1	ANTXR1	2	14
829	Q9Y2G5	GDP-fucose protein O-fucosyltransferase 2	POFUT2	2	14
830	O00585	C-C motif chemokine 21	CCL21	2	13
831	Q5JZY3	Ephrin type-A receptor 10	EPHA10	2	12
832	Q15256	Receptor-type tyrosine-protein phosphatase R	PTPRR	2	11
833	Q6Q788	Apolipoprotein A-V	APOA5	2	10
834	Q6ZQQ6	WD repeat-containing protein 87	WDR87	2	10
835	Q99829	Copine-1 (Chromobindin 17) (Copine I)	CPNE1	2	9
836	O95407	Tumor necrosis factor receptor superfamily member 6B	TNFRSF6B	2	9
837	P01566	Interferon alpha-10	IFNA10	2	9
838	Q13093	Platelet-activating factor acetylhydrolase	PLA2G7	2	9
839	Q96LR4	Chemokine-like protein TAFA-4	TAFA4	2	9
840	P11717	Cation-independent mannose-6-phosphate receptor	IGF2R	2	8
841	P43403	Tyrosine-protein kinase ZAP-70 (EC 2.7.10.2)	ZAP70	2	8
842	A6NH11	Glycolipid transfer protein domain-containing protein 2	GLTPD2	2	7
843	Q15738	Sterol-4-alpha-carboxylate 3-dehydrogenase, decarboxylating	NSDHL	2	7
844	Q16674	Melanoma-derived growth regulatory protein	MIA	2	7
845	P01275	Glucagon	GCG	2	5
846	P27361	Mitogen-activated protein kinase 3 (MAP kinase 3)	MAPK3	2	5
847	Q99435	Protein kinase C-binding protein NELL2	NELL2	2	5
848	Q9ULV4	Coronin-1C	CORO1C	2	5
849	Q96PD5	N-acetylmuramoyl-L-alanine amidase	PGLYRP2	2	4
850	P43490	Nicotinamide phosphoribosyltransferase	NAMPT	2	4
851	Q8N695	Sodium-coupled monocarboxylate transporter 1	SLC5A8	2	4
852	A0PJX4	Protein shisa-3 homolog	SHISA3	2	4
853	Q6Y288	Beta-1,3-glucosyltransferase	B3GLCT	2	4
854	Q8N6N7	Acyl-CoA-binding domain-containing protein 7	ACBD7	2	4
855	Q9UK99	F-box only protein 3	FBXO3	2	4
856	P33151	Cadherin-5	CDH5	2	3
857	O43405	Cochlin	COCH	2	2
858	O15197	Ephrin type-B receptor 6	EPHB6	2	1
859	P20807	Calpain-3	CAPN3	2	1
860	P35030	Trypsin-3	PRSS3	2	1
861	P55083	Microfibril-associated glycoprotein 4	MFAP4	2	1
862	P59666	Neutrophil defensin 3	DEFA3	2	1
863	Q5VXI9	Lipase member N	LIPN	2	1
864	Q99706	Killer cell immunoglobulin-like receptor 2DL4	KIR2DL4	2	1
865	P80511	Protein S100-A12	S100A12	2	0
866	Q08722	Leukocyte surface antigen CD47	CD47	2	0
867	O94907	Dickkopf-related protein 1 (	DKK1	2	0
868	A1E959	Odontogenic ameloblast-associated protein	ODAM	2	0

869	A6NHS7	MANSC domain-containing protein 4	MANSC4	2	0
870	C9JPQ9	Fibrinogen gamma chain	FGG	2	0
871	O00264	Membrane-associated progesterone receptor component 1	PGRMC1	2	0
872	O14944	Proepiregulin [Cleaved into: Epiregulin	EREG	2	0
873	O75880	Protein SCO1 homolog, mitochondrial	SCO1	2	0
874	P01569	Interferon alpha-5	IFNA5	2	0
875	P01574	Interferon beta	IFNB1	2	0
876	P0C0S5	Histone H2A.Z	H2AZ1	2	0
877	P0CG05	Immunoglobulin lambda constant 2	IGLC2	2	0
878	P12036	Neurofilament heavy polypeptide	NEFH	2	0
879	P16671	Platelet glycoprotein 4	CD36	2	0
880	P43631	Killer cell immunoglobulin-like receptor 2DS2	KIR2DS2	2	0
881	Q10588	ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 2	BST1	2	0
882	Q3ZCW2	Galectin-related protein	LGALS1	2	0
883	Q5VY43	Platelet endothelial aggregation receptor 1	PEAR1	2	0
884	Q6P4A8	Phospholipase B-like 1	PLBD1	2	0
885	Q8NFK8	Torsin-1A-interacting protein 2	TOR1AIP2	2	0
886	Q8NI22	Multiple coagulation factor deficiency protein 2	MCFD2	2	0
887	Q8TD33	Secretoglobin family 1C member 1	SCGB1C1	2	0
888	Q96PQ0	VPS10 domain-containing receptor SorCS2	SORCS2	2	0
889	Q9GZX6	Interleukin-22	IL22	2	0
890	Q9Y5Q6	Insulin-like peptide INSL5	INSL5	2	0
891	Q9Y6J6	Potassium voltage-gated channel subfamily E member 2	KCNE2	2	0
892	Q9Y6N7	Roundabout homolog 1	ROBO1	2	0
893	P04085	Platelet-derived growth factor subunit A	PDGFA	1	876
894	P01127	Platelet-derived growth factor subunit B	PDGFB	1	533
895	O00626	C-C motif chemokine 22	CCL22	1	326
896	Q9UEF7	Klotho	KL	1	12
897	P02753	Retinol-binding protein 4	RET4	1	706
898	P08709	Coagulation factor VII	F7	1	460
899	P01834	Immunoglobulin kappa constant	IGKC	1	388
900	P02747	Complement C1q subcomponent subunit C	C1QC	1	347
901	P02656	Apolipoprotein C-III	APOC3	1	283
902	P06276	Cholinesterase	CHLE	1	214
903	P11279	Lysosome-associated membrane glycoprotein 1 *	LAMP1	1	170
904	P07225	Vitamin K-dependent protein S	PROS	1	86
905	P00751	Complement factor B	CFAB	1	85
906	Q96IY4	Carboxypeptidase B2	CPB2	1	71
907	Q14574	Desmocollin-3	DSC3	1	22
908	P60763	Ras-related C3 botulinum toxin substrate 3	RAC3	1	1114
909	P63267	Actin, gamma-enteric smooth muscle	ACTG2	1	1110
910	P63279	SUMO-conjugating enzyme UBC9 (EC 2.3.2.-)	UBE2I	1	1082
911	P62805	Histone H4	H4C1	1	1082
912	O00151	PDZ and LIM domain protein 1	PDLIM1	1	1076
913	P04430	Immunoglobulin kappa variable 1-16	IGKV1-16	1	1061
914	P00387	NADH-cytochrome b5 reductase 3	CYB5R3	1	1034
915	P11169	Solute carrier family 2, facilitated glucose transporter member 3	SLC2A3	1	1027
916	Q9BQG2	Peroxisomal NADH pyrophosphatase NUDT12 (EC 3.6.1.22) (Nucleoside diphosphate-linked moiety X motif 12) (Nudix motif 12)	NUDT12	1	1025
917	P68363	Tubulin alpha-1B chain	TUBA1B	1	1022
918	Q75N90	Fibrillin-3 [Cleaved into: Fibrillin-3 C-terminal peptide]	FBN3	1	1016
919	P68371	Tubulin beta-4B chain	TUBB4B	1	1013
920	P32121	Beta-arrestin-2	ARRB2	1	1012
921	P62993	Growth factor receptor-bound protein 2	GRB2	1	971

922	P14649	Myosin light chain 6B	MYL6B	1	965
923	P23560	Brain-derived neurotrophic factor	BDNF	1	962
924	P62306	Small nuclear ribonucleoprotein F	SNRPF	1	949
925	P07738	Bisphosphoglycerate mutase (BPGM)	BPGM	1	947
926	P08684	Cytochrome P450 3A4	CYP3A4	1	945
927	P30520	Adenylosuccinate synthetase isozyme 2	ADSS2	1	940
928	P09172	Dopamine beta-hydroxylase	DBH	1	938
929	P10828	Thyroid hormone receptor beta	THRB	1	934
930	P62081	Small ribosomal subunit protein eS7	RPS7	1	934
931	P27352	Cobalamin binding intrinsic factor	CBLIF	1	933
932	P55075	Fibroblast growth factor 8 (FGF-8)	FGF8	1	928
933	P62820	Ras-related protein Rab-1A	RAB1A	1	922
934	P08758	Annexin A5	ANXA5	1	910
935	P05937	Calbindin	CALB1	1	908
936	P26436	Acrosomal protein SP-10	ACRV1	1	908
937	Q9Y4C0	Neurexin-3	NRXN3	1	902
938	Q05315	Galectin-10	CLC	1	900
939	P22681	E3 ubiquitin-protein ligase CBL (EC 2.3.2.27)	CBL	1	897
940	P37837	Transaldolase	TALDO1	1	890
941	P60709	Actin, cytoplasmic 1	ACTB	1	889
942	P23352	Anosmin-1 (Adhesion molecule-like X-linked) (Kallmann syndrome protein)	ANOS1	1	888
943	P31948	Stress-induced-phosphoprotein 1 (STI1)	STIP1	1	885
944	P13929	Beta-enolase	ENO3	1	882
945	P22352	Glutathione peroxidase 3	GPX3	1	878
946	P49336	Cyclin-dependent kinase 8	CDK8	1	876
947	P68104	Elongation factor 1-alpha 1	EEF1A1	1	871
948	Q13822	Autotaxin	ENPP2	1	867
949	Q14749	Glycine N-methyltransferase	GNMT	1	860
950	P61160	Actin-related protein 2	ACTR2	1	856
951	O14960	Leukocyte cell-derived chemotaxin-2	LECT2	1	854
952	P53674	Beta-crystallin B1	CRYBB1	1	852
953	P52943	Cysteine-rich protein 2	CRIP2	1	851
954	P48736	Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit gamma isoform	PIK3CG	1	850
955	P18428	Lipopolysaccharide-binding protein	LBP	1	847
956	P10600	Transforming growth factor beta-3 proprotein [Cleaved into: Latency-associated peptide	TGFB3	1	845
957	P06400	Retinoblastoma-associated protein	RB1	1	844
958	P04062	Lysosomal acid glucosylceramidase	GBA1	1	843
959	P04440	HLA class II histocompatibility antigen, DP beta 1 chain	HLA-DPB1	1	841
960	P00492	Hypoxanthine-guanine phosphoribosyltransferase	HPRT1	1	840
961	P09668	Pro-cathepsin H [Cleaved into: Cathepsin H mini chain; Cathepsin H	CTSH	1	840
962	P09529	Inhibin beta B chain	INHBB	1	839
963	P07988	Pulmonary surfactant-associated protein B	SFTPB	1	838
964	P47929	Galectin-7	LGALS7	1	836
965	P69905	Hemoglobin subunit alpha	HBA1	1	830
966	P30085	UMP-CMP kinase	CMPK1	1	830
967	O75106	Amine oxidase [copper-containing] 2	AOC2	1	827
968	P05000	Interferon omega-1	IFNW1	1	826
969	P51452	Dual specificity protein phosphatase 3	DUSP3	1	818
970	P61224	Ras-related protein Rap-1b	RAP1B	1	816
971	P61247	Small ribosomal subunit protein eS1	RPS3A	1	816
972	P05412	Transcription factor Jun	JUN	1	814
973	Q9Y508	E3 ubiquitin-protein ligase RNF114	RNF114	1	814

974	P62873	Guanine nucleotide-binding protein G	GNB1	1	812
975	P31949	Protein S100-A11 (Calgizzarin)	S100A11	1	811
976	P61026	Ras-related protein Rab-10	RAB10	1	809
977	P40261	Nicotinamide N-methyltransferase	NNMT	1	804
978	P62937	Peptidyl-prolyl cis-trans isomerase A	PPIA	1	804
979	P04843	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1	RPN1	1	801
980	Q08334	Interleukin-10 receptor subunit beta	IL10RB	1	801
981	P61158	Actin-related protein 3	ACTR3	1	799
982	Q99895	Chymotrypsin-C	CTRC	1	799
983	P14770	Platelet glycoprotein IX	GP9	1	798
984	P25942	Tumor necrosis factor receptor superfamily member 5	CD40	1	794
985	Q9H3H3	UPF0696 protein C11orf68 (Basophilic leukemia-expressed protein Bles03) (Protein p5326)	C11orf68	1	791
986	P04180	Phosphatidylcholine-sterol acyltransferase	LCAT	1	788
987	O60507	Protein-tyrosine sulfotransferase 1	TPST1	1	788
988	P47756	F-actin-capping protein subunit beta	CAPZB	1	785
989	P63098	Calcineurin subunit B type 1	PPP3R1	1	785
990	Q06418	Tyrosine-protein kinase receptor TYRO3	TYRO3	1	785
991	P24863	Cyclin-C (SRB11 homolog) (hSRB11)	CCNC	1	783
992	Q8WUW1	Protein BRICK1	BRK1	1	783
993	ADM	#H/Δ	#H/Δ	1	782
994	Q07065	Cytoskeleton-associated protein 4	CKAP4	1	780
995	P13497	Bone morphogenetic protein 1	BMP1	1	776
996	P16234	Platelet-derived growth factor receptor alpha	PDGFRA	1	775
997	P05771	Protein kinase C beta type (PKC-B) (PKC-beta) (EC 2.7.11.13)	PRKCB	1	772
998	Q9UKY0	Prion-like protein doppel	PRND	1	772
999	Q13316	Dentin matrix acidic phosphoprotein 1	DMP1	1	769
1000	P20701	Integrin alpha-L	ITGAL	1	766
1001	P17181	Interferon alpha/beta receptor 1	IFNAR1	1	765
1002	O15144	Actin-related protein 2/3 complex subunit 2	ARPC2	1	758
1003	P26718	NKG2-D type II integral membrane protein	KLRK1	1	758
1004	P19404	NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial	NDUFV2	1	756
1005	P61916	NPC intracellular cholesterol transporter 2 (Epididymal secretory protein E1)	NPC2	1	753
1006	P36888	Receptor-type tyrosine-protein kinase FLT3	FLT3	1	749
1007	P61266	Syntaxin-1B	STX1B	1	748
1008	P00441	Superoxide dismutase [Cu-Zn]	SOD1	1	744
1009	P62158	Calmodulin-2	CALM2	1	744
1010	O00292	Left-right determination factor 2	LEFTY2	1	742
1011	P68871	Hemoglobin subunit beta	HBB	1	740
1012	O14558	Heat shock protein beta-6	HSPB6	1	732
1013	P07437	Tubulin beta chain	TUBB	1	732
1014	Q8NBZ7	UDP-glucuronic acid decarboxylase 1	UXS1	1	727
1015	P60880	Synaptosomal-associated protein 25	SNAP25	1	726
1016	Q00341	Vigilin (High density lipoprotein-binding protein) (HDL-binding protein)	HDLBP	1	722
1017	P09466	Glycodelin	PAEP	1	722
1018	Q04756	Hepatocyte growth factor activator	HGFAC	1	722
1019	Q92692	Nectin-2 (Herpes virus entry mediator B)	NECTIN2	1	721
1020	P12270	Nucleoprotein TPR	TPR	1	720
1021	Q17RW2	Collagen alpha-1	COL24A1	1	719
1022	Q9ULW5	Ras-related protein Rab-26	RAB26	1	719
1023	P58658	Protein eva-1 homolog C	EVA1C	1	713
1024	Q04828	Aldo-keto reductase family 1 member C1	AKR1C1	1	712
1025	P12034	Fibroblast growth factor 5	FGF5	1	709
1026	Q01518	Adenylyl cyclase-associated protein 1	CAP1	1	707

1027	Q92823	Neuronal cell adhesion molecule	NRCAM	1	701
1028	Q16644	MAP kinase-activated protein kinase 3	MAPKAPK3	1	697
1029	P07737	Profilin-1	PFN1	1	694
1030	P47755	F-actin-capping protein subunit alpha-2	CAPZA2	1	692
1031	O95319	CUGBP Elav-like family member 2	CELF2	1	690
1032	P01854	Immunoglobulin heavy constant epsilon	IGHE	1	690
1033	P11362	Fibroblast growth factor receptor 1	FGFR1	1	689
1034	P30086	Phosphatidylethanolamine-binding protein 1	PEBP1	1	687
1035	Q6IE38	Serine protease inhibitor Kazal-type 14	SPINK14	1	686
1036	P00995	Serine protease inhibitor Kazal-type 1	SPINK1	1	684
1037	Q00526	Cyclin-dependent kinase 3	CDK3	1	684
1038	Q14112	Nidogen-2	NID2	1	683
1039	P84157	Matrix-remodeling-associated protein 7	MXRA7	1	682
1040	P13224	Platelet glycoprotein Ib beta chain	GP1BB	1	680
1041	P43629	Killer cell immunoglobulin-like receptor 3DL1	KIR3DL1	1	680
1042	O00159	Unconventional myosin-Ic	MYO1C	1	678
1043	P07204	Thrombomodulin	THBD	1	675
1044	Q9Y275	Tumor necrosis factor ligand superfamily member 13B	TNFSF13B	1	674
1045	Q7Z4W2	Lysozyme-like protein 2	LYZL2	1	673
1046	Q9BT09	Protein canopy homolog 3	CNPY3	1	671
1047	P42331	Rho GTPase-activating protein 25 (Rho-type GTPase-activating protein 25)	ARHGAP25	1	670
1048	Q13642	Four and a half LIM domains protein 1	FHL1	1	669
1049	P20138	Myeloid cell surface antigen CD33	CD33	1	666
1050	P40189	Interleukin-6 receptor subunit beta	IL6ST	1	666
1051	Q07079	Insulin-like growth factor-binding protein 5	Igfbp5	1	666
1052	P50579	Methionine aminopeptidase 2	METAP2	1	663
1053	P06309	Immunoglobulin kappa variable 2D-28	IGKV2D-28	1	659
1054	P02814	Submaxillary gland androgen-regulated protein 3B	SMR3B	1	657
1055	Q9UQP3	Tenascin-N	TNN	1	655
1056	P52758	2-iminobutanoate/2-iminopropanoate deaminase	RIDA	1	654
1057	P68431	Histone H3.1	H3C1	1	654
1058	P19429	Troponin I, cardiac muscle	TNNI3	1	652
1059	Q14257	Reticulocalbin-2	RCN2	1	650
1060	P36871	Phosphoglucomutase-1	PGM1	1	648
1061	P31151	Protein S100-A7	S100A7	1	646
1062	P63000	Ras-related C3 botulinum toxin substrate 1	RAC1	1	646
1063	P0C0P6	Neuropeptide S	NPS	1	645
1064	P40926	Malate dehydrogenase, mitochondrial	MDH2	1	644
1065	Q00532	Cyclin-dependent kinase-like 1	CDKL1	1	643
1066	P04141	Granulocyte-macrophage colony-stimulating factor	CSF2	1	642
1067	P01861	Immunoglobulin heavy constant gamma 4	IGHG4	1	635
1068	P12314	High affinity immunoglobulin gamma Fc receptor I	FCGR1A	1	635
1069	Q99832	T-complex protein 1 subunit eta	CCT7	1	635
1070	Q16661	Guanylate cyclase activator 2B [Cleaved into: Guanylate cyclase C-activating peptide 2	GUCA2B	1	632
1071	P09104	Gamma-enolase	ENO2	1	631
1072	O60494	Cubilin	CUBN	1	631
1073	P17813	Endoglin	ENG	1	631
1074	P55040	GTP-binding protein GEM (GTP-binding mitogen-induced T-cell protein) (RAS-like protein KIR)	GEM	1	628
1075	P01877	Immunoglobulin heavy constant alpha 2	IGHA2	1	627
1076	Q15648	Mediator of RNA polymerase II transcription subunit 1	MED1	1	626
1077	O43791	Speckle-type POZ protein	SPOP	1	625
1078	O75354	Ectonucleoside triphosphate diphosphohydrolase 6	ENTPD6	1	625

1079	P27469	G0/G1 switch protein 2	G0S2	1	624
1080	P28290	Protein ITPRID2	ITPRID2	1	624
1081	P00739	Haptoglobin-related protein	HPR	1	621
1082	P43320	Beta-crystallin B2	CRYBB2	1	621
1083	P17022	Zinc finger protein 18	ZNF18	1	620
1084	P04629	High affinity nerve growth factor receptor	NTRK1	1	620
1085	B9A064	Immunoglobulin lambda-like polypeptide 5	IGLL5	1	618
1086	Q06141	Regenerating islet-derived protein 3-alpha	REG3A	1	615
1087	Q9UHN6	Inactive cell surface hyaluronidase CEMIP2	CEMIP2	1	615
1088	P16471	Prolactin receptor	PRLR	1	608
1089	P50991	T-complex protein 1 subunit delta	CCT4	1	607
1090	P20839	Inosine-5'-monophosphate dehydrogenase 1	IMPDH1	1	605
1091	P63302	Selenoprotein W	SELENOW	1	605
1092	Q13253	Noggin	NOG	1	605
1093	Q15742	NGFI-A-binding protein 2	NAB2	1	605
1094	Q14213	Interleukin-27 subunit beta	EBI3	1	604
1095	Q92888	Rho guanine nucleotide exchange factor 1	ARHGEF1	1	603
1096	Q05D32	CTD small phosphatase-like protein 2	CTDSPL2	1	602
1097	O00170	AH receptor-interacting protein	AIP	1	601
1098	O00587	Beta-1,3-N-acetylglucosaminyltransferase manic fringe	MFNG	1	600
1099	Q14012	Calcium/calmodulin-dependent protein kinase type 1	CAMK1	1	599
1100	P36776	Lon protease homolog, mitochondrial	LONP1	1	596
1101	Q16769	Glutaminy-peptide cyclotransferase	QPCT	1	594
1102	P49746	Thrombospondin-3	THBS3	1	593
1103	P08590	Myosin light chain 3	MYL3	1	589
1104	P62424	Large ribosomal subunit protein eL8	RPL7A	1	586
1105	Q7Z4W1	L-xylulose reductase	DCXR	1	586
1106	Q9NR55	Basic leucine zipper transcriptional factor ATF-like 3	BATF3	1	586
1107	A5YKK6	CCR4-NOT transcription complex subunit 1	CNOT1	1	585
1108	P20774	Mimecan	OGN	1	585
1109	O00175	C-C motif chemokine 24	CCL24	1	584
1110	O43684	Mitotic checkpoint protein BUB3	BUB3	1	583
1111	P00451	Coagulation factor VIII	F8	1	583
1112	P13489	Ribonuclease inhibitor	RNH1	1	579
1113	Q9UHX3	Adhesion G protein-coupled receptor E2	ADGRE2	1	578
1114	Q29980	MHC class I polypeptide-related sequence B	MICB	1	576
1115	P00918	Carbonic anhydrase 2	CA2	1	574
1116	A0M8Q6	Immunoglobulin lambda constant 7	IGLC7	1	572
1117	C9JV77	Alpha-2-HS-glycoprotein	AHSG	1	570
1118	Q9BY67	Cell adhesion molecule 1	CADM1	1	568
1119	P62328	Thymosin beta-4	TMSB4X	1	567
1120	Q9P1W8	Signal-regulatory protein gamma	SIRPG	1	566
1121	P11465	Pregnancy-specific beta-1-glycoprotein 2	PSG2	1	565
1122	Q9ULD2	Microtubule-associated tumor suppressor 1	MTUS1	1	565
1123	P05114	Non-histone chromosomal protein HMG-14	HMG1	1	563
1124	P51460	Insulin-like 3	INSL3	1	563
1125	O75144	ICOS ligand	ICOSLG	1	560
1126	Q08188	Protein-glutamine gamma-glutamyltransferase E	TGM3	1	560
1127	Q9BUZ4	TNF receptor-associated factor 4	TRAF4	1	559
1128	Q92911	Sodium/iodide cotransporter	SLC5A5	1	558
1129	Q6UW15	Regenerating islet-derived protein 3-gamma	REG3G	1	556
1130	Q99497	Parkinson disease protein 7	PARK7	1	555
1131	P52907	F-actin-capping protein subunit alpha-1	CAPZA1	1	552

1132	O15037	Protein KHNYN	KHNYN	1	549
1133	P61628	Lysozyme C	LYZ	1	549
1134	P17301	Integrin alpha-2	ITGA2	1	548
1135	P15086	Carboxypeptidase B	CPB1	1	547
1136	Q13426	DNA repair protein XRCC4	XRCC4	1	547
1137	P61204	ADP-ribosylation factor 3	ARF3	1	541
1138	O75962	Triple functional domain protein	TRIO	1	535
1139	P48735	Isocitrate dehydrogenase [NADP], mitochondrial	IDH2	1	533
1140	Q8N5S9	Calcium/calmodulin-dependent protein kinase kinase 1	CAMKK1	1	533
1141	Q9NZC2	Triggering receptor expressed on myeloid cells 2	TREM2	1	533
1142	P04220 P01871	Ig mu heavy chain disease protein and Ig mu chain C	IGHM	1	532
1143	Q8N8Q8	Cytochrome c oxidase assembly protein COX18, mitochondrial	COX18	1	531
1144	P31371	Fibroblast growth factor 9	FGF9	1	530
1145	P98161	Polycystin-1	PKD1	1	530
1146	Q13478	Interleukin-18 receptor 1	IL18R1	1	528
1147	Q14563	Semaphorin-3A	SEMA3A	1	524
1148	Q8IZP7	Heparan-sulfate 6-O-sulfotransferase 3	HS6ST3	1	517
1149	Q6ZMJ4	Interleukin-34	IL34	1	516
1150	P50591	Tumor necrosis factor ligand superfamily member 10	TNFSF10	1	515
1151	P52797	Ephrin-A3	EFNA3	1	515
1152	Q14626	Interleukin-11 receptor subunit alpha	IL11RA	1	514
1153	Q14145	Kelch-like ECH-associated protein 1	KEAP1	1	513
1154	Q8IZF2	Adhesion G protein-coupled receptor F5	ADGRF5	1	512
1155	P19224	UDP-glucuronosyltransferase 1-6	UGT1A6	1	512
1156	Q96GD4	Aurora kinase B	AURKB	1	510
1157	Q9NVM6	DnaJ homolog subfamily C member 17	DNAJC17	1	506
1158	Q14943	Killer cell immunoglobulin-like receptor 3DS1	KIR3DS1	1	506
1159	P08637	Low affinity immunoglobulin gamma Fc region receptor III-A	FCGR3A	1	504
1160	P54727	UV excision repair protein RAD23 homolog B	RAD23B	1	499
1161	P51888	Prolargin	PRELP	1	498
1162	Q14392	Transforming growth factor beta activator LRRC32	LRRC32	1	498
1163	Q92576	PHD finger protein 3	PHF3	1	498
1164	Q9H7M9	V-type immunoglobulin domain-containing suppressor of T-cell activation	VSIR	1	498
1165	P18136	Immunoglobulin kappa variable 3-20	IGKV3-20	1	495
1166	P18206	Vinculin	VCL	1	495
1167	Q13753	Laminin subunit gamma-2	LAMC2	1	495
1168	O60243	Heparan-sulfate 6-O-sulfotransferase 1	HS6ST1	1	492
1169	Q99593	T-box transcription factor TBX5	TBX5	1	492
1170	P01621	Immunoglobulin kappa variable 3-20	IGKV3-20	1	491
1171	P01624	Immunoglobulin kappa variable 3-15	IGKV3-15	1	490
1172	P04207	Immunoglobulin kappa variable 3-15	IGKV3-15	1	490
1173	P02458	Collagen alpha-1	COL2A1	1	489
1174	P48060	Glioma pathogenesis-related protein 1	GLIPR1	1	488
1175	P02654	Apolipoprotein C-I lipoprotein	APOC1	1	487
1176	Q15759	Mitogen-activated protein kinase 11	MAPK11	1	486
1177	P19883	Follistatin (FS) (Activin-binding protein)	FST	1	481
1178	P01622	Immunoglobulin kappa variable 3-20	IGKV3-20	1	478
1179	Q03154	Aminoacylase-1	ACY1	1	478
1180	P30990	Neurotensin/neuromedin N [Cleaved into: Large neuromedin N	NTS	1	475
1181	P22004	Bone morphogenetic protein 6	BMP6	1	473
1182	Q15631	Translin	TSN	1	473
1183	P00491	Purine nucleoside phosphorylase	PNP	1	472
1184	P06310	Immunoglobulin kappa variable 2-30	IGKV2-30	1	472

1185	Q8N6K0	Testis-expressed protein 29	TEX29	1	470
1186	P01767	Immunoglobulin heavy variable 3-53	IGHV3-53	1	468
1187	P04206	Immunoglobulin kappa variable 3-20	IGKV3-20	1	465
1188	P04439	HLA class I histocompatibility antigen, A alpha chain	HLA-A	1	465
1189	Q14242	P-selectin glycoprotein ligand 1 (PSGL-1) (Selectin P ligand) (CD antigen CD162)	SELPLG	1	464
1190	Q02083	N-acyl ethanolamine-hydrolyzing acid amidase	NAAA	1	464
1191	Q8NFT8	Delta and Notch-like epidermal growth factor-related receptor	DNER	1	464
1192	Q9HCR9	Dual 3',5'-cyclic-AMP and -GMP phosphodiesterase 11A	PDE11A	1	463
1193	P01766	Immunoglobulin heavy variable 3-13	IGHV3-13	1	461
1194	P06311	Immunoglobulin kappa variable 3-20	IGKV3-20	1	461
1195	Q9Y3E7	Charged multivesicular body protein 3	CHMP3	1	460
1196	P05783	Keratin, type I cytoskeletal 18	KRT18	1	460
1197	P39687	Acidic leucine-rich nuclear phosphoprotein 32 family member A	ANP32A	1	459
1198	Q15813	Tubulin-specific chaperone E (Tubulin-folding cofactor E)	TBCE	1	457
1199	Q8IYB5	Stromal membrane-associated protein 1	SMAP1	1	454
1200	O43663	Protein regulator of cytokinesis 1	PRC1	1	454
1201	Q8N3H0	Chemokine-like protein TAFA-2	TAFA2	1	454
1202	Q8N8U9	BMP-binding endothelial regulator protein	BMPER	1	453
1203	P35052	Glypican-1 [Cleaved into: Secreted glypican-1]	GPC1	1	452
1204	P15151	Poliovirus receptor	PVR	1	452
1205	P01616	Immunoglobulin kappa variable 2D-28	IGKV2D-28	1	451
1206	P24844	Myosin regulatory light polypeptide 9	MYL9	1	449
1207	P06731	Carcinoembryonic antigen-related cell adhesion molecule 5	CEACAM5	1	447
1208	Q8NBK3	Formylglycine-generating enzyme	SUMF1	1	445
1209	Q96K49	Transmembrane protein 87B	TMEM87B	1	443
1210	P45985	Dual specificity mitogen-activated protein kinase kinase 4	MAP2K4	1	442
1211	Q04609	Glutamate carboxypeptidase 2	FOLH1	1	440
1212	P29074	Tyrosine-protein phosphatase non-receptor type 4	PTPN4	1	439
1213	Q12830	Nucleosome-remodeling factor subunit BPTF	BPTF	1	439
1214	P01596	Immunoglobulin kappa variable 1-5	IGKV1-5	1	438
1215	Q9UBL0	cAMP-regulated phosphoprotein 21	ARPP21	1	437
1216	P22362	C-C motif chemokine 1	CCL1	1	435
1217	P01609	Immunoglobulin kappa variable 1D-33	IGKV1D-33	1	433
1218	P04433	Immunoglobulin kappa variable 3-11	IGKV3-11	1	432
1219	P18135	Immunoglobulin kappa variable 3-20	IGKV3-20	1	432
1220	P01602	Immunoglobulin kappa variable 1-5	IGKV1-5	1	431
1221	P35579	Myosin-9	MYH9	1	430
1222	Q86SJ2	Amphoterin-induced protein 2	AMIGO2	1	430
1223	P01611	Immunoglobulin kappa variable 1D-12	IGKV1D-12	1	429
1224	P01601	Immunoglobulin kappa variable 1D-16	IGKV1D-16	1	428
1225	P01608	Immunoglobulin kappa variable 1D-33	IGKV1D-33	1	428
1226	P42684	Tyrosine-protein kinase ABL2	ABL2	1	428
1227	P05165	Propionyl-CoA carboxylase alpha chain, mitochondrial	PCCA	1	427
1228	P01610	Immunoglobulin kappa variable 1-17	IGKV1-17	1	426
1229	P06317	Immunoglobulin lambda variable 6-57	IGLV6-57	1	425
1230	P01699	Immunoglobulin lambda variable 1-44	IGLV1-44	1	423
1231	Q9Y4K0	Lysyl oxidase homolog 2	LOXL2	1	423
1232	P01760	Immunoglobulin heavy variable 1-69	IGHV1-69	1	421
1233	P59901	Leukocyte immunoglobulin-like receptor subfamily A member 4	LILRA4	1	421
1234	A0A0B4J1V0	Immunoglobulin heavy variable 3-15	IGHV3-15	1	420
1235	P07492	Gastrin-releasing peptide	GRP	1	420
1236	P05556	Integrin beta-1	ITGB1	1	417
1237	Q9HBL8	NmrA-like family domain-containing protein 1	NMRAL1	1	411

1238	O15232	Matrilin-3	MATN3	1	409
1239	P04208	Immunoglobulin lambda variable 1-47	IGLV1-47	1	409
1240	Q6B8I1	Dual specificity protein phosphatase 13A	DUSP13A	1	409
1241	Q15363	Transmembrane emp24 domain-containing protein 2	TMED2	1	408
1242	O60506	Heterogeneous nuclear ribonucleoprotein Q	SYNCRIP	1	407
1243	P49327	Fatty acid synthase	FASN	1	405
1244	P23142	Fibulin-1	FBLN1	1	404
1245	P15848	Arylsulfatase B	ARSB	1	404
1246	Q9BVH7	Alpha-N-acetylgalactosaminide alpha-2,6-sialyltransferase 5	ST6GALNAC5	1	403
1247	Q9UPN3	Microtubule-actin cross-linking factor 1, isoforms 1/2/3/4/5	MACF1	1	402
1248	Q9Y3C4	EKC/KEOPS complex subunit TPRKB	TPRKB	1	402
1249	P09884	DNA polymerase alpha catalytic subunit	POLA1	1	400
1250	O75882	Attractin	ATRN	1	397
1251	P81277	Prolactin-releasing peptide	PRLH	1	397
1252	O95388	CCN family member 4	CCN4	1	396
1253	Q15828	Cystatin-M	CST6	1	396
1254	P05129	Protein kinase C gamma type	PRKCG	1	395
1255	Q13506	NGFI-A-binding protein 1 (EGR-1-binding protein 1) (Transcriptional regulatory protein p54)	NAB1	1	394
1256	P06576	ATP synthase subunit beta, mitochondrial	ATP5F1B	1	394
1257	A6NJS3	deleted	0	1	393
1258	Q6EMK4	Vasorin	VASN	1	393
1259	O95274	Ly6/PLAUR domain-containing protein 3	LYPD3	1	391
1260	P46063	ATP-dependent DNA helicase Q1	RECQL	1	390
1261	P01743	Immunoglobulin heavy variable 1-46	IGHV1-46	1	387
1262	P01778	Immunoglobulin heavy variable 3-23	IGHV3-23	1	387
1263	P43307	Translocon-associated protein subunit alpha	SSR1	1	387
1264	O00408	cGMP-dependent 3',5'-cyclic phosphodiesterase (EC 3.1.4.17) (Cyclic GMP-stimulated phosphodiesterase) (CGS-PDE) (cGSPDE)	PDE2A	1	386
1265	P04209	Immunoglobulin lambda variable 2-14	IGLV2-14	1	386
1266	P25116	Proteinase-activated receptor 1	F2R	1	385
1267	P09622	Dihydrolipoyl dehydrogenase, mitochondrial	DLD	1	381
1268	P20849	Collagen alpha-1	COL9A1	1	379
1269	P01603	Immunoglobulin kappa variable 1-33	IGKV1-33	1	375
1270	P28827	Receptor-type tyrosine-protein phosphatase mu	PTPRM	1	375
1271	P01600	Immunoglobulin kappa variable 1-39	IGKV1-39	1	371
1272	P16422	Epithelial cell adhesion molecule	EPCAM	1	370
1273	Q9UNW1	Multiple inositol polyphosphate phosphatase 1	MINPP1	1	368
1274	P01768	Immunoglobulin heavy variable 3-30	IGHV3-30	1	367
1275	P54764	Ephrin type-A receptor 4	EPHA4	1	367
1276	Q7RTX0	Taste receptor type 1 member 3	TAS1R3	1	367
1277	P56270	Myc-associated zinc finger protein (MAZI) (Pur-1)	MAZ	1	366
1278	Q86VF7	Nebulin-related-anchoring protein	NRAP	1	366
1279	P41240	Tyrosine-protein kinase CSK (EC 2.7.10.2) (C-Src kinase) (Protein-tyrosine kinase CYL)	CSK	1	365
1280	O75394	Large ribosomal subunit protein bL33m	MRPL33	1	365
1281	Q8IU85	Calcium/calmodulin-dependent protein kinase type 1D	CAMK1D	1	365
1282	Q7Z2W9	Large ribosomal subunit protein bL21m	MRPL21	1	364
1283	P04075	Fructose-bisphosphate aldolase A	ALDOA	1	362
1284	Q9Y3P8	Signaling threshold-regulating transmembrane adapter 1	SIT1	1	362
1285	Q9Y3C8	Ubiquitin-fold modifier-conjugating enzyme 1 (Ufm1-conjugating enzyme 1)	UFC1	1	361
1286	Q02763	Angiopoietin-1 receptor	TEK	1	360
1287	Q92686	Neurogranin	NRGN	1	360
1288	P10767	Fibroblast growth factor 6 (FGF-6) (Heparin secretory-transforming protein 2) (HST-2) (HSTF-2) (Heparin-binding growth factor 6) (HBGF-6)	FGF6	1	359

1289	P38484	Interferon gamma receptor 2	IFNGR2	1	359
1290	Q9UP83	Conserved oligomeric Golgi complex subunit 5	COG5	1	359
1291	P08217	Chymotrypsin-like elastase family member 2A	CELA2A	1	358
1292	Q08830	Fibrinogen-like protein 1	FGL1	1	358
1293	P01773	Immunoglobulin heavy variable 3-30	IGHV3-30	1	357
1294	Q14116	Interleukin-18	IL18	1	357
1295	P00915	Carbonic anhydrase 1	CA1	1	356
1296	P53396	ATP-citrate synthase	ACLY	1	354
1297	Q12983	BCL2/adenovirus E1B 19 kDa protein-interacting protein 3	BNIP3	1	354
1298	Q9P2E7	Protocadherin-10	PCDH10	1	354
1299	O95352	Ubiquitin-like modifier-activating enzyme ATG7	ATG7	1	353
1300	P09012	U1 small nuclear ribonucleoprotein A (U1 snRNP A) (U1-A) (U1A)	SNRPA	1	351
1301	Q8IVY1	Type III endosome membrane protein TEMP	C1orf210	1	351
1302	Q03135	Caveolin-1	CAV1	1	350
1303	Q9H1N7	Adenosine 3'-phospho 5'-phosphosulfate transporter 2	SLC35B3	1	350
1304	P00325	All-trans-retinol dehydrogenase [NAD	ADH1B	1	349
1305	Q9UN76	Sodium- and chloride-dependent neutral and basic amino acid transporter B(0+) (Amino acid transporter ATB0+) (Solute carrier family 6 member 14)	SLC6A14	1	347
1306	O60496	Docking protein 2	DOK2	1	346
1307	O75888	Tumor necrosis factor ligand superfamily member 13	TNFSF13	1	346
1308	P01815	Immunoglobulin heavy variable 2-70	IGHV2-70	1	346
1309	P40424	Pre-B-cell leukemia transcription factor 1	PBX1	1	346
1310	P43121	Cell surface glycoprotein MUC18	MCAM	1	346
1311	Q15661	Tryptase alpha/beta-1	TPSAB1	1	346
1312	Q9Y5E7	Protocadherin beta-2 (PCDH-beta-2)	PCDHB2	1	345
1313	P01625	Immunoglobulin kappa variable 4-1	IGKV4-1	1	345
1314	P01597	Immunoglobulin kappa variable 1-39	IGKV1-39	1	344
1315	P01607	Immunoglobulin kappa variable 1D-33	IGKV1D-33	1	343
1316	P11215	Integrin alpha-M	ITGAM	1	343
1317	P01716	Immunoglobulin lambda variable 3-1	IGLV3-1	1	340
1318	Q9BY76	Angiopoietin-related protein 4	ANGPTL4	1	340
1319	Q8TAD2	Interleukin-17D	IL17D	1	339
1320	P98160	Basement membrane-specific heparan sulfate proteoglycan core protein	HSPG2	1	336
1321	P07766	T-cell surface glycoprotein CD3 epsilon chain	CD3E	1	335
1322	P08185	Corticosteroid-binding globulin	SERPINA6	1	333
1323	Q8IVF2	Protein AHNAK2	AHNAK2	1	333
1324	Q9BXD5	N-acetylneuraminase lyase	NPL	1	332
1325	P13598	Intercellular adhesion molecule 2	ICAM2	1	331
1326	P29460	Interleukin-12 subunit beta	IL12B	1	331
1327	P01719	Immunoglobulin lambda variable 3-21	IGLV3-21	1	330
1328	P29350	Tyrosine-protein phosphatase non-receptor type 6	PTPN6	1	329
1329	Q14974	Importin subunit beta-1	KPNB1	1	328
1330	P35555	Fibrillin-1 [Cleaved into: Asprosin]	FBN1	1	327
1331	P17900	Ganglioside GM2 activator	GM2A	1	326
1332	Q9H3M7	Thioredoxin-interacting protein	TXNIP	1	324
1333	P12268	Inosine-5'-monophosphate dehydrogenase 2	IMPDH2	1	323
1334	P16260	Solute carrier family 25 member 16	SLC25A16	1	323
1335	P07237	Protein disulfide-isomerase	P4HB	1	321
1336	P09681	Gastric inhibitory polypeptide	GIP	1	321
1337	P07686	Beta-hexosaminidase subunit beta	HEXB	1	320
1338	P49961	Ectonucleoside triphosphate diphosphohydrolase 1	ENTPD1	1	320
1339	Q5T013	Putative hydroxypyruvate isomerase	HYI	1	319
1340	Q06124	Tyrosine-protein phosphatase non-receptor type 11	PTPN11	1	315

1341	P51911	Calponin-1	CNN1	1	314
1342	Q06609	DNA repair protein RAD51 homolog 1	RAD51	1	313
1343	Q8IYI6	Exocyst complex component 8	EXOC8	1	312
1344	Q9NXG0	Centlein	CNTLN	1	312
1345	Q9P016	Thymocyte nuclear protein 1	THYN1	1	312
1346	Q7Z5B4	Protein RIC-3 (Resistant to inhibitor of cholinesterase 3)	RIC3	1	311
1347	P78314	SH3 domain-binding protein 2 (3BP-2)	SH3BP2	1	307
1348	Q8IZJ0	Interferon lambda-2	IFNL2	1	307
1349	P01702	Immunoglobulin lambda variable 1-51	IGLV1-51	1	306
1350	P23470	Receptor-type tyrosine-protein phosphatase gamma	PTPRG	1	306
1351	Q6GPH6	Inositol 1,4,5-trisphosphate receptor-interacting protein-like 1	ITPRIPL1	1	305
1352	Q9NWS8	Required for meiotic nuclear division protein 1 homolog	RMND1	1	305
1353	Q9UHA7	Interleukin-36 alpha	IL36A	1	305
1354	Q08499	3',5'-cyclic-AMP phosphodiesterase 4D	PDE4D	1	304
1355	Q8WUJ1	Neuferricin	CYB5D2	1	304
1356	P84243	Histone H3.3	H3-3A	1	301
1357	P22891	Vitamin K-dependent protein Z	PROZ	1	300
1358	Q14773	Intercellular adhesion molecule 4	ICAM4	1	300
1359	Q5T0I0	Gelsolin	GSN	1	300
1360	Q9UBX7	Kallikrein-11 (hK11)	KLK11	1	298
1361	P02655	Apolipoprotein C-II	APOC2	1	296
1362	P01781	Immunoglobulin heavy variable 3-7	IGHV3-7	1	296
1363	P01701	Immunoglobulin lambda variable 1-51	IGLV1-51	1	295
1364	O75973	C1q-related factor	C1QL1	1	294
1365	Q6UXB2	C-X-C motif chemokine 17	CXCL17	1	294
1366	P35908	Keratin, type II cytoskeletal 2 epidermal	KRT2	1	291
1367	P25705	ATP synthase subunit alpha, mitochondrial	ATP5F1A	1	289
1368	P26583	High mobility group protein B2	HMGB2	1	289
1369	Q9UHP3	Ubiquitin carboxyl-terminal hydrolase 25	USP25	1	289
1370	P13645	Keratin, type I cytoskeletal 10	KRT10	1	288
1371	Q9UK05	Growth/differentiation factor 2	GDF2	1	288
1372	Q6UB35	Monofunctional C1-tetrahydrofolate synthase, mitochondrial	MTHFD1L	1	287
1373	Q8WUY8	Probable N-acetyltransferase 14	NAT14	1	287
1374	P23471	Receptor-type tyrosine-protein phosphatase zeta	PTPRZ1	1	284
1375	Q9H665	IGF-like family receptor 1	IGFLR1	1	284
1376	P01704	Immunoglobulin lambda variable 2-14	IGLV2-14	1	283
1377	P01762	Immunoglobulin heavy variable 3-11	IGHV3-11	1	282
1378	Q9Y6T7	Diacylglycerol kinase beta (DAG kinase beta)	DGKB	1	281
1379	P02746	Complement C1q subcomponent subunit B	C1QB	1	280
1380	Q9H293	Interleukin-25	IL25	1	280
1381	Q9NP91	Sodium- and chloride-dependent transporter XTRP3	SLC6A20	1	279
1382	O95793	Double-stranded RNA-binding protein Staufer homolog 1	STAU1	1	277
1383	P01612	Immunoglobulin kappa variable 1-39	IGKV1-39	1	277
1384	P09919	Granulocyte colony-stimulating factor	CSF3	1	276
1385	Q12836	Zona pellucida sperm-binding protein 4	ZP4	1	276
1386	Q16620	BDNF/NT-3 growth factors receptor	NTRK2	1	274
1387	Q96J42	Thioredoxin domain-containing protein 15	TXNDC15	1	274
1388	Q96EC8	Protein YIPF6	YIPF6	1	273
1389	Q9UIF8	Bromodomain adjacent to zinc finger domain protein 2B	BAZ2B	1	272
1390	P01710	Immunoglobulin lambda variable 2-8	IGLV2-8	1	270
1391	P36894	Bone morphogenetic protein receptor type-1A	BMPRI1A	1	270
1392	Q13449	Limbic system-associated membrane protein	LSAMP	1	269
1393	Q9NY56	Odorant-binding protein 2a	OBP2A	1	269

1394	P01620	Immunoglobulin kappa variable 3-20	IGKV3-20	1	268
1395	Q6PUV4	Complexin-2	CPLX2	1	266
1396	Q96LA5	Fc receptor-like protein 2	FCRL2	1	265
1397	P60660	Myosin light polypeptide 6	MYL6	1	260
1398	P15144	Aminopeptidase N	ANPEP	1	259
1399	O95544	NAD kinase (EC 2.7.1.23) (Poly(P)/ATP NAD kinase)	NADK	1	258
1400	P12277	Creatine kinase B-type	CKB	1	258
1401	O43681	ATPase ASNA1	ASNA1	1	256
1402	P55103	Inhibin beta C chain	INHBC	1	256
1403	Q01469	Fatty acid-binding protein 5	FABP5	1	256
1404	Q14520	Hyaluronan-binding protein 2	HABP2	1	255
1405	P35527	Keratin, type I cytoskeletal 9	KRT9	1	254
1406	Q7Z7M9	Polypeptide N-acetylgalactosaminyltransferase 5	GALNT5	1	254
1407	Q9UKL4	Gap junction delta-2 protein	GJD2	1	254
1408	P32971	Tumor necrosis factor ligand superfamily member 8	TNFSF8	1	253
1409	P04431	Immunoglobulin kappa variable 1-39	IGKV1-39	1	252
1410	P02452	Collagen alpha-1	COL1A1	1	251
1411	O96013	Serine/threonine-protein kinase PAK 4	PAK4	1	250
1412	P32119	Peroxiredoxin-2	PRDX2	1	250
1413	P08133	Annexin A6	ANXA6	1	249
1414	P01776	Immunoglobulin heavy variable 3-23	IGHV3-23	1	248
1415	P49914	5-formyltetrahydrofolate cyclo-ligase	MTHFS	1	247
1416	P19367	Hexokinase-1	HK1	1	246
1417	Q14914	Prostaglandin reductase 1	PTGR1	1	246
1418	Q5VST9	Obscurin	OBSCN	1	246
1419	P80748	Immunoglobulin lambda variable 3-21	IGLV3-21	1	245
1420	Q8N335	Glycerol-3-phosphate dehydrogenase 1-like protein	GPD1L	1	245
1421	O95460	Matrilin-4	MATN4	1	244
1422	Q96KK5	Histone H2A type 1-H	H2AC12	1	244
1423	P18031	Tyrosine-protein phosphatase non-receptor type 1	PTPN1	1	242
1424	Q96IW7	Vesicle-trafficking protein SEC22a	SEC22A	1	242
1425	P32856	Syntaxin-2	STX2	1	241
1426	Q9Y5U5	Tumor necrosis factor receptor superfamily member 18	TNFRSF18	1	241
1427	Q14011	Cold-inducible RNA-binding protein	CIRBP	1	240
1428	Q12866	Tyrosine-protein kinase Mer	MERTK	1	239
1429	P55055	Oxysterols receptor LXR-beta	NR1H2	1	237
1430	Q9NX14	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 11, mitochondrial	NDUFB11	1	237
1431	Q9Y266	Nuclear migration protein nudC (Nuclear distribution protein C homolog)	NUDC	1	236
1432	O60330	Protocadherin gamma-A12	PCDHGA12	1	236
1433	P01713	Immunoglobulin lambda variable 2-11	IGLV2-11	1	236
1434	P0DMT0	Myoregulin	MRLN	1	236
1435	Q9HCJ0	Trinucleotide repeat-containing gene 6C protein	TNRC6C	1	236
1436	Q9H939	Proline-serine-threonine phosphatase-interacting protein 2	PSTPIP2	1	235
1437	P51654	Glypican-3	GPC3	1	233
1438	Q9Y653	Adhesion G-protein coupled receptor G1	ADGRG1	1	233
1439	Q15238	Pregnancy-specific beta-1-glycoprotein 5	PSG5	1	231
1440	Q9H0B8	Cysteine-rich secretory protein LCCL domain-containing 2	CRISPLD2	1	231
1441	Q9NZ43	Vesicle transport protein USE1	USE1	1	230
1442	O43291	Kunitz-type protease inhibitor 2 (Hepatocyte growth factor activator inhibitor type 2) (HAI-2) (Placental bikunin)	SPINT2	1	228
1443	P01730	T-cell surface glycoprotein CD4	CD4	1	228
1444	P35225	Interleukin-13	IL13	1	227
1445	Q13418	Integrin-linked protein kinase	ILK	1	227
1446	P08670	Vimentin	VIM	1	226

1447	Q92832	Protein kinase C-binding protein NELL1	NELL1	1	226
1448	P06318	Immunoglobulin lambda variable 6-57	IGLV6-57	1	225
1449	Q13443	Disintegrin and metalloproteinase domain-containing protein 9	ADAM9	1	224
1450	P13693	Translationally-controlled tumor protein (TCTP) (Fortilin) (Histamine-releasing factor) (HRF) (p23)	TPT1	1	223
1451	P47992	Lymphotoxin	XCL1	1	223
1452	Q5VU43	Myomegalin	PDE4DIP	1	223
1453	Q8TB96	T-cell immunomodulatory protein	ITFG1	1	223
1454	P20742	Pregnancy zone protein	PZP	1	222
1455	P01889	HLA class I histocompatibility antigen, B alpha chain	HLA-B	1	222
1456	Q9UGT4	Sushi domain-containing protein 2	SUSD2	1	222
1457	P01703	Immunoglobulin lambda variable 1-40	IGLV1-40	1	221
1458	P06888	Immunoglobulin lambda variable 1-51	IGLV1-51	1	221
1459	P16070	CD44 antigen	CD44	1	221
1460	Q9NZ53	Podocalyxin-like protein 2	PODXL2	1	221
1461	P40227	T-complex protein 1 subunit zeta	CCT6A	1	219
1462	Q76FE5	Histone H2B	His2B	1	219
1463	P25686	DnaJ homolog subfamily B member 2 (Heat shock 40 kDa protein 3) (Heat shock protein J1) (HSJ-1)	DNAJB2	1	218
1464	P42702	Leukemia inhibitory factor receptor	LIFR	1	216
1465	O95171	Sciellin	SCEL	1	215
1466	P08069	Insulin-like growth factor 1 receptor	IGF1R	1	214
1467	Q96SM3	Probable carboxypeptidase X1	CPXM1	1	214
1468	Q9P1F3	Costars family protein ABRACL	ABRACL	1	214
1469	Q9Y6Q6	Tumor necrosis factor receptor superfamily member 11A (Osteoclast differentiation factor receptor) (ODFR) (Receptor activator of NF-KB) (CD antigen CD265)	TNFRSF11A	1	212
1470	O00244	Copper transport protein ATOX1	ATOX1	1	212
1471	P15514	Amphiregulin	AREG	1	210
1472	Q14558	Phosphoribosyl pyrophosphate synthase-associated protein 1	PRPSAP1	1	209
1473	Q96GG9	DCN1-like protein 1	DCUN1D1	1	209
1474	Q9UJ70	N-acetyl-D-glucosamine kinase	NAGK	1	208
1475	O75674	TOM1-like protein 1	TOM1L1	1	207
1476	P54760	Ephrin type-B receptor 4	EPHB4	1	207
1477	O94991	SLIT and NTRK-like protein 5	SLITRK5	1	206
1478	P23510	Tumor necrosis factor ligand superfamily member 4	TNFSF4	1	206
1479	Q08629	Testican-1	SPOCK1	1	205
1480	Q9NQ25	SLAM family member 7	SLAMF7	1	205
1481	P31751	RAC-beta serine/threonine-protein kinase	AKT2	1	203
1482	Q9HC57	WAP four-disulfide core domain protein 1	WFDC1	1	203
1483	Q9HCU4	Cadherin EGF LAG seven-pass G-type receptor 2	CELSR2	1	203
1484	O14498	Immunoglobulin superfamily containing leucine-rich repeat protein	ISLR	1	202
1485	P01613	Immunoglobulin kappa variable 1D-33	IGKV1D-33	1	202
1486	Q9UH03	Neuronal-specific septin-3	SEPTIN3	1	202
1487	O75116	Rho-associated protein kinase 2	ROCK2	1	201
1488	O75716	Serine/threonine-protein kinase 16	STK16	1	200
1489	Q6UXC1	Apical endosomal glycoprotein	MAMDC4	1	200
1490	P06889	Immunoglobulin lambda variable 3-1	IGLV3-1	1	199
1491	P14174	Macrophage migration inhibitory factor	MIF	1	199
1492	O60493	Sorting nexin-3	SNX3	1	198
1493	P02461	Collagen alpha-1	COL3A1	1	198
1494	P48788	Troponin I, fast skeletal muscle	TNNI2	1	198
1495	Q9Y6F8	Testis-specific chromodomain protein Y 1	CDY1	1	196
1496	Q96B86	Repulsive guidance molecule A	RGMA	1	195
1497	O43252	Bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthase 1 (	PAPSS1	1	194
1498	O14556	Glyceraldehyde-3-phosphate dehydrogenase, testis-specific	GAPDHS	1	194

1499	Q9Y661	Heparan sulfate glucosamine 3-O-sulfotransferase 4	HS3ST4	1	192
1500	Q8TEB7	E3 ubiquitin-protein ligase RNF128	RNF128	1	191
1501	Q7Z406	Myosin-14	MYH14	1	190
1502	Q07820	Induced myeloid leukemia cell differentiation protein Mcl-1	MCL1	1	188
1503	Q8IWQ3	Serine/threonine-protein kinase BRSK2	BRSK2	1	187
1504	Q92752	Tenascin-R	TNR	1	187
1505	P14625	Endoplasmin	HSP90B1	1	185
1506	Q9UKJ1	Paired immunoglobulin-like type 2 receptor alpha	PILRA	1	185
1507	Q8WWX9	Selenoprotein M	SELENOM	1	183
1508	P01604	Immunoglobulin kappa variable 1-5	IGKV1-5	1	182
1509	P49747	Cartilage oligomeric matrix protein	COMP	1	182
1510	Q96MK3	Pseudokinase FAM20A	FAM20A	1	182
1511	Q9H9V4	RING finger protein 122	RNF122	1	182
1512	P06312	Immunoglobulin kappa variable 4-1	IGKV4-1	1	181
1513	Q86VR8	Four-jointed box protein 1	FJX1	1	181
1514	Q9NRR1	Cytokine-like protein 1	CYTL1	1	181
1515	Q15849	Urea transporter 2	SLC14A2	1	180
1516	Q15746	Myosin light chain kinase, smooth muscle	MYLK	1	180
1517	P14618	Pyruvate kinase PKM	PKM	1	179
1518	Q99983	Osteomodulin	OMD	1	179
1519	Q9P278	Folliculin-interacting protein 2	FNIP2	1	179
1520	Q9NQX5	Neural proliferation differentiation and control protein 1 (NPDC-1)	NPDC1	1	178
1521	Q05513	Protein kinase C zeta type	PRKCZ	1	178
1522	Q4G148	Glucoside xylosyltransferase 1	GXYLT1	1	178
1523	P01598	Immunoglobulin kappa variable 1-5	IGKV1-5	1	177
1524	Q92956	Tumor necrosis factor receptor superfamily member 14	TNFRSF14	1	177
1525	Q8TBE7	Solute carrier family 35 member G2 (Transmembrane protein 22)	SLC35G2	1	176
1526	Q8WWY7	WAP four-disulfide core domain protein 12	WFDC12	1	176
1527	Q96KQ7	Histone-lysine N-methyltransferase EHMT2	EHMT2	1	176
1528	Q9UJT2	Testis-specific serine kinase substrate	TSKS	1	175
1529	P01374	Lymphotoxin-alpha (LT-alpha) (TNF-beta) (Tumor necrosis factor ligand superfamily member 1)	LTA	1	174
1530	Q13115	Dual specificity protein phosphatase 4	DUSP4	1	174
1531	P28907	ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1	CD38	1	172
1532	Q9H156	SLIT and NTRK-like protein 2	SLITRK2	1	172
1533	Q9NXV2	BTB/POZ domain-containing protein KCTD5	KCTD5	1	172
1534	P01617	Immunoglobulin kappa variable 2D-28	IGKV2D-28	1	171
1535	P01772	Immunoglobulin heavy variable 3-33	IGHV3-33	1	171
1536	P35243	Recoverin	RCVRN	1	170
1537	O95292	Vesicle-associated membrane protein-associated protein B/C	VAPB	1	169
1538	Q96CD2	Phosphopantothencysteine decarboxylase	PPCDC	1	169
1539	P47972	Neuronal pentraxin-2	NPTX2	1	168
1540	Q6NT52	Choriogonadotropin subunit beta variant 2	CGB2	1	168
1541	Q96NZ8	WAP, Kazal, immunoglobulin, Kunitz and NTR domain-containing protein 1	WFIKKN1	1	168
1542	Q9UKX3	Myosin-13	MYH13	1	167
1543	O60504	Vinexin (SH3-containing adapter molecule 1) (SCAM-1) (Sorbin and SH3 domain-containing protein 3)	SORBS3	1	166
1544	P05062	Fructose-bisphosphate aldolase B	ALDOB	1	166
1545	P54619	5'-AMP-activated protein kinase subunit gamma-1 (AMPK gamma1) (AMPK subunit gamma-1) (AMPKg)	PRKAG1	1	165
1546	Q9H999	Pantothenate kinase 3	PANK3	1	165
1547	Q16653	Myelin-oligodendrocyte glycoprotein	MOG	1	163
1548	Q96NW4	Ankyrin repeat domain-containing protein 27	ANKRD27	1	162
1549	Q9Y2K3	Myosin-15	MYH15	1	162
1550	Q2UY09	Collagen alpha-1(XXVIII) chain	COL28A1	1	161

1551	O60930	Ribonuclease H1	RNASEH1	1	161
1552	Q8N5K1	CDGSH iron-sulfur domain-containing protein 2	CISD2	1	161
1553	Q9H5X1	Cytosolic iron-sulfur assembly component 2A	CIAO2A	1	161
1554	Q12792	Twinfilin-1	TWF1	1	160
1555	Q13464	Rho-associated protein kinase 1	ROCK1	1	159
1556	P22314	Ubiquitin-like modifier-activating enzyme 1	UBA1	1	159
1557	Q9UHV7	Mediator of RNA polymerase II transcription subunit 13	MED13	1	159
1558	O75452	Retinol dehydrogenase 16	RDH16	1	157
1559	P22301	Interleukin-10	IL10	1	157
1560	Q13838	Spliceosome RNA helicase DDX39B (EC 3.6.4.13) (56 kDa U2AF65-associated protein) (ATP-dependent RNA helicase p47) (DEAD box protein UAP56) (HLA-B-associated transcript 1 protein)	DDX39B	1	156
1561	O15394	Neural cell adhesion molecule 2	NCAM2	1	156
1562	Q27J81	Inverted formin-2	INF2	1	156
1563	O00625	Pirin (EC 1.13.11.24) (Probable quercetin 2,3-dioxygenase PIR) (Probable quercetinase)	PIR	1	152
1564	P15502	Elastin	ELN	1	152
1565	Q8N687	Beta-defensin 125	DEFB125	1	152
1566	Q9Y2T1	Axin-2	AXIN2	1	152
1567	Q07869	Peroxisome proliferator-activated receptor alpha (PPAR-alpha) (Nuclear receptor subfamily 1 group C member 1)	PPARA	1	151
1568	Q9P2B2	Prostaglandin F2 receptor negative regulator (CD9 partner 1)	PTGFRN	1	150
1569	P01763	Immunoglobulin heavy variable 3-48	IGHV3-48	1	150
1570	Q8IVD9	NudC domain-containing protein 3	NUDCD3	1	150
1571	Q6UXH9	Inactive serine protease PAMR1	PAMR1	1	149
1572	Q9BYV9	Transcription regulator protein BACH2	BACH2	1	148
1573	P24593	Insulin-like growth factor-binding protein 5	IGFBP5	1	147
1574	Q14697	Neutral alpha-glucosidase AB	GANAB	1	147
1575	O00194	Ras-related protein Rab-27B	RAB27B	1	146
1576	O14979	Heterogeneous nuclear ribonucleoprotein D-like (hnRNP D-like)	HNRNPDL	1	146
1577	Q9UHV9	Prefoldin subunit 2	PFDN2	1	146
1578	O75446	Histone deacetylase complex subunit SAP30 (30 kDa Sin3-associated polypeptide) (Sin3 corepressor complex subunit SAP30) (Sin3-associated polypeptide p30)	SAP30	1	145
1579	O60880	SH2 domain-containing protein 1A	SH2D1A	1	145
1580	Q9ULG6	Cell cycle progression protein 1	CCPG1	1	145
1581	O60671	Cell cycle checkpoint protein RAD1	RAD1	1	143
1582	P08727	Keratin, type I cytoskeletal 19	KRT19	1	142
1583	Q7Z6M3	Allergin-1	MILR1	1	142
1584	Q9H3S4	Thiamine pyrophosphokinase 1	TPK1	1	142
1585	Q9NYM9	BET1-like protein	BET1L	1	142
1586	Q9UKA2	F-box/LRR-repeat protein 4	FBXL4	1	140
1587	Q96EE4	Coiled-coil domain-containing protein 126	CCDC126	1	139
1588	Q9H4M9	EH domain-containing protein 1	EHD1	1	139
1589	P01605	Immunoglobulin kappa variable 1D-33	IGKV1D-33	1	138
1590	Q96JJ7	Protein disulfide-isomerase TMX3	TMX3	1	137
1591	P04003	C4b-binding protein alpha chain	C4BPA	1	136
1592	Q03431	Parathyroid hormone/parathyroid hormone-related peptide receptor	PTH1R	1	136
1593	Q9BPX1	17-beta-hydroxysteroid dehydrogenase 14	HSD17B14	1	136
1594	Q08ET2	Sialic acid-binding Ig-like lectin 14	SIGLEC14	1	135
1595	Q14162	Scavenger receptor class F member 1	SCARF1	1	135
1596	Q8IWV2	Contactin-4	CNTN4	1	135
1597	Q9H496	Torsin-1A-interacting protein 2, isoform IFRG15	TOR1AIP2	1	135
1598	Q9Y4L1	Hypoxia up-regulated protein 1	HYOU1	1	134
1599	Q05682	Caldesmon	CALD1	1	133
1600	Q9HCN8	Stromal cell-derived factor 2-like protein 1 (SDF2-like protein 1) (PWP1-interacting protein 8)	SDF2L1	1	131

1601	Q9H160	Inhibitor of growth protein 2	ING2	1	131
1602	P01721	Immunoglobulin lambda variable 6-57	IGLV6-57	1	130
1603	P21926	CD9 antigen	CD9	1	130
1604	Q8NC42	E3 ubiquitin-protein ligase RNF149	RNF149	1	129
1605	Q9Y6W8	Inducible T-cell costimulator	ICOS	1	129
1606	O60704	Protein-tyrosine sulfotransferase 2	TPST2	1	128
1607	Q8N9N8	Probable RNA-binding protein EIF1AD	EIF1AD	1	127
1608	Q96C10	ATP-dependent RNA helicase DHX58	DHX58	1	127
1609	Q9H7Y0	Divergent protein kinase domain 2B	DIPK2B	1	127
1610	Q9NZN3	EH domain-containing protein 3	EHD3	1	127
1611	A1L170	Uncharacterized protein C1orf226	C1orf226	1	126
1612	P42081	T-lymphocyte activation antigen CD86	CD86	1	126
1613	Q5R1X3	Actin, cytoplasmic 1	ACTB	1	126
1614	P32927	Cytokine receptor common subunit beta (CDw131)	CSF2RB	1	125
1615	Q4LDR2	Cortexin-3	CTXN3	1	125
1616	Q9UIW2	Plexin-A1	PLXNA1	1	125
1617	O75063	Glycosaminoglycan xylosylkinase	FAM20B	1	124
1618	P50479	PDZ and LIM domain protein 4	PDLIM4	1	124
1619	Q92496	Complement factor H-related protein 4	CFHR4	1	124
1620	Q9BV40	Vesicle-associated membrane protein 8	VAMP8	1	124
1621	A6NFN3	RNA binding protein fox-1 homolog 3	RBFOX3	1	123
1622	O95965	Integrin beta-like protein 1	ITGBL1	1	122
1623	P04156	Major prion protein	PRNP	1	122
1624	Q03393	6-pyruvoyl tetrahydrobiopterin synthase	PTS	1	121
1625	Q14397	Glucokinase regulatory protein	GCKR	1	121
1626	P23921	Ribonucleoside-diphosphate reductase large subunit	RRM1	1	120
1627	Q9HBI1	Beta-parvin	PARVB	1	120
1628	Q08211	ATP-dependent RNA helicase A	DHX9	1	118
1629	Q14512	Fibroblast growth factor-binding protein 1	FGFBP1	1	118
1630	P13236	C-C motif chemokine 4	CCL4	1	117
1631	P19021	Peptidyl-glycine alpha-amidating monooxygenase	PAM	1	117
1632	Q7L7L0	Histone H2A type 3	H2AC25	1	117
1633	Q9NZ72	Stathmin-3 (SCG10-like protein)	STMN3	1	116
1634	P09619	Platelet-derived growth factor receptor beta	PDGFRB	1	116
1635	Q92878	DNA repair protein RAD50	RAD50	1	116
1636	Q9H6F2	Trimeric intracellular cation channel type A	TMEM38A	1	116
1637	Q9UIC8	Leucine carboxyl methyltransferase 1	LCMT1	1	116
1638	P78324	Tyrosine-protein phosphatase non-receptor type substrate 1	SIRPA	1	115
1639	Q8N4C9	Uncharacterized protein C17orf78	C17orf78	1	115
1640	Q92563	Testican-2	SPOCK2	1	115
1641	Q9BPU6	Dihydropyrimidinase-related protein 5	DPYSL5	1	115
1642	O94779	Contactin-5	CNTN5	1	112
1643	O94892	Zinc finger protein 432	ZNF432	1	112
1644	O75509	Tumor necrosis factor receptor superfamily member 21	TNFRSF21	1	111
1645	Q8WV07	Protein LTO1 homolog	LTO1	1	110
1646	P07996	Thrombospondin-1	THBS1	1	109
1647	Q86T13	C-type lectin domain family 14 member A	CLEC14A	1	109
1648	Q86Y30	B melanoma antigen 2 (Cancer/testis antigen 2.2) (CT2.2)	BAGE2	1	108
1649	P27105	Stomatin	STOM	1	108
1650	Q9H4A9	Dipeptidase 2	DPEP2	1	108
1651	Q96DZ1	Endoplasmic reticulum lectin 1 (ER lectin) (Erlectin) (XTP3-transactivated gene B protein)	ERLEC1	1	107
1652	Q92562	Polyphosphoinositide phosphatase	FIG4	1	107
1653	Q6UXQ4	Uncharacterized protein C2orf66	C2orf66	1	106

1654	Q9H497	Torsin-3A	TOR3A	1	106
1655	Q8TBP5	Membrane protein FAM174A	FAM174A	1	105
1656	Q9BS26	Endoplasmic reticulum resident protein 44	ERP44	1	105
1657	Q92688	Acidic leucine-rich nuclear phosphoprotein 32 family member B	ANP32B	1	104
1658	Q8WWF3	Serine-rich single-pass membrane protein 1	SSMEM1	1	102
1659	Q14766	Latent-transforming growth factor beta-binding protein 1	LTBP1	1	102
1660	Q9BUP0	EF-hand domain-containing protein D1	EFHD1	1	102
1661	Q9H4B7	Tubulin beta-1 chain	TUBB1	1	102
1662	A2RU67	Protein FAM234B	FAM234B	1	101
1663	P07108	Acyl-CoA-binding protein	DBI	1	101
1664	Q8N6H7	ADP-ribosylation factor GTPase-activating protein 2	ARFGAP2	1	100
1665	P19256	Lymphocyte function-associated antigen 3	CD58	1	99
1666	Q13007	Interleukin-24	IL24	1	99
1667	Q9BYE9	Cadherin-related family member 2	CDHR2	1	99
1668	Q9NP71	Carbohydrate-responsive element-binding protein	MLXIPL	1	99
1669	Q9UBX5	Fibulin-5	FBLN5	1	99
1670	Q9UM44	HERV-H LTR-associating protein 2	HHLA2	1	99
1671	Q8N1N2	Dynactin-associated protein	DYNAP	1	98
1672	Q9BXL7	Caspase recruitment domain-containing protein 11	CARD11	1	98
1673	Q9Y3Q0	N-acetylated-alpha-linked acidic dipeptidase 2	NAALAD2	1	98
1674	Q14995	Nuclear receptor subfamily 1 group D member 2	NR1D2	1	96
1675	P01771	Immunoglobulin heavy variable 3-33	IGHV3-33	1	96
1676	O60674	Tyrosine-protein kinase JAK2	JAK2	1	95
1677	Q13232	Nucleoside diphosphate kinase 3	NME3	1	95
1678	Q8N2Q7	Neuroigin-1	NLGN1	1	95
1679	Q8TDQ1	CMRF35-like molecule 1	CD300LF	1	95
1680	P49589	Cysteine--tRNA ligase, cytoplasmic (EC 6.1.1.16) (Cysteinyl-tRNA synthetase) (CysRS)	CARS1	1	94
1681	Q14232	Translation initiation factor eIF-2B subunit alpha	EIF2B1	1	94
1682	P16615	Sarcoplasmic/endoplasmic reticulum calcium ATPase 2	ATP2A2	1	94
1683	Q8IZH2	5'-3' exoribonuclease 1	XRN1	1	93
1684	Q9Y258	C-C motif chemokine 26	CCL26	1	93
1685	Q9H2Y9	Solute carrier organic anion transporter family member 5A1	SLCO5A1	1	92
1686	P55290	Cadherin-13	CDH13	1	91
1687	O75381	Peroxisomal membrane protein PEX14	PEX14	1	90
1688	Q5D0E6	DALR anticodon-binding domain-containing protein 3	DALRD3	1	90
1689	Q5SW79	Centrosomal protein of 170 kDa	CEP170	1	90
1690	O15243	Leptin receptor gene-related protein	LEPROT	1	89
1691	Q16595	Fraixin, mitochondrial	FXN	1	89
1692	Q96EK6	Glucosamine 6-phosphate N-acetyltransferase (EC 2.3.1.4) (Phosphoglucosamine acetylase)	GNPNAT1	1	88
1693	Q16527	Cysteine and glycine-rich protein 2	CSRP2	1	88
1694	Q5SGD2	Protein phosphatase 1L	PPM1L	1	88
1695	O15055	Period circadian protein homolog 2	PER2	1	87
1696	P80422	Immunoglobulin lambda variable 2-11	IGLV2-11	1	87
1697	Q9BYH1	Seizure 6-like protein	SEZ6L	1	87
1698	P56211	cAMP-regulated phosphoprotein 19 (ARPP-19)	ARPP19	1	86
1699	Q06323	Proteasome activator complex subunit 1	PSME1	1	86
1700	Q8TD07	Retinoic acid early transcript 1E	RAET1E	1	86
1701	P01775	Immunoglobulin heavy variable 3-23	IGHV3-23	1	85
1702	Q13103	Secreted phosphoprotein 24	SPP2	1	85
1703	O95715	C-X-C motif chemokine 14	CXCL14	1	84
1704	P40199	Carcinoembryonic antigen-related cell adhesion molecule 6	CEACAM6	1	84
1705	Q06643	Lymphotoxin-beta (LT-beta) (Tumor necrosis factor C)	LTB	1	83
1706	Q6PL18	ATPase family AAA domain-containing protein 2	ATAD2	1	82

1707	Q9Y231	4-galactosyl-N-acetylglucosaminide 3-alpha-L-fucosyltransferase 9 (EC 2.4.1.152)	FUT9	1	81
1708	O15060	Zinc finger and BTB domain-containing protein 39	ZBTB39	1	81
1709	Q16623	Syntaxin-1A	STX1A	1	81
1710	Q96HD1	Protein disulfide isomerase CRELD1	CRELD1	1	81
1711	Q9UBX8	Beta-1,4-galactosyltransferase 6	B4GALT6	1	81
1712	P78539	Sushi repeat-containing protein SRPX	SRPX	1	80
1713	Q8N6G6	ADAMTS-like protein 1	ADAMTSL1	1	79
1714	O43854	EGF-like repeat and discoidin I-like domain-containing protein 3	EDIL3	1	78
1715	Q15056	Eukaryotic translation initiation factor 4H	EIF4H	1	78
1716	Q8IUW5	RELT-like protein 1	RELL1	1	78
1717	Q8IZS8	Voltage-dependent calcium channel subunit alpha-2/delta-3	CACNA2D3	1	77
1718	Q96T51	RUN and FYVE domain-containing protein 1 (FYVE-finger protein EIP1)	RUFY1	1	76
1719	O60635	Tetraspanin-1	TSPAN1	1	76
1720	Q04637	Eukaryotic translation initiation factor 4 gamma 1	EIF4G1	1	76
1721	Q7Z478	ATP-dependent RNA helicase DHX29	DHX29	1	76
1722	Q92932	Receptor-type tyrosine-protein phosphatase N2	PTPRN2	1	76
1723	Q16881	Thioredoxin reductase 1, cytoplasmic (TR)	TXNRD1	1	75
1724	Q96PQ1	Sialic acid-binding Ig-like lectin 12 (Siglec-12) (Sialic acid-binding Ig-like lectin-like 1) (Siglec-L1)	SIGLEC12	1	74
1725	Q14195	Dihydropyrimidinase-related protein 3 (DRP-3)	DPYSL3	1	74
1726	Q8NHL6	Leukocyte immunoglobulin-like receptor subfamily B member 1	LILRB1	1	74
1727	Q9UJJ9	N-acetylglucosamine-1-phosphotransferase subunit gamma	GNPTG	1	74
1728	Q01974	Tyrosine-protein kinase transmembrane receptor ROR2 (EC 2.7.10.1) (Neurotrophic tyrosine kinase, receptor-related 2)	ROR2	1	73
1729	P07951	Tropomyosin beta chain	TPM2	1	73
1730	Q96C92	Endosome-associated-trafficking regulator 1	ENTR1	1	73
1731	Q9UEU0	Vesicle transport through interaction with t-SNAREs homolog 1B	VTI1B	1	73
1732	Q9Y2C2	Uronyl 2-sulfotransferase	UST	1	72
1733	O43617	Trafficking protein particle complex subunit 3	TRAPPC3	1	71
1734	Q16625	Occludin	OCLN	1	71
1735	Q7Z6I6	Rho GTPase-activating protein 30	ARHGAP30	1	71
1736	Q8NDA2	Hemicentin-2	HMCN2	1	71
1737	Q8TF65	PDZ domain-containing protein GIPC2	GIPC2	1	71
1738	Q9H4G4	Golgi-associated plant pathogenesis-related protein 1	GLIPR2	1	71
1739	Q9UKG1	DCC-interacting protein 13-alpha	APPL1	1	71
1740	O00602	Ficolin-1	FCN1	1	70
1741	Q0P5P2	Uncharacterized protein C17orf67	C17orf67	1	70
1742	Q8IWT3	Cullin-9	CUL9	1	70
1743	Q8NDY8	Transmembrane protein 52	TMEM52	1	70
1744	O15049	NEDD4-binding protein 3	N4BP3	1	69
1745	Q68D85	Natural cytotoxicity triggering receptor 3 ligand 1	NCR3LG1	1	69
1746	Q8WXI8	C-type lectin domain family 4 member D	CLEC4D	1	69
1747	P01779	Immunoglobulin heavy variable 3-23	IGHV3-23	1	68
1748	P07320	Gamma-crystallin D	CRYGD	1	68
1749	Q86SJ6	Desmoglein-4	DSG4	1	68
1750	P01732	T-cell surface glycoprotein CD8 alpha chain	CD8A	1	67
1751	P25098	Beta-adrenergic receptor kinase 1	GRK2	1	67
1752	Q9BUJ0	Protein ABHD14A	ABHD14A	1	66
1753	O75534	Cold shock domain-containing protein E1 (N-ras upstream gene protein) (Protein UNR)	CSDE1	1	66
1754	P01742	Immunoglobulin heavy variable 1-69	IGHV1-69	1	66
1755	P41970	ETS domain-containing protein Elk-3	ELK3	1	65
1756	Q92793	CREB-binding protein	CREBBP	1	65
1757	O15230	Laminin subunit alpha-5	LAMA5	1	65

1758	O60760	Hematopoietic prostaglandin D synthase	HPGDS	1	65
1759	P08514	Integrin alpha-IIb	ITGA2B	1	65
1760	Q9UBM4	Opticin	OPTC	1	65
1761	Q6UXI7	Vitrin	VIT	1	64
1762	P55285	Cadherin-6	CDH6	1	64
1763	Q6UWB1	Interleukin-27 receptor subunit alpha	IL27RA	1	64
1764	P21291	Cysteine and glycine-rich protein 1	CSRP1	1	63
1765	P48426	Phosphatidylinositol 5-phosphate 4-kinase type-2 alpha	PIP4K2A	1	63
1766	O75110	Probable phospholipid-transporting ATPase IIA	ATP9A	1	62
1767	P20073	Annexin A7	ANXA7	1	62
1768	Q08999	Retinoblastoma-like protein 2	RBL2	1	62
1769	Q92838	Ectodysplasin-A	EDA	1	62
1770	Q9H0N5	Pterin-4-alpha-carbinolamine dehydratase 2	PCBD2	1	62
1771	Q9UK53	Inhibitor of growth protein 1	ING1	1	61
1772	Q86UW7	Calcium-dependent secretion activator 2	CADPS2	1	61
1773	O75914	Serine/threonine-protein kinase PAK 3	PAK3	1	60
1774	P09960	Leukotriene A-4 hydrolase	LTA4H	1	60
1775	Q6UXI9	Nephronectin	NPNT	1	60
1776	Q9H1K4	Mitochondrial glutamate carrier 2	SLC25A18	1	60
1777	O95994	Anterior gradient protein 2 homolog	AGR2	1	59
1778	P12318	Low affinity immunoglobulin gamma Fc region receptor II-a	FCGR2A	1	59
1779	Q5XIF6	Tubulin alpha-4A chain	Tuba4a	1	59
1780	Q86XI6	Protein phosphatase 1 regulatory subunit 3B	PPP1R3B	1	59
1781	Q9H2E6	Semaphorin-6A	SEMA6A	1	59
1782	Q9BYB0	SH3 and multiple ankyrin repeat domains protein 3	SHANK3	1	58
1783	Q9UQ72	Pregnancy-specific beta-1-glycoprotein 11	PSG11	1	58
1784	O00214	Galectin-8	LGALS8	1	57
1785	Q58EX2	Protein sidekick-2	SDK2	1	57
1786	Q9ULB1	Neurexin-1 (Neurexin I-alpha) (Neurexin-1-alpha)	NRXN1	1	56
1787	Q8N9L9	Peroxisomal succinyl-coenzyme A thioesterase	ACOT4	1	56
1788	Q96MM7	Heparan-sulfate 6-O-sulfotransferase 2	HS6ST2	1	56
1789	O43251	RNA binding protein fox-1 homolog 2	RBFOX2	1	55
1790	P01241	Somatotropin	GH1	1	55
1791	P55808	Glycoprotein Xg	XG	1	55
1792	Q9NXS2	Glutaminy-peptide cyclotransferase-like protein	QPCTL	1	55
1793	Q9UBW5	Bridging integrator 2	BIN2	1	55
1794	P61586	Transforming protein RhoA (EC 3.6.5.2) (Rho cDNA clone 12) (h12)	RHOA	1	53
1795	O15240	Neurosecretory protein VGF [Cleaved into: Neuroendocrine regulatory peptide-1	VGF	1	53
1796	P07306	Asialoglycoprotein receptor 1	ASGR1	1	53
1797	P41134	DNA-binding protein inhibitor ID-1	ID1	1	53
1798	Q6UWL6	Kin of IRRE-like protein 2	KIRREL2	1	53
1799	Q8N126	Cell adhesion molecule 3	CADM3	1	53
1800	Q9HBE4	Interleukin-21	IL21	1	53
1801	Q9P0M4	Interleukin-17C	IL17C	1	53
1802	Q9NZW5	MAGUK p55 subfamily member 6	MPP6	1	52
1803	P14778	Interleukin-1 receptor type 1	IL1R1	1	51
1804	P23284	Peptidyl-prolyl cis-trans isomerase B	PPIB	1	51
1805	P23381	Tryptophan--tRNA ligase, cytoplasmic	WARS1	1	51
1806	P52888	Thimet oligopeptidase	THOP1	1	51
1807	Q9ULZ2	Signal-transducing adaptor protein 1	STAP1	1	51
1808	Q13310	Polyadenylate-binding protein 4	PABPC4	1	50
1809	P07992	DNA excision repair protein ERCC-1	ERCC1	1	50
1810	P58012	Forkhead box protein L2	FOXL2	1	50

1811	P58546	Myotrophin	MTPN	1	50
1812	P53804	E3 ubiquitin-protein ligase TTC3	TTC3	1	49
1813	Q9BYW2	Histone-lysine N-methyltransferase SETD2	SETD2	1	49
1814	Q9NP80	Calcium-independent phospholipase A2-gamma	PNPLA8	1	49
1815	P16562	Cysteine-rich secretory protein 2	CRISP2	1	48
1816	Q99471	Prefoldin subunit 5	PFDN5	1	48
1817	Q9BQ89	Protein FAM110A	FAM110A	1	48
1818	O15130	Pro-FMRFamide-related neuropeptide FF	NPFF	1	47
1819	P08962	CD63 antigen (Granulophysin)	CD63	1	47
1820	O75771	DNA repair protein RAD51 homolog 4	RAD51D	1	47
1821	Q02985	Complement factor H-related protein 3	CFHR3	1	47
1822	Q16665	Hypoxia-inducible factor 1-alpha	HIF1A	1	46
1823	P78556	C-C motif chemokine 20	CCL20	1	45
1824	Q9NTU7	Cerebellin-4	CBLN4	1	45
1825	Q9Y385	Ubiquitin-conjugating enzyme E2 J1	UBE2J1	1	45
1826	P19652	Alpha-1-acid glycoprotein 2	ORM2	1	44
1827	P26885	Peptidyl-prolyl cis-trans isomerase FKBP2	FKBP2	1	43
1828	O60292	Signal-induced proliferation-associated 1-like protein 3	SIPA1L3	1	43
1829	O95999	B-cell lymphoma/leukemia 10	BCL10	1	43
1830	P01717	Immunoglobulin lambda variable 3-25	IGLV3-25	1	43
1831	P41217	OX-2 membrane glycoprotein	CD200	1	43
1832	Q6Q759	Sperm-associated antigen 17	SPAG17	1	43
1833	P98095	Fibulin-2	FBLN2	1	42
1834	Q14393	Growth arrest-specific protein 6	GAS6	1	42
1835	Q8TE68	Epidermal growth factor receptor kinase substrate 8-like protein 1	EPS8L1	1	42
1836	Q96DX5	Ankyrin repeat and SOCS box protein 9	ASB9	1	42
1837	P10915	Hyaluronan and proteoglycan link protein 1	HAPLN1	1	41
1838	Q9H1Y0	Autophagy protein 5	ATG5	1	41
1839	Q8TC05	Nuclear protein MDM1	MDM1	1	40
1840	Q13485	Mothers against decapentaplegic homolog 4	SMAD4	1	40
1841	Q15942	Zyxin	ZYX	1	40
1842	Q5DT21	Serine protease inhibitor Kazal-type 9	SPINK9	1	40
1843	Q8N8S7	Protein enabled homolog	ENAH	1	40
1844	Q9Y4D8	Probable E3 ubiquitin-protein ligase HECTD4	HECTD4	1	40
1845	Q92954	Proteoglycan 4	PRG4	1	39
1846	Q9BQT9	Calsyntenin-3 (Alcadein-beta) (Alc-beta)	CLSTN3	1	38
1847	P17612	cAMP-dependent protein kinase catalytic subunit alpha	PRKACA	1	38
1848	Q7LG56	Ribonucleoside-diphosphate reductase subunit M2 B	RRM2B	1	37
1849	O60279	Sushi domain-containing protein 5	SUSD5	1	37
1850	Q86XR8	Centrosomal protein of 57 kDa	CEP57	1	37
1851	Q9UBG0	C-type mannose receptor 2	MRC2	1	37
1852	O60542	Persephin	PSPN	1	36
1853	P20340	Ras-related protein Rab-6A	RAB6A	1	36
1854	Q16666	Gamma-interferon-inducible protein 16	IFI16	1	36
1855	Q9GZP0	Platelet-derived growth factor D	PDGFD	1	35
1856	O14965	Aurora kinase A	AURKA	1	35
1857	P58062	Serine protease inhibitor Kazal-type 7	SPINK7	1	35
1858	Q16658	Fascin	FSCN1	1	35
1859	Q9H2X0	Chordin	CHRD	1	35
1860	Q9Y3Z3	Deoxynucleoside triphosphate triphosphohydrolase SAMHD1	SAMHD1	1	35
1861	Q6XPS3	Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase TPTE2	TPTE2	1	34
1862	P47989	Xanthine dehydrogenase/oxidase [Includes: Xanthine dehydrogenase	XDH	1	34
1863	P80419	Immunoglobulin heavy variable 3-7	IGHV3-7	1	34

1864	O00453	Leukocyte-specific transcript 1 protein (Protein B144)	LST1	1	33
1865	Q14565	Meiotic recombination protein DMC1/LIM15 homolog	DMC1	1	33
1866	P01824	Immunoglobulin heavy variable 4-39	IGHV4-39	1	32
1867	P08238	Heat shock protein HSP 90-beta	HSP90AB1	1	32
1868	Q96QB1	Rho GTPase-activating protein 7	DLC1	1	32
1869	Q9ULC4	Malignant T-cell-amplified sequence 1	MCTS1	1	31
1870	P01705	Immunoglobulin lambda variable 2-23	IGLV2-23	1	31
1871	P14314	Glucosidase 2 subunit beta	PRKCSH	1	31
1872	P16581	E-selectin	SELE	1	31
1873	P54868	Hydroxymethylglutaryl-CoA synthase, mitochondrial	HMGCS2	1	31
1874	Q5KU26	Collectin-12	COLEC12	1	31
1875	Q6UXM1	Leucine-rich repeats and immunoglobulin-like domains protein 3	LRIG3	1	31
1876	Q9BYJ0	Fibroblast growth factor-binding protein 2	FGFBP2	1	31
1877	P01258	Calcitonin [Cleaved into: Calcitonin; Katalcalcin	CALCA	1	30
1878	P29017	T-cell surface glycoprotein CD1c	CD1C	1	30
1879	Q13126	S-methyl-5'-thioadenosine phosphorylase	MTAP	1	30
1880	Q68DE3	Basic helix-loop-helix domain-containing protein USF3	USF3	1	30
1881	Q9BUB7	Transmembrane protein 70, mitochondrial	TMEM70	1	30
1882	Q9H3W5	Leucine-rich repeat neuronal protein 3	LRRN3	1	30
1883	Q9Y6R7	IgGfC-binding protein	FCGBP	1	29
1884	O15503	Insulin-induced gene 1 protein	INSIG1	1	29
1885	Q15884	Endosomal transmembrane epsin interactor 1	ENTREP1	1	29
1886	P78417	Glutathione S-transferase omega-1	GSTO1	1	28
1887	Q86VH2	Kinesin-like protein KIF27	KIF27	1	28
1888	Q9BZM6	UL16-binding protein 1	ULBP1	1	28
1889	Q9P286	Serine/threonine-protein kinase PAK 5	PAK5	1	27
1890	Q9BYP7	Serine/threonine-protein kinase WNK3	WNK3	1	26
1891	O95196	Chondroitin sulfate proteoglycan 5	CSPG5	1	26
1892	P49771	Fms-related tyrosine kinase 3 ligand	FLT3LG	1	26
1893	P59665	Neutrophil defensin 1	DEFA1	1	26
1894	Q86SQ7	Serologically defined colon cancer antigen 8	SDCCAG8	1	26
1895	Q92994	Transcription factor IIIB 90 kDa subunit	BRF1	1	26
1896	Q9NZH7	Interleukin-36 beta	IL36B	1	26
1897	O43447	Peptidyl-prolyl cis-trans isomerase H	PPIH	1	25
1898	Q9BX46	RNA-binding protein 24	RBM24	1	25
1899	Q96MN2	NACHT, LRR and PYD domains-containing protein 4	NLRP4	1	24
1900	O75815	Breast cancer anti-estrogen resistance protein 3	BCAR3	1	24
1901	Q68DV7	E3 ubiquitin-protein ligase RNF43	RNF43	1	24
1902	Q8WWA0	Intelectin-1	ITLN1	1	24
1903	Q96RJ3	Tumor necrosis factor receptor superfamily member 13C	TNFRSF13C	1	24
1904	Q9C0F0	Putative Polycomb group protein ASXL3	ASXL3	1	24
1905	Q9UKW4	Guanine nucleotide exchange factor VAV3 (VAV-3)	VAV3	1	23
1906	P04090	Prorelaxin H2 [Cleaved into: Relaxin B chain; Relaxin A chain]	RLN2	1	23
1907	P21695	Glycerol-3-phosphate dehydrogenase [NAD	GPD1	1	23
1908	Q6UX71	Plexin domain-containing protein 2	PLXDC2	1	23
1909	Q99665	Interleukin-12 receptor subunit beta-2	IL12RB2	1	23
1910	Q9UKJ3	G patch domain-containing protein 8	GPATCH8	1	23
1911	Q07444	NKG2-E type II integral membrane protein (NK cell receptor E) (NKG2-E-activating NK receptor)	KLRC3	1	22
1912	P36941	Tumor necrosis factor receptor superfamily member 3	LTBR	1	22
1913	Q6PI73	Leukocyte immunoglobulin-like receptor subfamily A member 6	LILRA6	1	22
1914	Q9BXB4	Oxysterol-binding protein-related protein 11	OSBPL11	1	22
1915	Q9Y237	Peptidyl-prolyl cis-trans isomerase NIMA-interacting 4	PIN4	1	21
1916	O95389	Cellular communication network factor 6	CCN6	1	21

1917	O95727	Cytotoxic and regulatory T-cell molecule	CRTAM	1	21
1918	P01130	Low-density lipoprotein receptor	LDLR	1	21
1919	P18669	Phosphoglycerate mutase 1	PGAM1	1	21
1920	Q8TDS4	Hydroxycarboxylic acid receptor 2 (G-protein coupled receptor 109A) (G-protein coupled receptor HM74A) (Niacin receptor 1) (Nicotinic acid receptor)	HCAR2	1	20
1921	Q6Q8B3	Cell surface glycoprotein CD200 receptor 2	CD200R1L	1	20
1922	Q96MW5	Conserved oligomeric Golgi complex subunit 8	COG8	1	20
1923	Q9NR61	Delta-like protein 4	DLL4	1	20
1924	Q9NZS2	Killer cell lectin-like receptor subfamily F member 1	KLRF1	1	20
1925	Q96A84	EMI domain-containing protein 1 (Emilin and multimerin domain-containing protein 1) (Emu1)	EMID1	1	18
1926	O95393	Bone morphogenetic protein 10	BMP10	1	18
1927	O95750	Fibroblast growth factor 19	FGF19	1	18
1928	P06737	Glycogen phosphorylase, liver form	PYGL	1	18
1929	Q6ZTQ4	Cadherin-related family member 3	CDHR3	1	18
1930	Q9BQ16	Testican-3	SPOCK3	1	18
1931	P07333	Macrophage colony-stimulating factor 1 receptor	CSF1R	1	17
1932	Q15293	Reticulocalbin-1	RCN1	1	17
1933	P04733	Metallothionein-1F (MT-1F) (Metallothionein-IF) (MT-IF)	MT1F	1	16
1934	O94768	Serine/threonine-protein kinase 17B	STK17B	1	16
1935	Q6ZRI8	Rho GTPase-activating protein 36	ARHGAP36	1	16
1936	Q8IZU9	Kin of IRRE-like protein 3	KIRREL3	1	16
1937	Q9NQ38	Serine protease inhibitor Kazal-type 5	SPINK5	1	16
1938	O95219	Sorting nexin-4	SNX4	1	15
1939	Q29983	MHC class I polypeptide-related sequence A	MICA	1	15
1940	Q5JP53	Tubulin beta chain	TUBB	1	15
1941	Q7Z7M8	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 8	B3GNT8	1	15
1942	Q9BW91	ADP-ribose pyrophosphatase, mitochondrial	NUDT9	1	14
1943	Q8IZP9	Adhesion G-protein coupled receptor G2	ADGRG2	1	14
1944	Q9UBC7	Galanin-like peptide	GALP	1	13
1945	A5PKW4	PH and SEC7 domain-containing protein 1	PSD	1	13
1946	O94985	Calsyntenin-1	CLSTN1	1	13
1947	P59282	Tubulin polymerization-promoting protein family member 2	TPPP2	1	13
1948	Q6UXK5	Leucine-rich repeat neuronal protein 1	LRRN1	1	13
1949	Q86VK4	Zinc finger protein 410	ZNF410	1	13
1950	Q8N766	ER membrane protein complex subunit 1	EMC1	1	13
1951	Q9H819	DnaJ homolog subfamily C member 18	DNAJC18	1	13
1952	Q9UL16	Cilia- and flagella-associated protein 45	CFAP45	1	13
1953	Q9UNN8	Endothelial protein C receptor	PROCR	1	13
1954	P05362	Intercellular adhesion molecule 1	ICAM1	1	12
1955	P20851	C4b-binding protein beta chain	C4BPB	1	12
1956	Q9UJY5	ADP-ribosylation factor-binding protein GGA1 (Gamma-adaptin-related protein 1) (Golgi-localized, gamma ear-containing, ARF-binding protein 1)	GGA1	1	11
1957	Q6UXB8	Peptidase inhibitor 16	PI16	1	11
1958	Q86VP1	Tax1-binding protein 1	TAX1BP1	1	11
1959	Q9NP95	Fibroblast growth factor 20	FGF20	1	11
1960	Q01459	Di-N-acetylchitinase	CTBS	1	10
1961	P15529	Membrane cofactor protein	CD46	1	10
1962	P26842	CD27 antigen	CD27	1	10
1963	Q15404	Ras suppressor protein 1	RSU1	1	10
1964	Q9BQ51	Programmed cell death 1 ligand 2	PDCD1LG2	1	10
1965	Q9UQE7	Structural maintenance of chromosomes protein 3	SMC3	1	9
1966	Q06828	Fibromodulin	FMOD	1	9
1967	Q5EE01	Centromere protein W	CENPW	1	9

1968	Q99714	3-hydroxyacyl-CoA dehydrogenase type-2	HSD17B10	1	9
1969	Q9UM13	Anaphase-promoting complex subunit 10	ANAPC10	1	9
1970	Q15399	Toll-like receptor 1 (EC 3.2.2.6) (Toll/interleukin-1 receptor-like protein) (TIL) (CD antigen CD281)	TLR1	1	8
1971	A8MVW5	HEPACAM family member 2	HEPACAM2	1	8
1972	O76027	Annexin A9	ANXA9	1	8
1973	P01591	Immunoglobulin J chain	JCHAIN	1	8
1974	P32942	Intercellular adhesion molecule 3	ICAM3	1	8
1975	P48960	Adhesion G protein-coupled receptor E5	ADGRE5	1	8
1976	Q18PE1	Protein Dok-7	DOK7	1	8
1977	Q71U36	Tubulin alpha-1A chain	TUBA1A	1	8
1978	Q8WUM4	Programmed cell death 6-interacting protein	PDCD6IP	1	8
1979	Q9Y5X2	Sorting nexin-8	SNX8	1	7
1980	P58753	Toll/interleukin-1 receptor domain-containing adapter protein (TIR domain-containing adapter protein) (Adaptor protein Wyatt) (MyD88 adapter-like protein) (MyD88-2)	TIRAP	1	7
1981	O75871	Carcinoembryonic antigen-related cell adhesion molecule 4	CEACAM4	1	7
1982	P58294	Prokineticin-1	PROK1	1	7
1983	Q13291	Signaling lymphocytic activation molecule	SLAMF1	1	7
1984	Q7Z569	BRCA1-associated protein	BRAP	1	7
1985	Q9Y5W5	Wnt inhibitory factor 1	WIF1	1	7
1986	Q7Z628	Neuroepithelial cell-transforming gene 1 protein (Proto-oncogene p65 Net1) (Rho guanine nucleotide exchange factor 8)	NET1	1	6
1987	P16871	Interleukin-7 receptor subunit alpha	IL7R	1	6
1988	P27487	Dipeptidyl peptidase 4	DPP4	1	6
1989	Q9NSK7	Protein C19orf12	C19orf12	1	6
1990	Q9UBV7	Beta-1,4-galactosyltransferase 7	B4GALT7	1	6
1991	Q9UHC6	Contactin-associated protein-like 2	CNTNAP2	1	6
1992	Q9H8L6	Multimerin-2 (EMILIN-3) (Elastin microfibril interface located protein 3) (Elastin microfibril interfacer 3) (EndoGlyx-1 p125/p140 subunit)	MMRN2	1	5
1993	O14950	Myosin regulatory light chain 12B	MYL12B	1	5
1994	O95786	Antiviral innate immune response receptor RIG-I	RIGI	1	5
1995	P00813	Adenosine deaminase	ADA	1	5
1996	P06887	Immunoglobulin lambda variable 1-44	IGLV1-44	1	5
1997	P22304	Iduronate 2-sulfatase	IDS	1	5
1998	P23677	Inositol-trisphosphate 3-kinase A	ITPKA	1	5
1999	P35247	Pulmonary surfactant-associated protein D	SFTPD	1	5
2000	P48052	Carboxypeptidase A2	CPA2	1	5
2001	P49767	Vascular endothelial growth factor C	VEGFC	1	5
2002	P78347	General transcription factor II-I	GTF2I	1	5
2003	Q8TAT2	Fibroblast growth factor-binding protein 3	FGFBP3	1	5
2004	Q8WXC3	Pyrin domain-containing protein 1	PYDC1	1	5
2005	Q9Y680	Peptidyl-prolyl cis-trans isomerase FKBP7 (PPIase FKBP7)	FKBP7	1	4
2006	P0CG48	Polyubiquitin-C [Cleaved into: Ubiquitin]	UBC	1	4
2007	Q9Y663	Heparan sulfate glucosamine 3-O-sulfotransferase 3A1	HS3ST3A1	1	4
2008	Q99729	Heterogeneous nuclear ribonucleoprotein A/B (hnRNP A/B) (APOBEC1-binding protein 1) (ABBP-1)	HNRNPAB	1	4
2009	Q92617	Nuclear pore complex-interacting protein family member B3 (Nuclear pore complex-interacting protein-like 3) (Protein pps22-1)	NPIPB3	1	4
2010	P51636	Caveolin-2	CAV2	1	4
2011	Q2TV78	Putative macrophage stimulating 1-like protein	MST1L	1	4
2012	Q6ZMM2	ADAMTS-like protein 5	ADAMTSL5	1	4
2013	Q9UHG0	Doublecortin domain-containing protein 2	DCDC2	1	4
2014	Q9NS62	Thrombospondin type-1 domain-containing protein 1	THSD1	1	3
2015	Q8TB22	Spermatogenesis-associated protein 20 (Sperm-specific protein 411) (Ssp411)	SPATA20	1	3
2016	Q96DB5	Regulator of microtubule dynamics protein 1 (RMD-1) (hRMD-1) (Protein FAM82B)	RMDN1	1	3

2017	A6NDA9	Leucine-rich repeat, immunoglobulin-like domain and transmembrane domain-containing protein 2	LRIT2	1	3
2018	O14904	Protein Wnt-9a	WNT9A	1	3
2019	O95166	Gamma-aminobutyric acid receptor-associated protein	GABARAP	1	3
2020	Q16549	Proprotein convertase subtilisin/kexin type 7	PCSK7	1	3
2021	Q66K66	Transmembrane protein 198	TMEM198	1	3
2022	Q8NBJ4	Golgi membrane protein 1	GOLM1	1	3
2023	Q9NR71	Neutral ceramidase	ASAH2	1	3
2024	P35236	Tyrosine-protein phosphatase non-receptor type 7	PTPN7	1	2
2025	A6NC86	phospholipase A2 inhibitor and Ly6/PLAUR domain-containing protein	PINLYP	1	2
2026	O15530	3-phosphoinositide-dependent protein kinase 1	PDPK1	1	2
2027	O76050	E3 ubiquitin-protein ligase NEURL1	NEURL1	1	2
2028	P01344	Insulin-like growth factor II	IGF2	1	2
2029	P01579	Interferon gamma	IFNG	1	2
2030	P01589	Interleukin-2 receptor subunit alpha	IL2RA	1	2
2031	P12273	Prolactin-inducible protein	PIP	1	2
2032	P23528	Cofilin-1	CFL1	1	2
2033	Q13356	RING-type E3 ubiquitin-protein ligase PPIL2	PPIL2	1	2
2034	Q2TAL6	Brorin	VWC2	1	2
2035	Q6IBS0	Twinfilin-2	TWF2	1	2
2036	Q6UXG2	Endosome/lysosome-associated apoptosis and autophagy regulator 1	ELAPOR1	1	2
2037	Q8IYV9	Izumo sperm-egg fusion protein 1	IZUMO1	1	2
2038	Q96LT9	RNA-binding region-containing protein 3	RNPC3	1	2
2039	Q9H299	SH3 domain-binding glutamic acid-rich-like protein 3	SH3BGRL3	1	2
2040	Q9P0R6	GSK3B-interacting protein	GSKIP	1	2
2041	S4R418	Bridging integrator 2	BIN2	1	2
2042	Q5JXA9	Signal-regulatory protein beta-2 (SIRP-beta-2) (Protein tyrosine phosphatase non-receptor type substrate 1-like 3) (Protein tyrosine phosphatase non-receptor type substrate protein)	SIRPB2	1	1
2043	B2RUY7	von Willebrand factor C domain-containing protein 2-like	VWC2L	1	1
2044	B4DXW1	Actin-related protein 3	ACTR3	1	1
2045	C9J1Z8	ADP ribosylation factor 5	ARF5	1	1
2046	D6RF35	Vitamin D-binding protein	GC	1	1
2047	E9PK47	Alpha-1,4 glucan phosphorylase	PYGL	1	1
2048	E9PKE3	Heat shock cognate 71 kDa protein	HSPA8	1	1
2049	F5H5D3	Tubulin alpha chain	TUBA1C	1	1
2050	F8VPF3	Myosin light chain 6	MYL6	1	1
2051	G3V1A4	Cofilin-1	CFL1	1	1
2052	P01375	Tumor necrosis factor	TNF	1	1
2053	P01594	Immunoglobulin kappa variable 1-33	IGKV1-33	1	1
2054	P06314	Immunoglobulin kappa variable 4-1	IGKV4-1	1	1
2055	P10412	Histone H1.4	H1-4	1	1
2056	P29536	Leiomodin-1	LMOD1	1	1
2057	P48165	Gap junction alpha-8 protein	GJA8	1	1
2058	Q11201	CMP-N-acetylneuraminate-beta-galactosamide-alpha-2,3-sialyltransferase 1	ST3GAL1	1	1
2059	Q14667	Bridge-like lipid transfer protein family member 2	BLTP2	1	1
2060	Q16787	Laminin subunit alpha-3	LAMA3	1	1
2061	Q1W4C9	Serine protease inhibitor Kazal-type 13	SPINK13	1	1
2062	Q5T0R7	Cyclase associated actin cytoskeleton regulatory protein 1	CAP1	1	1
2063	Q5T4W7	Artemin	ARTN	1	1
2064	Q5TFQ8	Signal-regulatory protein beta-1 isoform 3	SIRPB1	1	1
2065	Q6NW40	Repulsive guidance molecule B	RGMB	1	1
2066	Q8IZ83	Aldehyde dehydrogenase family 16 member A1	ALDH16A1	1	1
2067	Q8N912	Nutritionally-regulated adipose and cardiac enriched protein homolog	NRAC	1	1
2068	Q9BQE3	Tubulin alpha-1C chain	TUBA1C	1	1

2069	Q9HBG7	T-lymphocyte surface antigen Ly-9	LY9	1	1
2070	P80188	Neutrophil gelatinase-associated lipocalin	LCN2	1	0
2071	Q8WYQ3	Coiled-coil-helix-coiled-coil-helix domain-containing protein 10, mitochondrial (Protein N27C7-4)	CHCHD10	1	0
2072	O43557	Tumor necrosis factor ligand superfamily member 14 (Herpes virus entry mediator ligand) (HVEM-L) (Herpesvirus entry mediator ligand) (CD antigen CD258) [Cleaved into: Tumor necrosis factor ligand superfamily member 14, membrane form; Tumor necrosis factor ligand superfamily member 14, soluble form]	TNFSF14	1	0
2073	P49773	Histidine triad nucleotide-binding protein 1 (EC 3.-.-.-) (Adenosine 5'-monophosphoramidase) (Protein kinase C inhibitor 1) (Protein kinase C-interacting protein 1) (PKCI-1)	HINT1	1	0
2074	O14737	Programmed cell death protein 5 (TF-1 cell apoptosis-related protein 19) (Protein TFAR19)	PDCD5	1	0
2075	Q9NY97	N-acetyllactosaminide beta-1,3-N-acetylglucosaminyltransferase 2 (EC 2.4.1.149) (Beta-1,3-N-acetylglucosaminyltransferase 1) (BGnT-1) (Beta-1,3-Gn-T1) (Beta3Gn-T1) (Beta-1,3-galactosyltransferase 7) (Beta-1,3-GalTase 7) (Beta3Gal-T7) (Beta3GalT7) (b3Gal-T7) (Beta-3-Gx-T7) (UDP-Gal:beta-GlcNAc beta-1,3-galactosyltransferase 7) (UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 2) (BGnT-2) (Beta-1,3-Gn-T2) (Beta-1,3-N-acetylglucosaminyltransferase 2) (Beta3Gn-T2) (UDP-galactose:beta-N-acetylglucosamine beta-1,3-galactosyltransferase 7)	B3GNT2	1	0
2076	P42167	Lamina-associated polypeptide 2, isoforms beta/gamma	TMPO	1	0
2077	O14907	Tax1-binding protein 3 (Glutaminase-interacting protein 3) (Tax interaction protein 1) (TIP-1) (Tax-interacting protein 1)	TAX1BP3	1	0
2078	Q8NEW7	Transmembrane inner ear expressed protein	TMIE	1	0
2079	Q96RL6	Sialic acid-binding Ig-like lectin 11 (Sialic acid-binding lectin 11) (Siglec-11)	SIGLEC11	1	0
2080	Q9H361	Polyadenylate-binding protein 3 (PABP-3) (Poly(A)-binding protein 3) (Testis-specific poly(A)-binding protein)	PABPC3	1	0
2081	P55854	Small ubiquitin-related modifier 3 (SUMO-3) (SMT3 homolog 1) (SUMO-2) (Ubiquitin-like protein SMT3A) (Smt3A)	SUMO3	1	0
2082	H7BY64	ZNF511-PRAP1 readthrough	ZNF511-PRAP1	1	0
2083	A0A075B7D0	Immunoglobulin heavy variable 1/OR15-1 (non-functional)	IGHV1OR15-1	1	0
2084	Q5HYB6	Epididymis luminal protein 189	DKFZp686J1372	1	0
2085	K7ER74	Apolipoprotein C-II	APOC4-APOC2	1	0
2086	A0A075B6K0	Immunoglobulin lambda variable 3-16	IGLV3-16	1	0
2087	A0A075B6R2	Immunoglobulin heavy variable 4-4	IGHV4-4	1	0
2088	A0A087X0I0	deleted	0	1	0
2089	A0A087X271	Calponin	CNN2	1	0
2090	A0A096LPE2	SAA2-SAA4 readthrough	SAA2-SAA4	1	0
2091	A0A0A0MT36	Immunoglobulin kappa variable 6D-21	IGKV6D-21	1	0
2092	A0A0A0MTH3	Integrin-linked protein kinase (59 kDa serine/threonine-protein kinase)	ILK	1	0
2093	A0A0C4DFP6	Cartilage acidic protein 1	CRTAC1	1	0
2094	A0A0J9YXB3	deleted		1	0
2095	A0A1B0GTW1	Tight junction protein 2	TJP2	1	0
2096	A0A1B0GW44	Cathepsin D (EC 3.4.23.5)	CTSD	1	0
2097	A1A4F0	Putative uncharacterized protein SLC66A1LP	SLC66A1LP	1	0
2098	A4D1E1	Zinc finger protein 804B	ZNF804B	1	0
2099	A4D256	Dual specificity protein phosphatase CDC14C	CDC14C	1	0
2100	A6NGH7	Coiled-coil domain-containing protein 160	CCDC160	1	0
2101	A6NGZ8	Small integral membrane protein 9	SMIM9	1	0
2102	B4DPQ0	complement subcomponent C1r	C1R	1	0
2103	B6SEH8	Endogenous retrovirus group V member 1 Env polypeptide	ERVV-1	1	0
2104	C9JB90	RAB6B, member RAS oncogene family	RAB6B	1	0
2105	C9JD84	Latent transforming growth factor beta binding protein 1	LTBP1	1	0
2106	C9JF17	Apolipoprotein D	APOD	1	0
2107	E9PDD2	Vascular cell adhesion molecule 1	VCAM1	1	0
2108	E9PGN7	Serpin family G member 1	SERPING1	1	0

2109	F5H699	adenylate cyclase	ADCY7	1	0
2110	F7VJQ1	Alternative prion protein	PRNP	1	0
2111	G3XAM2	Complement factor I	CFI	1	0
2112	H0Y2Y8	Zyxin	ZYX	1	0
2113	H0Y5J4	Drebrin like	DBNL	1	0
2114	H0Y6Z7	Receptor-type tyrosine-protein phosphatase F	PTPRF	1	0
2115	H0YAC1	Uncharacterized protein	0	1	0
2116	H3BPE8	Adenine nucleotide translocase lysine methyltransferase	ANTKMT	1	0
2117	H3BTN5	Pyruvate kinase	PKM	1	0
2118	H7BYY1	Tropomyosin alpha-1 chain	TPM1	1	0
2119	H7C3I1	ST13 Hsp70 interacting protein	ST13	1	0
2120	H7C457	Collagen type XVIII alpha 1 chain	COL18A1	1	0
2121	J3KNW4	deleted	0	1	0
2122	J3KRP0	Carnosine dipeptidase 1	CNDP1	1	0
2123	J3KST8	Cytokine receptor like factor 3	CRLF3	1	0
2124	J3KTJ1	Myosin light chain 12A	MYL12A	1	0
2125	O00750	Phosphatidylinositol 4-phosphate 3-kinase C2 domain-containing subunit beta	PIK3C2B	1	0
2126	O15061	Synemin	SYNM	1	0
2127	O15143	Actin-related protein 2/3 complex subunit 1B	ARPC1B	1	0
2128	O15172	Putative phosphoserine phosphatase-like protein	PSPHP1	1	0
2129	O15446	DNA-directed RNA polymerase I subunit RPA34	POLR1G	1	0
2130	O60469	Cell adhesion molecule DSCAM	DSCAM	1	0
2131	O60603	Toll-like receptor 2	TLR2	1	0
2132	O75019	Leukocyte immunoglobulin-like receptor subfamily A member 1	LILRA1	1	0
2133	O75022	Leukocyte immunoglobulin-like receptor subfamily B member 3	LILRB3	1	0
2134	P01614	Immunoglobulin kappa variable 2D-40	IGKV2D-40	1	0
2135	P01619	Immunoglobulin kappa variable 3-20	IGKV3-20	1	0
2136	P01708	Immunoglobulin lambda variable 2-11	IGLV2-11	1	0
2137	P01714	Immunoglobulin lambda variable 3-19	IGLV3-19	1	0
2138	P02042	Hemoglobin subunit delta	HBD	1	0
2139	P04150	Glucocorticoid receptor	NR3C1	1	0
2140	P04264	Keratin, type II cytoskeletal 1	KRT1	1	0
2141	P05013	Interferon alpha-6	IFNA6	1	0
2142	P06331	Immunoglobulin heavy variable 4-34	IGHV4-34	1	0
2143	P09769	Tyrosine-protein kinase Fgr	FGR	1	0
2144	P09958	Furin	FURIN	1	0
2145	P0C6C1	Ankyrin repeat domain-containing protein 34C	ANKRD34C	1	0
2146	P0C7M3	Surfactant-associated protein 3	SFTA3	1	0
2147	P0DP25	Calmodulin-3	CALM3	1	0
2148	P0DUB6	Alpha-amylase 1A	AMY1A	1	0
2149	P10144	Granzyme B	GZMB	1	0
2150	P10809	60 kDa heat shock protein, mitochondrial	HSPD1	1	0
2151	P13385	Protein Cripto	CRIPTO	1	0
2152	P13473	Lysosome-associated membrane glycoprotein 2	LAMP2	1	0
2153	P15260	Interferon gamma receptor 1	IFNGR1	1	0
2154	P22392	Nucleoside diphosphate kinase B	NME2	1	0
2155	P31431	Syndecan-4	SDC4	1	0
2156	P48304	Lithostathine-1-beta	REG1B	1	0
2157	P58400	Neurexin-1-beta	NRXN1	1	0
2158	P58401	Neurexin-2-beta	NRXN2	1	0
2159	P58417	Neurexophilin-1	NXPH1	1	0
2160	P60174	Triosephosphate isomerase	TPI1	1	0
2161	P83593	Immunoglobulin kappa variable 4-1	IGKV4-1	1	0

2162	Q00610	Clathrin heavy chain 1	CLTC	1	0
2163	Q07108	Early activation antigen CD69	CD69	1	0
2164	Q13061	Triadin	TRDN	1	0
2165	Q14807	Kinesin-like protein KIF22	KIF22	1	0
2166	Q2MKA7	R-spondin-1	RSPO1	1	0
2167	Q30KQ8	Beta-defensin 112	DEFB112	1	0
2168	Q3KNS1	Patched domain-containing protein 3	PTCHD3	1	0
2169	Q53G59	Kelch-like protein 12	KLHL12	1	0
2170	Q5HYC2	Uncharacterized bromodomain-containing protein 10	BRD10	1	0
2171	Q5S007	Leucine-rich repeat serine/threonine-protein kinase 2	LRRK2	1	0
2172	Q5TAT6	Collagen alpha-1	COL13A1	1	0
2173	Q658N2	Sialate:O-sulfotransferase 1	WSCD1	1	0
2174	Q69YN4	Protein virilizer homolog	VIRMA	1	0
2175	Q6B9Z1	Insulin growth factor-like family member 4	IGFL4	1	0
2176	Q6BCY4	NADH-cytochrome b5 reductase 2	CYB5R2	1	0
2177	Q6IQ23	Pleckstrin homology domain-containing family A member 7	PLEKHA7	1	0
2178	Q6NUJ2	Uncharacterized protein C11orf87	C11orf87	1	0
2179	Q6RFH5	WD repeat-containing protein 74	WDR74	1	0
2180	Q6UWP8	Suprabasin	SBSN	1	0
2181	Q6UXZ4	Netrin receptor UNC5D	UNC5D	1	0
2182	Q6ZR08	Dynein axonemal heavy chain 12	DNAH12	1	0
2183	Q6ZVN8	Hemojuvelin	HJV	1	0
2184	Q7Z2T5	TRMT1-like protein	TRMT1L	1	0
2185	Q7Z5L3	Complement C1q-like protein 2	C1QL2	1	0
2186	Q86W28	NACHT, LRR and PYD domains-containing protein 8	NLRP8	1	0
2187	Q86WV1	Src kinase-associated phosphoprotein 1	SKAP1	1	0
2188	Q86YB8	ERO1-like protein beta	ERO1B	1	0
2189	Q8IUL8	Cartilage intermediate layer protein 2	CILP2	1	0
2190	Q8IZN7	Beta-defensin 107	DEFB107A	1	0
2191	Q8IZP0	Abl interactor 1	ABI1	1	0
2192	Q8N0W4	Neurologin-4, X-linked	NLGN4X	1	0
2193	Q8N1Q1	Carbonic anhydrase 13	CA13	1	0
2194	Q8N5G2	Macoilin	MACO1	1	0
2195	Q8N688	Beta-defensin 123	DEFB123	1	0
2196	Q8N6M6	Aminopeptidase O	AOPEP	1	0
2197	Q8N6N2	Tetratricopeptide repeat protein 9B	TTC9B	1	0
2198	Q8N967	Leucine-rich repeat and transmembrane domain-containing protein 2	LRTM2	1	0
2199	Q8NE71	ATP-binding cassette sub-family F member 1	ABCF1	1	0
2200	Q8NFN8	Probable G-protein coupled receptor 156	GPR156	1	0
2201	Q8NI17	Interleukin-31 receptor subunit alpha	IL31RA	1	0
2202	Q8TDI0	Chromodomain-helicase-DNA-binding protein 5	CHD5	1	0
2203	Q8TDX9	Polycystin-1-like protein 1	PKD1L1	1	0
2204	Q8WU39	Marginal zone B- and B1-cell-specific protein	MZB1	1	0
2205	Q8WY98	Transmembrane protein 234	TMEM234	1	0
2206	Q92626	Peroxidasin homolog	PXDN	1	0
2207	Q92736	Ryanodine receptor 2	RYR2	1	0
2208	Q92843	Bcl-2-like protein 2	BCL2L2	1	0
2209	Q96AE7	Tetratricopeptide repeat protein 17	TTC17	1	0
2210	Q96LA6	Fc receptor-like protein 1	FCRL1	1	0
2211	Q96P64	Arf-GAP with GTPase, ANK repeat and PH domain-containing protein 4	AGAP4	1	0
2212	Q96PX8	SLIT and NTRK-like protein 1	SLITRK1	1	0
2213	Q96RL7	Intermembrane lipid transfer protein VPS13A	VPS13A	1	0
2214	Q9BY32	Inosine triphosphate pyrophosphatase	ITPA	1	0

2215	Q9C0J8	pre-mRNA 3' end processing protein WDR33	WDR33	1	0
2216	Q9H492	Microtubule-associated proteins 1A/1B light chain 3A	MAP1LC3A	1	0
2217	Q9HAP6	Protein lin-7 homolog B	LIN7B	1	0
2218	Q9NPH3	Interleukin-1 receptor accessory protein	IL1RAP	1	0
2219	Q9NZK5	Adenosine deaminase 2	ADA2	1	0
2220	Q9UBC9	Small proline-rich protein 3	SPRR3	1	0
2221	Q9UKR0	Kallikrein-12	KLK12	1	0
2222	Q9Y5T5	Ubiquitin carboxyl-terminal hydrolase 16	USP16	1	0
2223	V9GYG9	Apolipoprotein A-II	APOA2	1	0
2224	X6RJP6	Transgelin 2	TAGLN2	1	0
2225	P29965	CD40 ligand	CD40LG		5
2226	Q9NSA1	Fibroblast growth factor 21	FGF21		
2227	Q8IVG9	Humanin	MT-RNR2		

Приложение В. Список возраст-ассоциированных белков, предлагаемых для детекции методом SRM. *Количество пересечений* - отражает частоту встречаемости в 17 исследованных наборах данных; *МС-данные* - суммарное количество MS-экспериментов, полученное по базам PRIDE и SRMatlas; *концентрация, нмоль/л, CV и измерено в >70% образцов, CV≤40* - средняя концентрация белка в плазме здорового человека, коэффициент вариации и стабильная характеристика протеома, измеренная методом SRM (Kliuchnikova et al., *Int. J. Mol. Sci.*, 2023); жирным шрифтом выделены белки - маркеры старения

	Идентификатор Uniprot	Название белка	Название гена	Количество пересечений	МС-данные	Концентрация, нмоль/л	CV	Измерено в >70% образцов, CV≤40
1	Q9Y6F8	Testis-specific chromodomain protein Y 1	CDY1	1	196	0,05	27	
2	P61960	Ubiquitin-fold modifier 1	UFM1	2	562	0,2	39	
3	Q9NS62	Thrombospondin type-1 domain-containing protein 1	THSD1	1	3	0,3	33	
4	Q9GZX9	Twisted gastrulation protein homolog 1	TWSG1	2	0	0,6	33	✓
5	P36888	Receptor-type tyrosine-protein kinase FLT3	FLT3	1	749	0,7	15	
6	Q6XPS3	Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase TPTE2	TPTE2	1	34	1,1	27	
7	Q13464	Rho-associated protein kinase 1	ROCK1	1	159	1,1	29	
8	P49336	Cyclin-dependent kinase 8	CDK8	1	876	1,2	54	
9	P52799	Ephrin-B2	EFNB2	3	27	1,3	34	
10	P25705	ATP synthase subunit alpha, mitochondrial	ATP5F1A	1	289	1,5	64	
11	Q15796	Mothers against decapentaplegic homolog 2	SMAD2	2	25	1,9	28	✓
12	P16109	P-selectin	SELP	2	676	2,1	NA	
13	Q14574	Desmocollin-3	DSC3	1	22	2,4	27	✓

14	Q8IZF2	Adhesion G protein-coupled receptor F5	ADGRF5	1	512	2,5	NA	
15	P80188	Neutrophil gelatinase-associated lipocalin	LCN2	1	0	2,5	NA	
16	Q15849	Urea transporter 2	SLC14A2	1	180	2,6	62	
17	Q9H939	Proline-serine-threonine phosphatase-interacting protein 2	PSTPIP2	1	235	2,6	42	
18	P11717	Cation-independent mannose-6-phosphate receptor	IGF2R	2	8	4,1	NA	
19	O00194	Ras-related protein Rab-27B	RAB27B	1	146	5,2	45	
20	P16035	Metalloproteinase inhibitor 2	TIMP2	3	224	5,9	NA	
21	P16284	Platelet endothelial cell adhesion molecule	PECAM1	2	125	6,1	NA	
22	P18065	Insulin-like growth factor-binding protein 2	IGFBP2	7	553	8,5	NA	
23	P11279	Lysosome-associated membrane glycoprotein 1 *	LAMP1	1	170	9,5	27	✓
24	Q14126	Desmoglein-2	DSG2	3	205	11,2	24	✓
25	Q15166	Serum paraoxonase/lactonase 3	PON3	2	351	11,8	NA	
26	P00740	Coagulation factor IX	FA9	3	596	12,1	28	✓
27	P13796	Plastin-2	LCP1	4	120	12,3	22	✓
28	Q9HDC9	Adipocyte plasma membrane-associated protein	APMAP	5	30	13,1	NA	
29	P80511	Protein S100-A12	S100A12	2	0	13,2	NA	

30	P05160	Coagulation factor XIII B chain	F13B	3	415	13,6	NA	
31	Q9Y6R7	IgGFc-binding protein	FCGBP	1	29	13,7	NA	
32	P31371	Fibroblast growth factor 9	FGF9	1	530	15,6	42	
33	P00915	Carbonic anhydrase 1	CA1	1	356	16,4	NA	
34	Q9NQ79	Cartilage acidic protein 1	CRTAC1	5	10	16,9	NA	
35	P07996	Thrombospondin-1	THBS1	1	109	19,1	NA	
36	P08709	Coagulation factor VII	F7	1	460	19,3	34	✓
37	P43251	Biotinidase	BTB	2	502	24,5	30	✓
38	Q01459	Di-N-acetylchitinase	CTBS	1	10	26,6	NA	
39	P17936	Insulin-like growth factor-binding protein 3	IGFBP3	5	583	26,9	NA	
40	P33151	Cadherin-5	CDH5	2	3	30,9	NA	
41	P55058	Phospholipid transfer protein	PLTP	2	120	31,9	NA	
42	P06276	Cholinesterase	CHLE	1	214	32,3	28	✓
43	P01034	Cystatin-C	CST3	9	334	34,7	NA	
44	P04278	Sex hormone-binding globulin	SHBG	3	453	36	100	
45	P05543	Thyroxine-binding globulin	THBG	2	419	40,8	39	✓
46	P22792	Carboxypeptidase N subunit 2	CPN2	2	62	43,7	NA	
47	O43866	CD5 antigen-like	CD5L	2	91	43,7	NA	
48	P05452	Tetranectin	CLEC3B	4	123	44,4	NA	
49	Q92954	Proteoglycan 4	PRG4	1	39	46,3	NA	
50	P04070	Vitamin K-dependent protein C	PROC	3	396	49,4	NA	
51	P80108	Phosphatidylinositol-glycan-specific phospholipase D	GPLD1	3	0	53,2	NA	
52	Q9NZP8	Complement C1r subcomponent-like protein	C1RL	4	644	55,2	NA	

53	Q96KN2	Beta-Ala-His dipeptidase	CNDP1	8	1	57,8	32	✓
54	Q16610	Extracellular matrix protein 1	ECM1	4	348	60,9	NA	
55	P04275	von Willebrand factor	VWF	4	1026	62,2	26	✓
56	P55056	Apolipoprotein C-IV	APOC4	2	49	62,8	NA	
57	P05154	Plasma serine protease inhibitor	SERPINA 5	2	335	67,5	NA	
58	P07225	Vitamin K-dependent protein S	PROS	1	86	73,6	30	✓
59	P14151	L-selectin	SELL	8	878	76	18	
60	P61769	Beta-2-microglobulin	B2M	6	0	79,1	NA	
61	P61626	Lysozyme C	LYZ	3	789	80,1	NA	
62	P00488	Coagulation factor XIII A chain	F13A1	2	141	82,9	NA	
63	Q96IY4	Carboxypeptidase B2	CPB2	1	71	87	28	✓
64	P48740	Mannan-binding lectin serine protease 1	MASP1	6	123	89,9	NA	
65	Q9UGM5	Fetuin-B	FETUB	3	398	94,4	NA	
66	P07358	Complement component C8 beta chain	C8B	2	336	97,1	NA	
67	P06681	Complement C2	C2	2	964	102,1	NA	
68	Q15848	Adiponectin	ADIPOQ	3	126	105,3	NA	
69	P04180	Phosphatidylcholine-sterol acyltransferase	LCAT	1	788	106	NA	
70	P02775	Platelet basic protein	CXCL7	2	557	106,6	95	
71	P29622	Kallistatin	SERPINA 4	4	164	108,3	NA	
72	P06702	Protein S100-A9	S100A9	3	381	116,2	NA	
73	P22352	Glutathione peroxidase 3	GPX3	1	878	118,8	NA	
74	P15169	Carboxypeptidase N catalytic chain	CPN1	2	326	122,2	NA	
75	O75882	Attractin	ATRNL	1	397	126,1	NA	
76	P35858	Insulin-like growth factor-binding protein	IGFBP3	4	666	126,8	NA	

		complex acid labile subunit						
77	P02745	Complement C1q subcomponent subunit A	C1QA	2	436	131,9	NA	
78	P23142	Fibulin-1	FBLN1	1	404	137,5	NA	
79	P13671	Complement component C6	C6	4	982	143	NA	
80	P01031	Complement C5	CO5	6	702	150,8	27	✓
81	Q14520	Hyaluronan-binding protein 2	HABP2	1	255	160	NA	
82	P00742	Coagulation factor X	F10	7	330	170,3	29	✓
83	P10643	Complement component C7	C7	5	672	175,4	NA	
84	P01880	Immunoglobulin heavy constant delta	IGHD	2	612	186,6	91	
85	P07357	Complement component C8 alpha chain	C8A	3	946	188,3	NA	
86	P20742	Pregnancy zone protein	PZP	1	222	191,3	NA	
87	P69905	Hemoglobin subunit alpha	HBA1	1	830	197,1	NA	
88	P02741	C-reactive protein	CRP	4	589	199,4	NA	
89	P36955	Pigment epithelium-derived factor	SERPINF1	5	38	228,6	NA	
90	P08519	Apolipoprotein(a)	APOA	2	184	230,5	136	
91	P02746	Complement C1q subcomponent subunit B	C1QB	1	280	233,2	NA	
92	P09871	Complement C1s subcomponent	C1S	2	550	252,2	34	✓
93	P02748	Complement component C9	C9	6	368	259	20	
94	Q13790	Apolipoprotein F	APOF	4	152	266,6	NA	
95	P01019	Angiotensinogen	ANGT	2	584	268,6	73	
96	P51884	Lumican	LUM	6	0	284,2	NA	
97	Q96PD5	N-acetylmuramoyl	PGLYRP2	2	4	298,8	NA	

		-L-alanine amidase						
98	P00736	Complement C1r subcomponent	C1R	2	535	299,8	NA	
99	P05156	Complement factor I	CFI	3	500	342	NA	
100	O95445	Apolipoprotein M	APOM	3	25	358,4	NA	
101	P02750	Leucine-rich alpha-2- glycoprotein	LRG1	2	543	365,3	NA	
102	P02747	Complement C1q subcomponent subunit C	C1QC	1	347	379,6	20	✓
103	P05155	Plasma protease C1 inhibitor	IC1	6	344	399,5	35	✓
104	P00748	Coagulation factor XIIa HC	F12	3	504	415	5,2	
105	P51911	Calponin-1	CNN1	1	314	439,1	NA	
106	P0DJ18	Serum amyloid A-1 and A-2 proteins	SAA1	3	1	455,5	NA	
107	P01008	Antithrombin- III	ANT3	4	52	493,1	25	✓
108	P43652	Afamin	AFM	3	0	629	7,3	
109	P00747	Plasminogen	PLMN	6	267	661,5	25	✓
110	O14791	Apolipoprotein L1	APOL1	6	355	692,5	NA	
111	P04196	Histidine-rich glycoprotein	HRG	3	196	716,4	NA	
112	P01877	Immunoglobuli n heavy constant alpha 2	IGHA2	1	627	773,3	51	
113	P08185	Corticosteroid- binding globulin	SERPINA 6	1	333	787	NA	
114	P27169	Serum paraoxonase/ary lesterase 1	PON1	2	590	814,1	NA	
115	P02774	Vitamin D- binding protein	GC	2	82	840	60	
116	P02649	Apolipoprotein E	APOE	4	679	865	8	
117	P08697	Alpha-2- antiplasmin	A2AP	7	68	875,4	46	
118	P08603	Complement factor H	CFH	2	564	950	11	

119	Q14624	Inter- α -trypsin inhibitor HC	ITIH4	2	234	979	8	
120	P00751	Complement factor B	CFAB	1	85	1005	30	✓
121	P02655	Apolipoprotein C-II	APOC2	1	296	1083,2	NA	
122	P19823	Inter-alpha-trypsin inhibitor heavy chain H2	ITIH2	5	536	1193,1	NA	
123	P06312	Immunoglobulin kappa variable 4-1	IGKV4-1	1	181	1245,2	NA	
124	P02751	Fibronectin	FINC	7	395	1252	33	✓
125	P00450	Ceruloplasmin	CERU	3	877	1313,1	42	
126	P04114	Apolipoprotein B-100	APOB	5	0	1345,6	24	✓
127	P35542	Serum amyloid A-4 protein	SAA4	4	959	1398,6	NA	
128	P02753	Retinol-binding protein 4	RET4	1	706	1450,7	32	✓
129	P00734	Prothrombin	F2	5	1010	1482	8	
130	P01024	Complement C3	CO3	5	683	1532,8	23	✓
131	P06396	Gelsolin, isoform 1	GSN	3	330	1630	8	
132	P02743	Serum amyloid P-component	APCS	5	228	1890	23	
133	P05546	Heparin cofactor II	SERPIND1	2	533	1890	9	
134	P04003	C4b-binding protein alpha chain	C4BPA	1	136	1911	NA	
135	P02765	Alpha-2-HS-glycoprotein	AHSG	8	544	1982,7	27	✓
136	P05090	Apolipoprotein D	APOD	4	789	2108,7	NA	
137	P02790	Hemopexin	HEMO	3	651	2379,6	39	✓
138	P0C0L5	Complement C4 β chain	C4B	2	645	2410	13	
139	P10909	Clusterin	CLU	2	66	2620	14	
140	P06727	Apolipoprotein A-IV	APOA4	3	604	2680	6	
141	P02763	Alpha-1-acid glycoprotein 1	A1AG1	2	482	3057	28	✓
142	P02656	Apolipoprotein C-III	APOC3	1	283	3082,6	36	✓
143	P04217	α 1B-Glycoprotein	A1BG	3	167	3130	15	
144	P25311	Zinc- α 2-glycoprotein	AZGP1	4	421	3160	12	
145	P0C0L4	Complement C4 γ chain	C4A	2	944	3330	8	

146	P01871	Immunoglobulin heavy constant mu	IGHM	2	622	3390,1	50	
147	P01042	Kininogen-1	KNG1	2	110	3940	9	
148	P04004	Vitronectin	VTN	3	428	4120	13	
149	P02749	β 2-Glycoprotein I	APOH	2	481	5160	7	
150	P01011	α1-Antichymotrypsin	SERPINA3	8	714	5270	7	
151	P02679	Fibrinogen gamma chain	FIBG	6	588	5384	30	✓
152	P02675	Fibrinogen beta chain	FIBB	3	598	5385,4	45	
153	P02766	Transthyretin	TTR	2	705	7108	24	✓
154	P00738	Haptoglobin (Zonulin)	HPT	5	429	7346,8	68	
155	P02654	Apolipoprotein C-I lipoprotein	APOC1	1	487	8100	6	
156	P04220 P01871	Ig mu heavy chain disease protein and Ig mu chain C	IGHM	1	532	9031,9	NA	
157	P01009	Alpha-1-antitrypsin	A1AT	2	600	10191,4	26	✓
158	P01876	Immunoglobulin heavy constant alpha 1	IGHA1	2	590	15428,1	39	✓
159	P01023	Alpha-2-macroglobulin	A2MG	3	498	15468,4	36	✓
160	P02671	Fibrinogen alpha chain	FIBA	5	494	18212,6	26	✓
161	P02787	Serotransferrin	TRFE	3	713	20684,3	32	✓
162	P01857	Immunoglobulin heavy constant gamma 1	IGHG1	2	52	35380,6	24	✓
163	P02647	Apolipoprotein A-I	APOA1	4	383	36618,3	18	✓
164	P01861	Immunoglobulin heavy constant gamma 4	IGHG4	1	635	48046,6	46	
165	P02652	Apolipoprotein A-II precursor	APOA2	2	608	56800	10	
166	P01834	Immunoglobulin kappa constant	IGKC	1	388	100411,2	39	✓
167	P02768	Albumin, serum	ALB	6	583	1101000	6	

Приложение

Список протеотипических пептидов (согласно SRMatlas) для оценки пригодности для использования в таргетной панели с помощью мониторинга множественных реакций (SRM).

№	Идентификатор Uniprot	Пептидная последовательность	Количество аминокислот	Недорасщепленные участки	
1	P15692	SRPCGPCSER	10	0-9	Есть
		SWSVYVGAR	9	0-8	Есть
		SWSVCDKPR	9	0-8	Есть
		HLFVQDPQTCK	11	0-10	Есть
		CCLMPWSLPGPHPCGPCSER	20	0-19	Есть
		CGGCCNDEGLECVPTESNITMQIMR	26	0-25	Есть
		IKPHQGGHIGEMSFLQHNK	19	0-18	Есть
		SWSVPCGPCSER	12	0-11	Есть
		QENPCGPCSER	11	0-10	Есть
		APMAEGGGQNHHEVVK	16	0-15	Есть
2	P01034	AFCSEFIYAVPWQGTMTLSK	20	0-19	Есть
		ALDFAVGEYNK	11	0-10	Есть
		ASNDMYHSR	9	0-8	Есть
		LVGGPMDASVEEEGVR	16	0-15	Есть
		TQPNLDNCPFHDQPHLK	17	0-16	Есть
		QIVAGVNYFLDVELGR	16	0-15	Есть
3	P14151	SYWIGIR	8	0-7	Нет
		TICSSGIWSNPSPICQK	18	0-17	Есть
		AEIEYLEK	8	0-7	Есть
		WNDDACHK	8	0-7	Есть
		IGGIWTWVGTKN	12	0-11	Есть
		DFLAHHGTDC	10	0-9	Есть
		DNYTDLVAIQNK	12	0-11	Есть
		EDCVEIYIK	9	0-8	Нет
		WTYHYSEKPMNWQR	14	0-13	Есть
		EGDYNPLFIPVAVMVTAFSGLAFIWLAR	29	0-28	Есть
		SLTEEAENWGDGEPNNK	17	0-16	Есть
4	P01011	ITLLSALVETR	11	0-10	Есть
		FNRPFMIIVPTDTQNIFFMSK	22	0-21	Есть
		WEMPFDPQDTHQSR	14	0-13	Есть
		DLDSQTMMVLVNYIFFK	17	0-16	Есть
		NVIFSPLSISTALAFSLGAHNTTLTEILK	30	0-29	Есть
		DYNLNDILLQLGIEEAFTSK	20	0-19	Есть
		WVMVPMMSLHHLTIPYFR	18	0-17	Есть
		FNLTTSEAEIHQSFGHLLR	20	0-19	Есть
		YTGNASALFILPDQDK	16	0-15	Есть
		HLLPQQSK	8	0-7	Есть
		LYGSEAFATDFQDSAAAK	18	0-17	Есть
		HPNSPLDEENLTQENQDR	18	0-17	Есть

		EQLSLDDR	8	0-7	Есть
		GTHVDLGLASANVDFAFSLYK	21	0-20	Есть
		EIGELYLPK	9	0-8	Есть
		LINDYVK	7	0-6	Есть
		ADLSGITGAR	10	0-9	Есть
		TLNQSSDELQLSMGNAMFVK	20	0-19	Есть
		DEELSVTVVELK	12	0-11	Есть
		LCLMYLR	7	0-6	Есть
		NSPLDEENLTQENQDR	16	0-15	Есть
		NLAVSQVVHK	10	0-9	Есть
		AVLDVFEEGTEASAATAVK	19	0-18	Есть
		MEEVEAMLLPETLK	14	0-13	Есть
5	P02765	VWPQQPSGELFEIEIDTLETTCHVLDPTPVAR	32	0-31	Есть
		APHGPGLIYR	10	0-9	Есть
		HTFMGVVSLGSPGEVSHPR	20	0-19	Есть
		TVVQPSVGAAAGPVVPPCPGR	21	0-20	Есть
		CNLLAEK	7	0-6	Есть
		AALAAFNAQNNGSNFQLEEISR	22	0-21	Есть
		LAAPPGHQLHR	11	0-10	Есть
		FSVVYAK	7	0-6	Есть
		AQLVPLPPSTYVEFTVSGTDCVAK	24	0-23	Есть
		VCQDCPLLAPLNDTR	15	0-14	Есть
		QPNCDDEPETEEAALVAIDYINQNLPGWYK	29	0-28	Есть
		LGGAEVAVTCMVFQTQPVSSQPQPEGANEAVPTPVVDPDAPPSPLGAPGLPPAG	63	0-62	Есть
		SPPDHVL			
		EHAVEGDCDFQLLK	14	0-13	Есть
		EATEAAK	7	0-6	Есть
		CDSSPDSAEDVR	12	0-11	Есть
		HTLNQIDEVK	10	0-9	Есть
6	P18065	DAEYGASPEQVADNGDDHSEGLVENHVDSTMNMLGGGGSAGR	43	0-42	Есть
		LIQGAPTIR	9	0-8	Есть
		MPCAELVR	8	0-7	Есть
		CYPHPGSELPLQALVMGEGTCEK	23	0-22	Есть
		EPGCGCCSVCAR	12	0-11	Есть
		CPPCTPER	8	0-7	Есть
		GDPECHLFYNEQQEAR	16	0-15	Есть
		TPCQQELDQVLER	13	0-12	Есть
		HHLGLEEPK	9	0-8	Есть
		LAACGPPPVAPPAVAAGGAR	23	0-22	Есть
		MSLNGQR	7	0-6	Есть
		LRPPPAR	7	0-6	Есть
		LEGEACGVYTPR	12	0-11	Есть
		GPLEHLYSLHIPNCDK	16	0-15	Есть
		HGLYNLK	7	0-6	Есть
		GECWCVPNPTGK	12	0-11	Есть
7	P02751	VVTPLSPPTNLHLEANPDTGVLTVSWER	28	0-27	Есть
		FDFTTTST	8	0-7	Есть
		ATGVFTTLQPGSSIPPYNTEVTETTIVITWTPAPR	35	0-34	Есть
		HTSVQTTSSGSGPFTDVR	18	0-17	Есть
		ITYGETGGNSPVQEFTVPGSK	21	0-20	Есть
		NLQPASEYTVSLVAIK	16	0-15	Есть
		YQCYCYGR	8	0-7	Есть
		ESVPISDTIIPAVPPPTDLR	20	0-19	Есть
		GNLLQCICTGNR	13	0-12	Есть

	EEVVTVGNSR	10	0-9	Есть
	ENSPVQEFTVPGSK	14	0-13	Есть
	TYLGNALVCTCYGGS	16	0-15	Есть
	EEVVTVGNSVNEGLNQPTDDSCFDPYTVSHYAVGDEWER	39	0-38	Есть
	QHDMGHMMR	9	0-8	Есть
	VFAVSHGR	8	0-7	Есть
	TFYSCTTEGR	10	0-9	Есть
	ITGYIIK	7	0-6	Есть
	VTYSSPEDGIHELFPAPDGEEDTAELQGLRPGSEYTVSVVALHDDMESQPLIGTQS TAIPAPTDLK	66	0-65	Есть
	TVNEGLNQPTDDSCFDPYTVSHYAVGDEWER	31	0-30	Есть
	DSMIWDCTCIGAGR	14	0-13	Есть
	HYQINQWER	10	0-9	Есть
	QGENGQMMSCTCLGNGK	17	0-16	Есть
	TGLDSPTGIDFSDITANSFTVHWIAPR	27	0-26	Есть
	LGVRPSQGGEAPR	13	0-12	Есть
	SSPVVIDASTAIDAPSNLR	19	0-18	Есть
	TPFVTHPGYDTGNGIQLPGTSGQQPSVGQQMIFEEHGFR	39	0-38	Есть
	MSESGFK	7	0-6	Есть
	GLAFTDVEDVDSIK	13	0-12	Есть
	QYNVGPSVSK	10	0-9	Есть
	SYTITGLQPGETDYK	14	0-13	Есть
	HHPEHFSGRPR	11	0-10	Есть
	EYLGAICTCFGGQR	16	0-15	Есть
	DQCIVDDITYNVNDTFHK	18	0-17	Есть
	YEKPGSPPR	9	0-8	Есть
	GFNCESKPEAEETCFDK	17	0-16	Есть
	NSITLTNLTPGTEYVVSIVALNGR	24	0-23	Есть
	DLQFVEVTDVK	11	0-10	Есть
	CHEGGQSYK	9	0-8	Есть
	EINLAPDSSSVVVSGLMVATK	21	0-20	Есть
	EVVPRPRPGVTEATITGLEPGTEYTIYVIALK	32	0-31	Есть
	FGFCMAAHEEICTTNEGVMYR	22	0-21	Есть
	TDELQQLVTLPHPNLHGPEILDVPSTVQK	29	0-28	Есть
	GGNSNGALCHFPFLYNNHNYTDCTSEGR	28	0-27	Есть
	ITVVAAGEGIPIFEDFVDSSVGYTVTGLEPGIDYDISVITLINGGESAPTTLTQQT AVPPPTDLR	66	0-65	Есть
	CDPVDQCQDSETGTFYQIGDSWEK	24	0-23	Есть
	IAWESPQGQVSR	12	0-11	Есть
	NGPGPTK	7	0-6	Есть
	LTVGLTR	7	0-6	Есть
	ESKPLTAQQTTK	12	0-11	Есть
	DTLTSRPAQGVVTTLENVSPPR	22	0-21	Есть
	WLPSSSPVTGYR	12	0-11	Есть
	GIGEWHCQLQTYPSSSGPVEVFITETPSQPNSHPIQWNAQPSHISK	48	0-47	Есть
	ATITGYR	7	0-6	Есть
	VEYELSEEGDEPQYLDLPSTATSVNIPDLLPGR	33	0-32	Есть
	ATSESVTEITASSFVSWVSASDTVSGFR	29	0-28	Есть
	CNDQDTR	7	0-6	Есть
	IGDTWSK	7	0-6	Есть
	LDAPTNLQFVNETDSTVLVR	20	0-19	Есть
	TDSTTSNYEQDQK	13	0-12	Есть
	LLCQCLGFGSGHFR	14	0-13	Есть
	YEVSVYALK	9	0-8	Есть
	HRPRPYPPNVGQEALSQTTISWAPFQDTSEYIISCHPVGTDDEPLQFR	48	0-47	Есть

	STTPDITGYR	10	0-9	Есть
	IGDQWDK	7	0-6	Есть
	TNTNVNCPIECFMPLDVQADR	21	0-20	Есть
	FTNIGPDTMR	10	0-9	Есть
	TYHVGEQWQK	10	0-9	Есть
	DLEVVAATPTSLLISWDAPAVTVR	24	0-23	Есть
	CTCVGNR	8	0-7	Есть
	FTQVTPTSLSAQWTPPNVQLTGYR	24	0-23	Есть
	VPGTSTSATLTGLTR	15	0-14	Есть
	YIVNVYQISEDGEQSLILSTSQTAPDAPPDITVDQVDDTSIVVR	45	0-44	Есть
	WCHDNGVNYK	10	0-9	Есть
	SEPLIGR	7	0-6	Есть
	TAGPDQTEMIEGLQPTVEYVVSVAQNPSGESQPLVQTAVTTIPAPTDLK	51	0-50	Есть
	NEEDVAELSISPSDNAVVLTNLLPGTEYVVS SVSSVYEQHESTPLR	45	0-44	Есть
	ISCTIANR	8	0-7	Есть
	YTGNTYR	7	0-6	Есть
	GLKPGVVYEGQLISIQYGHQEVTR	25	0-24	Есть
	WSRPQAPITGYR	12	0-11	Есть
	AQITGYR	7	0-6	Есть
	FDFTTSTSTPVTSTNTVTGETTPFSPLVATSESVTEITASSFVVSWSASDTVSGFR	57	0-56	Есть
	ITTTPTNGQQGNSLEEVVHADQSSCTFDNLSPGLEYNVSVYTVK	44	0-43	Есть
	TETITGFQVDAVPANGQTPIQR	22	0-21	Есть
	HEEGHMLNCTCFGQGR	16	0-15	Есть
	EATIPGHLNSYTIK	14	0-13	Есть
	QMLCTCLNGVSCQETAVTQTYGGNSNGEPCVLPFTYNGR	40	0-39	Есть
	EDVDYHLYPHGPGLNPNASTGQEALSQTTISWAPFQDTSEYIISCHPVGTDEEPLQFR	58	0-57	Есть
	VTIMWTPPESAVTGYR	16	0-15	Есть
	VDVIPVNLPGEHGQR	15	0-14	Есть
	STATISGLKPGVDYTITVYAVTGR	24	0-23	Есть
	HRPRPYPPNVGEEIQIGHIPR	21	0-20	Есть
	TEIDKPSQMQVTDVQDNSISVK	22	0-21	Есть
	VTWAPPPSIDLTNFLVR	17	0-16	Есть
	RPHETGGYMLECVCLGNGK	19	0-18	Есть
	TGQEALSQTTISWAPFQDTSEYIISCHPVGTDEEPLQSTK	40	0-39	Есть
	GEWTCIAYSQLR	12	0-11	Есть
	EVTSDSGSIVVSGLTPGVEYVYTIQVLR	28	0-27	Есть
	VTDATETTITISWR	14	0-13	Есть
	RPGGEPSPGTTGQSYNQYSQR	22	0-21	Есть
	IVYSPSVEGSSTELNLPETANSVTLSDLQPGVQYNITIYAVEENQESTPVVIQETTGTPR	61	0-60	Есть
	AAVYQPQHPQPPYGHCVTDSGVVYSVGMQWLK	34	0-33	Есть
	TGQEALSQTTISWAPFQDTSEYIISCHPVGTDEEPLQFR	39	0-38	Есть
	QMLCTCLNGVSCQETAVTQTYGGNSNGEPCVLPFTYNDR	40	0-39	Есть
	IYLYTLNDNAR	11	0-10	Есть
	TAGPDQTEMIEGLQPTVEYVVSVAQNPSGESQPLVQTAVTNIDRPK	48	0-47	Есть
	NTFAEVTGLSPGVYYFK	18	0-17	Есть
	CDPHEATCYDDGK	13	0-12	Есть
	TIKPDVR	7	0-6	Есть
	YSFCTDHTVLVQTR	14	0-13	Есть
	EESPLLIGQQSTVSDVPR	18	0-17	Есть
	DAPIVVK	7	0-6	Есть
	WCGTTQNYDADQK	13	0-12	Есть
	FSDITANSFTVHWIAPR	17	0-16	Есть
	QDGHLCSTTSNYEQDQK	18	0-17	Есть

		GNQESPK	7	0-6	Есть
		GDSPASSKPISINYR	15	0-14	Есть
		ESVPISDTHIPEVPQLTDLSEFVDITDSSIGLR	32	0-31	Есть
		SDTVPSPR	8	0-7	Есть
		GATYNVIVEALK	12	0-11	Есть
		WTPLNSSTIIGYR	13	0-12	Есть
		CFDHAAGTSYVVGETWEKPYQGWMVDDCTCLGEGSGR	37	0-36	Есть
		WRPVSIPPR	9	0-8	Есть
		FLATTPNSLLVSWQPPR	17	0-16	Есть
		GEWTCKPIAEK	11	0-10	Есть
		VGDTYERPK	9	0-8	Есть
		TTPPTTATPIR	11	0-10	Есть
		PIQWNAPOQPSHISK	14	0-13	Есть
		QAQMVQSPVAVSQSKPGCYDNGK	26	0-25	Есть
8	P00742	GDNNLTR	7	0-6	Есть
		TGIVSGFGR	9	0-8	Есть
		LSSFIITQNMFCAGYDTK	19	0-18	Есть
		DGECPWQALLINEENEGFCGGTILSEFYILTAACHLYQAK	40	0-39	Есть
		DGDQCETSPCQNGK	15	0-14	Есть
		GYTLADNGK	9	0-8	Есть
		ECMEETCSYEEAR	13	0-12	Есть
		DGLGEYTCTCLEGFEGK	17	0-16	Есть
		MNVAPACLPER	11	0-10	Есть
		ETYDFDIAVLR	11	0-10	Есть
		LCSLDNGDCDQFCHEEQNSVVCSCAR	26	0-25	Есть
		DTYFVTGIVSWGEGCAR	17	0-16	Есть
		SHAPEVITSSPLK	13	0-12	Есть
		ACIPTGPYPCGK	12	0-11	Есть
		NCELFR	7	0-6	Есть
		EVFEDSDK	8	0-7	Есть
		IVGGQECK	8	0-7	Есть
		TNEFWNK	7	0-6	Есть
		ANSFLEEMK	9	0-8	Есть
		QEDACQGDGSGPHVTR	16	0-15	Есть
		NTEQEEGGEAVHEVEVVIK	19	0-18	Есть
		MLEVPYVDR	9	0-8	Есть
		SVAQATSSSGEAPDSITWKPYDAADLDPTENPFDLLDFNQTPER	45	0-44	Есть
		DWAESTLMTQK	11	0-10	Есть
9	P02778	VEIATMK	8	0-7	Есть
		LEIIPASQFCPR	12	0-11	Есть
		CLNPESK	7	0-6	Есть
		CTCISISNPVNPR	14	0-13	Есть
10	P08697	EDFLEQSEQLFGAKPVSLTGK	21	0-20	Есть
		HQMDLVATLSQLGLQELFQAPDLR	24	0-23	Есть
		DFLQSLK	7	0-6	Есть
		DSFHLDEQFTVPVEMMQAR	19	0-18	Есть
		FDPSLTQR	8	0-7	Есть
		QEDDLANINQWVK	13	0-12	Есть
		LQQVLHAGSGPCLPHLLSR	19	0-18	Есть
		SPPGVCSR	8	0-7	Есть
		LGNQEPGGQTALK	13	0-12	Есть
		LGNQVQPGAQNHTLQR	16	0-15	Есть
		LVPPMEEDYPQFGSPK	16	0-15	Есть

		IQEFLSGLPEDTVLLLLNAIHFGQFWR	27	0-26	Есть
		LCQDLGPGAFR	11	0-10	Есть
		EQQDSPGNK	9	0-8	Есть
		AMMAFTADLFSLVAQTSTCPNLILSPLSVALALSHLALGAQNHTLQR	47	0-46	Есть
		NQEQVSPLTLLK	12	0-11	Есть
		WFLLEQPEIQVAHFPEK	17	0-16	Есть
		MSLSSFVNRPFLFFIFEDTTGLPLFVGSVR	31	0-30	Есть
		NNMSFVVLVPTHFEWNVVSQVLANLSWDTLHPPLVWERPTK	40	0-39	Есть
		LFGPDLK	7	0-6	Есть
		NPNPSAPR	8	0-7	Есть
		GISEQSLVVGSGVQHQTLELSEVGVEAAAATSIAMSR	37	0-36	Есть
		DPTPEQTHR	9	0-8	Есть
11	P01031	GALHNYK	7	0-6	Есть
		LSMDIDVSYK	10	0-9	Есть
		CCYDGACVNNDTCEQR	17	0-16	Есть
		SDLGCGAGGGLNNANVFHLAGLTFLTANADDSQENDEPCK	41	0-40	Есть
		DSEITFIK	8	0-7	Есть
		NFLGRPVEVLLNDDLIVSTGFGSLATVHVTTVVHK	36	0-35	Есть
		DTTCSSCAFLANLDEFAEDIFLNGC	26	0-25	Есть
		AFDICPLVK	9	0-8	Есть
		TLLPVSKPEIR	11	0-10	Есть
		VYSLNDDLKPAK	12	0-11	Есть
		ENSLYLTAFTVIGIR	15	0-14	Есть
		ENSQYQPIK	9	0-8	Есть
		VEGSSSHLVFTVLPLEIGHLNINFSLETWFGK	33	0-32	Есть
		ATLLDIYK	8	0-7	Есть
		WLSEEQR	7	0-6	Есть
		AIAYSLSQSYLYIDWTDNHK	21	0-20	Есть
		IEEIAAK	7	0-6	Нет
		EESSSGSHAVMDISLPTGISANEEDLK	28	0-27	Есть
		ALLVGEHLNIIVTPK	15	0-14	Есть
		AFTECCVVASQLR	13	0-12	Есть
		TSGMQFCVK	9	0-8	Есть
		ALVEGVDQLFTDYQIK	16	0-15	Есть
		VDDGVASFVNLNPSGVTVLEFNVK	24	0-23	Есть
		DINYVNPVIK	10	0-9	Есть
		ETVLTIFIDPEGSEVDMVEEIDHIGISFPDFK	32	0-31	Есть
		NADYSYSVWK	10	0-9	Есть
		CGNQLQVHLSPDADAYSPGQTVSLNMATGMDSWVALAAVDSAVYGVQR	48	0-47	Есть
		VFQFLEK	7	0-6	Нет
		FSYSSGHVHLSENK	15	0-14	Есть
		QLPGGQNPVSYVYLEVVS	19	0-18	Есть
		IVACASYKPSR	11	0-10	Есть
		GEQIQLK	7	0-6	Есть
		TGEAVAEK	8	0-7	Есть
		LQGTLPVEAR	10	0-9	Есть
		YGMWTIK	7	0-6	Есть
		QYLIMGK	7	0-6	Есть
		VSITSITVENVFVK	14	0-13	Есть
		VVTEADVYITFGIR	14	0-13	Есть
		DSLQDLVGGVPVTLNAQTIDVNQETSDLDPSK	32	0-31	Есть
		ELSYYSLEDLNNK	13	0-12	Есть
		LNLVATPLFLKPGIPYPIK	19	0-18	Есть

		YVEQNQNSICNSLLWLVENYQLDNGSFK	28	0-27	Есть
		QTACKPEIAYAYK	13	0-12	Есть
		YVLSPYK	7	0-6	Есть
		GNPPIYR	7	0-6	Есть
		IPLDLVPK	8	0-7	Есть
		QLQFALPDSLTTWEIQGVGISNTGICVADTVK	32	0-31	Есть
		SYFPESWLWEVHLVPR	16	0-15	Есть
		SIVSALK	7	0-6	Есть
		QEPTYVISAPK	11	0-10	Есть
		VTCTNAELVK	10	0-9	Есть
		MVETTAYALLTSLNLK	16	0-15	Есть
		NFEITIK	7	0-6	Есть
		GLLVGEILSAVLSQEGINILTHLPK	25	0-24	Есть
		YGGGFYSTQDTINAIEGLTEYSLLVK	26	0-25	Есть
		IDTALIK	7	0-6	Нет
		TSTSEEVCSFYLK	13	0-12	Есть
		GSAEAEIEMSVVPVFYVFHYLETGNHWNIFHSDPLIEK	37	0-36	Есть
		GIYGTISR	8	0-7	Есть
		VGASENIVIQVYGYTEAFDATISIK	25	0-24	Есть
		EDFSTTGAYFEVK	14	0-13	Есть
		TDAPDLPEENQAR	13	0-12	Есть
		VVPEGVK	7	0-6	Есть
		YLYIAVTVIESTGGFSEEAEIPGIK	25	0-24	Есть
		MPITYDNGFLFIHTDKPVYTPDQSVK	26	0-25	Есть
		EYVLPHEFSVSIEPEYNFIGYK	21	0-20	Есть
		IFELFEVGFLSPATFTVYEHYHRPK	25	0-24	Есть
		QCTMFYSTSNIK	12	0-11	Есть
		VCEGAACK	8	0-7	Есть
		DVFLEMNIPYSVVR	14	0-13	Есть
		MSAVEGICTSESPVIDHQGTK	21	0-20	Есть
		LLVYYIVTGEQTAELVSDSVWLNIEEK	27	0-26	Есть
		IIHFGTR	7	0-6	Есть
		IDTQDIEASHYR	12	0-11	Есть
		ITHYNYLILSK	11	0-10	Есть
		EMMQTAMQNTMLINGIAQVTFDSETAVK	28	0-27	Есть
		DSSVPNTGTAR	11	0-10	Есть
		EGMLSIMSYR	10	0-9	Есть
		YIYPLDSLTIWIEYWPR	16	0-15	Есть
		CVEADCGMQEELDLTISAETR	22	0-21	Есть
		ADNFLENTLPAQSTFTLAISAYALSLGDK	30	0-29	Есть
		ESYSGVTLDPR	11	0-10	Есть
		FSDASYQSINIPVTQNMVPSSR	22	0-21	Есть
		FQNSAILTIQPK	12	0-11	Есть
		VLGQVNK	7	0-6	Есть
		GYGNSDYK	8	0-7	Есть
		DGHVILQLNSIPSSDFLCVR	20	0-19	Есть
		GGSASTWLTAFALR	14	0-13	Есть
		GTVYNYR	7	0-6	Есть
12	P02679	TSTADYAMFK	10	0-9	Есть
		MLEEIMK	7	0-6	Есть
		FEGNCAEQDGSWWMNK	17	0-16	Есть
		QVRPEHPAETEDSLYPEDDL	21	0-20	Есть
		YLQEIYNSNNQK	12	0-11	Есть

		DTVQIHDITGK	11	0-10	Есть
		LTIGEGQQHHLGGAK	15	0-14	Есть
		ANQQFLVYCEIDGSGNGWTVFQK	23	0-22	Есть
		DLQSLEDILHQVENK	15	0-14	Есть
		DCQDIANK	8	0-7	Есть
		IHLISTQSAIPYALR	15	0-14	Есть
		VAQLEAQCQEPCCK	13	0-12	Есть
		DNCCILDER	9	0-8	Есть
		FGSYCPTTCGIADFLSTYQTK	21	0-20	Есть
		QSGLYFIKPLK	11	0-10	Есть
		LTYAYFAGGDAGDAFDGDFGDDPSDK	27	0-26	Есть
		FFTSHNGMQFSTWDNDNDK	19	0-18	Есть
		AIQLTYNPDESSKPNMIDAATLK	23	0-22	Есть
		LDGSVDFK	8	0-7	Есть
		VELEDWNGR	9	0-8	Есть
		ASTPNGYDNGIHWATWK	17	0-16	Есть
		YEASILTHDSSIR	13	0-12	Есть
		EGFGHLSPTGTTEFWLGNEK	20	0-19	Есть
		VGPEADK	7	0-6	Есть
		CHAGHLNGVYYQGGTYSK	18	0-17	Есть
13	P02768	NECFLQHK	8	0-7	Есть
		DDNPNLPR	8	0-7	Есть
		HPDYSVVLLLR	11	0-10	Есть
		VHTECCHGDLLECADDR	17	0-16	Есть
		YICENQDISSK	12	0-11	Есть
		LVTDLTK	7	0-6	Есть
		ETCFAEEGK	9	0-8	Есть
		ALVLIAFAQYLQCPFEDHVK	21	0-20	Есть
		DVFLGMFLYEYAR	13	0-12	Есть
		HPYFYAPELLFFAK	14	0-13	Есть
		FQNALLVR	8	0-7	Есть
		AEFAEVSK	8	0-7	Есть
		QNCELFEQLGEYK	13	0-12	Есть
		CCAAADPHECYAK	13	0-12	Есть
		YLYETTLK	9	0-8	Есть
		MPCAEDYLSVVLNQLCVLHEK	21	0-20	Есть
		SLHTLFGDK	9	0-8	Есть
		ECCEKPLEK	10	0-9	Есть
		LCTVATLR	8	0-7	Есть
		LVNEVTEFAK	10	0-9	Есть
		RPCFSALEVDETYVPK	16	0-15	Есть
		YLYEIAR	7	0-6	Есть
		ETYGEMADCCAK	12	0-11	Есть
		CCTESLVNR	9	0-8	Есть
		AVMDDFAAFVEK	12	0-11	Есть
		EFNAETFTFHADICTLSEK	19	0-18	Есть
		AAFTECCQAADK	12	0-11	Есть
		LVRPEVDVMCTAFHDNEETFLK	22	0-21	Есть
		AACLLPK	7	0-6	Есть
		DLGEENFK	8	0-7	Есть
		VPQVSTPTLVEVSR	14	0-13	Есть
		SHCIAEVENDEMPADLPSLAADFVESK	27	0-26	Есть
		QTALVELVK	9	0-8	Есть

		LVAASQAALGL	11	0-10	Есть
		VFDEFKPLVEEPQNLIK	17	0-16	Есть
		TYETTLEK	8	0-7	Есть
		TCVADESAENC DK	13	0-12	Есть
14	P17931	LGISGDIDLTSASYTMI	17	0-16	Есть
		QSVFPFESGKPKFK	13	0-12	Есть
		LDNNWGR	7	0-6	Есть
		MLITILGTVKPNANR	15	0-14	Есть
		IALDFQR	7	0-6	Есть
		VAVNDAHLLQYNHR	14	0-13	Есть
		IQVLVEPDHFK	11	0-10	Есть
		GNDVAFHFNP R	11	0-10	Есть
		VIVCNTK	7	0-6	Есть
15	P02748	FTPTETNK	8	0-7	Есть
		TAGYGINILGMDPLSTPFDNEFYNGLCNR	29	0-28	Есть
		AIEDYINEFSVR	12	0-11	Есть
		SIEVFGQFNGK	11	0-10	Есть
		CTDAVGDR	8	0-7	Есть
		MSPWSEWSQCDPCLR	15	0-14	Есть
		RPWNVASLIYETK	13	0-12	Есть
		GEYFAFLETYGYTHYSSGSLGGLYELIYVLDK	32	0-31	Есть
		AVNITSENIDDDVSLIR	18	0-17	Есть
		LSPIYNLVPVK	11	0-10	Есть
		ALPTTYEK	8	0-7	Есть
		NETYQLFLSYSSK	13	0-12	Есть
		ISEGLPALEFPNEK	14	0-13	Есть
		QYTTSYDPELTSSGSASHIDCR	23	0-22	Есть
		GTVIDVTDFVNWASSINDAPVLISQK	26	0-25	Есть
		QCVPTPCEDAEDDCGND FQCSTGR	25	0-24	Есть
		CLGYHLDVSLAFSEISVGAEFNK	23	0-22	Есть
		DGNTLTYYR	9	0-8	Есть
		DVVLTTTFVDDIK	13	0-12	Есть
		TSNFNAAISLK	11	0-10	Есть
		CNGDNDCGDFSDEDDCESEPRPPCR	25	0-24	Есть
		VVEEELAR	9	0-8	Есть
		AEQCCEETASSISLH	15	0-14	Есть
		CLCACPFK	8	0-7	Есть
		TEHYEEQIEAFK	12	0-11	Есть
		GEIHLGR	7	0-6	Есть
		FEGIACEISK	10	0-9	Есть
		AEQCCEETASSISLHGK	17	0-16	Есть
		CHTCQNGGT VILMDGK	16	0-15	Есть
16	O14791	VAQELEEK	8	0-7	Есть
		ILQADQEL	8	0-7	Есть
		WWTQAQAHD LVIK	13	0-12	Есть
		GTTIANVVSGSLSISSGILTLVGMGLAPFTEGGSLVLEPGMELGITAALTGITSSTM DYGK	62	0-61	Есть
		VNEPSILEMSR	11	0-10	Есть
		SELEDNIR	8	0-7	Есть
		VQQNVPSGTD TGD PQSKPLGDWAAGTMDPESSIFIEDAIK	40	0-39	Есть
		ALDNLAR	7	0-6	Есть
		LTDVAPVSFFLVLDVVYLVEстьK	23	0-22	Есть
		VTEPISAESGEQVER	15	0-14	Есть
		VSVLCIWWQQNVPSGTD TGD PQSKPLGDWAAGTMDPESSIFIEDAIK	47	0-46	Есть

		LNILNNNYK	9	0-8	Есть
		EFLGENISNFLSLAGNTYQLTR	22	0-21	Есть
		NEADELR	7	0-6	Есть
		SETAEELK	8	0-7	Есть
		HLHEGAK	7	0-6	Нет
		ALADGVQK	8	0-7	Есть
		VSTQNLLLLLTDNEAWNGFVAAAELPR	27	0-26	Есть
		ANLQSVPHASASRPR	15	0-14	Есть
		MEGAALLR	8	0-7	Есть
17	P05155	DTFVNASR	8	0-7	Есть
		VGQLQLSHNLSLVLPQNLK	21	0-20	Есть
		TLLVFEVQQPFLFVLWDQQHK	21	0-20	Есть
		GVTSVSQIFHSPDLAIR	17	0-16	Есть
		LEFFDFSVDLNLCLGLTEDPDLQVSAMQHQTIVLELTETGVEAAAASISVAR	51	0-50	Есть
		YPVAHFIDQTLK	12	0-11	Есть
		TNLESILSYPK	11	0-10	Есть
		ITANTTDEPTTQPTTEPTTQPTIQPTQPTQLPTDSPTQPTTGSEFCGPVTLCSDLSEH	75	0-74	Есть
		STEAVLGDALVDFSLK			
		MEPFHFK	7	0-6	Есть
		VPMMSK	7	0-6	Есть
		LEDMEQALSPSVFK	14	0-13	Есть
		VETNMAFSPFSIASLLTQVLLGAGENTK	28	0-27	Есть
		LLDSLPSDTR	10	0-9	Есть
		VLSNNSDANLELINTWVAK	19	0-18	Есть
		VTTSQDMLSIMEK	13	0-12	Есть
		LYHAFSAMK	9	0-8	Есть
		VATTVISK	8	0-7	Есть
		FPVFMGR	7	0-6	Есть
		DFTCVHQALK	10	0-9	Есть
		TLYSSSPR	8	0-7	Есть
		MLFVEPILEVSSLPTTSTTNSATK	25	0-24	Есть
		FQPTLLTLPR	10	0-9	Есть
		NPNATSSSSQDPESLQDR	18	0-17	Есть
		LVLLNAIYLSAK	12	0-11	Есть
18	P00747	WELCDIPR	8	0-7	Есть
		EQQCIVMAENR	11	0-10	Нет
		YDYCDILECEEECMHCSGENYDGG	24	0-23	Есть
		CQSWSSMTPHR	11	0-10	Нет
		NLDENYCR	8	0-7	Есть
		VILGAHQEVNLEPHVQEIEVSR	22	0-21	Есть
		VIPACLPSPNYVVADR	16	0-15	Есть
		YILQGVTSWGLGCARPKNKPGVYVR	24	0-23	Есть
		VVGCVAHPSWQVSLR	19	0-18	Есть
		ATTVTGTPCQDWAAQEPHR	19	0-18	Есть
		ELRPWCFTTDPNK	13	0-12	Есть
		GPWCFTTDPVSR	12	0-11	Есть
		NGITCQK	7	0-6	Есть
		EPLDDYVNTQGASLFSVTK	19	0-18	Есть
		GTGENYR	7	0-6	Есть
		APWCHTTNSQVR	12	0-11	Есть
		LYDYCDVPQCAAPSFDCGKQVEPK	25	0-24	Есть
		CSGTEASVVAPPPVLLPDVETPSEEDCMFGNGK	34	0-33	Есть
		QLGAGSIEECAAK	13	0-12	Есть
		NPDNDPQGPWCYTTPDPEK	18	0-17	Есть

		WSSTSPHRPR	10	0-9	Есть
		VQSTELCAGHLAGGTDSCQGDSGGPLVCFEK	31	0-30	Есть
		WEYCNLK	7	0-6	Есть
		AFQYHSK	7	0-6	Нет
		EAQLPVIENT	10	0-9	Есть
		GNVAVTVSGHTCQHWSAQTPHTHNR	25	0-24	Есть
		CEEDEEFTCR	10	0-9	Есть
		FVTWIEGVMR	10	0-9	Есть
		LSSPAVITDK	10	0-9	Есть
		TMSGLECAWDSQSPHAHGYIPSK	24	0-23	Есть
		VYLSECK	7	0-6	Есть
		TECFITGWGETQGTFGAGLLK	21	0-20	Есть
		DVVLFEK	7	0-6	Нет
		FGMHFCGGTLISPEWVLTAAHCLEK	25	0-24	Есть
		TPENFPCK	8	0-7	Есть
		GTSSTTTTGK	10	0-9	Есть
		FSPATHPSEGLEENYCR	17	0-16	Есть
		LFLEPTR	7	0-6	Есть
		HSIFTPETNPR	11	0-10	Есть
		TPENYPNAGLTMNYCR	16	0-15	Есть
		SPRPSSYK	8	0-7	Есть
		IPSCDSSPVSTEQLAPTAPPELTPVVQDCYHGDGQSYR	38	0-37	Есть
		CTTPPPSSGPTYQCLK	16	0-15	Есть
		YEFLNGR	7	0-6	Есть
		NPDGDVGGPWCYTTNPR	17	0-16	Есть
		CSGTEASVVAPP	13	0-12	Есть
19	P48740	WVVQGLVSWGGPEECGSK	18	0-17	Есть
		SGNYSVTENMFCAGYYEGGK	20	0-19	Есть
		DACAGDSGGPMVTLNR	16	0-15	Есть
		DSDLSPSDFK	11	0-10	Есть
		SSECLYTIELEEGFMVNLQFEDIFDIEDHPEVPCPYDIK	40	0-39	Есть
		DNVEMDTFQIECLK	14	0-13	Есть
		SDFSNEER	8	0-7	Нет
		DTTVIPVSK	9	0-8	Есть
		DGTWSNK	7	0-6	Есть
		FPETLMEIEIPIVDHSTCQK	20	0-19	Есть
		MLNNNTGIYTCSAQGVWMNK	20	0-19	Есть
		FGYILHTDNR	10	0-9	Есть
		VVLHPDFNIQYNHDIALVQLQEPVPLGPHVMPVCLPR	38	0-37	Есть
		IFNGRPAQK	9	0-8	Есть
		SLPSLVK	7	0-6	Нет
		APEPISTQSHSVLILFHSDNSGENR	25	0-24	Есть
		YGVYSYIHHNK	11	0-10	Есть
		WFGSGALLSASWILTAHVLR	21	0-20	Есть
		TGVITSPDFPNPYPK	15	0-14	Есть
		VECDNLFTQR	11	0-10	Есть
		VETEDQVLATFCGR	14	0-13	Есть
		DQVLVSCDTGYK	12	0-11	Есть
		DMICAGEK	8	0-7	Есть
		GQWYLVGTVSWGDDCGK	17	0-16	Есть
		LYFMHFNLESSYLCEYDYVK	20	0-19	Есть
		ETTDTEQTPGQEVVLSPGSFMSITFR	26	0-25	Есть
		APGELEHGLITFSTR	15	0-14	Есть

		NNLTTYK	7	0-6	Нет
		NAEPGLFPWQALIVVEDTSR	20	0-19	Есть
		NEIDLESELK	10	0-9	Есть
		EHVTVYLGLHDVR	13	0-12	Есть
		IEPSQAK	7	0-6	Есть
		VSNYVDWVWEQMGLPQSVVEPQVER	25	0-24	Есть
		SDENEQHLGVK	11	0-10	Есть
		HTVELNNMFGQIQSPGYPSDSEVTWNITVPDGFR	38	0-37	Есть
		SLPTCLPVCGLPK	13	0-12	Есть
		LEPEGPAPHMLGLVAGWGISNPNTVDEIISGTR	35	0-34	Есть
		GTTPIWAMLSHLNGQPFCCGSLGSSWIVTAAHCLHQSLDPEDPTLR	47	0-46	Есть
		LPVVPHAECK	10	0-9	Есть
		VLGPFCGEK	9	0-8	Есть
		TLSDVLQYVK	10	0-9	Есть
		FTGFDAHYMAVDVDECK	17	0-16	Есть
		YSCQEPYYK	9	0-8	Есть
		EDEELSCDHYCHNYIGGYCSCR	23	0-22	Есть
		SGAVNSSAAR	10	0-9	Есть
		QVYGVYTK	8	0-7	Есть
		SLPTCLPECGQPSR	14	0-13	Есть
		HTTLHPQYDPNTFENDVALVELLESPVLNAFVMPICLPEGPQQEGAMVIVSGWGK	55	0-54	Есть
		DTCLGDSGGAFVIFDDLQR	20	0-19	Есть
		AAGNECPQLQPPVHGK	16	0-15	Есть
20	Q07325	IEIIATLK	8	0-7	Есть
		QFAPSPSCEK	10	0-9	Есть
		CSCISTNQGTIHLQSLK	17	0-16	Есть
		NGVQTCLNPDSADVK	15	0-14	Есть