

Protease Substrate Set

Microtiter Plate Layout:

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
B	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
C	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
D	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
E	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
F	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144
G	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168
H	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192
I	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216
J	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240
K	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264
L	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288
M	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312
N	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336
O	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360
P	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384

Sequence Information:

No	Well	Sequence	ID
1	A1	WQGRRKF	>APEL_BOVIN (Q9TUI9)
			>APEL_HUMAN (Q9ULZ1)
			>APEL_MOUSE (Q9R0R4)
			>APEL_RAT (Q9R0R3)
2	A2	NVRHLVQP	>APEL_HUMAN (Q9ULZ1)
			>APEL_HUMAN (Q9ULZ1)
3	A3	PKDKRYGG	>COLI_ACITR (P87352)
			>COLI_ACITR (P87352)
			>COLI_BOVIN (P01190)
			>COLI_BOVIN (P01190)
			>COLI_HUMAN (P01189)
			>COLI_HUMAN (P01189)
			>COLI_LEPOS (Q91082)
			>COLI_LEPOS (Q91082)
			>COLI_MACNE (P01201)
			>COLI_MACNE (P01201)
			>COLI_MOUSE (P01193)
			>COLI_PIG (P01192)
			>COLI_PIG (P01192)
			>COLI_RANCA (P11885)
			>COLI_RANCA (P11885)
			>COLI_RANRI (P22923)

			>COLI_RANRI (P22923)
			>COLI_RAT (P01194)
			>COLI_SHEEP (P01191)
			>COLI_XENLA (P06298)
			>COLI_XENLA (P06298)
			>COLJ_XENLA (P06299)
			>COLJ_XENLA (P06299)
4	A4	RGARARLG	>SLIB_HUMAN (P01286)
5	A5	SYRKVLGQ	>SLIB_BOVIN (P01288)
			>SLIB_HUMAN (P01286)
			>SLIB_MESAU (Q60549)
			>SLIB_PIG (P01287)
6	A6	DSRRAQDF	>GLU1_XENLA (O42143)
			>GLU2_XENLA (O42144)
			>GLUC_BOVIN (P01272)
			>GLUC_CANFA (P29794)
			>GLUC_CHICK (P01277)
			>GLUC_DIDMA (P18108)
			>GLUC_HUMAN (P01275)
			>GLUC_MESAU (P01273)
			>GLUC_MOUSE (P55095)
			>GLUC_PIG (P01274)
			>GLUC_RABIT (P25449)
			>GLUC_RANCA (P15438)
			>GLUC_RAT (P06883)
7	A7	LGKRRSGP	>OREX_HUMAN (O43612)
8	A8	QLQKRFGG	>PNOC_BOVIN (O62647)
			>PNOC_HUMAN (Q13519)
			>PNOC_MOUSE (Q64387)
			>PNOC_MOUSE (Q64387)
			>PNOC_RAT (Q62923)
			>PNOC_RAT (Q62923)
9	A9	RMRRYADA	>SLIB_HUMAN (P01286)
10	A10	SAARPAPP	>SECR_HUMAN (P09683)
11	A11	VARRKLPT	>NEUT_HUMAN (P30990)
12	A12	ARRHSDGT	>SECR_HUMAN (P09683)
13	A13	GKRSEQDA	>SECR_HUMAN (P09683)
14	A14	ELQRSANS	>SMS_BOVIN (P26917)
			>SMS_CANFA (P49670)
			>SMS_HUMAN (P61278)

			>SMS_MACFA (P61279)
			>SMS_MOUSE (P60041)
			>SMS_PIG (P01168)
			>SMS_RAT (P60042)
			>SMS_SHEEP (O46688)
15	A15	SDKPDMAE	>TYB4_BOVIN (P62326)
			>TYB4_HORSE (P62327)
			>TYB4_HUMAN (P62328)
			>TYB4_MOUSE (P20065)
			>TYB4_RAT (P62329)
			>TYB4_XENLA (P18758)
16	A16	LQKRGIVE	>INS_CANFA (P01321)
			>INS_CERAE (P30407)
			>INS_HUMAN (P01308)
			>INS_MACFA (P30406)
			>INS_PANTR (P30410)
			>INS_PONPY (Q8HXV2)
			>INS_RABIT (P01311)
			>INS_SPETR (Q91XI3)
17	A17	AEVDGDDD	>IF2A_HUMAN (P05198)
			>IF2A_RAT (P05199)
18	A18	KTRREAED	>INS_AOTTR (P10604)
			>INS_AOTTR (P10604)
			>INS_BALBO (P01314)
			>INS_BALPH (P01312)
			>INS_CERAE (P30407)
			>INS_CERAE (P30407)
			>INS_CHIBR (P01327)
			>INS_HUMAN (P01308)
			>INS_HUMAN (P01308)
			>INS_MACFA (P30406)
			>INS_MACFA (P30406)
			>INS_MYOCO (P01330)
			>INS_MYOSC (P07453)
			>INS_PANTR (P30410)
			>INS_PANTR (P30410)
			>INS_PONPY (Q8HXV2)
			>INS_PONPY (Q8HXV2)
			>INS_PROGU (P01331)
19	A19	EGKRSYSM	>COLI_HUMAN (P01189)
			>COLI_MACNE (P01201)
			>COLI_MOUSE (P01193)
			>COLI_MUSVI (P11280)
			>COLI_RAT (P01194)
20	A20	GGKRAMSD	>NEU2_BOVIN (P01180)

			>NEU2_HUMAN (P01185)
			>NEU2_PIG (P01183)
21	A21	RSKRCGNL	>CALO_HUMAN (P01258)
			>CALO_MOUSE (P70160)
			>CALO_MOUSE (P70160)
			>CALO_RAT (P01257)
			>CALO_RAT (P01257)
22	A22	GKKRDMSS	>CALO_HUMAN (P01258)
23	A23	KGANKKGL	>ANFC_HUMAN (P23582)
			>ANFC_HUMAN (P23582)
24	A24	NPRKYVMG	>COLI_BOVIN (P01190)
			>COLI_HUMAN (P01189)
			>COLI_MACNE (P01201)
			>COLI_MOUSE (P01193)
			>COLI_PIG (P01192)
			>COLI_RAT (P01194)
			>COLI_SHEEP (P01191)
25	B1	EGKRSSYSM	>COLI_HUMAN (P01189)
			>COLI_MACNE (P01201)
			>COLI_MOUSE (P01193)
			>COLI_MUSVI (P11280)
			>COLI_RAT (P01194)
26	B2	KPVGKKRR	>COLI_BALPH (P01195)
			>COLI_BOVIN (P01190)
			>COLI_CAVPO (P19402)
			>COLI_HUMAN (P01189)
			>COLI_LOXAF (P21252)
			>COLI_MACNE (P01201)
			>COLI_MOUSE (P01193)
			>COLI_MUSVI (P11280)
			>COLI_PIG (P01192)
			>COLI_RABIT (P06297)
			>COLI_RANCA (P11885)
			>COLI_RANRI (P22923)
			>COLI_RAT (P01194)
			>COLI_SHEEP (P01191)
27	B3	EFKRELTG	>COLI_BOVIN (P01190)
			>COLI_CAVPO (P19402)
			>COLI_HUMAN (P01189)
			>COLI_MACNE (P01201)
28	B4	SGPLSLQE	>PEBP_BOVIN (P13696)
			>PEBP_HUMAN (P30086)
			>PEBP_MACFA (P48737)

29	B5	GAALAGPV	>SAP_HUMAN (P07602)
30	B6	QTVWNKPT	>SAP_HUMAN (P07602)
31	B7	LAKRYGGF	>PENK_FELCA (Q28409)
			>PENK_HUMAN (P01210)
			>PENK_HUMAN (P01210)
			>PENK_MOUSE (P22005)
			>PENK_RAT (P04094)
32	B8	LAKRYGGF	>PENK_FELCA (Q28409)
			>PENK_HUMAN (P01210)
			>PENK_HUMAN (P01210)
			>PENK_MOUSE (P22005)
			>PENK_RAT (P04094)
33	B9	FMKKDAEE	>PENK_BOVIN (P01211)
			>PENK_FELCA (Q28409)
			>PENK_HUMAN (P01210)
34	B10	MEKRYGGF	>PENK_BOVIN (P01211)
			>PENK_CAVPO (P47969)
			>PENK_HUMAN (P01210)
			>PENK_RAT (P04094)
			>PENK_XENLA (P01212)
			>PENL_XENLA (P07194)
35	B11	AAGVAPLS	>NEUB_HUMAN (P08949)
36	B12	MGKKSLEP	>NEUB_HUMAN (P08949)
			>NEUB_MOUSE (Q9CR53)
37	B13	PRGRAVPL	>GRP_HUMAN (P07492)
38	B14	MGKKSTGE	>GRP_HUMAN (P07492)
39	B15	GEDAPAED	>NEUY_CHICK (P28673)
			>NEUY_HUMAN (P01303)
			>NEUY_LAMFL (P48097)
			>NEUY_MOUSE (P57774)
			>NEUY_PIG (P01304)
			>NEUY_PIG (P01304)
			>NEUY_RABIT (P09640)
			>NEUY_RANRI (P29949)
			>NEUY_RAT (P07808)
			>NEUY_TYPNA (Q9PW68)
			>NEUY_XENLA (P33689)
			>NPY_MACMU (Q9XSW6)
40	B16	EAYPSKPD	>NEUY_CHICK (P28673)

			>NEUY_HUMAN (P01303)
			>NEUY_PIG (P01304)
			>NEUY_SHEEP (P14765)
			>NEUY_XENLA (P33689)
			>NPY_MACMU (Q9XSW6)
41	B17	RQRYGKRS	>NEUY_BRARE (Q9I8P3)
			>NEUY_CARAU (P28672)
			>NEUY_CHICK (P28673)
			>NEUY_DICLA (Q9PTA0)
			>NEUY_GADMO (P80167)
			>NEUY_HUMAN (P01303)
			>NEUY ICTPU (Q9I9D3)
			>NEUY_MOUSE (P57774)
			>NEUY_ONCMY (P29071)
			>NEUY_PIG (P01304)
			>NEUY_PIG (P01304)
			>NEUY_RABIT (P09640)
			>NEUY_RAT (P07808)
			>NEUY_SHEEP (P14765)
			>NEUY_TORMA (P28674)
			>NEUY_TYPNA (Q9PW68)
			>NEUY_XENLA (P33689)
			>NF03_NAEFO (P83898)
			>NF04_NAEFO (P83723)
			>NF05_NAEFO (P83602)
			>NF07_NAEFO (P83737)
			>NF09_NAEFO (P83889)
			>NF15_NAEFO (P83890)
			>NF16_NAEFO (P83598)
			>NF19_NAEFO (P83899)
			>NPY_CYPKA (Q9DGK7)
			>NPY_MACMU (Q9XSW6)
			>NPY_PAROL (Q90WF4)
			>PYY_BRARE (Q9I8P2)
			>PYY_CHICK (P29203)
			>PY_DICLA (Q9PT98)
42	B18	LVDAYPIK	>PYY_HUMAN (P10082)
43	B19	QRYGKRDR	>PYY_HUMAN (P10082)
44	B20	PQRFGRNT	>NPFF_BOVIN (Q9TUX7)
			>NPFF_HUMAN (O15130)
45	B21	LSPRAGEG	>NPFF_BOVIN (Q9TUX7)
			>NPFF_HUMAN (O15130)
46	B22	APQRFGKK	>NPFF_BOVIN (Q9TUX7)
			>NPFF_HUMAN (O15130)
			>NPFF_MOUSE (Q9WVA8)

			>NPFF_RAT (Q9WVA9)
47	B23	RVKRYRQS	>ADML_BOVIN (O62827)
			>ADML_CANFA (O77559)
			>ADML_HUMAN (P35318)
			>ADML_MOUSE (P97297)
			>ADML_PIG (P53366)
			>ADML_RAT (P43145)
48	B24	HPSAFSEA	>PGCB_RAT (P55068)
49	C1	GPQGLLGA	>CA21_BOVIN (P02465)
			>CA21_CANFA (O46392)
			>CA21_HUMAN (P08123)
			>CA21_MOUSE (Q01149)
			>CA21_RABIT (Q28668)
			>CA21_RAT (P02466)
50	C2	GPAGLSVL	>CA1A_CHICK (P08125)
51	C3	GPAGIVTK	>CA1A_CHICK (P08125)
52	C4	RPAVMTSP	>FGR1_HUMAN (P11362)
			>FGR1_MOUSE (P16092)
			>FGR1_RAT (Q04589)
53	C5	PPGAYHGA	>LEG3_HUMAN (P17931)
54	C6	LRAYLLPA	>IBP3_HUMAN (P17936)
			>IBP3_PIG (P16611)
55	C7	GPYELKAL	>IL1B_CERTO (P46648)
			>IL1B_HUMAN (P01584)
			>IL1B_MACFA (P79182)
			>IL1B_MACMU (P48090)
			>IL1B_MACNE (P51493)
56	C8	GHARLVHV	>A2MG_HUMAN (P01023)
57	C9	KPQOFFGL	>TKN1_BOVIN (P01289)
			>TKN1_HUMAN (P20366)
			>TKN1_MESAU (Q60541)
			>TKN1_MOUSE (P41539)
			>TKN1_RABIT (P41540)
			>TKN1_RAT (P06767)
			>TKNA_HORSE (P01290)
58	C10	QPVGINTS	>SY07_HUMAN (P80098)
59	C11	RPAVMTSP	>FGR1_HUMAN (P11362)
			>FGR1_MOUSE (P16092)

			>FGR1_RAT (Q04589)
60	C12	HVLNLRST	>TGR3_RAT (P26342)
61	C13	DPQSIRSQ	>DMP1_HUMAN (Q13316)
62	C14	DPLEFKSH	>ITAV_BOVIN (P80746)
			>ITAV_CHICK (P26008)
			>ITAV_HUMAN (P06756)
			>ITAV_MOUSE (P43406)
63	C15	RPIPIITAS	>ITA6_HUMAN (P23229)
			>ITA6_MOUSE (Q61739)
64	C16	RVLGLKAH	>ITAX_HUMAN (P20702)
65	C17	KVLNLTDN	>ITA9_HUMAN (Q13797)
66	C18	IVAMLRAP	>PGCN_MOUSE (P55066)
			>PGCN_RAT (P55067)
67	C19	FPADEANS	>PAXI_HUMAN (P49023)
68	C20	MTAKQFRK	>ADA_SALTY (P26189)
69	C21	AAALIGDE	>PEPA_PIG (P00791)
70	C22	GMAGSGRR	>L2MU_ADE40 (Q64858)
			>L2MU_ADE40 (Q64858)
71	C23	RDAQAHPG	>LYAG_HUMAN (P10253)
72	C24	LGARGHRP	>FIBB_BOVIN (P02676)
73	D1	FSARGHRP	>FIBB_HUMAN (P02675)
74	D2	IDARAHRP	>FIBB_CHICK (Q02020)
75	D3	ANARIKLP	>SUIS_HUMAN (P14410)
76	D4	TVADGLKK	>KRAC_HUMAN (P31749)
77	D5	ALADSLGK	>ICAL_HUMAN (P20810)
78	D6	ALAEAMKK	>PCPP_BPT4 (P06807)
79	D7	EEADSMKS	>TRA3_HUMAN (Q13114)
			>TRA3_MOUSE (Q60803)
80	D8	GLARSNLD	>CO3_HUMAN (P01024)

81	D9	HLARNNHN	>CO4_MOUSE (P01029)
82	D10	KPAPSPAA	>IGA_NEIGO (P09790)
83	D11	HLADSPAV	>BCLX_HUMAN (Q07817)
			>BCLX_MOUSE (Q64373)
			>BCLX_PIG (O77737)
			>BCLX_RAT (P53563)
84	D12	IMAENRKS	>PLMN_HUMAN (P00747)
			>PLMN_MACMU (P12545)
			>PRGB_HUMAN (Q02325)
85	D13	RVAAGSPI	>LEXA_ALCEU (Q9AGM5)
			>LEXA_BORBR (Q7WCK0)
			>LEXA_BORPA (Q7W0T5)
			>LEXA_BORPE (Q7VRY0)
			>LEXA_RALSO (Q8XZU1)
86	D14	LLDRGATA	>FA7_HUMAN (P08709)
			>FA7_MOUSE (P70375)
			>FA7_RAT (Q8K3U6)
87	D15	DEDDSAAP	>ANDR_CROCR (Q8MIK0)
			>ANDR_HUMAN (P10275)
			>ANDR_MACFA (O97952)
			>ANDR_PANTR (O97775)
			>ANDR_PAPHA (O97960)
			>ANDR_PIG (Q9GKL7)
88	D16	TVDASMPK	>VP40_ILTVT (P23984)
89	D17	QIDRIMEK	>SN25_CHICK (P60878)
			>SN25_HUMAN (P60880)
			>SN25_MACMU (P60877)
			>SN25_MOUSE (P60879)
			>SN25_RAT (P60881)
			>SN2A_CARAU (P36977)
90	D18	ELDYHRGL	>ACIN_HUMAN (Q9UKV3)
			>ACIN_MOUSE (Q9JIX8)
91	D19	PEDDGYFV	>TOP1_CERAE (Q7YR26)
			>TOP1_HUMAN (P11387)
92	D20	LDEDEEDL	>MJD1_HUMAN (P54252)
93	D21	FNEKTFGL	>THRB_MOUSE (P19221)
94	D22	SLEKQIGH	>TNF6_CERTO (Q9BDN1)
			>TNF6_HUMAN (P48023)

			>TNF6_MACMU (Q9MYL6)
			>TNF6_PIG (Q9BEA8)
95	D23	GKENDKEE	>VCLB_PEA (P02854)
96	D24	REEMGKGY	>CAHC_PEA (P17067)
97	E1	DEEDILSH	>HD_HUMAN (P42858)
			>HD_MOUSE (P42859)
			>HD_RAT (P51111)
98	E2	LTEDHLDL	>MEFD_HUMAN (Q14814)
99	E3	DEEDLQRA	>MJD1_HUMAN (P54252)
100	E4	EGEDDRDS	>ROCL_HUMAN (O60812)
			>ROC_HUMAN (P07910)
			>ROC_HUMAN (P07910)
			>ROC_MOUSE (Q9Z204)
101	E5	DEEDDSGK	>HS9B_HORSE (Q9GKX8)
			>HS9B_HUMAN (P08238)
			>HS9B_MOUSE (P11499)
			>HS9B_RAT (P34058)
102	E6	LLERGVTA	>FA7_BOVIN (P22457)
103	E7	TEEDGVPS	>CTPT_HUMAN (P49585)
			>TSC1_HUMAN (Q92574)
104	E8	TQFDAAHP	>CTNB_HUMAN (P35222)
			>CTNB_MOUSE (Q02248)
			>CTNB_RAT (Q9WU82)
105	E9	VYFQGKKN	>POLG_TEV (P04517)
106	E10	SPFRSSRI	>KNG_HUMAN (P01042)
107	E11	SPFRSVQV	>KNH1_BOVIN (P01044)
			>KNH2_BOVIN (P01045)
			>KNL1_BOVIN (P01046)
			>KNL1_BOVIN (P01046)
			>KNL2_BOVIN (P01047)
			>KNL2_BOVIN (P01047)
108	E12	LAGGGALA	>HEX8_ADEP3 (Q83453)
109	E13	EAGRNAQV	>RA21_SCHPO (P30776)
110	E14	DTGDEDSA	>BCL2_RAT (P49950)

111	E15	LNGGAFSW	>PIV6_ADE40 (P48309)
			>PIV6_ADE41 (P16139)
112	E16	DAGDVGAA	>BCL2_HUMAN (P10415)
113	E17	MTGRTGHG	>PAI2_HUMAN (P05120)
			>PAI2_MOUSE (P12388)
			>PAI2_RAT (P29524)
114	E18	IGGLIGAN	>HLA_STAAU (P09616)
115	E19	RLGREGVQ	>CO3_HUMAN (P01024)
116	E20	QLGRLHMK	>CO5_HUMAN (P01031)
117	E21	SLGRKIQI	>CO2_HUMAN (P06681)
			>CO2_PANTR (Q8SQ74)
			>CO2_PONPY (Q8SQ75)
118	E22	LRGGAINW	>PIV6_ADEG1 (Q64757)
119	E23	DEGDSLIDG	>RSG1_BOVIN (P09851)
			>RSG1_HUMAN (P20936)
			>RSG1_RAT (P50904)
120	E24	SKGRSLIG	>PAR2_HUMAN (P55085)
			>PAR2_MOUSE (P55086)
			>PAR2_RAT (Q63645)
121	F1	SGGFMLTP	>MM08_HUMAN (P22894)
122	F2	LHGGALGW	>PIV6_ADEM1 (P48310)
123	F3	LAGGLMVG	>HEX8_ADEG1 (Q89814)
124	F4	TSGPNQEQ	>A2AP_HUMAN (P08697)
125	F5	MYGGARRL	>VCO7_ADEB2 (Q96624)
126	F6	IEGRTSED	>THR_BOVIN (P00735)
127	F7	PQGRIVGG	>FA7_BOVIN (P22457)
			>FA7_HUMAN (P08709)
			>FA7_RABIT (P98139)
			>FA7_RAT (Q8K3U6)
128	F8	IDGRIVEG	>THR_B_HUMAN (P00734)
			>THR_B_MOUSE (P19221)
			>THR_B_RAT (P18292)
129	F9	LAGGAWIN	>HEX8_ADEM1 (P19722)

130	F10	TGGRIYGG	>MAS2_HUMAN (O00187)
131	F11	DRHDSGLD	>IKBA_CHICK (Q91974) >IKBA_HUMAN (P25963) >IKBA_PIG (Q08353) >IKBA_RAT (Q63746)
132	F12	DEHDEHDE	>LA_HUMAN (P05455)
133	F13	QHHVVQDM	>DHCR_HUMAN (Q15392)
134	F14	DYHDYRGG	>ROR_HUMAN (O43390)
135	F15	FWHRGVTK	>FURI_HUMAN (P09958)
136	F16	DEIDHAEM	>ATB4_HUMAN (P23634)
137	F17	FLIEGEEP	>VPIP_BPT4 (P03720) >VPIP_BPT4 (P03720)
138	F18	LTIKSFNG	>PAR3_MOUSE (O08675)
139	F19	LPIKTFRG	>PAR3_HUMAN (O00254)
140	F20	LGIRSFRN	>FA5_HUMAN (P12259) >FA5_PIG (Q9GLP1)
141	F21	VEIDNGKQ	>LAMA_HUMAN (P02545) >LAMA_MOUSE (P48678) >LAMA_RAT (P48679) >LAMC_MOUSE (P11516)
142	F22	RAIDALRE	>ROR_HUMAN (O43390)
143	F23	GKIGGLIG	>HLA_STAAU (P09616)
144	F24	VGIPGLKG	>CA44_HUMAN (P53420)
145	G1	DNIDNLSP	>APC_HUMAN (P25054) >APC_MOUSE (Q61315) >APC_RAT (P70478)
146	G2	IDIRGPRL	>FIB2_PETMA (P33573)
147	G3	ADIDGQYA	>CTNB_HUMAN (P35222) >CTNB_MOUSE (Q02248) >CTNB_RAT (Q9WU82) >CTNB_XENLA (P26233)
148	G4	TEIDGRSI	>NUCL_HUMAN (P19338)

149	G5	DQIDDTVE	>VAV_HUMAN (P15498)
150	G6	AEIRATSE	>PTHR_BOVIN (P58073) >PTHR_CANFA (P52211) >PTHR_CHICK (P17251) >PTHR_HORSE (Q9GMB7) >PTHR_HUMAN (P12272) >PTHR_MOUSE (P22858) >PTHR_RABIT (Q9GLC7) >PTHR_RAT (P13085) >PTHR_SHEEP (Q9GK30)
151	G7	RTKREAGA	>PTPK_HUMAN (Q15262) >PTPK_MOUSE (P35822)
152	G8	VSKRSADD	>ITA4_XENLA (Q91687)
153	G9	EVKMDAEF	>A4_BOVIN (Q28053) >A4_CANFA (Q28280) >A4_CAVPO (Q60495) >A4_HUMAN (P05067) >A4_MACFA (P53601) >A4_MOUSE (P12023) >A4_PIG (P79307) >A4_RABIT (Q28748) >A4_RAT (P08592) >A4_SAISC (Q95241) >A4_SHEEP (Q28757) >A4_URSMA (Q29149)
154	G10	LFKRTEVL	>SDC2_HUMAN (P34741) >SDC2_MOUSE (P43407) >SDC2_RAT (P34900)
155	G11	YVKASELP	>P1-JC2365)
156	G12	ERKKSEHP	>PTPX_HUMAN (Q92932)
157	G13	PVKHGGEQ	>CO3_ONCMY (P98093)
158	G14	QQKRKIVL	>CFAB_GORGO (Q864V9) >CFAB_HUMAN (P00751) >CFAB_MOUSE (P04186) >CFAB_PANTR (Q864W0) >CFAB_PONPY (Q864W1)
159	G15	RNKRSKSN	>EDA_HUMAN (Q92838)
160	G16	LLKDFLKK	>PEP1_MACFU (P03954) >PEP2_MACFU (P27677)

			>PEP4_MACFU (P27678)
			>PEPA_HUMAN (P00790)
			>PEPA_MACMU (P11489)
			>PEPA_URSTH (P13636)
161	G17	RSKRALKQ	>FA8_HUMAN (P00451)
162	G18	DLKDHMRE	>SFR1_HUMAN (Q07955)
			>SFR9_HUMAN (Q13242)
163	G19	LEKKSPLG	>PTPN_HUMAN (Q16849)
			>PTPN_MOUSE (Q60673)
			>PTPN_RAT (Q63259)
164	G20	WEKLIQDQ	>TN14_MOUSE (Q9QYH9)
165	G21	KPKDSSVD	>CO9_RAT (Q62930)
166	G22	RKKRSTSA	>PAG_BACAN (P13423)
			>V184_FOWPV (Q9J549)
167	G23	ISKRSTEE	>ITA4_HUMAN (P13612)
168	G24	RRKRSTRE	>MET_MOUSE (P16056)
			>MET_RAT (P97523)
169	H1	RKKRSTKK	>MET_HUMAN (P08581)
170	H2	RAKRSVHF	>PCK7_HUMAN (Q16549)
171	H3	RNKRAVQG	>T13B_HUMAN (Q9Y275)
172	H4	YLKASVQG	>VP40_EHV2 (P52369)
173	H5	YVKASVSP	>VP40_HCMVA (P16753)
			>VP40_SCMVC (P16046)
174	H6	RVKRRVKR	>PCK5_BRACL (Q9NJ15)
175	H7	RVKRQVRS	>PCK6_HUMAN (P29122)
176	H8	RTKRDYDS	>PCK5_HUMAN (Q92824)
177	H9	FKLEVAQE	>SAS4_BACSU (P04833)
			>SAS4_BACSU (P04833)
178	H10	GPLGIAGI	>CA13_HUMAN (P02461)
			>Y4RN_RHISN (P55647)
179	H11	RRLRAIP	>MS1P_CRIGR (Q9Z2A8)
			>MS1P_HUMAN (Q14703)

			>MS1P_MOUSE (Q9WTZ2)
			>MS1P_RAT (Q9WTZ3)
180	H12	HDLRQAFR	>KGPA_BOVIN (P00516)
			>KGPA_HUMAN (Q13976)
			>KGPA_RABIT (O77676)
181	H13	EGLDAAAS	>GAT1_HUMAN (P15976)
182	H14	EPLDLASY	>LEC1_DOLBI (P05045)
183	H15	HGLLKDFL	>PEP1_MACFU (P03954)
			>PEP2_MACFU (P27677)
			>PEP4_MACFU (P27678)
			>PEPA_CALJA (Q9N2D4)
			>PEPA_MACMU (P11489)
			>PEPA_URSTH (P13636)
184	H16	SALDGDQM	>ROU_HUMAN (Q00839)
185	H17	NGLRADPM	>ASPR_HORVU (P42210)
186	H18	TKLRMELQ	>FCE2_HUMAN (P06734)
187	H19	SLLRSEET	>CO3_HUMAN (P01024)
			>CO3_RABIT (P12247)
			>CO3_RAT (P01026)
188	H20	RHLLGFSA	>AT6A_HUMAN (P18850)
189	H21	RHLLGFSE	>AT6B_HUMAN (Q99941)
			>AT6B_MOUSE (O35451)
190	H22	VRLQAGDE	>POLG_PSBMV (P29152)
191	H23	KELGLGRH	>CAN1_BOVIN (Q27970)
			>CAN1_MACFA (Q9GLG2)
			>CAN1_MOUSE (O35350)
			>CAN1_PIG (P35750)
			>CAN1_RAT (P97571)
192	H24	SYLDSGIH	>CTNB_HUMAN (P35222)
			>CTNB_MOUSE (Q02248)
			>CTNB_RAT (Q9WU82)
			>CTNB_XENLA (P26233)
193	I1	DLLDDGEI	>BRC1_HUMAN (P38398)
			>BRC1_PANTR (Q9GKK8)
194	I2	DELDYHRG	>ACIN_HUMAN (Q9UKV3)
			>ACIN_MOUSE (Q9JIX8)

195	I3	DELDSTM	>STK3_HUMAN (Q13188)
			>STK3_MOUSE (Q9JI10)
196	I4	VKLEGKSK	>POLG_PSBMV (P29152)
197	I5	PQLRMKNN	>FA8_HUMAN (P00451)
198	I6	ISLHGKGS	>CO9_HUMAN (P02748)
199	I7	EDLDGKGS	>GAT1_HUMAN (P15976)
200	I8	RGLTSLAD	>BDNF_CHICK (P25429)
			>BDNF_HUMAN (P23560)
			>BDNF_PROLO (O18755)
			>BDNF_URSAR (O18752)
			>BDNF_URSML (O18753)
201	I9	DGLPGLKG	>CA14_CAEEL (P17139)
			>CA34_BOVIN (Q28084)
			>CA34_HUMAN (Q01955)
202	I10	SLLELES	>PAXI_CHICK (P49024)
			>PAXI_HUMAN (P49023)
203	I11	ETLDMMKK	>MM08_HUMAN (P22894)
204	I12	KALKLNFA	>MPK2_XENLA (Q07192)
			>MPK4_HUMAN (P45985)
			>MPK4_MOUSE (P47809)
205	I13	WYLRNNG	>FA5_HUMAN (P12259)
			>FA5_PIG (Q9GLP1)
206	I14	AKLNANMW	>COAT_BOOLV (P12869)
207	I15	PGLKIPKE	>MPK6_HUMAN (P52564)
			>MPK6_MOUSE (P70236)
208	I16	MELDGPKG	>STA1_HUMAN (P42224)
			>STA1_HUMAN (P42224)
209	I17	ISLRGPRL	>FIB1_PETMA (P02674)
210	I18	EDLKTPIN	>ELTB_CLOPE (P01558)
211	I19	HMLGLPST	>MPK7_HUMAN (O14733)
212	I20	DGLDGPTY	>PSE3_HUMAN (P61289)
			>PSE3_MOUSE (P61290)
			>PSE3_PIG (P61291)

213	I21	MGLGLQPI	>PIV6_ADEM1 (P48310)
214	I22	DSLDRSL	>DRPL_HUMAN (P54259)
215	I23	ISLMKRPP	>KNG_HUMAN (P01042)
216	I24	SSLDAREV	>BCLX_HUMAN (Q07817)
			>BCLX_MOUSE (Q64373)
			>BCLX_PIG (O77737)
			>BCLX_RAT (P53563)
217	J1	SELDASKT	>SR72_CANFA (P33731)
			>SR72_HUMAN (O76094)
218	J2	RKLDNTKF	>SFR1_HUMAN (Q07955)
219	J3	PQLHSTGG	>URT1_DESRO (P98119)
			>URT2_DESRO (P15638)
			>URTB_DESRO (P98121)
			>URTG_DESRO (P49150)
220	J4	FGLNVTGK	>MM08_HUMAN (P22894)
221	J5	RGLTTTSL	>BDNF_MOUSE (P21237)
			>BDNF_RAT (P23363)
222	J6	IVLDGTDN	>HD_HUMAN (P42858)
223	J7	AQLGTTSS	>CAHC_PEA (P17067)
224	J8	LQMDYATN	>PPO2_HUMAN (Q9UGN5)
225	J9	RSMLEAES	>SRE1_CRIGR (Q60416)
			>SRE1_MOUSE (Q9WTN3)
			>SRE1_RAT (P56720)
226	J10	RYMRADEA	>CA12_CHICK (P02460)
227	J11	VKMDAEFR	>A4_BOVIN (Q28053)
			>A4_CANFA (Q28280)
			>A4_CAVPO (Q60495)
			>A4_HUMAN (P05067)
			>A4_MACFA (P53601)
			>A4_PIG (P79307)
			>A4_RABIT (Q28748)
			>A4_SAISC (Q95241)
			>A4_SHEEP (Q28757)
			>A4_URSMA (Q29149)
228	J12	DEMDEKSE	>SPAK_HUMAN (Q9UEW8)

			>SPAK_MOUSE (Q9Z1W9)
			>SPAK_RAT (O88506)
229	J13	VEMDSLSE	>SAB1_HUMAN (Q01826)
			>SAB1_MOUSE (Q60611)
230	J14	DLMDGLPP	>CTNB_HUMAN (P35222)
			>CTNB_HUMAN (P35222)
			>CTNB_MOUSE (Q02248)
			>CTNB_MOUSE (Q02248)
			>CTNB_RAT (Q9WU82)
			>CTNB_RAT (Q9WU82)
			>CTNB_XENLA (P26233)
			>CTNB_XENLA (P26233)
231	J15	EEMDFRSG	>KRAC_HUMAN (P31749)
232	J16	SPMGESAV	>ASPR_HORVU (P42210)
			>CYP1_CYNCA (P40782)
233	J17	FKNEVARE	>SAS0_CLOPE (P41371)
234	J18	FANEFAEG	>SASG_BACPF (P35142)
235	J19	LVNASCEP	>P1-JC2365)
			>P1-JC2365)
236	J20	DINDGHCG	>GRP2_HUMAN (O75791)
			>GRP2_MOUSE (O89100)
237	J21	LRNRAQSG	>FA8_HUMAN (P00451)
238	J22	SSNQLQRR	>HE_HEMPU (P91953)
239	J23	LVNASSAA	>VP40_HHV11 (P10210)
240	J24	DLNDGTQA	>HD_HUMAN (P42858)
			>HD_MOUSE (P42859)
			>HD_RAT (P51111)
241	K1	IVPDIAVG	>PTB_HUMAN (P26599)
			>PTB_MOUSE (P17225)
			>PTB_PIG (Q29099)
			>PTB_RAT (Q00438)
242	K2	DLPDCEAD	>MJD1_CHICK (Q9W689)
			>MJD1_HUMAN (P54252)
			>MJD1_MOUSE (Q9CVD2)
			>MJD1_RAT (O35815)
243	K3	DAVDTGIS	>DFFA_HUMAN (O00273)

244	K4	QSPRSFQK	>FA8_HUMAN (P00451)
245	K5	LDPRSFLI	>PAR1_HUMAN (P25116) >PAR1_PAPHA (P56488)
246	K6	LSPRTFHP	>FA5_HUMAN (P12259)
247	K7	IEPRSFSQ	>FA8_HUMAN (P00451)
248	K8	FNPRTFGS	>THRB_HUMAN (P00734)
249	K9	PGPKRGTE	>PCO1_HUMAN (Q15113)
250	K10	AEPDYGAL	>PIG1_BOVIN (P08487) >PIG1_HUMAN (P19174) >PIG1_RAT (P10686)
251	K11	VIPRSGGS	>THRB_BOVIN (P00735)
252	K12	VDPRLIDG	>PRTC_HUMAN (P04070) >PRTC_RABIT (Q28661)
253	K13	RRPSFIAI	>CASK_TAPIN (Q29135)
254	K14	SQPPEKTE	>PCO1_HUMAN (Q15113)
255	K15	TEPKVKLP	>PCO1_HUMAN (Q15113)
256	K16	DLPDMKET	>E2K2_HUMAN (P19525)
257	K17	LSPDLLTL	>GAT1_HUMAN (P15976) >GAT1_MOUSE (P17679) >GAT1_RAT (P43429)
258	K18	MSPKALQQ	>UVRB_ECOL6 (Q8FJP8) >UVRB_ECOL6 (Q8FJP8) >UVRB_ECOLI (P07025) >UVRB_ECOLI (P07025)
259	K19	VAPPSPQA	>IGA_NEIGO (P09790)
260	K20	DGPDGPEE	>RU17_HUMAN (P08621)
261	K21	PRPPAPVF	>IGA_NEIGO (P09790)
262	K22	SEPDSPVF	>SRE1_CRIGR (Q60416) >SRE1_HUMAN (P36956)
263	K23	PAPDAPLK	>KCC4_HUMAN (Q16566) >KCC4_MOUSE (P08414)

			>KCC4_RAT (P13234)
264	K24	GPPGIPGQ	>CA14_HUMAN (P02462)
			>CA54_CANFA (Q28247)
			>CA54_HUMAN (P29400)
265	L1	DEPDSPPV	>SRE2_CRIGR (Q60429)
			>SRE2_HUMAN (Q12772)
266	L2	ELPDGQVI	>ACT1_ACACA (P02578)
			>ACT1_AEDAE (P49128)
			>ACT1_ARATH (P10671)
			>ACT1_BACDO (P83969)
			>ACT1_BOMMO (P07836)
			>ACT1_BRARE (Q7ZVI7)
			>ACT1_CAEEL (P10983)
			>ACT1_DAUCA (P23343)
			>ACT1_DICDI (P02577)
			>ACT1_DROME (P10987)
			>ACT1_ECHGR (P35432)
			>ACT1_FUGRU (P53484)
			>ACT1_HALRO (P53460)
			>ACT1_HELER (P53462)
			>ACT1_LUMTE (P92182)
			>ACT1_LYCES (Q96482)
			>ACT1_LYTPI (P53465)
			>ACT1_ONCVO (P30162)
			>ACT1_ORYLA (Q98972)
			>ACT1_ORYSA (P13362)
			>ACT1_PEA (P30164)
			>ACT1_PNECA (P43239)
			>ACT1_PODCA (P41112)
			>ACT1_SACKO (O18499)
			>ACT1_SCHCO (Q9Y702)
			>ACT1_SCHMA (P53470)
			>ACT1_SOLTU (P93587)
			>ACT1_SORBI (P53504)
			>ACT1_SOYBN (P02581)
			>ACT1_STRFN (P10990)
			>ACT1_SUIBO (Q9Y701)
			>ACT1_TOBAC (Q05214)
			>ACT1_XENLA (P04751)
			>ACT2_ABSGL (P26197)
			>ACT2_ARATH (Q96292)
			>ACT2_ARTSX (P18601)
			>ACT2_BACDO (P45885)
			>ACT2_BOMMO (P07837)
			>ACT2_BRARE (Q7ZVF9)
			>ACT2_CAEEL (P10984)
			>ACT2_DAUCA (P23344)
			>ACT2_DICDI (P07827)

			>ACT2_DIPDE (P53456)
			>ACT2_DROME (P02572)
			>ACT2_FUGRU (P53485)
			>ACT2_HALRO (P27130)
			>ACT2_LUMTE (P92176)
			>ACT2_LYCES (Q96483)
			>ACT2_LYTPI (P53466)
			>ACT2_MOLOC (Q25472)
			>ACT2_ONCVO (P30163)
			>ACT2_ORYSA (P17298)
			>ACT2_PEA (P30165)
			>ACT2_SACKO (O18500)
			>ACT2_SCHMA (P53471)
			>ACT2_SOLTU (P93586)
			>ACT2_SUIBO (Q9Y707)
			>ACT2_XENLA (P10995)
			>ACT2_XENTR (P20399)
			>ACT3_BACDO (P45886)
			>ACT3_BOMMO (P04829)
			>ACT3_DICDI (P07829)
			>ACT3_DIPDE (P53457)
			>ACT3_DROME (P53501)
			>ACT3_ECHGR (Q03342)
			>ACT3_FUGRU (P53486)
			>ACT3_HELAM (Q25010)
			>ACT3_LIMPO (P41340)
			>ACT3_LYCES (Q96484)
			>ACT3_LYTPI (Q25379)
			>ACT3_PEA (P46258)
			>ACT3_PODCA (P41113)
			>ACT3_SOLTU (P30167)
			>ACT3_SOYBN (P02580)
			>ACT3_TOBAC (P93373)
			>ACT3_XENLA (P04752)
			>ACT4_ARATH (P53494)
			>ACT4_ARTSX (P18603)
			>ACT4_BOMMO (Q27250)
			>ACT4_CAEEL (P10986)
			>ACT4_DROME (P02574)
			>ACT4_LYTPI (Q25380)
			>ACT4_SOLTU (P93585)
			>ACT4_TOBAC (P93372)
			>ACT5_ARATH (Q8RYC2)
			>ACT5_BACDO (P45887)
			>ACT5_CHICK (P53478)
			>ACT5_DIPDE (P53458)
			>ACT5_DROME (P10981)
			>ACT5_SOLTU (P81228)
			>ACT5_TOBAC (P93371)
			>ACT5_XENLA (P53505)
			>ACT6_DIPDE (P53459)

		>ACT6_DROME (P83967)
		>ACT6_DROSI (P83968)
		>ACT6_SOLTU (P30168)
		>ACT6_TOBAC (P93376)
		>ACT7_ARATH (P53492)
		>ACT7_SOLTU (P30169)
		>ACT7_TOBAC (P93375)
		>ACT8_ARATH (Q96293)
		>ACT8_DICDI (P07830)
		>ACT8_SOLTU (P81229)
		>ACT8_XENLA (P53506)
		>ACT9_SOLTU (P93584)
		>ACTA_BOVIN (P62739)
		>ACTA_CHICK (P08023)
		>ACTA_HUMAN (P62736)
		>ACTA_LIMPO (P41339)
		>ACTA_MOUSE (P62737)
		>ACTA_PHYPO (P02576)
		>ACTA_RABIT (P62740)
		>ACTA_RAT (P62738)
		>ACTA_STRPU (P53472)
		>ACTB_ARATH (P53496)
		>ACTB_BOVIN (P60712)
		>ACTB_CHICK (P60706)
		>ACTB_CRIGR (P48975)
		>ACTB_CTEID (P83751)
		>ACTB_CYPCA (P83750)
		>ACTB_HORSE (P60708)
		>ACTB_HUMAN (P60709)
		>ACTB_MOUSE (P60710)
		>ACTB_ORYLA (P79818)
		>ACTB_RABIT (P29751)
		>ACTB_RAT (P60711)
		>ACTB_SALSA (O42161)
		>ACTB_SHEEP (P60713)
		>ACTB_SIGHI (Q91ZK5)
		>ACTB_SOLTU (P30171)
		>ACTB_STRPU (P53473)
		>ACTB_TRIVU (P60707)
		>ACTB_XENBO (P15475)
		>ACTB_XENLA (O93400)
		>ACTC_ARATH (P53497)
		>ACTC_BIOAL (Q964E3)
		>ACTC_BIOGL (P92179)
		>ACTC_BIOOB (Q964E1)
		>ACTC_BIOPF (Q964E2)
		>ACTC_BIOTE (Q964E0)
		>ACTC_BRABE (Q93129)
		>ACTC_BRAFL (Q93131)
		>ACTC_BRALA (O17503)
		>ACTC_FUGRU (P53480)

			>ACTC_HALRO (P53461)
			>ACTC_HELTI (Q964D9)
			>ACTC_HUMAN (P04270)
			>ACTC_PISOC (P12716)
			>ACTC_SOLTU (P30172)
			>ACTC_STRPU (Q07903)
			>ACTC_STYPL (Q00215)
			>ACTD_SOLTU (P30173)
			>ACTD_STRPU (P10991)
			>ACTE_STRPU (P53474)
			>ACTF_STRPU (P18499)
			>ACTG_CEPAC (Q9UVW9)
			>ACTG_EMENI (P20359)
			>ACTG_HUMAN (P02571)
			>ACTG_PENCH (Q9URS0)
			>ACTH_HUMAN (P12718)
			>ACTM_APLCA (P17304)
			>ACTM_BRABE (Q93130)
			>ACTM_BRAFL (Q93132)
			>ACTM_BRALA (O17502)
			>ACTM_CIOSA (O15998)
			>ACTM_HELER (P53463)
			>ACTM_HELTB (P53464)
			>ACTM_LYTPI (Q25381)
			>ACTM_MOLOC (P53467)
			>ACTM_PISOC (P12717)
			>ACTM_STRPU (P12431)
			>ACTM_STYCL (P26198)
			>ACTM_STYPL (Q00214)
			>ACTN_STYCL (P53475)
			>ACTS_CARAU (P49055)
			>ACTS_CYPCA (P53479)
			>ACTS_FUGRU (P53481)
			>ACTS_HUMAN (P02568)
			>ACTT_FUGRU (P53482)
			>ACTX_FUGRU (P53483)
			>ACTY_LIMPO (P41341)
			>ACT_ACECL (P53491)
			>ACT_AJECA (P53455)
			>ACT_ASHGO (Q75D00)
			>ACT_BOTCI (O13419)
			>ACT_BRUMA (P90689)
			>ACT_CALFI (Q92192)
			>ACT_CANAL (P14235)
			>ACT_CANDU (Q9UVZ8)
			>ACT_CANGA (P60009)
			>ACT_CHOCR (P53499)
			>ACT_COLSC (O65315)
			>ACT_COPCI (Q9UVX4)
			>ACT_CRAGI (O17320)
			>ACT_CRAVI (Q92193)

			>ACT_CRYNE (P48465)
			>ACT_ENTHI (P11426)
			>ACT_EXODE (Q8X119)
			>ACT_HYDAT (P17126)
			>ACT_KLULA (P17128)
			>ACT_LUMRU (P91754)
			>ACT_MANSE (P49871)
			>ACT_MAYDE (O16808)
			>ACT_MESVI (O65316)
			>ACT_NEUCR (P78711)
			>ACT_PHARH (P53689)
			>ACT_PICAN (O74258)
			>ACT_PICPA (Q9P4D1)
			>ACT_PINCO (P24902)
			>ACT_PLAMG (Q26065)
			>ACT_PROCL (P45521)
			>ACT_PUCGR (P50138)
			>ACT_SACBA (P60011)
			>ACT_SCHPO (P10989)
			>ACT_TAESO (P14227)
			>ACT_THELA (P10365)
			>ACT_YEAST (P60010)
267	L3	SSPDGQLM	>KPCE_HUMAN (Q02156)
268	L4	LPPKSQPP	>PCO1_HUMAN (Q15113)
269	L5	NSPDAQPQ	>SP1_HUMAN (P08047)
270	L6	LIPEAQGR	>PHCO_BPT4 (P04538)
271	L7	DEPDSRAG	>DFFA_MOUSE (O54786)
272	L8	MTPRSRGS	>THRB_RAT (P18292)
273	L9	ELPTVSQE	>PLMN_MOUSE (P20918)
274	L10	PPPPLSGG	>PSBQ_SPIOL (P12301)
275	L11	DYPDSSVS	>ATM_HUMAN (Q13315)
276	L12	MMPDGTLG	>NR54_HUMAN (Q15233)
277	L13	IQPFATNG	>LCAP_HUMAN (Q9UIQ6)
278	L14	ASPRITSI	>LANN_LACLA (P13068)
			>LANZ_LACLA (P29559)
279	L15	IKPRIVGG	>FA11_HUMAN (P03951)
280	L16	KTPRVVGG	>TMS4_HUMAN (Q9NRS4)

			>TMS4_MOUSE (Q8VCA5)
281	L17	LGPRIVNG	>PRTC_RAT (P31394)
282	L18	VVPRGVNL	>F13A_HUMAN (P00488)
283	L19	FRPGSVVV	>MUC1_HUMAN (P15941)
			>MUC1_HYLLA (Q29435)
284	L20	PAPRGYPG	>PAR4_HUMAN (Q96RI0)
285	L21	FIQDRAGR	>BAXA_BOVIN (O02703)
			>BAXA_HUMAN (Q07812)
			>BAXA_MOUSE (Q07813)
			>BAXA_RAT (Q63690)
			>BAXB_HUMAN (Q07814)
286	L22	YLQASEKF	>VP40_HHV11 (P10210)
287	L23	RCQAGFPS	>IMPA_SALTY (P18641)
288	L24	PVQPIGPQ	>MM01_HUMAN (P03956)
289	M1	VNQPSIEG	>XYN2_MAGGR (P55335)
290	M2	EKQRIIGG	>C1S_HUMAN (P09871)
291	M3	QRQRIIGG	>C1R_HUMAN (P00736)
292	M4	RHQDISL	>FA8_PIG (P12263)
293	M5	RHQREITR	>FA8_HUMAN (P00451)
294	M6	RHQRELSA	>FA8_MOUSE (Q06194)
295	M7	GLQRALEI	>CO4_HUMAN (P01028)
296	M8	GAQMGQPW	>LYAG_HUMAN (P10253)
297	M9	GSQHIRAE	>TN11_HUMAN (O14788)
298	M10	LAQAVRSS	>TNFA_HUMAN (P01375)
			>TNFA_MACFA (P79337)
			>TNFA_MACMU (P48094)
			>TNFA_PAPAN (P59695)
			>TNFA_PAPHU (O77510)
			>TNFA_PAPSP (P33620)
299	M11	ESQDVSGS	>CDNB_CRIGR (Q60439)
			>CDNB_HUMAN (P46527)
			>CDNB_MOUSE (P46414)

300	M12	GPQRFSGV	>TN11_RAT (Q9ESE2)
301	M13	HHQKLVFF	>A4_BOVIN (Q28053) >A4_CANFA (Q28280) >A4_CAVPO (Q60495) >A4_HUMAN (P05067) >A4_MACFA (P53601) >A4_PIG (P79307) >A4_RABIT (Q28748) >A4_SAISC (Q95241) >A4_SHEEP (Q28757) >A4_TETFL (O73683) >A4_URSMA (Q29149)
302	M14	DDRDSANG	>ROC_HUMAN (P07910) >ROC_MOUSE (Q9Z204)
303	M15	VMRDPASK	>RO21_XENLA (P51989) >RO22_XENLA (P51990) >ROA2_HUMAN (P22626) >ROA2_MOUSE (O88569)
304	M16	RSRREADK	>LFNG_BRARE (Q8JHF2)
305	M17	RARRDAGP	>LFNG_HUMAN (Q8NES3)
306	M18	VHRDMAAR	>BCL2_CRILO (Q9JJV8)
307	M19	DPRLIDGK	>PRTC_HUMAN (P04070) >PRTC_RABIT (Q28661)
308	M20	YYRADDAN	>CA11_CANFA (Q9XSJ7) >CA11_CHICK (P02457) >CA11_HUMAN (P02452) >CA11_MOUSE (P11087)
309	M21	ILRDKDNT	>PLE1_CRIGR (Q9JI55) >PLE1_HUMAN (Q15149) >PLE1_RAT (P30427)
310	M22	EIRAGEKR	>LEXA_THEME (O33927)
311	M23	RNRRAFQG	>T13B_MOUSE (Q9WU72)
312	M24	AQRDShLG	>PSN1_HUMAN (P49768) >PSN1_MACFA (Q8HXW5) >PSN1_MOUSE (P49769) >PSN1_RAT (P97887)
313	N1	LDRRGIQR	>FA5_BOVIN (Q28107)

			>FA5_HUMAN (P12259)
314	N2	MLRREIKS	>EXL2_HUMAN (Q9UBQ6)
315	N3	AKRRTKRD	>FURI_HUMAN (P09958)
316	N4	DLRDDKDT	>RAC1_BOVIN (P62998)
			>RAC1_CANFA (P62999)
			>RAC1_CAVPO (P80236)
			>RAC1_CAVPO (P80236)
			>RAC1_HUMAN (P63000)
			>RAC1_MOUSE (P63001)
			>RAC1_RAT (Q6RUV5)
			>RAC2_BOVIN (Q9TU25)
			>RAC2_HUMAN (P15153)
			>RAC2_MOUSE (Q05144)
			>RAC3_HUMAN (P60763)
			>RAC3_MOUSE (P60764)
317	N5	RARRELAP	>NTC3_HUMAN (Q9UM47)
318	N6	RRRRELDP	>NTC1_HUMAN (P46531)
319	N7	DPRIVNGT	>PRTC_MOUSE (P33587)
320	N8	RKRRAPLA	>GDF5_HUMAN (P43026)
			>GDF5_MOUSE (P43027)
321	N9	YMRADQAA	>CA12_HUMAN (P02458)
322	N10	FYRADQPR	>CA21_BOVIN (P02465)
			>CA21_CANFA (O46392)
			>CA21_HUMAN (P08123)
			>CA21_MOUSE (Q01149)
			>CA21_RABIT (Q28668)
			>CA21_RAT (P02466)
323	N11	VKRRVQDV	>ITA9_HUMAN (Q13797)
324	N12	AKRAASQI	>CCW7_YEAST (P47000)
			>H150_YEAST (P32478)
			>PIR3_YEAST (Q03180)
325	N13	VYRDGTGV	>SFR1_HUMAN (Q07955)
326	N14	EARPIVVG	>PSBQ_SPIOL (P12301)
327	N15	LDRKEVLG	>SDC1_CRIGR (P47951)
			>SDC1_HUMAN (P18827)
			>SDC1_MESAU (P34740)
			>SDC1_MOUSE (P18828)

			>SDC1_RAT (P26260)
328	N16	RVRRDVEQ	>LFNG_XENLA (P79948)
329	N17	RKRAVLT	>TN13_HUMAN (O75888)
330	N18	LERKEVLV	>SDC3_HUMAN (O75056)
			>SDC3_MOUSE (Q64519)
			>SDC3_RAT (P33671)
331	N19	DTRDNVYY	>CAD1_HUMAN (P12830)
			>CAD1_MOUSE (P09803)
			>CAD1_RAT (Q9R0T4)
332	N20	GIRSLYGS	>HE_PARLI (P22757)
333	N21	DDSDAATF	>ADDA_HUMAN (P35611)
334	N22	DYSLVAPP	>BPI_BOVIN (P17453)
			>BPI_RABIT (Q28739)
335	N23	EESDEDMG	>RA2B_MAIZE (O24415)
			>RA2B_RANBO (P84115)
			>RA2B_RANCL (P82879)
			>RA2B_RANLU (P82829)
			>RLA0_BOVIN (Q95140)
			>RLA0_BRARE (Q9PV90)
			>RLA0_CHICK (P47826)
			>RLA0_HUMAN (P05388)
			>RLA0_MOUSE (P14869)
			>RLA0_RAT (P19945)
			>RLA0_SCHPO (O74864)
			>RLA1_ALTAL (P49148)
			>RLA1_ASPFU (Q9HGV0)
			>RLA1_SCHPO (P17476)
			>RLA2_ALTAL (P42037)
			>RLA2_ASPFU (Q9UUZ6)
			>RLA2_BRUMA (P90703)
			>RLA2_FUSCU (Q8TFM9)
			>RLA2_SCHPO (P08094)
			>RLA3_SCHPO (P17477)
			>RLA4_SCHPO (P17478)
			>RLA5_SCHPO (Q9UU78)
336	N24	LLSRSEED	>CO3_ONCMY (P98093)
337	O1	DSSDSELE	>CSEN_HUMAN (Q9Y2W7)
			>CSEN_MOUSE (Q9QXT8)
			>CSEN_RAT (Q9JM47)
338	O2	LESDYFGK	>IL18_CANFA (Q9XSR0)

			>IL18_HUMAN (Q14116)
			>IL18_PIG (O19073)
339	03	LKSNEIPD	>CONA_CANEN (P02866)
			>CONA_CANGL (P14894)
340	04	LSSDAPGV	>CREB_BOVIN (P27925)
			>CREB_HUMAN (P16220)
			>CREB_MOUSE (Q01147)
			>CREB_RAT (P15337)
341	05	DPSDSQTG	>CDNB_HUMAN (P46527)
342	06	EPSRLQES	>RA21_HUMAN (O60216)
343	07	TYSRSRYL	>UPAR_HUMAN (Q03405)
			>UPAR_PANTR (Q9GK80)
344	08	EISRKRRS	>PTPD_HUMAN (P23468)
345	09	LPSRSSPT	>CO3_RAT (P01026)
346	010	KESDLSHV	>ROR_HUMAN (O43390)
347	011	APQYTYAQ	>FLNA_HUMAN (P21333)
348	012	LASRIVGG	>TMS5_HUMAN (Q9H3S3)
			>TMS5_MOUSE (Q9ER04)
349	013	YSSRIVGG	>TMS3_HUMAN (P57727)
350	014	KPTPIQLN	>MPK1_CRIGR (Q63980)
			>MPK1_HUMAN (Q02750)
			>MPK1_MOUSE (P31938)
			>MPK1_PANTR (Q9XT09)
			>MPK1_RABIT (P29678)
			>MPK1_RAT (Q01986)
			>MPK1_XENLA (Q05116)
351	015	AETDQAS	>ST24_HUMAN (Q9Y6E0)
352	016	AATTRQAV	>SYD1_HUMAN (P78423)
			>SYD1_MOUSE (O35188)
			>SYD1_RAT (O55145)
353	017	TSTRIVGG	>KAL_HUMAN (P03952)
354	018	SHVDGAAK	>PAK2_HUMAN (Q13177)
355	019	SEVKMDAE	>A4_BOVIN (Q28053)
			>A4_CANFA (Q28280)

			>A4_CAVPO (Q60495)
			>A4_HUMAN (P05067)
			>A4_MACFA (P53601)
			>A4_MOUSE (P12023)
			>A4_PIG (P79307)
			>A4_RABIT (Q28748)
			>A4_RAT (P08592)
			>A4_SAISC (Q95241)
			>A4_SHEEP (Q28757)
			>A4_URSMA (Q29149)
356	020	DTVVDGKEI	>RSG1_HUMAN (P20936)
			>RSG1_RAT (P50904)
357	021	DGVDLKTQ	>LYN_HUMAN (P07948)
358	022	GGVRGPRV	>FIBA_HUMAN (P02671)
359	023	KNVAMQKG	>TNF5_FELCA (O97605)
360	024	DEVDMAG	>RFC1_DROME (P35600)
			>RFC1_HUMAN (P35251)
			>RFC1_MOUSE (P35601)