

Hits for USERPAT1{P-S-A-P}, USERPAT2{P-T-A-P} motifs on all UniProtKB/Swiss-Prot
(release 2018_09 of 10-Oct-18: 558590 entries) database sequences :
Graphical view (graphical view with feature detection)

protein ID	from	to	USERPAT	motif	EXOCARTA-Hit
sp P78314 3BP2_HUMAN	286	289	USERPAT2	PTAP	
sp O60516 4EBP3_HUMAN	71	74	USERPAT2	PTAP	
sp Q8WXA8 5HT3C_HUMAN	362	365	USERPAT2	PTAP	
sp A5X5Y0 5HT3E_HUMAN	362	365	USERPAT2	PTAP	
sp P50406 5HT6R_HUMAN	20	23	USERPAT1	PSAP	
sp P08697 A2AP_HUMAN	438	441	USERPAT1	PSAP	
sp Q5T5F5 A4AS1_HUMAN	14	17	USERPAT1	PSAP	
sp P08910 ABHD2_HUMAN	38	41	USERPAT2	PTAP	
sp Q8WU67 ABHD3_HUMAN	210	213	USERPAT1	PSAP	
sp P12821 ACE_HUMAN	899	902	USERPAT1	PSAP	X
sp P78536 ADA17_HUMAN	746	749	USERPAT1	PSAP	X
sp O75077 ADA23_HUMAN	70	73	USERPAT1	PSAP	
sp Q6NVV9-7 ADAM5_HUMAN	402	405	USERPAT2	PTAP	
sp P78325 ADAM8_HUMAN	821	824	USERPAT2	PTAP	
sp Q6IQ32 ADNP2_HUMAN	283	286	USERPAT1	PSAP	
sp Q16186 ADRM1_HUMAN	231	234	USERPAT1	PSAP	X
sp P55198 AF17_HUMAN	372	375	USERPAT2	PTAP	
sp P51825 AFF1_HUMAN	451	454	USERPAT1	PSAP	
sp P51816 AFF2_HUMAN	132	135	USERPAT1	PSAP	
sp Q9UHB7 AFF4_HUMAN	891	894	USERPAT1	PSAP	X
sp O14514 AGRB1_HUMAN	129	132	USERPAT1	PSAP	
sp Q8IZP9 AGRG2_HUMAN	306	309	USERPAT1	PSAP	X
sp O00468 AGRIN_HUMAN	1043	1046	USERPAT2	PTAP	X
sp O95490 AGRL2_HUMAN	1200	1203	USERPAT1	PSAP	X
sp Q9NZN9 AIPL1_HUMAN	355	358	USERPAT2	PTAP	
sp Q96IF1 AJUBA_HUMAN	113	116	USERPAT2	PTAP	
sp Q5JQC9 AKAP4_HUMAN	191	194	USERPAT1	PSAP	
sp Q99996-6 AKAP9_HUMAN	3915	3918	USERPAT2	PTAP	X
sp Q495B1-1 AKD1A_HUMAN	505	508	USERPAT1	PSAP	
sp Q12802 AKP13_HUMAN	2710	2713	USERPAT1	PSAP	X
sp Q8TCU4 ALMS1_HUMAN	901	904	USERPAT1	PSAP	
sp Q86TB3 ALPK2_HUMAN	452	455	USERPAT2	PTAP	
sp P49418 AMPH_HUMAN	598	601	USERPAT1	PSAP	
sp Q400G9 AMZ1_HUMAN	219	222	USERPAT1	PSAP	
sp Q01484 ANK2_HUMAN	1047	1050	USERPAT2	PTAP	
sp Q12955 ANK3_HUMAN	2138	2141	USERPAT1	PSAP	X
sp P20594 ANPRB_HUMAN	144	147	USERPAT1	PSAP	
sp Q6UB99 ANR11_HUMAN	1749	1752	USERPAT2	PTAP	
sp Q9H6X2 ANTR1_HUMAN	526	529	USERPAT1	PSAP	X
sp O60641 AP180_HUMAN	810	813	USERPAT1	PSAP	
sp O43747 AP1G1_HUMAN	642	645	USERPAT2	PTAP	
sp O95996 APCL_HUMAN	1473	1476	USERPAT1	PSAP	
sp P05090 APOD_HUMAN	114	117	USERPAT1	PSAP	X
sp Q53RT3 APRV1_HUMAN	32	35	USERPAT2	PTAP	
sp A8MVX0 ARG33_HUMAN	502	505	USERPAT1	PSAP	

sp O15013 ARHGA_HUMAN	71	74	USERPAT1	PSAP	
sp O14497 ARI1A_HUMAN	1557	1560	USERPAT1	PSAP	X
sp Q8NFD5 ARI1B_HUMAN	443	446	USERPAT1	PSAP	X
sp Q8N7S6 ARI2O_HUMAN	100	103	USERPAT2	PTAP	
sp Q14865 ARI5B_HUMAN	543	546	USERPAT1	PSAP	X
sp Q8N5I2 ARRD1_HUMAN	309	312	USERPAT1	PSAP	
sp Q495Z4 ASAS1_HUMAN	5	8	USERPAT1	PSAP	
sp Q8WXI3-3 ASB10_HUMAN	19	22	USERPAT1	PSAP	X
sp Q99929 ASCL2_HUMAN	127	130	USERPAT1	PSAP	
sp Q9UHC3-3 ASIC3_HUMAN	528	531	USERPAT2	PTAP	X
sp Q5U4P2 ASPH1_HUMAN	196	199	USERPAT1	PSAP	X
sp Q96KQ4 ASPP1_HUMAN	777	780	USERPAT2	PTAP	
sp Q9C0F0 ASXL3_HUMAN	1572	1575	USERPAT2	PTAP	
sp Q4VNC1 AT134_HUMAN	1021	1024	USERPAT2	PTAP	
sp Q9ULK2 AT7L1_HUMAN	544	547	USERPAT1	PSAP	X
sp Q9Y2Q0 AT8A1_HUMAN	472	475	USERPAT2	PTAP	X
sp Q9NTI2 AT8A2_HUMAN	492	495	USERPAT2	PTAP	X
sp Q99941 ATF6B_HUMAN	420	423	USERPAT1	PSAP	
sp Q96BY7 ATG2B_HUMAN	970	973	USERPAT2	PTAP	
sp Q674R7 ATG9B_HUMAN	784	787	USERPAT2	PTAP	
sp P54259 ATN1_HUMAN	286	289	USERPAT1	PSAP	
sp Q96SQ7 ATOH8_HUMAN	165	168	USERPAT1	PSAP	
sp P54253 ATX1_HUMAN	90	93	USERPAT1	PSAP	X
sp O14965 AURKA_HUMAN	103	106	USERPAT1	PSAP	
sp Q13705 AVR2B_HUMAN	130	133	USERPAT2	PTAP	
sp O60909 B4GT2_HUMAN	89	92	USERPAT2	PTAP	
sp Q9BYV9 BACH2_HUMAN	320	323	USERPAT2	PTAP	X
sp Q95429 BAG4_HUMAN	262	265	USERPAT1	PSAP	
sp P46379 BAG6_HUMAN	472	475	USERPAT1	PSAP	X
sp Q9P281 BAHC1_HUMAN	975	978	USERPAT2	PTAP	
sp Q9BZE3 BARH1_HUMAN	283	286	USERPAT1	PSAP	
sp Q9BXH1 BBC3_HUMAN	62	65	USERPAT2	PTAP	
sp O95999 BCL10_HUMAN	3	6	USERPAT2	PTAP	
sp Q8N143 BCL6B_HUMAN	153	156	USERPAT2	PTAP	
sp Q86UU0 BCL9L_HUMAN	455	458	USERPAT2	PTAP	
sp Q5H9F3 BCORL_HUMAN	323	326	USERPAT1	PSAP	
sp Q8NFC6 BD1L1_HUMAN	2195	2198	USERPAT1	PSAP	
sp O76090 BEST1_HUMAN	483	486	USERPAT1	PSAP	
sp Q7RTU4 BHA09_HUMAN	171	174	USERPAT1	PSAP	
sp Q9NZM4 BICRA_HUMAN	852	855	USERPAT2	PTAP	
sp Q9BWV1 BOC_HUMAN	692	695	USERPAT1	PSAP	
sp Q96GS4 BORC6_HUMAN	235	238	USERPAT1	PSAP	
sp P15056 BRAFA_HUMAN	318	321	USERPAT1	PSAP	X
sp P59051 BRAS2_HUMAN	48	51	USERPAT1	PSAP	
sp Q95696 BRD1_HUMAN	130	133	USERPAT1	PSAP	X
sp Q9UPA5 BSN_HUMAN	37	40	USERPAT1	PSAP	
sp Q96KE9 BTBD6_HUMAN	35	38	USERPAT1	PSAP	
sp Q5T0F9 C2D1B_HUMAN	350	353	USERPAT2	PTAP	
sp Q6ZS94 CA229_HUMAN	153	156	USERPAT1	PSAP	
sp Q9Y6J0 CABIN_HUMAN	1945	1948	USERPAT2	PTAP	

sp O43497 CAC1G_HUMAN	1964	1967	USERPAT1	PSAP	
sp Q9Y6N8 CAD10_HUMAN	702	705	USERPAT2	PTAP	
sp P55287 CAD11_HUMAN	732	735	USERPAT2	PTAP	
sp P55289 CAD12_HUMAN	728	731	USERPAT2	PTAP	
sp P12830 CADH1_HUMAN	822	825	USERPAT2	PTAP	X
sp P19022 CADH2_HUMAN	847	850	USERPAT2	PTAP	X
sp P22223 CADH3_HUMAN	769	772	USERPAT2	PTAP	X
sp P55283 CADH4_HUMAN	857	860	USERPAT2	PTAP	
sp P55285 CADH6_HUMAN	727	730	USERPAT2	PTAP	X
sp P55286 CADH8_HUMAN	736	739	USERPAT2	PTAP	
sp Q9ULB4 CADH9_HUMAN	727	730	USERPAT1	PSAP	
sp Q13111 CAF1A_HUMAN	846	849	USERPAT1	PSAP	
sp Q08AD1 CAMP2_HUMAN	1115	1118	USERPAT2	PTAP	
sp P55210-2 CASP7_HUMAN	233	236	USERPAT1	PSAP	
sp Q86V15 CASZ1_HUMAN	404	407	USERPAT1	PSAP	
sp Q8WUQ7-2 CATIN_HUMAN	892	895	USERPAT2	PTAP	
sp O95503 CBX6_HUMAN	302	305	USERPAT1	PSAP	
sp P0DN24 CC086_HUMAN	89	92	USERPAT1	PSAP	
sp Q8TBZ0 CC110_HUMAN	205	208	USERPAT2	PTAP	
sp P13994 CC130_HUMAN	257	260	USERPAT1	PSAP	
sp Q17RM4 CC142_HUMAN	542	545	USERPAT1	PSAP	
sp Q8NDH2 CC168_HUMAN	928	931	USERPAT1	PSAP	
sp Q9H0W5 CCDC8_HUMAN	164	167	USERPAT1	PSAP	
sp Q8WXS5 CCG8_HUMAN	398	401	USERPAT1	PSAP	
sp P53701 CCHL_HUMAN	5	8	USERPAT1	PSAP	
sp P14635 CCNB1_HUMAN	28	31	USERPAT2	PTAP	X
sp P08571 CD14_HUMAN	267	270	USERPAT1	PSAP	X
sp P06127 CD5_HUMAN	153	156	USERPAT2	PTAP	X
sp Q12834 CDC20_HUMAN	337	340	USERPAT1	PSAP	
sp Q9BYE9 CDHR2_HUMAN	1203	1206	USERPAT1	PSAP	X
sp Q9H305 CDIP1_HUMAN	13	16	USERPAT2	PTAP	
sp Q9NYV4 CDK12_HUMAN	1183	1186	USERPAT1	PSAP	X
sp Q9BWU1 CDK19_HUMAN	382	385	USERPAT2	PTAP	
sp P06731 CEAM5_HUMAN	4	7	USERPAT1	PSAP	X
sp P40199 CEAM6_HUMAN	4	7	USERPAT1	PSAP	
sp Q9HCU4 CELR2_HUMAN	1847	1850	USERPAT1	PSAP	
sp A0A0U1RR11 CENL1_HUMAN	77	80	USERPAT1	PSAP	
sp P0DPI3 CENL2_HUMAN	77	80	USERPAT1	PSAP	
sp A0A0U1RRI6 CENL3_HUMAN	92	95	USERPAT1	PSAP	
sp P49454 CENPF_HUMAN	1638	1641	USERPAT1	PSAP	X
sp Q5SRN2 CF010_HUMAN	175	178	USERPAT1	PSAP	
sp P0C671 CF222_HUMAN	40	43	USERPAT2	PTAP	
sp Q8NAV2 CH058_HUMAN	125	128	USERPAT2	PTAP	
sp Q8TD26 CHD6_HUMAN	2688	2691	USERPAT1	PSAP	
sp Q9H9P2 CHODL_HUMAN	186	189	USERPAT2	PTAP	
sp Q6ZV77 CI139_HUMAN	119	122	USERPAT1	PSAP	
sp Q96RK0 CIC_HUMAN	648	651	USERPAT1	PSAP	
sp Q9NPC3 CIP1_HUMAN	243	246	USERPAT2	PTAP	
sp Q5T1B1 CJ091_HUMAN	87	90	USERPAT1	PSAP	
sp Q7Z460 CLAP1_HUMAN	1149	1152	USERPAT2	PTAP	X

sp Q96DZ5 CLIP3_HUMAN	45	48	USERPAT1	PSAP	
sp Q96JQ2 CLMN_HUMAN	643	646	USERPAT1	PSAP	
sp Q9HAW4 CLSPN_HUMAN	1274	1277	USERPAT1	PSAP	
sp O94983 CMTA2_HUMAN	364	367	USERPAT1	PSAP	
sp Q8WXQ3 CN183_HUMAN	273	276	USERPAT2	PTAP	
sp O95628 CNOT4_HUMAN	365	368	USERPAT2	PTAP	X
sp P21554-2 CNR1_HUMAN	7	10	USERPAT1	PSAP	
sp P26992 CNTFR_HUMAN	346	349	USERPAT1	PSAP	X
sp Q6ZRI6 CO039_HUMAN	346	349	USERPAT1	PSAP	
sp P02461 CO3A1_HUMAN	92	95	USERPAT2	PTAP	
sp Q8IZC6 CORA1_HUMAN	372	375	USERPAT1	PSAP	
sp P57737 CORO7_HUMAN	115	118	USERPAT1	PSAP	
sp Q6UWD8 CP054_HUMAN	127	130	USERPAT1	PSAP	
sp P20813 CP2B6_HUMAN	258	261	USERPAT1	PSAP	
sp Q8N3J3 CQ053_HUMAN	65	68	USERPAT2	PTAP	
sp Q86X59 CQ082_HUMAN	58	61	USERPAT1	PSAP	
sp P20023 CR2_HUMAN	401	404	USERPAT1	PSAP	X
sp O43186 CRX_HUMAN	33	36	USERPAT1	PSAP	
sp P15509 CSF2R_HUMAN	142	145	USERPAT2	PTAP	
sp Q8WXD9 CSKI1_HUMAN	368	371	USERPAT1	PSAP	
sp Q8WXE0 CSKI2_HUMAN	357	360	USERPAT1	PSAP	
sp O95196 CSPG5_HUMAN	516	519	USERPAT1	PSAP	X
sp Q53GD3 CTL4_HUMAN	173	176	USERPAT1	PSAP	
sp O14529 CUX2_HUMAN	517	520	USERPAT2	PTAP	X
sp P17302 CXA1_HUMAN	274	277	USERPAT2	PTAP	
sp P57773 CXA9_HUMAN	279	282	USERPAT1	PSAP	
sp P36383 CXG1_HUMAN	284	287	USERPAT1	PSAP	
sp Q9H1C7 CYTM1_HUMAN	14	17	USERPAT2	PTAP	X
sp Q96B18 DACT3_HUMAN	171	174	USERPAT1	PSAP	
sp Q9UN19 DAPP1_HUMAN	159	162	USERPAT2	PTAP	X
sp Q8NFT6-3 DBF4B_HUMAN	412	415	USERPAT2	PTAP	X
sp Q9UK59 DBR1_HUMAN	273	276	USERPAT1	PSAP	
sp Q6ZNG2 DBX2_HUMAN	131	134	USERPAT1	PSAP	
sp Q9Y4B6 DCAF1_HUMAN	924	927	USERPAT1	PSAP	
sp Q96JK2 DCAF5_HUMAN	599	602	USERPAT1	PSAP	
sp P43146 DCC_HUMAN	429	432	USERPAT1	PSAP	
sp A8MYV0 DCD2C_HUMAN	6	9	USERPAT1	PSAP	
sp Q8TEH3 DEN1A_HUMAN	964	967	USERPAT1	PSAP	
sp O60231 DHX16_HUMAN	377	380	USERPAT1	PSAP	X
sp Q9UBP4 DKK3_HUMAN	18	21	USERPAT2	PTAP	X
sp Q9Y238-3 DLEC1_HUMAN	1720	1723	USERPAT1	PSAP	
sp Q8IXT2-2 DMRTD_HUMAN	158	161	USERPAT1	PSAP	
sp Q5JSL3 DOC11_HUMAN	925	928	USERPAT1	PSAP	
sp P49005 DPOD2_HUMAN	376	379	USERPAT2	PTAP	
sp Q07864 DPOE1_HUMAN	1207	1210	USERPAT1	PSAP	
sp Q8IXS2-2 DRC2_HUMAN	481	484	USERPAT1	PSAP	
sp Q8TD84 DSCL1_HUMAN	1996	1999	USERPAT2	PTAP	
sp Q14204 DYHC1_HUMAN	2527	2530	USERPAT2	PTAP	
sp Q01094 E2F1_HUMAN	76	79	USERPAT1	PSAP	X
sp O00716 E2F3_HUMAN	86	89	USERPAT1	PSAP	

sp Q9UNE0 EDAR_HUMAN	215	218	USERPAT1	PSAP	
sp Q6P2E9 EDC4_HUMAN	828	831	USERPAT2	PTAP	X
sp Q9BSW2-2 EFC4B_HUMAN	539	542	USERPAT1	PSAP	
sp Q9HA90 EFCC1_HUMAN	580	583	USERPAT1	PSAP	
sp Q96KS0 EGLN2_HUMAN	171	174	USERPAT1	PSAP	
sp Q9NVF9 EKI2_HUMAN	5	8	USERPAT1	PSAP	
sp Q8NFI3-3 ENASE_HUMAN	373	376	USERPAT1	PSAP	
sp B3EWF7 EP2A2_HUMAN	256	259	USERPAT2	PTAP	
sp Q09472 EP300_HUMAN	927	930	USERPAT2	PTAP	X
sp Q96L91 EP400_HUMAN	48	51	USERPAT1	PSAP	
sp P16452 EPB42_HUMAN	351	354	USERPAT1	PSAP	X
sp P21709 EPHA1_HUMAN	333	336	USERPAT1	PSAP	X
sp P29317 EPHA2_HUMAN	329	332	USERPAT1	PSAP	X
sp P54764 EPHA4_HUMAN	329	332	USERPAT1	PSAP	X
sp P54756 EPHA5_HUMAN	358	361	USERPAT1	PSAP	X
sp Q9UF33 EPHA6_HUMAN	332	335	USERPAT1	PSAP	
sp Q15375 EPHA7_HUMAN	332	335	USERPAT1	PSAP	
sp P29322 EPHA8_HUMAN	329	332	USERPAT1	PSAP	
sp Q5JZY3 EPHAA_HUMAN	338	341	USERPAT1	PSAP	
sp P54762-6 EPHB1_HUMAN	174	177	USERPAT2	PTAP	X
sp P29323 EPHB2_HUMAN	325	328	USERPAT1	PSAP	X
sp P54760 EPHB4_HUMAN	324	327	USERPAT1	PSAP	X
sp O15197 EPHB6_HUMAN	370	373	USERPAT1	PSAP	
sp Q5T890 ER6L2_HUMAN	14	17	USERPAT1	PSAP	
sp P04626-6 ERBB2_HUMAN	818	821	USERPAT1	PSAP	X
sp Q76MJ5 ERN2_HUMAN	770	773	USERPAT1	PSAP	
sp P62508 ERR3_HUMAN	86	89	USERPAT1	PSAP	
sp Q14674 ESPL1_HUMAN	1563	1566	USERPAT1	PSAP	
sp B1AK53 ESPN_HUMAN	567	570	USERPAT1	PSAP	
sp Q92731 ESR2_HUMAN	285	288	USERPAT1	PSAP	
sp Q9BSJ8 ESYT1_HUMAN	17	20	USERPAT1	PSAP	X
sp P41162 ETV3_HUMAN	459	462	USERPAT1	PSAP	
sp Q03828 EVX2_HUMAN	54	57	USERPAT1	PSAP	
sp Q01844 EWS_HUMAN	80	83	USERPAT2	PTAP	
sp Q9BQ89 F110A_HUMAN	11	14	USERPAT1	PSAP	
sp Q6P1L5 F117B_HUMAN	193	196	USERPAT1	PSAP	
sp Q9P2D6 F135A_HUMAN	1156	1159	USERPAT1	PSAP	
sp O75949 F155B_HUMAN	107	110	USERPAT1	PSAP	
sp Q8N612 F16A2_HUMAN	87	90	USERPAT1	PSAP	
sp Q86V87 F16B2_HUMAN	324	327	USERPAT1	PSAP	
sp A6NEQ2 F181B_HUMAN	132	135	USERPAT1	PSAP	
sp A6NE01 F186A_HUMAN	1971	1974	USERPAT1	PSAP	
sp Q9NTX9 F217B_HUMAN	209	212	USERPAT2	PTAP	
sp Q96D05-2 F241B_HUMAN	37	40	USERPAT2	PTAP	
sp Q8N5Q1 F71E2_HUMAN	522	525	USERPAT2	PTAP	
sp A6NJQ4 F90A8_HUMAN	30	33	USERPAT1	PSAP	
sp Q14153 FA53B_HUMAN	105	108	USERPAT1	PSAP	
sp A6ND36 FA83G_HUMAN	480	483	USERPAT1	PSAP	
sp Q9UBU6 FA8A1_HUMAN	53	56	USERPAT2	PTAP	
sp Q6V0I7 FAT4_HUMAN	4606	4609	USERPAT1	PSAP	X

sp Q6P3S6 FBX42_HUMAN	468	471	USERPAT1	PSAP	
sp P06734 FCER2_HUMAN	315	318	USERPAT1	PSAP	X
sp Q0JRZ9 FCHO2_HUMAN	412	415	USERPAT1	PSAP	
sp Q6DN72 FCRL6_HUMAN	345	348	USERPAT2	PTAP	
sp A0PJY2 FEZF1_HUMAN	110	113	USERPAT1	PSAP	
sp P08620 FGF4_HUMAN	32	35	USERPAT2	PTAP	
sp A6NMB9 FIGL2_HUMAN	198	201	USERPAT1	PSAP	
sp Q4L180 FIL1L_HUMAN	1083	1086	USERPAT1	PSAP	
sp Q14318 FKBP8_HUMAN	10	13	USERPAT1	PSAP	X
sp Q14315 FLNC_HUMAN	1920	1923	USERPAT2	PTAP	X
sp P49771 FLT3L_HUMAN	179	182	USERPAT2	PTAP	
sp O95466 FMNL1_HUMAN	559	562	USERPAT1	PSAP	
sp Q96PY5 FMNL2_HUMAN	592	595	USERPAT1	PSAP	X
sp Q53EP0 FND3B_HUMAN	478	481	USERPAT1	PSAP	
sp Q4ZHG4 FNDC1_HUMAN	1622	1625	USERPAT1	PSAP	X
sp Q8NAU1 FNDC5_HUMAN	34	37	USERPAT1	PSAP	
sp Q5VYV0 FOX B2_HUMAN	185	188	USERPAT2	PTAP	
sp Q12948 FOXC1_HUMAN	297	300	USERPAT1	PSAP	
sp Q12947 FOXF2_HUMAN	231	234	USERPAT1	PSAP	
sp Q6ZQN5 FOXI2_HUMAN	236	239	USERPAT1	PSAP	
sp O15353 FOXN1_HUMAN	628	631	USERPAT2	PTAP	
sp A8MYZ6 FOXO6_HUMAN	216	219	USERPAT1	PSAP	
sp Q9H334 FOXP1_HUMAN	410	413	USERPAT2	PTAP	X
sp O15409 FOXP2_HUMAN	450	453	USERPAT2	PTAP	X
sp Q9BZ51 FOXP3_HUMAN	9	12	USERPAT1	PSAP	
sp Q9C009 FOXQ1_HUMAN	343	346	USERPAT2	PTAP	X
sp Q5JV73 FRPD3_HUMAN	1046	1049	USERPAT1	PSAP	
sp Q9P0K9 FRS1L_HUMAN	135	138	USERPAT2	PTAP	
sp Q9BTV5 FSD1_HUMAN	165	168	USERPAT1	PSAP	
sp A1L4K1 FSD2_HUMAN	372	375	USERPAT1	PSAP	X
sp Q13467 FZD5_HUMAN	6	9	USERPAT1	PSAP	X
sp O75084 FZD7_HUMAN	180	183	USERPAT2	PTAP	X
sp Q96RP7 G3ST4_HUMAN	51	54	USERPAT1	PSAP	
sp P62684 GA113_HUMAN	253	256	USERPAT2	PTAP	
sp Q9YNA8 GAK19_HUMAN	253	256	USERPAT2	PTAP	
sp P62683 GAK21_HUMAN	253	256	USERPAT2	PTAP	
sp P63145 GAK24_HUMAN	253	256	USERPAT2	PTAP	
sp Q7LDI9 GAK6_HUMAN	253	256	USERPAT2	PTAP	
sp P63130 GAK7_HUMAN	253	256	USERPAT2	PTAP	
sp P62685 GAK8_HUMAN	253	256	USERPAT2	PTAP	
sp P63126 GAK9_HUMAN	253	256	USERPAT2	PTAP	
sp Q92908 GATA6_HUMAN	94	97	USERPAT1	PSAP	
sp P48169 GBRA4_HUMAN	505	508	USERPAT1	PSAP	
sp Q96RT7 GCP6_HUMAN	931	934	USERPAT1	PSAP	
sp Q6KF10 GDF6_HUMAN	173	176	USERPAT1	PSAP	
sp Q9GZZ7-2 GFRA4_HUMAN	145	148	USERPAT1	PSAP	
sp I3L273 GFY_HUMAN	23	26	USERPAT1	PSAP	
sp Q9NZ52 GGA3_HUMAN	449	452	USERPAT1	PSAP	X
sp Q86UU5 GGN_HUMAN	326	329	USERPAT1	PSAP	
sp P19440 GGT1_HUMAN	277	280	USERPAT1	PSAP	X

sp P10070 GLI2_HUMAN	1119	1122	USERPAT1	PSAP	
sp Q8NEA6 GLIS3_HUMAN	614	617	USERPAT1	PSAP	
sp P14314 GLU2B_HUMAN	292	295	USERPAT1	PSAP	
sp Q5JWF2 GNAS1_HUMAN	497	500	USERPAT2	PTAP	X
sp Q9NVN8 GNL3L_HUMAN	41	44	USERPAT1	PSAP	
sp Q14439 GP176_HUMAN	420	423	USERPAT1	PSAP	
sp Q6PRD1 GP179_HUMAN	2268	2271	USERPAT2	PTAP	
sp Q9NZH0 GPC5B_HUMAN	367	370	USERPAT1	PSAP	
sp Q96P69 GPR78_HUMAN	73	76	USERPAT1	PSAP	
sp Q6IC98 GRAM4_HUMAN	424	427	USERPAT1	PSAP	
sp Q4V328-2 GRAP1_HUMAN	615	618	USERPAT2	PTAP	
sp Q4ZG55 GREB1_HUMAN	321	324	USERPAT1	PSAP	X
sp Q7LDG7 GRP2_HUMAN	215	218	USERPAT2	PTAP	
sp Q4G1C9-3 GRPL2_HUMAN	102	105	USERPAT1	PSAP	
sp O95528 GTR10_HUMAN	383	386	USERPAT1	PSAP	
sp Q5JVS0 HABP4_HUMAN	252	255	USERPAT2	PTAP	
sp Q9Y3Q4 HCN4_HUMAN	890	893	USERPAT1	PSAP	
sp Q9P2P5 HECW2_HUMAN	838	841	USERPAT2	PTAP	
sp A6NFD8 HELT_HUMAN	192	195	USERPAT1	PSAP	
sp O95714 HERC2_HUMAN	3486	3489	USERPAT1	PSAP	X
sp Q9Y543 HES2_HUMAN	139	142	USERPAT1	PSAP	
sp Q9Y5J3 HEY1_HUMAN	281	284	USERPAT1	PSAP	
sp O14964 HGS_HUMAN	348	351	USERPAT1	PSAP	X
sp Q9UM44 HHLA2_HUMAN	398	401	USERPAT1	PSAP	
sp O14979 HNRDL_HUMAN	16	19	USERPAT1	PSAP	
sp Q92902 HPS1_HUMAN	387	390	USERPAT1	PSAP	
sp Q9NQG7 HPS4_HUMAN	428	431	USERPAT1	PSAP	X
sp Q9Y278 HS3S2_HUMAN	83	86	USERPAT1	PSAP	
sp Q7Z6Z7 HUWE1_HUMAN	3505	3508	USERPAT2	PTAP	X
sp O43248 HXC11_HUMAN	127	130	USERPAT1	PSAP	
sp P35453 HXD13_HUMAN	120	123	USERPAT1	PSAP	
sp Q12891 HYAL2_HUMAN	25	28	USERPAT2	PTAP	X
sp Q6UWB1 I27RA_HUMAN	230	233	USERPAT1	PSAP	
sp Q9H1B7 I2BPL_HUMAN	518	521	USERPAT1	PSAP	
sp Q659A1 ICE2_HUMAN	432	435	USERPAT2	PTAP	
sp P35475-2 IDUA_HUMAN	223	226	USERPAT1	PSAP	
sp Q9BTL4 IER2_HUMAN	194	197	USERPAT2	PTAP	X
sp P23588 IF4B_HUMAN	74	77	USERPAT2	PTAP	
sp Q8TDY8 IGDC4_HUMAN	429	432	USERPAT1	PSAP	
sp Q86VF2 IGFN1_HUMAN	747	750	USERPAT1	PSAP	
sp Q5DX21 IGS11_HUMAN	144	147	USERPAT1	PSAP	
sp Q9BYH8 IKBZ_HUMAN	57	60	USERPAT1	PSAP	
sp Q14005 IL16_HUMAN	339	342	USERPAT1	PSAP	
sp C9JVVW0 INAM1_HUMAN	69	72	USERPAT1	PSAP	
sp Q27J81 INF2_HUMAN	455	458	USERPAT2	PTAP	X
sp Q3MIP1 IPIL2_HUMAN	330	333	USERPAT1	PSAP	
sp Q8NFU5 IPMK_HUMAN	120	123	USERPAT2	PTAP	
sp Q4KMZ1 IQCC_HUMAN	224	227	USERPAT1	PSAP	
sp Q8WZA9 IRGQ_HUMAN	258	261	USERPAT2	PTAP	
sp P16144 ITB4_HUMAN	1641	1644	USERPAT1	PSAP	

sp Q6UXX5 ITIH6_HUMAN	858	861	USERPAT1	PSAP	
sp P28290 ITPI2_HUMAN	1157	1160	USERPAT2	PTAP	
sp Q13387 JIP2_HUMAN	496	499	USERPAT1	PSAP	
sp Q96MG2 JSPR1_HUMAN	185	188	USERPAT1	PSAP	
sp O15063 K0355_HUMAN	994	997	USERPAT1	PSAP	
sp Q6ZU52 K0408_HUMAN	670	673	USERPAT1	PSAP	
sp Q6ZU52-2 K0408_HUMAN	553	556	USERPAT1	PSAP	
sp O60303 K0556_HUMAN	712	715	USERPAT1	PSAP	
sp Q9P206 K1522_HUMAN	846	849	USERPAT1	PSAP	
sp Q9HCM3 K1549_HUMAN	1891	1894	USERPAT1	PSAP	
sp Q6ZVL6 K154L_HUMAN	443	446	USERPAT2	PTAP	
sp Q5VZ46 K1614_HUMAN	788	791	USERPAT1	PSAP	
sp Q9BY89 K1671_HUMAN	1301	1304	USERPAT1	PSAP	
sp P23352 KALM_HUMAN	287	290	USERPAT1	PSAP	
sp Q92830 KAT2A_HUMAN	129	132	USERPAT2	PTAP	
sp Q92993 KAT5_HUMAN	207	210	USERPAT1	PSAP	
sp Q96NX5 KCC1G_HUMAN	381	384	USERPAT2	PTAP	
sp Q9ULD8 KCNH3_HUMAN	797	800	USERPAT1	PSAP	
sp Q8N5I3 KCNRG_HUMAN	147	150	USERPAT1	PSAP	
sp P41229 KDM5C_HUMAN	1536	1539	USERPAT1	PSAP	X
sp O15054 KDM6B_HUMAN	1047	1050	USERPAT2	PTAP	X
sp Q5VWX1 KHDR2_HUMAN	199	202	USERPAT2	PTAP	
sp Q9NQT8 KI13B_HUMAN	1596	1599	USERPAT2	PTAP	X
sp Q96FN5 KIF12_HUMAN	583	586	USERPAT1	PSAP	X
sp Q96AC6 KIFC2_HUMAN	776	779	USERPAT1	PSAP	
sp Q8TD94 KLF14_HUMAN	151	154	USERPAT1	PSAP	
sp Q43474 KLF4_HUMAN	181	184	USERPAT2	PTAP	X
sp Q9POG3 KLK14_HUMAN	12	15	USERPAT1	PSAP	
sp Q03164 KMT2A_HUMAN	978	981	USERPAT2	PTAP	
sp O14686 KMT2D_HUMAN	2190	2193	USERPAT2	PTAP	X
sp Q76NI1-4 KNDC1_HUMAN	1351	1354	USERPAT1	PSAP	
sp Q93100 KPBB_HUMAN	703	706	USERPAT1	PSAP	
sp Q9BZL6 KPCD2_HUMAN	517	520	USERPAT1	PSAP	
sp Q9BVA0 KTNB1_HUMAN	329	332	USERPAT1	PSAP	
sp Q16787 LAMA3_HUMAN	88	91	USERPAT2	PTAP	X
sp O15230 LAMA5_HUMAN	1906	1909	USERPAT1	PSAP	
sp Q569H4 LARGN_HUMAN	286	289	USERPAT2	PTAP	
sp O43561 LAT_HUMAN	177	180	USERPAT1	PSAP	X
sp Q6UX15 LAYN_HUMAN	157	160	USERPAT1	PSAP	
sp P18428 LBP_HUMAN	344	347	USERPAT1	PSAP	X
sp Q6XYB7 LBX2_HUMAN	29	32	USERPAT1	PSAP	
sp Q8NC56 LEMD2_HUMAN	236	239	USERPAT1	PSAP	
sp Q96PV6 LENG8_HUMAN	131	134	USERPAT1	PSAP	
sp Q9BWQ8 LFG2_HUMAN	32	35	USERPAT1	PSAP	
sp Q969X1 LFG3_HUMAN	4	7	USERPAT1	PSAP	
sp Q13136 LIPA1_HUMAN	947	950	USERPAT1	PSAP	
sp O75334 LIPA2_HUMAN	967	970	USERPAT1	PSAP	
sp O75145 LIPA3_HUMAN	907	910	USERPAT1	PSAP	
sp O75335 LIPA4_HUMAN	898	901	USERPAT1	PSAP	
sp Q05469 LIPS_HUMAN	169	172	USERPAT1	PSAP	

sp Q99732 LITAF_HUMAN	17	20	USERPAT1	PSAP	
sp Q6ZMQ8 LMTK1_HUMAN	1274	1277	USERPAT1	PSAP	
sp Q1L5Z9 LONF2_HUMAN	392	395	USERPAT2	PTAP	
sp Q15345 LRC41_HUMAN	358	361	USERPAT1	PSAP	
sp Q9ULH4 LRFN2_HUMAN	644	647	USERPAT1	PSAP	
sp Q96JA1 LRIG1_HUMAN	959	962	USERPAT1	PSAP	
sp O75074 LRP3_HUMAN	668	671	USERPAT1	PSAP	
sp Q9BY71 LRRC3_HUMAN	244	247	USERPAT1	PSAP	
sp Q6UWE0 LRSM1_HUMAN	649	652	USERPAT2	PTAP	X
sp Q8ND56 LS14A_HUMAN	265	268	USERPAT1	PSAP	
sp O60449 LY75_HUMAN	307	310	USERPAT1	PSAP	X
sp P16109 LYAM3_HUMAN	139	142	USERPAT1	PSAP	
sp Q5VWZ2 LYPL1_HUMAN	59	62	USERPAT2	PTAP	X
sp Q8IV50 LYSM2_HUMAN	20	23	USERPAT1	PSAP	
sp Q99698 LYST_HUMAN	2578	2581	USERPAT1	PSAP	X
sp Q02779 M3K10_HUMAN	656	659	USERPAT1	PSAP	
sp Q5TCX8 M3K21_HUMAN	840	843	USERPAT2	PTAP	
sp Q99759 M3K3_HUMAN	356	359	USERPAT1	PSAP	
sp Q92918-2 M4K1_HUMAN	811	814	USERPAT2	PTAP	
sp Q3KQU3-3 MA7D1_HUMAN	114	117	USERPAT2	PTAP	
sp Q9HCI5 MAGE1_HUMAN	394	397	USERPAT2	PTAP	
sp Q9UJ55 MAGL2_HUMAN	132	135	USERPAT1	PSAP	
sp Q92585 MAML1_HUMAN	921	924	USERPAT2	PTAP	
sp Q16798 MAON_HUMAN	27	30	USERPAT2	PTAP	
sp P78559 MAP1A_HUMAN	1811	1814	USERPAT1	PSAP	X
sp Q66K74 MAP1S_HUMAN	708	711	USERPAT1	PSAP	X
sp Q96JE9 MAP6_HUMAN	801	804	USERPAT2	PTAP	
sp Q8NA82 MARHA_HUMAN	223	226	USERPAT1	PSAP	
sp Q6P0Q8 MAST2_HUMAN	1708	1711	USERPAT1	PSAP	
sp Q96DN6 MBD6_HUMAN	614	617	USERPAT1	PSAP	X
sp Q9NR56 MBNL1_HUMAN	151	154	USERPAT2	PTAP	X
sp Q6VMQ6 MCAF1_HUMAN	1031	1034	USERPAT2	PTAP	X
sp Q14676 MDC1_HUMAN	1163	1166	USERPAT2	PTAP	
sp Q03112 MECOM_HUMAN	482	485	USERPAT2	PTAP	X
sp Q93074 MED12_HUMAN	561	564	USERPAT1	PSAP	
sp O60244 MED14_HUMAN	25	28	USERPAT1	PSAP	
sp Q7Z7M0 MEGF8_HUMAN	621	624	USERPAT2	PTAP	X
sp Q7L2J0 MEPCE_HUMAN	286	289	USERPAT2	PTAP	X
sp Q14696 MESD_HUMAN	87	90	USERPAT1	PSAP	
sp A1L020 MEX3A_HUMAN	104	107	USERPAT2	PTAP	
sp Q8IWA4 MFN1_HUMAN	563	566	USERPAT2	PTAP	
sp A6NFX1 MFS2B_HUMAN	259	262	USERPAT1	PSAP	X
sp Q6Z5S7 MFSD6_HUMAN	215	218	USERPAT2	PTAP	X
sp O60291 MGRN1_HUMAN	406	409	USERPAT1	PSAP	X
sp Q8IY33 MILK2_HUMAN	366	369	USERPAT1	PSAP	
sp Q8IXI1 MIRO2_HUMAN	169	172	USERPAT2	PTAP	
sp Q8NDC0 MISSL_HUMAN	43	46	USERPAT1	PSAP	
sp Q13164 MK07_HUMAN	495	498	USERPAT1	PSAP	
sp Q9HAP2 MLXIP_HUMAN	386	389	USERPAT2	PTAP	
sp P51511 MMP15_HUMAN	5	8	USERPAT1	PSAP	X

sp Q8N119 MMP21_HUMAN	127	130	USERPAT1	PSAP	
sp P14780 MMP9_HUMAN	461	464	USERPAT2	PTAP	X
sp Q99583 MNT_HUMAN	472	475	USERPAT1	PSAP	
sp Q96EN8 MOCOS_HUMAN	21	24	USERPAT1	PSAP	
sp O60669 MOT2_HUMAN	5	8	USERPAT1	PSAP	
sp Q9ULH7 MRTFB_HUMAN	607	610	USERPAT1	PSAP	
sp O15457 MSH4_HUMAN	11	14	USERPAT1	PSAP	
sp O43347 MSI1H_HUMAN	254	257	USERPAT1	PSAP	
sp Q86U44 MTA70_HUMAN	53	56	USERPAT2	PTAP	
sp Q14872 MTF1_HUMAN	440	443	USERPAT1	PSAP	X
sp O95248 MTMR5_HUMAN	119	122	USERPAT2	PTAP	
sp Q8WXI7 MUC16_HUMAN	3877	3880	USERPAT1	PSAP	X
sp Q02817 MUC2_HUMAN	4256	4259	USERPAT2	PTAP	
sp P98088 MUC5A_HUMAN	3013	3016	USERPAT1	PSAP	X
sp Q9HC84 MUC5B_HUMAN	1495	1498	USERPAT1	PSAP	
sp Q6W4X9 MUC6_HUMAN	2135	2138	USERPAT1	PSAP	X
sp Q13203 MYBPH_HUMAN	71	74	USERPAT1	PSAP	
sp Q15746 MYLK_HUMAN	620	623	USERPAT2	PTAP	X
sp Q9NZM1 MYOF_HUMAN	127	130	USERPAT1	PSAP	X
sp P52179 MYOM1_HUMAN	617	620	USERPAT1	PSAP	
sp P54296 MYOM2_HUMAN	612	615	USERPAT1	PSAP	
sp Q5VTT5 MYOM3_HUMAN	700	703	USERPAT1	PSAP	
sp Q5VU43 MYOME_HUMAN	1712	1715	USERPAT1	PSAP	
sp Q93015 NAA80_HUMAN	213	216	USERPAT2	PTAP	
sp O15069 NACAD_HUMAN	1229	1232	USERPAT1	PSAP	
sp Q8N159 NAGS_HUMAN	180	183	USERPAT2	PTAP	
sp P59046 NAL12_HUMAN	275	278	USERPAT1	PSAP	
sp Q8IZF0 NALCN_HUMAN	1673	1676	USERPAT1	PSAP	
sp Q8IVL1 NAV2_HUMAN	600	603	USERPAT1	PSAP	
sp A0A0U1RRE5 NBDY_HUMAN	49	52	USERPAT1	PSAP	
sp O60934 NBN_HUMAN	354	357	USERPAT1	PSAP	
sp Q14919 NC2A_HUMAN	192	195	USERPAT1	PSAP	
sp P13591 NCAM1_HUMAN	612	615	USERPAT1	PSAP	X
sp O14594 NCAN_HUMAN	795	798	USERPAT1	PSAP	
sp O14513 NCKP5_HUMAN	1327	1330	USERPAT1	PSAP	
sp Q5T1S8 NCMAP_HUMAN	71	74	USERPAT2	PTAP	
sp Q9HCD5 NCOA5_HUMAN	421	424	USERPAT1	PSAP	
sp Q9Y618 NCOR2_HUMAN	815	818	USERPAT1	PSAP	
sp P52849 NDST2_HUMAN	204	207	USERPAT1	PSAP	
sp O75438-2 NDUB1_HUMAN	7	10	USERPAT1	PSAP	
sp Q96PU5 NED4L_HUMAN	356	359	USERPAT1	PSAP	X
sp Q9H3P2 NELFA_HUMAN	226	229	USERPAT2	PTAP	
sp Q92859 NEO1_HUMAN	439	442	USERPAT1	PSAP	X
sp Q9Y4A8 NF2L3_HUMAN	504	507	USERPAT2	PTAP	
sp O94856 NFASC_HUMAN	932	935	USERPAT1	PSAP	
sp Q00653 NFKB2_HUMAN	423	426	USERPAT1	PSAP	X
sp Q6VVB1 NHLC1_HUMAN	108	111	USERPAT1	PSAP	
sp Q8N5F7 NKAP_HUMAN	84	87	USERPAT1	PSAP	
sp P26715 NKG2A_HUMAN	65	68	USERPAT1	PSAP	
sp P43699 NKX21_HUMAN	157	160	USERPAT1	PSAP	

sp O60391 NMD3B_HUMAN	915	918	USERPAT2	PTAP	
sp Q14978 NOLC1_HUMAN	295	298	USERPAT1	PSAP	X
sp P61580 NP10_HUMAN	21	24	USERPAT2	PTAP	
sp P61581 NP24_HUMAN	21	24	USERPAT2	PTAP	
sp P61583 NP5_HUMAN	21	24	USERPAT2	PTAP	
sp P61582 NP7_HUMAN	21	24	USERPAT2	PTAP	
sp Q8IUM7 NPAS4_HUMAN	376	379	USERPAT1	PSAP	
sp E5RHO5 NPB11_HUMAN	314	317	USERPAT1	PSAP	
sp A6NJU9 NPB13_HUMAN	352	355	USERPAT1	PSAP	
sp Q9UND3 NP1A1_HUMAN	318	321	USERPAT1	PSAP	
sp E9PIF3 NP1A2_HUMAN	337	340	USERPAT1	PSAP	
sp F8WFD2 NP1A3_HUMAN	318	321	USERPAT1	PSAP	
sp E9PKD4 NP1A5_HUMAN	318	321	USERPAT1	PSAP	
sp E9PJ15 NP1A7_HUMAN	337	340	USERPAT1	PSAP	
sp P0DM63 NP1A8_HUMAN	337	340	USERPAT1	PSAP	
sp Q92617 NP1B3_HUMAN	356	359	USERPAT1	PSAP	
sp C9JG80 NP1B4_HUMAN	356	359	USERPAT1	PSAP	
sp A8MRT5 NP1B5_HUMAN	356	359	USERPAT1	PSAP	
sp A6NJ64 NP1L2_HUMAN	310	313	USERPAT1	PSAP	
sp O95436 NPT2B_HUMAN	26	29	USERPAT2	PTAP	
sp Q92570 NR4A3_HUMAN	161	164	USERPAT1	PSAP	
sp Q92823 NRCAM_HUMAN	952	955	USERPAT1	PSAP	
sp Q02297-9 NRG1_HUMAN	144	147	USERPAT2	PTAP	
sp Q7Z2Y5 NRK_HUMAN	1122	1125	USERPAT1	PSAP	
sp Q9P2S2 NRX2A_HUMAN	1553	1556	USERPAT1	PSAP	
sp P58401 NRX2B_HUMAN	507	510	USERPAT1	PSAP	
sp P49790 NU153_HUMAN	1310	1313	USERPAT1	PSAP	
sp P35658 NU214_HUMAN	1452	1455	USERPAT1	PSAP	
sp Q9Y6R0 NUMBL_HUMAN	546	549	USERPAT1	PSAP	X
sp P37198 NUP62_HUMAN	182	185	USERPAT2	PTAP	
sp Q16633 OBF1_HUMAN	6	9	USERPAT2	PTAP	
sp Q5VST9 OBSCN_HUMAN	4627	4630	USERPAT1	PSAP	X
sp A8MYP8 ODF3B_HUMAN	118	121	USERPAT1	PSAP	
sp P10515 ODP2_HUMAN	340	343	USERPAT1	PSAP	
sp O00330 ODPX_HUMAN	241	244	USERPAT2	PTAP	
sp Q9UHM6 OPN4_HUMAN	47	50	USERPAT2	PTAP	X
sp Q6IFH4 OR6B2_HUMAN	18	21	USERPAT2	PTAP	
sp Q8NGW1 OR6B3_HUMAN	18	21	USERPAT2	PTAP	
sp Q96SN7 ORAI2_HUMAN	11	14	USERPAT1	PSAP	
sp Q9BZF2 OSBL7_HUMAN	225	228	USERPAT1	PSAP	
sp Q8IYS5 OSCAR_HUMAN	200	203	USERPAT1	PSAP	
sp Q8N2R0-3 OSR2_HUMAN	113	116	USERPAT1	PSAP	
sp Q6ZRI0 OTOG_HUMAN	1758	1761	USERPAT1	PSAP	
sp Q9Y5P8 P2R3B_HUMAN	59	62	USERPAT2	PTAP	
sp O75747 P3C2G_HUMAN	66	69	USERPAT2	PTAP	
sp P11940 PABP1_HUMAN	3	6	USERPAT1	PSAP	X
sp Q6VY07-2 PACS1_HUMAN	985	988	USERPAT2	PTAP	X
sp Q9ULE6 PALD_HUMAN	849	852	USERPAT1	PSAP	
sp A6NDB9 PALM3_HUMAN	650	653	USERPAT1	PSAP	
sp Q6UXH9 PAMR1_HUMAN	654	657	USERPAT2	PTAP	X

sp Q58A45 PAN3_HUMAN	426	429	USERPAT2	PTAP	X
sp I0J062 PANO1_HUMAN	74	77	USERPAT2	PTAP	
sp Q9NVV4 PAPD1_HUMAN	533	536	USERPAT1	PSAP	
sp Q5XG87 PAPD7_HUMAN	58	61	USERPAT2	PTAP	X
sp Q8TEW0 PARD3_HUMAN	432	435	USERPAT1	PSAP	X
sp Q6UWI2 PARM1_HUMAN	190	193	USERPAT2	PTAP	
sp Q06710 PAX8_HUMAN	437	440	USERPAT1	PSAP	X
sp P57723 PCBP4_HUMAN	339	342	USERPAT2	PTAP	X
sp Q9Y5F7 PCDGL_HUMAN	791	794	USERPAT1	PSAP	
sp Q15113 PCOC1_HUMAN	310	313	USERPAT1	PSAP	
sp Q8WUM4 PDC6I_HUMAN	717	720	USERPAT1	PSAP	X
sp P50479 PDLI4_HUMAN	89	92	USERPAT1	PSAP	
sp Q9NR12 PDLI7_HUMAN	213	216	USERPAT2	PTAP	X
sp Q8IZL8 PELP1_HUMAN	491	494	USERPAT1	PSAP	X
sp Q5SV97 PERM1_HUMAN	525	528	USERPAT1	PSAP	
sp O75381 PEX14_HUMAN	233	236	USERPAT1	PSAP	
sp P98160 PGBM_HUMAN	2720	2723	USERPAT1	PSAP	
sp Q15124 PGM5_HUMAN	12	15	USERPAT2	PTAP	X
sp O75167 PHAR2_HUMAN	157	160	USERPAT1	PSAP	
sp P43119 PI2R_HUMAN	336	339	USERPAT1	PSAP	
sp Q8IYJ0 PIANP_HUMAN	52	55	USERPAT1	PSAP	
sp Q92508 PIEZ1_HUMAN	373	376	USERPAT2	PTAP	X
sp Q9BRB3 PIGQ_HUMAN	115	118	USERPAT2	PTAP	
sp Q9NWS0-3 PIHD1_HUMAN	142	145	USERPAT1	PSAP	X
sp Q6IQ23 PKHA7_HUMAN	537	540	USERPAT2	PTAP	X
sp O94827 PKHG5_HUMAN	951	954	USERPAT1	PSAP	
sp Q96KN3 PKNX2_HUMAN	57	60	USERPAT1	PSAP	
sp Q00722 PLCB2_HUMAN	487	490	USERPAT1	PSAP	
sp Q4KWH8 PLCH1_HUMAN	1619	1622	USERPAT1	PSAP	
sp Q00G26 PLIN5_HUMAN	250	253	USERPAT2	PTAP	
sp P00747 PLMN_HUMAN	364	367	USERPAT2	PTAP	
sp Q8IY17 PLPL6_HUMAN	410	413	USERPAT1	PSAP	X
sp Q6ZV29 PLPL7_HUMAN	379	382	USERPAT1	PSAP	X
sp Q9NRQ2 PLS4_HUMAN	6	9	USERPAT2	PTAP	
sp O43157 PLXB1_HUMAN	695	698	USERPAT2	PTAP	X
sp Q6XQN6-2 PNCB_HUMAN	538	541	USERPAT2	PTAP	
sp Q9ULN7 PNM8B_HUMAN	186	189	USERPAT1	PSAP	
sp Q03052 PO3F1_HUMAN	427	430	USERPAT1	PSAP	
sp Q8NA72 POC5_HUMAN	403	406	USERPAT1	PSAP	
sp P63128 POK9_HUMAN	253	256	USERPAT2	PTAP	
sp Q86T03 PP4P1_HUMAN	40	43	USERPAT1	PSAP	
sp Q8N4L2 PP4P2_HUMAN	23	26	USERPAT2	PTAP	
sp Q9UPN7 PP6R1_HUMAN	776	779	USERPAT1	PSAP	X
sp O75170 PP6R2_HUMAN	725	728	USERPAT2	PTAP	
sp Q5H9R7 PP6R3_HUMAN	861	864	USERPAT1	PSAP	
sp Q6NYC8 PPR18_HUMAN	438	441	USERPAT2	PTAP	X
sp Q5VV67 PPRC1_HUMAN	1365	1368	USERPAT1	PSAP	
sp Q9HAZ2 PRD16_HUMAN	792	795	USERPAT1	PSAP	X
sp Q92954 PRG4_HUMAN	484	487	USERPAT2	PTAP	X
sp Q86YN6 PRGC2_HUMAN	143	146	USERPAT1	PSAP	

sp O43900 PRIC3_HUMAN	372	375	USERPAT2	PTAP	
sp E7EW31 PROB1_HUMAN	18	21	USERPAT2	PTAP	
sp Q9BWN1 PRR14_HUMAN	218	221	USERPAT2	PTAP	X
sp Q8IZ63 PRR22_HUMAN	108	111	USERPAT1	PSAP	
sp Q9H6K5 PRR36_HUMAN	377	380	USERPAT1	PSAP	X
sp Q8TB68 PRR7_HUMAN	217	220	USERPAT1	PSAP	
sp Q96M27 PRRC1_HUMAN	68	71	USERPAT1	PSAP	X
sp C9JH25 PRRT4_HUMAN	142	145	USERPAT2	PTAP	
sp Q86XN7 PRSR1_HUMAN	343	346	USERPAT2	PTAP	
sp Q2VWP7 PRTG_HUMAN	419	422	USERPAT1	PSAP	
sp Q9Y6C5 PTC2_HUMAN	262	265	USERPAT1	PSAP	
sp Q13308-6 PTK7_HUMAN	11	14	USERPAT1	PSAP	X
sp Q9H3S7 PTN23_HUMAN	720	723	USERPAT2	PTAP	
sp P23468 PTPRD_HUMAN	609	612	USERPAT1	PSAP	X
sp P10586 PTPRF_HUMAN	606	609	USERPAT1	PSAP	X
sp Q12913 PTPRJ_HUMAN	304	307	USERPAT2	PTAP	X
sp Q13332 PTPRS_HUMAN	618	621	USERPAT1	PSAP	X
sp Q96HA9 PX11C_HUMAN	158	161	USERPAT2	PTAP	
sp Q9BRP8 PYM1_HUMAN	125	128	USERPAT1	PSAP	
sp P27708 PYR1_HUMAN	1822	1825	USERPAT1	PSAP	
sp P61106 RAB14_HUMAN	194	197	USERPAT1	PSAP	X
sp Q9BUV8-5 RAB5I_HUMAN	92	95	USERPAT1	PSAP	
sp Q3YEC7 RABL6_HUMAN	348	351	USERPAT1	PSAP	
sp Q96EV2 RBM33_HUMAN	700	703	USERPAT2	PTAP	
sp Q5TC82 RC3H1_HUMAN	629	632	USERPAT1	PSAP	X
sp Q8IZ40 RCOR2_HUMAN	458	461	USERPAT2	PTAP	X
sp Q9P2K3 RCOR3_HUMAN	404	407	USERPAT2	PTAP	
sp O75452 RDH16_HUMAN	118	121	USERPAT2	PTAP	
sp Q01201 RELB_HUMAN	493	496	USERPAT2	PTAP	
sp Q8IYK8 REM2_HUMAN	57	60	USERPAT1	PSAP	X
sp Q9P2R6 RERE_HUMAN	791	794	USERPAT2	PTAP	
sp O75154 RFIP3_HUMAN	87	90	USERPAT1	PSAP	
sp Q96B86 RGMA_HUMAN	349	352	USERPAT2	PTAP	
sp Q6ZVN8 RGMC_HUMAN	124	127	USERPAT2	PTAP	
sp Q96CC6 RHDF1_HUMAN	532	535	USERPAT1	PSAP	X
sp Q9BRR9 RHG09_HUMAN	365	368	USERPAT2	PTAP	X
sp Q68EM7 RHG17_HUMAN	689	692	USERPAT1	PSAP	X
sp Q5T5U3 RHG21_HUMAN	207	210	USERPAT1	PSAP	X
sp A7KAX9 RHG32_HUMAN	1956	1959	USERPAT1	PSAP	
sp Q86UR5 RIMS1_HUMAN	235	238	USERPAT1	PSAP	
sp Q8TB24 RIN3_HUMAN	383	386	USERPAT2	PTAP	
sp P26373 RL13_HUMAN	131	134	USERPAT1	PSAP	
sp O94763 RMP_HUMAN	15	18	USERPAT1	PSAP	
sp Q9NRR4 RNC_HUMAN	29	32	USERPAT1	PSAP	
sp Q9H0F5 RNF38_HUMAN	337	340	USERPAT1	PSAP	
sp Q7L0R7 RNF44_HUMAN	13	16	USERPAT1	PSAP	
sp Q9Y6N7 ROBO1_HUMAN	561	564	USERPAT1	PSAP	
sp Q9HCK4 ROBO2_HUMAN	736	739	USERPAT1	PSAP	X
sp Q96MS0 ROBO3_HUMAN	856	859	USERPAT1	PSAP	
sp Q8WZ75 ROBO4_HUMAN	347	350	USERPAT1	PSAP	

sp P08922 ROS1_HUMAN	102	105	USERPAT2	PTAP	
sp P10301 RRAS_HUMAN	203	206	USERPAT1	PSAP	X
sp O95197 RTN3_HUMAN	22	25	USERPAT1	PSAP	X
sp Q9NQC3 RTN4_HUMAN	69	72	USERPAT2	PTAP	X
sp Q9H714-4 RUBCL_HUMAN	588	591	USERPAT1	PSAP	
sp Q8N1F8 S11IP_HUMAN	453	456	USERPAT1	PSAP	
sp P55011 S12A2_HUMAN	5	8	USERPAT2	PTAP	
sp Q92503 S14L1_HUMAN	225	228	USERPAT1	PSAP	
sp Q8N808 S35G3_HUMAN	19	22	USERPAT1	PSAP	
sp Q96KT7 S35G5_HUMAN	19	22	USERPAT1	PSAP	
sp P0C7Q6 S35G6_HUMAN	19	22	USERPAT1	PSAP	
sp Q9NSD5 S6A13_HUMAN	582	585	USERPAT1	PSAP	
sp Q9BXA9 SALL3_HUMAN	248	251	USERPAT1	PSAP	
sp P0C264 SBK3_HUMAN	202	205	USERPAT2	PTAP	
sp O15027 SC16A_HUMAN	1773	1776	USERPAT1	PSAP	X
sp O94979 SC31A_HUMAN	1040	1043	USERPAT1	PSAP	X
sp O14828 SCAM3_HUMAN	64	67	USERPAT1	PSAP	X
sp Q8N228 SCML4_HUMAN	300	303	USERPAT1	PSAP	
sp P51172 SCNND_HUMAN	34	37	USERPAT1	PSAP	
sp Q7Z5N4 SDK1_HUMAN	768	771	USERPAT1	PSAP	X
sp Q58EX2 SDK2_HUMAN	690	693	USERPAT2	PTAP	X
sp Q6UXD5 SE6L2_HUMAN	117	120	USERPAT2	PTAP	X
sp Q9BVL4 SELO_HUMAN	71	74	USERPAT1	PSAP	
sp Q13275 SEM3F_HUMAN	178	181	USERPAT2	PTAP	X
sp Q9H3S1 SEM4A_HUMAN	315	318	USERPAT2	PTAP	
sp O75326 SEM7A_HUMAN	11	14	USERPAT1	PSAP	
sp Q9UHD8 SEPT9_HUMAN	176	179	USERPAT2	PTAP	
sp P84101-2 SERF2_HUMAN	75	78	USERPAT1	PSAP	X
sp Q8N4B1 SESQ1_HUMAN	163	166	USERPAT1	PSAP	
sp O15047 SET1A_HUMAN	1127	1130	USERPAT1	PSAP	X
sp Q9UPS6 SET1B_HUMAN	647	650	USERPAT1	PSAP	X
sp Q15047 SETB1_HUMAN	453	456	USERPAT2	PTAP	
sp Q9C0A6 SETD5_HUMAN	1054	1057	USERPAT1	PSAP	X
sp Q15459 SF3A1_HUMAN	633	636	USERPAT1	PSAP	X
sp Q15428 SF3A2_HUMAN	416	419	USERPAT1	PSAP	X
sp Q15427 SF3B4_HUMAN	218	221	USERPAT1	PSAP	X
sp Q5HYK7 SH319_HUMAN	157	160	USERPAT1	PSAP	
sp Q96B97 SH3K1_HUMAN	343	346	USERPAT1	PSAP	X
sp Q9Y566 SHAN1_HUMAN	474	477	USERPAT1	PSAP	X
sp P29353 SHC1_HUMAN	379	382	USERPAT2	PTAP	X
sp Q92529 SHC3_HUMAN	113	116	USERPAT1	PSAP	
sp O15357 SHIP2_HUMAN	166	169	USERPAT2	PTAP	X
sp Q8TBC3 SHKB1_HUMAN	612	615	USERPAT1	PSAP	
sp Q9UHI6 SHPK_HUMAN	300	303	USERPAT2	PTAP	X
sp P78324 SHPS1_HUMAN	148	151	USERPAT1	PSAP	X
sp Q6IA17 SIGIR_HUMAN	366	369	USERPAT1	PSAP	X
sp O00241 SIRB1_HUMAN	147	150	USERPAT1	PSAP	X
sp Q5TFQ8 SIRBL_HUMAN	147	150	USERPAT1	PSAP	
sp Q9P1W8 SIRPG_HUMAN	146	149	USERPAT1	PSAP	
sp P84550 SKOR1_HUMAN	680	683	USERPAT1	PSAP	

sp Q9P270 SLAI2_HUMAN	539	542	USERPAT1	PSAP	
sp Q8IW52 SLIK4_HUMAN	587	590	USERPAT1	PSAP	
sp Q9NZC9 SMAL1_HUMAN	323	326	USERPAT1	PSAP	
sp Q96Q15 SMG1_HUMAN	1815	1818	USERPAT2	PTAP	X
sp Q9H0W8 SMG9_HUMAN	82	85	USERPAT2	PTAP	
sp Q99835 SMO_HUMAN	750	753	USERPAT1	PSAP	X
sp Q8TAQ2 SMRC2_HUMAN	1199	1202	USERPAT2	PTAP	X
sp Q6STE5 SMRD3_HUMAN	89	92	USERPAT2	PTAP	X
sp Q53GS9 SNUT2_HUMAN	396	399	USERPAT2	PTAP	X
sp Q96L92 SNX27_HUMAN	11	14	USERPAT1	PSAP	X
sp Q6ZQN7 SO4C1_HUMAN	64	67	USERPAT1	PSAP	X
sp Q9H2Y9 SO5A1_HUMAN	83	86	USERPAT1	PSAP	
sp Q8IXZ3 SP8_HUMAN	311	314	USERPAT1	PSAP	
sp Q96R06 SPAG5_HUMAN	390	393	USERPAT1	PSAP	X
sp Q495Y8 SPDE2_HUMAN	52	55	USERPAT1	PSAP	
sp A6NKU9 SPDE3_HUMAN	34	37	USERPAT1	PSAP	
sp A6NLX3 SPDE4_HUMAN	35	38	USERPAT1	PSAP	
sp A6NIY4 SPDE5_HUMAN	52	55	USERPAT1	PSAP	
sp POCI01 SPDE6_HUMAN	52	55	USERPAT1	PSAP	
sp A6NHP3 SPE2B_HUMAN	52	55	USERPAT1	PSAP	
sp Q15772 SPEG_HUMAN	2181	2184	USERPAT1	PSAP	
sp Q9NYA1-2 SPHK1_HUMAN	71	74	USERPAT2	PTAP	
sp Q43291 SPIT2_HUMAN	111	114	USERPAT1	PSAP	X
sp Q96N96-4 SPT13_HUMAN	550	553	USERPAT2	PTAP	
sp Q6ZRS2 SRCAP_HUMAN	1560	1563	USERPAT1	PSAP	
sp Q9C0H9 SRCN1_HUMAN	610	613	USERPAT1	PSAP	
sp A1L4H1 SRCRL_HUMAN	413	416	USERPAT2	PTAP	
sp Q9UQ35 SRRM2_HUMAN	2290	2293	USERPAT2	PTAP	X
sp Q14140 SRTD2_HUMAN	151	154	USERPAT2	PTAP	
sp Q9UGK3 STAP2_HUMAN	271	274	USERPAT1	PSAP	
sp Q9P2P6 STAR9_HUMAN	3060	3063	USERPAT1	PSAP	X
sp O76061 STC2_HUMAN	219	222	USERPAT2	PTAP	X
sp Q13586 STIM1_HUMAN	601	604	USERPAT1	PSAP	X
sp Q9NRP7 STK36_HUMAN	375	378	USERPAT1	PSAP	
sp Q8N7X2-4 STPG3_HUMAN	284	287	USERPAT1	PSAP	
sp Q9Y3F4 STRAP_HUMAN	343	346	USERPAT1	PSAP	X
sp Q13033 STRN3_HUMAN	162	165	USERPAT2	PTAP	X
sp Q8TCJ2 STT3B_HUMAN	4	7	USERPAT1	PSAP	X
sp Q9UMX1 SUFU_HUMAN	12	15	USERPAT2	PTAP	
sp Q8IWZ8 SUGP1_HUMAN	110	113	USERPAT1	PSAP	
sp Q4LDE5 SVEP1_HUMAN	2720	2723	USERPAT2	PTAP	X
sp Q7L8C5 SYT13_HUMAN	108	111	USERPAT2	PTAP	
sp Q8NBV8 SYT8_HUMAN	22	25	USERPAT1	PSAP	
sp O76070 SYUG_HUMAN	102	105	USERPAT1	PSAP	
sp Q9BXQ6 T121B_HUMAN	538	541	USERPAT1	PSAP	
sp Q6IEE7 T132E_HUMAN	967	970	USERPAT2	PTAP	
sp Q7Z7N9 T179B_HUMAN	57	60	USERPAT1	PSAP	
sp Q15714 T22D1_HUMAN	845	848	USERPAT1	PSAP	
sp O95359 TACC2_HUMAN	1921	1924	USERPAT1	PSAP	X
sp Q15572 TAF1C_HUMAN	576	579	USERPAT1	PSAP	

sp Q9Y6J9 TAF6L_HUMAN	463	466	USERPAT2	PTAP	X
sp Q86VP1 TAXB1_HUMAN	701	704	USERPAT2	PTAP	X
sp Q9C0C2 TB182_HUMAN	336	339	USERPAT1	PSAP	
sp Q9ULP9 TBC24_HUMAN	463	466	USERPAT2	PTAP	X
sp Q9Y2I9 TBC30_HUMAN	849	852	USERPAT1	PSAP	X
sp Q9UL17 TBX21_HUMAN	410	413	USERPAT1	PSAP	
sp O95947 TBX6_HUMAN	79	82	USERPAT1	PSAP	
sp O95947-2 TBX6_HUMAN	79	82	USERPAT1	PSAP	
sp Q9Y242 TCF19_HUMAN	215	218	USERPAT1	PSAP	
sp Q7Z6L1 TCPR1_HUMAN	1153	1156	USERPAT1	PSAP	
sp Q5VWI1 TCRGL_HUMAN	94	97	USERPAT1	PSAP	
sp Q9H7E2 TDRD3_HUMAN	267	270	USERPAT1	PSAP	
sp Q9Y2W6 TDRKH_HUMAN	246	249	USERPAT2	PTAP	
sp Q15561 TEAD4_HUMAN	206	209	USERPAT1	PSAP	
sp Q6NUS6 TECT3_HUMAN	73	76	USERPAT1	PSAP	
sp Q15569 TESK1_HUMAN	556	559	USERPAT1	PSAP	X
sp Q8NFU7 TET1_HUMAN	1835	1838	USERPAT1	PSAP	
sp Q43151 TET3_HUMAN	419	422	USERPAT1	PSAP	
sp Q8IWB9 TEX2_HUMAN	18	21	USERPAT1	PSAP	
sp Q53QW1 TEX44_HUMAN	149	152	USERPAT1	PSAP	
sp A6NCN8 TEX52_HUMAN	258	261	USERPAT1	PSAP	
sp Q8WUA4 TF3C2_HUMAN	120	123	USERPAT1	PSAP	
sp Q92734 TFG_HUMAN	196	199	USERPAT1	PSAP	X
sp Q9Y4F4 TGRM1_HUMAN	28	31	USERPAT1	PSAP	
sp Q8WY91 THAP4_HUMAN	300	303	USERPAT1	PSAP	X
sp Q5TEJ8 THMS2_HUMAN	172	175	USERPAT1	PSAP	X
sp Q9NS62 THSD1_HUMAN	568	571	USERPAT1	PSAP	X
sp Q95411 TIAF1_HUMAN	56	59	USERPAT1	PSAP	
sp P49788 TIG1_HUMAN	20	23	USERPAT2	PTAP	X
sp Q495A1 TIGIT_HUMAN	191	194	USERPAT1	PSAP	
sp A6NFA1 TIK12_HUMAN	394	397	USERPAT2	PTAP	
sp Q8WZ42 TITIN_HUMAN	14415	14418	USERPAT1	PSAP	
sp O75674 TM1L1_HUMAN	179	182	USERPAT2	PTAP	X
sp C9JI98 TM238_HUMAN	18	21	USERPAT1	PSAP	
sp Q9BX74 TM2D1_HUMAN	9	12	USERPAT1	PSAP	X
sp Q9BSE2 TMM79_HUMAN	84	87	USERPAT1	PSAP	
sp A0PJX8 TMM82_HUMAN	332	335	USERPAT1	PSAP	
sp P21580 TNAP3_HUMAN	462	465	USERPAT2	PTAP	
sp Q15025 TNIP1_HUMAN	100	103	USERPAT2	PTAP	X
sp Q8NDV7 TNR6A_HUMAN	240	243	USERPAT1	PSAP	X
sp Q9UPQ9 TNR6B_HUMAN	1739	1742	USERPAT1	PSAP	
sp Q96NM4-4 TOX2_HUMAN	7	10	USERPAT1	PSAP	
sp P48553 TPC10_HUMAN	886	889	USERPAT1	PSAP	
sp Q6ZTW0 TPGS1_HUMAN	265	268	USERPAT1	PSAP	
sp P40225 TPO_HUMAN	327	330	USERPAT1	PSAP	
sp Q9Y4K3 TRAF6_HUMAN	236	239	USERPAT2	PTAP	X
sp Q7Z4K8-3 TRI46_HUMAN	476	479	USERPAT1	PSAP	
sp Q96LD4 TRI47_HUMAN	99	102	USERPAT1	PSAP	X
sp Q96RU7 TRIB3_HUMAN	53	56	USERPAT2	PTAP	
sp Q9C037 TRIM4_HUMAN	55	58	USERPAT1	PSAP	

sp O75962 TRIO_HUMAN	2387	2390	USERPAT1	PSAP	X
sp Q9HCF6 TRPM3_HUMAN	1668	1671	USERPAT1	PSAP	
sp Q9Y4A5 TRRAP_HUMAN	488	491	USERPAT2	PTAP	X
sp P07477 TRY1_HUMAN	129	132	USERPAT2	PTAP	
sp P07478 TRY2_HUMAN	129	132	USERPAT2	PTAP	
sp Q8NHM4 TRY6_HUMAN	129	132	USERPAT2	PTAP	
sp Q99816 TS101_HUMAN	320	323	USERPAT2	PTAP	X
sp P50607 TUB_HUMAN	101	104	USERPAT2	PTAP	
sp Q9Y6I9 TX264_HUMAN	305	308	USERPAT2	PTAP	
sp Q8NBS9 TXND5_HUMAN	182	185	USERPAT1	PSAP	X
sp Q9NPG3 UBN1_HUMAN	723	726	USERPAT1	PSAP	
sp O95071 UBR5_HUMAN	1493	1496	USERPAT2	PTAP	
sp Q9BZM4 ULBP3_HUMAN	208	211	USERPAT2	PTAP	
sp Q8IZJ1 UNC5B_HUMAN	40	43	USERPAT1	PSAP	
sp Q6UXZ4 UNC5D_HUMAN	47	50	USERPAT1	PSAP	X
sp O75445 USH2A_HUMAN	4529	4532	USERPAT1	PSAP	
sp P46939 UTRO_HUMAN	869	872	USERPAT1	PSAP	X
sp P50552 VASP_HUMAN	248	251	USERPAT2	PTAP	X
sp P52735 VAV2_HUMAN	805	808	USERPAT1	PSAP	
sp O43915 VEGFD_HUMAN	193	196	USERPAT2	PTAP	
sp Q69YN4 VIR_HUMAN	79	82	USERPAT1	PSAP	
sp Q5THJ4 VP13D_HUMAN	3069	3072	USERPAT1	PSAP	X
sp Q9H9H4 VP37B_HUMAN	185	188	USERPAT2	PTAP	X
sp Q9UK41-2 VPS28_HUMAN	211	214	USERPAT1	PSAP	X
sp Q9UID3 VPS51_HUMAN	666	669	USERPAT1	PSAP	X
sp Q8N0Z9 VSI10_HUMAN	225	228	USERPAT1	PSAP	
sp P0DP72 VSLX2_HUMAN	371	374	USERPAT2	PTAP	
sp Q96DN2 VWCE_HUMAN	330	333	USERPAT1	PSAP	
sp A8K0Z3 WASH1_HUMAN	272	275	USERPAT1	PSAP	
sp Q6VEQ5 WASH2_HUMAN	272	275	USERPAT1	PSAP	
sp C4AMC7 WASH3_HUMAN	270	273	USERPAT1	PSAP	
sp A8MWX3 WASH4_HUMAN	285	288	USERPAT1	PSAP	
sp Q9NQA3 WASH6_HUMAN	254	257	USERPAT1	PSAP	
sp Q8IZU2 WDR17_HUMAN	278	281	USERPAT1	PSAP	
sp Q9H7D7 WDR26_HUMAN	61	64	USERPAT1	PSAP	X
sp A2RRH5 WDR27_HUMAN	807	810	USERPAT1	PSAP	
sp Q9Y4E6 WDR7_HUMAN	969	972	USERPAT1	PSAP	X
sp Q6ZMY6 WDR88_HUMAN	21	24	USERPAT1	PSAP	
sp A6NGB9 WIPF3_HUMAN	26	29	USERPAT1	PSAP	
sp P04628 WNT1_HUMAN	105	108	USERPAT2	PTAP	
sp Q5GH76 XKR4_HUMAN	577	580	USERPAT2	PTAP	
sp Q6P2D8 XRR1_HUMAN	593	596	USERPAT2	PTAP	
sp Q9Y2T7 YBOX2_HUMAN	58	61	USERPAT1	PSAP	X
sp P49750 YLP1_HUMAN	250	253	USERPAT1	PSAP	
sp Q6UXP9 YO001_HUMAN	81	84	USERPAT2	PTAP	
sp Q6ZRN7 YP029_HUMAN	180	183	USERPAT1	PSAP	
sp A8MZ25 YQ037_HUMAN	50	53	USERPAT2	PTAP	
sp A8MWP4 YU008_HUMAN	22	25	USERPAT1	PSAP	
sp Q8ND82 Z280C_HUMAN	524	527	USERPAT2	PTAP	
sp Q13105 ZBT17_HUMAN	793	796	USERPAT2	PTAP	

sp Q96K62 ZBT45_HUMAN	346	349	USERPAT1	PSAP	
sp Q8WYQ9 ZCH14_HUMAN	365	368	USERPAT1	PSAP	X
sp Q9C0B5 ZDHC5_HUMAN	626	629	USERPAT2	PTAP	X
sp Q5T1R4 ZEP3_HUMAN	1023	1026	USERPAT1	PSAP	X
sp Q9C0A1 ZFHX2_HUMAN	1226	1229	USERPAT1	PSAP	
sp Q86UP3 ZFHX4_HUMAN	2016	2019	USERPAT1	PSAP	
sp Q68DK2 ZFY26_HUMAN	956	959	USERPAT2	PTAP	X
sp P0C6A0 ZGLP1_HUMAN	119	122	USERPAT1	PSAP	
sp Q96T25 ZIC5_HUMAN	147	150	USERPAT1	PSAP	
sp Q15776 ZKSC8_HUMAN	8	11	USERPAT1	PSAP	
sp Q9H091 ZMY15_HUMAN	718	721	USERPAT1	PSAP	
sp Q14202 ZMYM3_HUMAN	813	816	USERPAT2	PTAP	
sp Q5VUA4 ZN318_HUMAN	743	746	USERPAT1	PSAP	X
sp Q96JG9 ZN469_HUMAN	3810	3813	USERPAT1	PSAP	
sp Q96F45 ZN503_HUMAN	323	326	USERPAT1	PSAP	X
sp Q86XF7 ZN575_HUMAN	202	205	USERPAT2	PTAP	
sp Q5EBL2 ZN628_HUMAN	444	447	USERPAT1	PSAP	
sp Q8N1G0 ZN687_HUMAN	179	182	USERPAT1	PSAP	
sp Q96CS4 ZN689_HUMAN	4	7	USERPAT1	PSAP	
sp Q6XR72 ZNT10_HUMAN	182	185	USERPAT2	PTAP	
sp A7E2V4 ZSWM8_HUMAN	1047	1050	USERPAT1	PSAP	