

## Phosphatase 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 (phospho-residues in bold small letters):

No	Well	Sequence	ID
1	A1	sDIEEVVVEEYE	>TRT2_HUMAN (P45379)
2	A2	sDEEVEQVEEQ	>TRT3_HUMAN (P45378)
3	A3	RRGGV <b>s</b> AEVYT	>KAP1_HUMAN (P31321)
			>KAP1_MOUSE (P12849)
			>KAP1_RAT (P81377)
4	A4	KPFKL <b>s</b> GLSFK	>MRP_HUMAN (P49006)
			>MRP_MOUSE (P28667)
			>MRP_RABBIT (P35566)
5	A5	RRGAI <b>s</b> AEVYT	>KAP0_BOVIN (P00514)
			>KAP0_HUMAN (P10644)
			>KAP0_PIG (P07802)
			>KAP0_RAT (P09456)
6	A6	PTRKI <b>s</b> ASEFD	>CN5A_BOVIN (Q28156)
			>CN5A_CANFA (O77746)
			>CN5A_HUMAN (O76074)
7	A7	ARVLE <b>s</b> YRSCY	>MINK_HUMAN (P15382)
			>MINK_HUMAN (P15382)

8	A8	NSVSPsPLMLL	>ESR1_HUMAN (P03372)
			>ESR1_MESAU (Q9QZJ5)
			>ESR1_MOUSE (P19785)
			>ESR1_RAT (P06211)
9	A9	PsdKERLTSDA	>ITA6_CHICK (P26007)
10	A10	KHVPDsGATAT	>PPB1_HUMAN (P05187)
			>PPB2_HUMAN (P06861)
			>PPB3_HUMAN (P05188)
			>PPBN_HUMAN (P10696)
11	A11	NVDKHVPDsGA	>PPB1_HUMAN (P05187)
			>PPB2_HUMAN (P06861)
			>PPB3_HUMAN (P05188)
12	A12	TKRNSsPPPSP	>ATB1_HUMAN (P20020)
			>ATB1_RABIT (Q00804)
			>ATB1_RAT (P11505)
13	A13	PPPQLsPFLQP	>ESR1_HUMAN (P03372)
14	A14	RHLDisRELND	>LGN_HUMAN (P81274)
15	A15	VFTSRsAAAFSG	>K2C7_HUMAN (P08729)
16	A16	VPLDRsSHCQR	>INSR_HUMAN (P06213)
			>INSR_HUMAN (P06213)
			>INSR_MOUSE (P15208)
			>INSR_RAT (P15127)
			>INSR_RAT (P15127)
17	A17	APKKGsKKAVT	>H2BA_HUMAN (P02278)
			>H2BC_HUMAN (Q99880)
			>H2BD_HUMAN (Q99877)
			>H2BH_HUMAN (Q93078)
			>H2BJ_HUMAN (Q93079)
			>H2BL_HUMAN (Q93080)
			>H2BN_HUMAN (P23527)
			>H2BQ_HUMAN (Q16778)
			>H2BR_HUMAN (P06899)
			>H2BS_HUMAN (P57053)
			>H2B1_MOUSE (P10853)
			>H2B2_MOUSE (P10854)
			>H2B_RAT (Q00715)
			>H2B_CAIMO (P14001)
			>H2B_CHICK (P02279)
			>H2B_CRONI (P02280)
			>H2B_SALTR (P02282)
			>H2B1_XENLA (P02281)
			>H2B2_XENLA (P06900)

18	A18	AKKEDsDEEED	>NUCL_HUMAN (P19338)
19	A19	LsDQEKRKQIS	>PHS2_HUMAN (P11217) >PHS2_RABIT (P00489)
20	A20	SEGEES TVRFA	>KPC1_HUMAN (P05771) >KPC1_RABIT (P05772) >KPC1_RAT (P04410) >KPC2_BOVIN (P05126) >KPC2_HUMAN (P05127) >KPC2_RABIT (P05773) >KPC2_MOUSE (P04411)
21	A21	AKSFGsPNRAY	>CDK7_HUMAN (P50613) >CDK7_MOUSE (Q03147)
22	A22	LSRMPsPGGRI	>MPP9_HUMAN (Q99550) >MPP9_HUMAN (Q99550)
23	A23	GSRRGsFDATG	>PLE1_CRIGR (Q9JI55) >PLE1_CRIGR (Q9JI55) >PLE1_HUMAN (Q15149) >PLE1_HUMAN (Q15149) >PLE1_RAT (P30427) >PLE1_RAT (P30427) >DESP_HUMAN (P15924)
24	A24	LTRDSsILGPH	>CCAA_HUMAN (O00555) >CCAA_MOUSE (P97445) >CCAA_RABIT (P27884) >CCAA_RAT (P54282) >CCAB_HUMAN (Q00975) >CCAB_MOUSE (O55017) >CCAB_RABIT (Q05152) >CCAB_RAT (Q02294) >CCAB_DISOM (P56698) >CCAE_HUMAN (Q15878) >CCAE_MOUSE (Q61290) >CCAE_RABIT (Q02343) >CCAE_RAT (Q07652) >CCAE_DISOM (P56699)
25	B1	PQRATsNVFAM	>MLRM_CHICK (P02612) >MLRN_CHICK (P24032) >MLRM_HUMAN (P19105) >MLRN_HUMAN (P24844) >MLRN_PIG (P29269) >MLRA_RAT (P13832) >MLRB_RAT (P18666) >MLRH_CAEEL (Q09510)

26	B2	VTVAY <b>s</b> PKRSP	>MPP9_HUMAN (Q99550)
27	B3	RDLSS <b>s</b> PPGPY	>AAKC_HUMAN (O43741) >AAKC_RAT (Q9QZH4)
28	B4	AAAPAs <b>e</b> DEDD	>NUCL_HUMAN (P19338)
29	B5	YYEILN <b>s</b> PEKA	>143B_BOVIN (P29358) >143B_HUMAN (P31946) >143B_RAT (P35213) >143Z_HUMAN (P29312) >143Z_MOUSE (P35215) >143Z_SHEEP (P29361) >1433_XENLA (P29309)
30	B6	PMVDQ <b>s</b> PSVST	>Z145_HUMAN (Q05516)
31	B7	KKRPQRAT <b>s</b> NV	>MLRM_CHICK (P02612) >MLRN_CHICK (P24032) >MLRM_HUMAN (P19105) >MLRN_HUMAN (P24844) >MLRN_PIG (P29269) >MLRA_RAT (P13832) >MLRB_RAT (P18666)
32	B8	FFPFH <b>s</b> PSRLF	>CRAB_BOVIN (P02510) >CRAB_HUMAN (P02511) >CRAB_MESAU (P05811) >CRAB_MOUSE (P23927) >CRAB_RABIT (P41316) >CRAB_RAT (P23928) >HSBY_HUMAN (O43416)
33	B9	AAARL <b>s</b> LTDPL	>GPBB_HUMAN (P13224)
34	B10	GAGDG <b>s</b> DEEVD	>MYH9_HUMAN (P35579)
35	B11	SWGTA <b>s</b> PYSAM	>PMX1_HUMAN (P54821) >PMX1_HUMAN (P54821) >PMX1_MOUSE (P43271) >PMX1_MOUSE (P43271) >PMX1_CHICK (Q05437) >PMX1_CHICK (Q05437)
36	B12	GLSAM <b>s</b> PTKAA	>Z145_HUMAN (Q05516)
37	B13	SLGRRAs <b>f</b> HLE	>CCAC_HUMAN (Q13936) >CCAC_MOUSE (Q01815) >CCAC_RABIT (P15381) >CCAC_RAT (P22002)

38	B14	RSGYSsPGSPG	>TAU_BOVIN (P29172)
			>TAU_CAPHI (O02828)
			>TAU_HUMAN (P10636)
			>TAU_MACMU (P57786)
			>TAU_MOUSE (P10637)
			>TAU_PAPHA (Q9MYX8)
			>TAU_RAT (P19332)
39	B15	LRQLRsPRRTQ	>RB4A_HUMAN (P20338)
			>RB4A_MOUSE (P56371)
			>RB4A_RAT (P05714)
40	B16	VDYVNsTEAET	>FA9_HUMAN (P00740)
41	B17	TKSGsTTKNRF	>IF4E_HUMAN (P06730)
			>IF4E_MOUSE (P20415)
			>IF4E_RABIT (P29338)
			>IF4E_XENLA (P48597)
42	B18	MIGADsSEEKF	>STAT_HUMAN (P02808)
			>STAT_HUMAN (P02808)
43	B19	RSRTPsLPTPP	>TAU_BOVIN (P29172)
			>TAU_CAPHI (O02828)
			>TAU_HUMAN (P10636)
			>TAU_MACMU (P57786)
			>TAU_MOUSE (P10637)
			>TAU_PAPHA (Q9MYX8)
			>TAU_RAT (P19332)
44	B20	SRGLKsGLKTD	>A1AA_BOVIN (P18130)
			>A1AA_CANFA (O77621)
			>A1AA_HUMAN (P35348)
			>A1AA_MOUSE (P97718)
			>A1AA_RABIT (O02824)
			>A1AA_RAT (P43140)
45	B21	RRKYRsNKGES	>CD27_HUMAN (P26842)
			>CD27_HUMAN (P26842)
46	B22	AETRVPTMRPs	>COA2_HUMAN (O00763)
47	B23	PTMRPsMSGLH	>COA2_HUMAN (O00763)
48	B24	PTTPLsPTRLS	>LAM1_HUMAN (P20700)
49	C1	AWTADsGEGDF	>FIBA_HUMAN (P02671)
50	C2	SSTPLsPTRIT	>LAMA_HUMAN (P02545)
			>LAMA_MOUSE (P48678)

			>LAMC_MOUSE (P11516)
			>LAMA_RAT (P48679)
51	C3	YSPKR <b>s</b> PKENL	>MPP9_HUMAN (Q99550)
52	C4	SGQLID <b>s</b> MANS	>MPK1_CRIGR (Q63980)
			>MPK1_HUMAN (Q02750)
			>MPK1_MOUSE (P31938)
			>MPK1_RABIT (P29678)
			>MPK1_RAT (Q01986)
			>MPK1_SERCA (Q91447)
			>MPK1_XENLA (Q05116)
			>MPK2_HUMAN (P36507)
			>MPK2_MOUSE (Q63932)
			>MPK2_RAT (P36506)
			>MPK2_CHICK (Q90891)
			>MPK2_CYPCA (Q90321)
			>DSOR_DROME (Q24324)
53	C5	MRPS <b>s</b> GLHLV	>COA2_HUMAN (O00763)
			>COAC_CHICK (P11029)
54	C6	DSMAN <b>s</b> FVGTR	>MPK1_CRIGR (Q63980)
			>MPK1_HUMAN (Q02750)
			>MPK1_MOUSE (P31938)
			>MPK1_RABIT (P29678)
			>MPK1_RAT (Q01986)
			>MPK1_SERCA (Q91447)
			>MPK1_XENLA (Q05116)
			>MPK2_HUMAN (P36507)
			>MPK2_MOUSE (Q63932)
			>MPK2_RAT (P36506)
			>MPK2_CHICK (Q90891)
			>MPK2_CYPCA (Q90321)
			>DSOR_DROME (Q24324)
55	C7	SGPYE <b>s</b> DEDKS	>TLE2_HUMAN (Q04725)
56	C8	RDKEV <b>s</b> DDEAE	>HS9A_CRIGR (P46633)
			>HS9A_HUMAN (P07900)
			>HS9A_MOUSE (P07901)
			>HS9A_PIG (O02705)
			>HS9A_CHICK (P11501)
			>HS90_BRUPA (O61998)
57	C9	RTPPK <b>s</b> PSSAK	>TAU_HUMAN (P10636)
			>TAU_MACMU (P57786)
			>TAU_PAPHA (Q9MYX8)
58	C10	SSHYD <b>s</b> DGDKS	>TLE1_HUMAN (Q04724)

59	C11	FELILsPRSKE	>STHM_HUMAN (P16949)
			>STHM_MOUSE (P54227)
			>STHM_RAT (P13668)
60	C12	KVRKSsTQEEI	>COF2_HUMAN (Q9Y281)
			>COF2_MOUSE (P45591)
61	C13	SSLRAstSKS	>RS6_CHICK (P47838)
			>RS6_HUMAN (P10660)
			>RS6_XENLA (P39017)
62	C14	ASTKSsESSQK	>RS6_CHICK (P47838)
			>RS6_HUMAN (P10660)
			>RS6_XENLA (P39017)
63	C15	NKRRGsVPILR	>42_HUMAN (P16452)
64	C16	PIDMEsQERIK	>AP1_HUMAN (P05412)
			>AP1_MOUSE (P05627)
			>AP1_PIG (P56432)
			>AP1_RAT (P17325)
			>AP1_CHICK (P18870)
			>AP1_COTJA (P12981)
			>AP1_SERCA (P54864)
			>TJUN_AVIS1 (P05411)
65	C17	PSEPPsPATTP	>TLE2_HUMAN (Q04725)
66	C18	PSAYGsVKAYT	>ANX2_BOVIN (P04272)
			>ANX2_HUMAN (P07355)
67	C19	TKRSGsVYEPL	>KPBB_HUMAN (Q93100)
			>KPBB_RABIT (P12798)
68	C20	KSKIGsTENLK	>TAU_BOVIN (P29172)
			>TAU_CAPHI (O02828)
			>TAU_HUMAN (P10636)
			>TAU_MACMU (P57786)
			>TAU_PAPHA (Q9MYX8)
69	C21	SSPRAsPAHSP	>TLE1_HUMAN (Q04724)
70	C22	ATPRVsPAHSP	>TLE3_HUMAN (Q04726)
			>TLE3_MOUSE (Q08122)
71	C23	QLRRPsDQEVs	>REL_CHICK (P16236)
			>REL_MELGA (P01125)
			>REL_HUMAN (Q04864)
			>REL_MOUSE (P15307)
72	C24	VSPAHSPPENG	>TLE3_HUMAN (Q04726)

			>TLE3_MOUSE (Q08122)
73	D1	QTVK <b>s</b> KGPG	>ANX1_HUMAN (P04083)
74	D2	QLRR <b>P</b> sDRELS	>TF65_HUMAN (Q04206) >TF65_MOUSE (Q04207)
75	D3	PAKR <b>I</b> sGKMAL	>CC2_BOVIN (P48734) >CC2_HUMAN (P06493) >CC2_MOUSE (P11440) >CC2_RAT (P39951) >CC2_CHICK (P13863) >CC2_CHICK (P13863)
76	D4	HESME <b>s</b> YELNP	>MGP_HUMAN (P08493)
77	D5	SSND <b>s</b> TSVSAV	>ACM2_BOVIN (P41985) >ACM2_HUMAN (P08172) >ACM2_MOUSE (Q9ERZ4) >ACM2_PIG (P06199) >ACM2_RAT (P10980)
78	D6	SSNDSTSV <b>s</b> AV	>ACM2_BOVIN (P41985) >ACM2_HUMAN (P08172) >ACM2_MOUSE (Q9ERZ4) >ACM2_PIG (P06199) >ACM2_RAT (P10980)
79	D7	ESSND <b>s</b> TSVSA	>ACM2_BOVIN (P41985) >ACM2_HUMAN (P08172) >ACM2_MOUSE (Q9ERZ4) >ACM2_PIG (P06199) >ACM2_RAT (P10980)
80	D8	AKKRL <b>s</b> VERIY	>TP2A_HUMAN (P11388)
81	D9	APPR <b>s</b> SIRNA	>NCF1_BOVIN (O77774) >NCF1_HUMAN (P14598)
82	D10	DENTV <b>s</b> TSLGH	>ACM2_HUMAN (P08172) >ACM2_MOUSE (Q9ERZ4) >ACM2_PIG (P06199) >ACM2_RAT (P10980)
83	D11	SIHQ <b>R</b> sRKRLS	>NCF1_BOVIN (O77774) >NCF1_HUMAN (P14598) >NCF1_MOUSE (Q09014)
84	D12	SRKRL <b>s</b> QDAYR	>NCF1_HUMAN (P14598)
85	D13	AYRR <b>N</b> sVRFLQ	>NCF1_HUMAN (P14598)

86	D14	PWIMQ <b>s</b> TKVPQ	>MKK2_CRILO (P49136)
			>MKK2_HUMAN (P49137)
			>MKK2_MOUSE (P49138)
			>MKK2_RABIT (P49139)
			>MKK2_RABIT (P49139)
87	D15	LAQRAR <b>s</b> PSDV	>GPRC_HUMAN (P47775)
88	D16	RIGHH <b>s</b> TSDDS	>ODBA_BOVIN (P11178)
			>ODBA_HUMAN (P12694)
			>ODBA_MOUSE (P50136)
			>ODBA_RAT (P11960)
89	D17	RGQRD <b>s</b> SYWE	>KMIL_AVIMH (P00531)
			>KMIL_CHICK (P05625)
			>KRAF_HUMAN (P04049)
			>KRAF_RAT (P11345)
			>KRAF_XENLA (P09560)
90	D18	QTQST <b>s</b> GRRRR	>ATF2_HUMAN (P15336)
91	D19	RPGPQ <b>s</b> PGSPL	>NCF1_HUMAN (P14598)
			>NCF1_HUMAN (P14598)
92	D20	KHLEI <b>s</b> REVGD	>LGN_HUMAN (P81274)
93	D21	PQSPG <b>s</b> PLEEE	>NCF1_HUMAN (P14598)
			>NCF1_HUMAN (P14598)
94	D22	MEFSR <b>s</b> KSDNS	>EDG1_HUMAN (P21453)
			>EDG1_HUMAN (P21453)
			>EDG1_MOUSE (O08530)
			>EDG1_MOUSE (O08530)
			>EDG1_RAT (P48303)
			>EDG1_RAT (P48303)
95	D23	GNGYS <b>s</b> NGNTG	>B2AR_HUMAN (P07550)
96	D24	SKVPFR <b>s</b> RSPS	>GPR6_HUMAN (P46095)
			>GPR6_HUMAN (P46095)
			>GPR6_RAT (P51651)
97	E1	SKVPFRSR <b>s</b> PS	>GPR6_HUMAN (P46095)
			>GPR6_HUMAN (P46095)
			>GPR6_RAT (P51651)
98	E2	RSRKE <b>s</b> YSVYV	>H2BA_HUMAN (P02278)
			>H2BC_HUMAN (Q99880)
			>H2BD_HUMAN (Q99877)
			>H2BE_HUMAN (Q99879)

			>H2BH_HUMAN (Q93078)
			>H2BJ_HUMAN (Q93079)
			>H2BS_HUMAN (P57053)
			>H2B1_MOUSE (P10853)
			>H2B2_MOUSE (P10854)
			>H2B_RAT (Q00715)
99	E3	VPFRSRsPSEV	>GPR6_HUMAN (P46095)
			>GPR6_RAT (P51651)
100	E4	VPFRSRSPsEV	>GPR6_HUMAN (P46095)
			>GPR6_RAT (P51651)
101	E5	SNRKPskDKDK	>GAC2_BOVIN (P22300)
			>GAC2_CHICK (P21548)
			>GAC2_HUMAN (P18507)
			>GAC2_MOUSE (P22723)
			>GAC2_RAT (P18508)
102	E6	PKSKQsPISTP	>DCX_HUMAN (O43602)
			>DCX_MOUSE (O88809)
			>DCX_MOUSE (O88809)
103	E7	PEFPLsPPKKK	>STHM_HUMAN (P16949)
			>STHM_RAT (P13668)
			>STHM_CHICK (P31395)
104	E8	ISTPTsPGSLR	>DCX_HUMAN (O43602)
			>DCX_MOUSE (O88809)
			>DCX_MOUSE (O88809)
105	E9	STRTYsLGSAL	>VIME_BOVIN (P48616)
			>VIME_HUMAN (P08670)
			>VIME_MOUSE (P20152)
			>VIME_PIG (P02543)
			>VIME_RAT (P31000)
106	E10	AERsLKDMEES	>G19P_BOVIN (Q28034)
			>G19P_HUMAN (P14314)
107	E11	KDMEEsIRNLE	>G19P_BOVIN (Q28034)
			>G19P_HUMAN (P14314)
108	E12	ARKAVsMHEVN	>NAC1_BOVIN (P48765)
			>NAC1_CANFA (P23685)
			>NAC1_CAVPO (P48766)
			>NAC1_FELCA (P48767)
			>NAC1_HUMAN (P32418)
			>NAC1_MOUSE (P70414)
			>NAC1_RAT (Q01728)

109	E13	LKLSPSPSSRV	>LAM2_CHICK (P14732)
			>LAM1_HUMAN (P20700)
			>LAM1_MOUSE (P14733)
			>LAM2_HUMAN (Q03252)
110	E14	LMFKTEGPDSD	>P53_HUMAN (P04637)
			>P53_TUPGB (Q9TTA1)
111	E15	SPSPSRVTVS	>LAM2_CHICK (P14732)
			>LAM1_HUMAN (P20700)
			>LAM1_MOUSE (P14733)
			>LAM2_HUMAN (Q03252)
112	E16	NSRRPSPRATWL	>VTNC_HUMAN (P04004)
113	E17	LGRRHSMENME	>LGN_HUMAN (P81274)
114	E18	SRGRASSHSSQ	>LAMA_HUMAN (P02545)
			>LAMA_MOUSE (P48678)
			>LAMC_MOUSE (P11516)
			>LAMA_RAT (P48679)
115	E19	VSGDTSPRHLS	>TAU_BOVIN (P29172)
			>TAU_BOVIN (P29172)
			>TAU_CAPHI (O02828)
			>TAU_HUMAN (P10636)
			>TAU_MACMU (P57786)
			>TAU_MOUSE (P10637)
			>TAU_MOUSE (P10637)
			>TAU_PAPHA (Q9MYX8)
			>TAU_PAPHA (Q9MYX8)
			>TAU_RAT (P19332)
			>TAU_RAT (P19332)
116	E20	RGRASSHSSQT	>LAMA_HUMAN (P02545)
117	E21	SRASSRSVRT	>LAM1_CHICK (P14731)
			>LAM1_HUMAN (P20700)
			>LAM1_MOUSE (P14733)
118	E22	SKNESPIRFD	>MPP9_HUMAN (Q99550)
119	E23	DRPRASGCLAR	>B1AR_HUMAN (P08588)
			>B1AR_MACMU (P47899)
			>B1AR_MOUSE (P34971)
			>B1AR_RAT (P18090)
120	E24	VSNTNSPTKIL	>TDP2_HUMAN (Q14188)
121	F1	ATPQVDSMRK	>GLYG_HUMAN (P46976)

122	F2	TSTSLsPFYLR	>CRAB_HUMAN (P02511)
			>CRAB_RABIT (P41316)
			>HSBY_HUMAN (O43416)
123	F3	LMRRNsVTPLA	>F263_HUMAN (Q16875)
			>F263_RAT (O35552)
124	F4	MYRRSyVFQTR	>FILS_BOVIN (Q06002)
			>FILS_HUMAN (Q12934)
125	F5	RERRPsYLPTP	>CIK6_HUMAN (P17658)
126	F6	SYPIGEDEESE	>VMT2_HUMAN (Q05940)
127	F7	SQsPQYSFESL	>PRGR_HUMAN (P06401)
			>PRGR_RABIT (P06186)
			>PRGR_SHEEP (Q28590)
128	F8	VQRKVSGSRGS	>CIK5_HUMAN (P22460)
129	F9	PSRGKsSSYSK	>FIBA_HUMAN (P02671)
130	F10	SRGKSsSYSKQ	>FIBA_HUMAN (P02671)
131	F11	PGLRRsPIKKV	>MYBB_HUMAN (P10244)
			>MYBB_MOUSE (P48972)
132	F12	SYSKQFTSsTS	>FIBA_HUMAN (P02671)
133	F13	SKRRNsEFEIF	>TR5H_HUMAN (P17752)
			>TR5H_RABIT (P17290)
			>TR5H_RAT (P09810)
			>TR5H_CHICK (P70080)
			>TR5H_XENLA (Q92142)
134	F14	FLRAPsWFDTG	>CRAB_HUMAN (P02511)
			>HSBY_HUMAN (O43416)
135	F15	GRIHGsplQKL	>MP10_HUMAN (O00566)
136	F16	PARNDsVIVAD	>ATF2_HUMAN (P15336)
			>ATF2_MOUSE (P16951)
			>ATF2_RAT (Q00969)
			>ATF2_CHICK (O93602)
137	F17	ILKPPsPISEA	>SCG1_HUMAN (Q93045)
			>SCG1_MOUSE (P55821)
138	F18	EERRKsHEAEV	>STHM_HUMAN (P16949)
			>STHM_MOUSE (P54227)
			>STHM_RAT (P13668)

			>STHM_CHICK (P31395)
139	F19	GYGSRsLYNLG	>K2C5_HUMAN (P13647)
140	F20	YPRPAsVPPSP	>GYS1_HUMAN (P13807)
			>GYS1_RABIT (P13834)
			>GYS3_MOUSE (P54859)
141	F21	ASVPPsPSLSR	>GYS1_HUMAN (P13807)
			>GYS1_RABIT (P13834)
			>GYS3_MOUSE (P54859)
142	F22	PASVPPsPSLs	>GYS1_HUMAN (P13807)
			>GYS1_RABIT (P13834)
			>GYS3_MOUSE (P54859)
143	F23	SRHSsPHQSED	>GYS1_HUMAN (P13807)
			>GYS1_MOUSE (Q9Z1E4)
			>GYS1_RABIT (P13834)
			>GYS3_MOUSE (P54859)
144	F24	SRHSsPHQSED	>GYS1_HUMAN (P13807)
			>GYS1_MOUSE (Q9Z1E4)
			>GYS1_RABIT (P13834)
			>GYS3_MOUSE (P54859)
145	G1	SRHSSPHQsED	>GYS1_HUMAN (P13807)
			>GYS1_MOUSE (Q9Z1E4)
			>GYS1_RABIT (P13834)
			>GYS3_MOUSE (P54859)
146	G2	LSYAPsPLQKP	>MPP5_HUMAN (Q99546)
147	G3	LSRHSSPHQSE	>GYS1_HUMAN (P13807)
			>GYS1_MOUSE (Q9Z1E4)
			>GYS1_RABIT (P13834)
			>GYS3_MOUSE (P54859)
148	G4	GSQASsPQSSD	>GYS2_HUMAN (P54840)
			>GYS2_HUMAN (P54840)
149	G5	IGRRQsLIEDA	>TY3H_HUMAN (P07101)
			>TY3H_MOUSE (P24529)
			>TY3H_PHASP (P11982)
			>TY3H_RAT (P04177)
150	G6	GSKRNsVDTAT	>GYS1_HUMAN (P13807)
			>GYS1_HUMAN (P13807)
151	G7	DLLPMsPSVYA	>STA4_HUMAN (Q14765)

152	G8	NLLPMsPEEFD	>STA1_HUMAN (P42224)
			>STA1_MOUSE (P42225)
153	G9	PDGNKsPAPKP	>CALD_HUMAN (Q05682)
			>CALD_HUMAN (Q05682)
			>CALD_RAT (Q62736)
154	G10	AGALYsGSEGD	>SRF_HUMAN (P11831)
155	G11	RKTTAsTRKVS	>CFTR_HUMAN (P13569)
156	G12	QRMKESsFYSL	>PRGR_HUMAN (P06401)
			>PRGR_RABIT (P06186)
			>PRGR_SHEEP (Q28590)
			>PRGR_CHICK (P07812)
157	G13	RGRSLsVTSLG	>GYS2_HUMAN (P54840)
			>GYS2_RAT (P17625)
158	G14	IRSSWsGLHLV	>COA1_HUMAN (Q13085)
159	G15	LSRQLsSGVSE	>HS27_CANFA (P42929)
			>HS27_HUMAN (P04792)
160	G16	GSEGDsESGEE	>SRF_HUMAN (P11831)
161	G17	GTFRSsIRRL	>PLM_CANFA (P56513)
			>PLM_HUMAN (O00168)
			>PLM_RAT (O08589)
162	G18	EGDSEsGEEEE	>SRF_HUMAN (P11831)
163	G19	EPEKMESsISS	>CAS1_HUMAN (P47710)
164	G20	KEKIKQSsSSE	>CIN6_HUMAN (Q01118)
165	G21	VEGAGsIAAAT	>SYUA_HUMAN (P37840)
			>SYUA_HUMAN (P37840)
166	G22	MESSIsSSSEE	>CAS1_HUMAN (P47710)
167	G23	TSTLAsSFKRR	>NMZ1_HUMAN (Q05586)
			>NMZ1_HUMAN (Q05586)
			>NMZ1_MOUSE (P35438)
			>NMZ1_MOUSE (P35438)
			>NMZ1_RAT (P35439)
			>NMZ1_RAT (P35439)
168	G24	ESSIsSSEEM	>CAS1_HUMAN (P47710)
169	H1	SFKRRRSsKDT	>NMZ1_HUMAN (Q05586)

			>NMZ1_HUMAN (Q05586)
			>NMZ1_MOUSE (P35438)
			>NMZ1_MOUSE (P35438)
			>NMZ1_RAT (P35439)
			>NMZ1_RAT (P35439)
170	H2	KRRRSsKDTST	>NMZ1_HUMAN (Q05586)
			>NMZ1_MOUSE (P35438)
			>NMZ1_RAT (P35439)
171	H3	GRPRTTsFAES	>KG3B_HUMAN (P49841)
			>KG3B_MOUSE (Q9WV60)
			>KG3B_RAT (P18266)
172	H4	FGVERsVRPTD	>KPBI_HUMAN (P46020)
			>KPBI_MOUSE (P18826)
			>KPBI_RAT (Q64649)
			>KPBI_RABBIT (P18688)
173	H5	ETPAIsPSKRA	>DUT_HUMAN (P33316)
174	H6	AIAADsEAEQD	>IRS1_HUMAN (P35568)
			>IRS1_MOUSE (P35569)
			>IRS1_RAT (P35570)
175	H7	RRKKKtPRKAE	>MPP8_HUMAN (Q99549)
176	H8	TYVGtPYVPP	>NEK3_HUMAN (P51956)
			>NEK3_MOUSE (Q9R0A5)
177	H9	PRRKDtPALHM	>GSUB_HUMAN (O96001)
178	H10	KPVSVtPQGND	>MPP9_HUMAN (Q99550)
179	H11	KIGEGtYGTVF	>CDK5_BOVIN (Q02399)
			>CDK5_HUMAN (Q00535)
			>CDK5_MOUSE (P49615)
			>CDK5_RAT (Q03114)
			>CDK5_XENLA (P51166)
			>CDK5_DROME (P48609)
180	H12	RTRES tAKKIK	>RGS1_HUMAN (Q08116)
			>RGS1_HUMAN (Q08116)
181	H13	ITSQVtGQIGW	>A2M1_HUMAN (P20172)
			>AP50_CAEEL (P35603)
182	H14	PVSAQtPKGRR	>MPP8_HUMAN (Q99549)
183	H15	PVRTYtHEVVT	>CDK2_CRIGR (O55076)
			>CDK2_HUMAN (P24941)

			>CDK2_MESAU (P48963)
			>CDK2_MOUSE (P97377)
			>CDK2_RAT (Q63699)
			>CDK2_CARAU (P43450)
184	H16	PIRVYtHEVVT	>CC2_CAEEL (P34556)
			>CC2_BOVIN (P48734)
			>CC2_HUMAN (P06493)
			>CC2_MOUSE (P11440)
			>CC2_RAT (P39951)
185	H17	EGEESTVRFAR	>KPC1_HUMAN (P05771)
			>KPC1_RABIT (P05772)
			>KPC1_RAT (P04410)
			>KPC2_BOVIN (P05126)
			>KPC2_HUMAN (P05127)
			>KPC2_RABIT (P05773)
			>KPC2_MOUSE (P04411)
186	H18	ADAEMtGYVVT	>MK13_HUMAN (O15264)
			>MK13_PANTR (Q9N272)
187	H19	TDDEMtGYVAT	>MK14_CANFA (O02812)
			>MK14_HUMAN (Q16539)
			>MK14_MOUSE (P47811)
			>MK14_RAT (P70618)
			>MK14_CYPCA (Q90336)
188	H20	TPYVVtRYYRA	>MK08_HUMAN (P45983)
			>MK08_RAT (P49185)
			>MK09_HUMAN (P45984)
			>MK09_MOUSE (Q9WTU6)
			>MK09_RAT (P49186)
			>MK10_HUMAN (P53779)
			>MK10_MOUSE (Q61831)
			>MK10_RAT (P49187)
189	H21	ADEEMtGYVAT	>MK11_HUMAN (Q15759)
			>MK11_MOUSE (Q9WUI1)
190	H22	AQASStPLSPT	>LAMA_HUMAN (P02545)
			>LAMA_MOUSE (P48678)
			>LAMC_MOUSE (P11516)
			>LAMA_RAT (P48679)
191	H23	DLFKLtPEEKN	>MPP8_HUMAN (Q99549)
192	H24	QEYVQtVKSSK	>ANX1_HUMAN (P04083)
193	I1	EMPGEtPPLSP	>AP1_HUMAN (P05412)
			>AP1_MOUSE (P05627)

			>AP1_PIG (P56432)
			>AP1_RAT (P17325)
			>AP1_CHICK (P18870)
			>AP1_COTJA (P12981)
			>AP1_SERCA (P54864)
194	I2	NGSPRtPRRGQ	>RB_HUMAN (P06400)
			>RB_MOUSE (P13405)
			>RB_RAT (P33568)
195	I3	NEDPAtPRVSP	>TLE3_HUMAN (Q04726)
			>TLE3_MOUSE (Q08122)
			>TLE1_BRARE (O13168)
196	I4	QRRQRKSRrtI	>IL2A_HUMAN (P01589)
197	I5	PRDPVtENCVQ	>ACM2_HUMAN (P08172)
198	I6	LPDHKKtLEHL	>IL7R_HUMAN (P16871)
199	I7	KEGPGtPTRSS	>Z145_HUMAN (Q05516)
200	I8	KKIYEEKKKKt	>VGLN_HUMAN (Q00341)
			>VGLN_CHICK (P81021)
201	I9	KISQGtKVPEE	>KPC1_HUMAN (P05771)
			>KPC2_HUMAN (P05127)
202	I10	EKTTNtVSKFD	>KPC1_HUMAN (P05771)
			>KPC2_HUMAN (P05127)
203	I11	TKVPQtPLHTS	>MKK2_CRILO (P49136)
			>MKK2_HUMAN (P49137)
			>MKK2_MOUSE (P49138)
			>MKK2_RABIT (P49139)
204	I12	PRHRDtGILDS	>MBP_BOVIN (P02687)
			>MBP_CAVPO (P25188)
			>MBP_HUMAN (P02686)
			>MBP_MOUSE (P04370)
			>MBP_PANTR (P06906)
			>MBP_RAT (P02688)
205	I13	RRRRPtPATLV	>IPP1_HUMAN (Q13522)
			>IPP1_RABIT (P01099)
			>IPP1_RAT (P19103)
206	I14	VIPPhtPVRTV	>RB_HUMAN (P06400)
207	I15	QSPIStPTSPG	>DCX_HUMAN (O43602)
			>DCX_MOUSE (O88809)

			>DCX_MOUSE (O88809)
208	I16	DQEGDtDAGLK	>TAU_HUMAN (P10636)
			>TAU_MACMU (P57786)
			>TAU_PAPHA (Q9MYX8)
209	I17	NGGIMtPPKST	>CGE2_HUMAN (O96020)
			>CGE2_MOUSE (Q9Z238)
210	I18	PSGLLtPPQSG	>CGE1_HUMAN (P24864)
211	I19	VAAVntHRDRP	>F264_HUMAN (Q16877)
			>F264_RAT (P25114)
212	I20	LTPKStPVKTL	>MYBB_HUMAN (P10244)
			>MYBB_MOUSE (P48972)
213	I21	NATFKKtFKHL	>ACM2_HUMAN (P08172)
			>ACM2_MOUSE (Q9ERZ4)
			>ACM2_PIG (P06199)
			>ACM2_RAT (P10980)
			>ACM2_CHICK (P30372)
			>ACM4_CHICK (P17200)
			>ACM4_CHICK (P17200)
			>ACM4_XENLA (P30544)
			>ACM4_XENLA (P30544)
214	I22	NAtFKKtFKHL	>ACM2_HUMAN (P08172)
			>ACM2_MOUSE (Q9ERZ4)
			>ACM2_PIG (P06199)
			>ACM2_RAT (P10980)
			>ACM2_CHICK (P30372)
			>ACM4_CHICK (P17200)
			>ACM4_CHICK (P17200)
			>ACM4_XENLA (P30544)
			>ACM4_XENLA (P30544)
215	I23	ATFKKtFRHLL	>ACM4_HUMAN (P08173)
			>ACM4_MOUSE (P32211)
			>ACM4_RAT (P08485)
216	I24	RTFRKtFKMLL	>ACM5_HUMAN (P08912)
			>ACM5_MACMU (P56490)
217	J1	ALGKRtAKYRW	>NPT2_HUMAN (Q06495)
			>NPT2_MOUSE (Q60825)
			>NPT2_RABIT (Q28620)
			>NPT2_RAT (Q06496)
			>NPT2_SHEEP (O97704)
218	J2	AGGPLtPRRVS	>ERF_HUMAN (P50548)

			>ERF_HUMAN (P50548)
219	J3	ADQTPtPTRFL	>ATF2_HUMAN (P15336)
			>ATF2_MOUSE (P16951)
			>ATF2_RAT (Q00969)
			>ATF2_CHICK (O93602)
			>ATF7_HUMAN (P17544)
220	J4	ARAGEtRFTDT	>EF2_CHICK (Q90705)
			>EF2_CRIGR (P09445)
			>EF2_HUMAN (P13639)
			>EF2_MESAU (P05086)
			>EF2_RAT (P05197)
221	J5	QKKRVtMILQS	>ADDB_HUMAN (P35612)
			>ADDB_MOUSE (Q9QYB8)
			>ADDB_RAT (Q05764)
222	J6	GETRFtDTRKD	>EF2_CAEEL (P29691)
			>EF2_CHICK (Q90705)
			>EF2_CRIGR (P09445)
			>EF2_DROME (P13060)
			>EF2_HUMAN (P13639)
			>EF2_MESAU (P05086)
			>EF2_RAT (P05197)
223	J7	FDKEFtRQPVE	>KPC1_HUMAN (P05771)
			>KPC1_HUMAN (P05771)
			>KPC1_RABIT (P05772)
			>KPC1_RABIT (P05772)
			>KPC1_RAT (P04410)
			>KPC1_RAT (P04410)
224	J8	HPPVLtPPDQE	>KPC2_BOVIN (P05126)
			>KPC2_BOVIN (P05126)
			>KPC2_HUMAN (P05127)
			>KPC2_HUMAN (P05127)
			>KPC2_RABIT (P05773)
			>KPC2_RABIT (P05773)
			>KPC2_MOUSE (P04411)
			>KPC2_MOUSE (P04411)
225	J9	AAPALtPPDRL	>KPCG_BOVIN (P05128)
			>KPCG_BOVIN (P05128)
			>KPCG_HUMAN (P05129)
			>KPCG_HUMAN (P05129)
			>KPCG_MOUSE (P05697)
			>KPCG_MOUSE (P05697)
226	J10	KIRKYtMRLL	>ERB2_HUMAN (P04626)
			>ERB2_MESAU (Q60553)

			>ERB2_RAT (P06494)
227	J11	LVEPLtPSGEA	>KERB_ALV (P00534)
			>KERB_AVIER (P00535)
			>KERB_AVIEU (P11273)
			>EGFR_HUMAN (P00533)
			>EGFR_MOUSE (Q01279)
228	J12	EEPVLtLVDE	>KPCE_HUMAN (Q02156)
			>KPCE_HUMAN (Q02156)
			>KPCE_RABIT (P10830)
			>KPCE_RABIT (P10830)
229	J13	IDEPStPYHSM	>IPP2_HUMAN (P41236)
			>IPP2_RABIT (P11845)
230	J14	PTAAGtPNKET	>CALD_HUMAN (Q05682)
231	J15	HVTRRtLSMDK	>K6PL_HUMAN (P17858)
232	J16	PQDKEyYKVKE	>JAK2_HUMAN (O60674)
			>JAK2_MOUSE (Q62120)
			>JAK2_RAT (Q62689)
233	J17	RGEEVyVKKTM	>TIE1_BOVIN (Q06805)
			>TIE1_HUMAN (P35590)
			>TIE1_MOUSE (Q06806)
234	J18	VKRRDyLDLAA	>RET_HUMAN (P07949)
235	J19	VDADEyLIPQQ	>EGFR_HUMAN (P00533)
			>EGFR_MOUSE (Q01279)
236	J20	EGDNDyIIPLP	>PGDR_HUMAN (P09619)
237	J21	ETDKEyYTVKD	>JAK1_HUMAN (P23458)
			>JAK1_MOUSE (P52332)
238	J22	SPQPEyVNQPD	>ERB2_HUMAN (P04626)
239	J23	KPKQEyLNPVE	>ERB4_HUMAN (Q15303)
			>ERB4_RAT (Q62956)
240	J24	ENGLNyIDLDL	>IRS1_HUMAN (P35568)
241	K1	EEEHVySFPNK	>PAXI_CHICK (P49024)
			>PAXI_HUMAN (P49023)
242	K2	MTRDIyETDYY	>IG1R_BOVIN (Q05688)
			>IG1R_HUMAN (P08069)
			>IG1R_MOUSE (Q60751)

			>IG1R_RAT (P24062)
			>INSR_HUMAN (P06213)
			>INSR_MOUSE (P15208)
			>INSR_RAT (P15127)
			>MIPR_LYMST (Q25410)
			>ILPR_BRALA (O02466)
			>INSR_DROME (P09208)
			>INSR_AEDAE (Q93105)
243	K3	LDNPEyHNASN	>ERB4_HUMAN (Q15303)
244	K4	AENAEyLRVAP	>EGFR_HUMAN (P00533)
			>EGFR_MOUSE (Q01279)
245	K5	FDNLyWDQDP	>ERB2_HUMAN (P04626)
			>ERB2_MESAU (Q60553)
246	K6	MYDKEyYSVHN	>MET_HUMAN (P08581)
			>MET_MOUSE (P16056)
			>MET_RAT (P97523)
247	K7	AENPEyLGLDV	>ERB2_HUMAN (P04626)
			>ERB2_MESAU (Q60553)
			>ERB2_RAT (P06494)
248	K8	FESRyQQPFED	>PIG1_HUMAN (P19174)
			>PIG1_HUMAN (P19174)
249	K9	LQHDPyLQEYS	>ERB4_HUMAN (Q15303)
250	K10	AENPEyLSEFS	>ERB4_HUMAN (Q15303)
251	K11	EDKAKyDAIFD	>EP15_HUMAN (P42566)
			>EP15_MOUSE (P42567)
252	K12	GFKRSyEEHIP	>INSR_HUMAN (P06213)
			>INSR_HUMAN (P06213)
253	K13	LLGDHyVQLPA	>RON_HUMAN (Q04912)
			>RON_HUMAN (Q04912)
254	K14	SSGADyPDELQ	>TRY1_HUMAN (P07477)
			>TRY2_HUMAN (P07478)
255	K15	CTNFMMPyVV	>MK09_HUMAN (P45984)
			>MK09_MOUSE (Q9WTU6)
			>MK09_RAT (P49186)
256	K16	ELVNNyGKGWS	>RAPS_HUMAN (Q13702)
257	K17	NEEQEyVQTVK	>ANX1_HUMAN (P04083)

258	K18	LEQEEyEDPDI	>B3AT_HUMAN (P02730)
259	K19	IYKNDyYRKRG	>KROS_AVISU (P00529)
			>KROS_HUMAN (P08922)
			>KROS_CHICK (P08941)
260	K20	PEPGPyAQPSV	>CRK_HUMAN (P46108)
			>CRK_MOUSE (Q64010)
			>CRK_RAT (Q63768)
			>CRK_XENLA (P87378)
261	K21	TDEGIyDVPLL	>EFS_HUMAN (O43281)
262	K22	HVTRRTPDyFL	>P2AA_HUMAN (P05323)
			>P2AA_MOUSE (P13353)
			>P2AA_CHICK (P48463)
			>P2AB_HUMAN (P11082)
			>P2AB_PIG (P11493)
			>P2AB_RABIT (P11611)
			>P2A_DROME (P23696)
			>P2A1_SCHPO (P23635)
263	K23	SEETPySYPTG	>PAXI_HUMAN (P49023)
264	K24	EEEEyMPMED	>TAMI_POVM3 (P03076)
			>TAMI_POVMA (P03077)
			>TAMI_POVMC (P12906)
265	L1	GGKGSySQAA	>1B02_HUMAN (P01889)
			>1B02_HUMAN (P01889)
			>1B04_HUMAN (P30460)
			>1B04_HUMAN (P30460)
			>1B05_HUMAN (P30461)
			>1B05_HUMAN (P30461)
			>1B07_HUMAN (P30462)
			>1B07_HUMAN (P30462)
			>1B08_HUMAN (P30463)
			>1B08_HUMAN (P30463)
			>1B10_HUMAN (P30464)
			>1B10_HUMAN (P30464)
			>1B11_HUMAN (P30465)
			>1B11_HUMAN (P30465)
			>1B12_HUMAN (P30513)
			>1B12_HUMAN (P30513)
			>1B13_HUMAN (P30466)
			>1B13_HUMAN (P30466)
			>1B14_HUMAN (P03989)
			>1B14_HUMAN (P03989)
			>1B15_HUMAN (P10317)
			>1B15_HUMAN (P10317)

			>1B16_HUMAN (P19373)
			>1B16_HUMAN (P19373)
			>1B18_HUMAN (P10318)
			>1B18_HUMAN (P10318)
			>1B19_HUMAN (Q08136)
			>1B19_HUMAN (Q08136)
			>1B20_HUMAN (P30467)
			>1B21_HUMAN (P30685)
			>1B21_HUMAN (P30685)
			>1B22_HUMAN (P30468)
			>1B22_HUMAN (P30468)
			>1B23_HUMAN (P30469)
			>1B23_HUMAN (P30469)
			>1B24_HUMAN (P30470)
			>1B25_HUMAN (P30471)
			>1B25_HUMAN (P30471)
			>1B26_HUMAN (P30472)
			>1B26_HUMAN (P30472)
			>1B27_HUMAN (P30473)
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			>1B28_HUMAN (P30474)
			>1B28_HUMAN (P30474)
			>1B29_HUMAN (P18463)
			>1B29_HUMAN (P18463)
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			>1B31_HUMAN (P30475)
			>1B32_HUMAN (P30476)
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			>1B34_HUMAN (Q04826)
			>1B34_HUMAN (Q04826)
			>1B35_HUMAN (P30477)
			>1B35_HUMAN (P30477)
			>1B36_HUMAN (P30478)
			>1B36_HUMAN (P30478)
			>1B38_HUMAN (P30479)
			>1B38_HUMAN (P30479)
			>1B39_HUMAN (P30480)
			>1B39_HUMAN (P30480)
			>1B40_HUMAN (P10320)
			>1B41_HUMAN (P30481)
			>1B41_HUMAN (P30481)
			>1B42_HUMAN (P30482)
			>1B42_HUMAN (P30482)
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			>1B55_HUMAN (P30492)
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			>1B62_HUMAN (P10319)
			>1B62_HUMAN (P10319)
			>1B63_HUMAN (P30498)
			>1B63_HUMAN (P30498)
			>1B01_GORGO (P30379)
			>1B01_GORGO (P30379)
			>1B02_GORGO (P30380)
			>1B02_GORGO (P30380)
			>1B03_GORGO (P30381)
			>1B03_GORGO (P30381)
			>1B04_GORGO (P30382)
			>1B04_GORGO (P30382)
			>1A02_PANTR (P16210)
			>1A02_PANTR (P16210)
			>1B01_PANTR (P13750)
			>1B02_PANTR (P13751)
			>1B02_PANTR (P13751)
266	L2	RKGGsYsQAAS	>1A02_HUMAN (P01892)
			>1A02_HUMAN (P01892)
			>1A23_HUMAN (P30447)
			>1A23_HUMAN (P30447)
			>1A24_HUMAN (P05534)
			>1A24_HUMAN (P05534)
			>1A25_HUMAN (P18462)

			>1A25_HUMAN (P18462)
			>1A26_HUMAN (P30450)
			>1A26_HUMAN (P30450)
			>1A29_HUMAN (P30512)
			>1A29_HUMAN (P30512)
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			>1A31_HUMAN (P16189)
			>1A32_HUMAN (P10314)
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			>1A33_HUMAN (P16190)
			>1A33_HUMAN (P16190)
			>1A34_HUMAN (P30453)
			>1A34_HUMAN (P30453)
			>1A43_HUMAN (P30456)
			>1A43_HUMAN (P30456)
			>1A66_HUMAN (P30457)
			>1A66_HUMAN (P30457)
			>1A68_HUMAN (P01891)
			>1A68_HUMAN (P01891)
			>1A74_HUMAN (P30459)
			>1A74_HUMAN (P30459)
			>1A80_HUMAN (Q09160)
			>1A80_HUMAN (Q09160)
			>1AXX_HUMAN (P10313)
			>HLAH_HUMAN (P01893)
			>HLAH_HUMAN (P01893)
			>1A01_GORGO (P30375)
			>1A01_GORGO (P30375)
			>1A02_GORGO (P30376)
			>1A02_GORGO (P30376)
			>1A03_GORGO (P30377)
			>1A03_GORGO (P30377)
			>1A04_GORGO (P30378)
			>1A04_GORGO (P30378)
			>1OKO_GORGO (P30388)
			>1OKO_GORGO (P30388)
			>1A04_PANTR (P13749)
			>1A04_PANTR (P13749)
			>1A01_PONPY (P16211)
			>1A01_PONPY (P16211)
267	L3	EEEPV <b>y</b> EAEPE	>HS1_HUMAN (P14317)
268	L4	HAQDT <b>y</b> LVLDK	>EPOR_HUMAN (P19235)
			>EPOR_MOUSE (P14753)
269	L5	IIDSE <b>y</b> TAQEG	>BLK_HUMAN (P51451)
			>BLK_MOUSE (P16277)
270	L6	RGTDE <b>y</b> FIRKP	>ACHB_BOVIN (P04758)
			>ACHB_HUMAN (P11230)

			>ACHB_MOUSE (P09690)
			>ACHB_RAT (P25109)
271	L7	SKAE <b>E</b> yFLLKS	>ACHD_HUMAN (Q07001)
272	L8	RVIEDNE <b>y</b> TAR	>HCK_HUMAN (P08631)
			>LYN_HUMAN (P07948)
			>LYN_MOUSE (P25911)
			>LYN_RAT (Q07014)
273	L9	IKDDE <b>y</b> NPCQG	>FGR_HUMAN (P09769)
274	L10	IEDNE <b>y</b> TARQG	>FYN_CHICK (Q05876)
			>FYN_HUMAN (P06241)
			>FYN_MOUSE (P39688)
			>FYN_XENLA (P13406)
			>FYN_XIPHE (P27446)
			>SRC1_XENLA (P13115)
			>SRC2_XENLA (P13116)
			>SRC_AVISR (P00525)
			>SRC_AVIS2 (P15054)
			>SRC_AVIST (P14085)
			>SRC_AVISS (P14084)
			>SRC_CHICK (P00523)
			>SRC_HUMAN (P12931)
			>SRC_MOUSE (P05480)
			>SRC_RAT (Q9WUD9)
			>SRC_RSVP (P00526)
			>SRC_RSVSR (P00524)
			>SRC_RSVH1 (P25020)
			>YES_AVISY (P00527)
			>YES_CANFA (Q28923)
			>YES_CHICK (P09324)
			>YES_HUMAN (P07947)
			>YES_MOUSE (Q04736)
			>YES_XENLA (P10936)
			>YES_XIPHE (P27447)
			>YRK_CHICK (Q02977)
275	L11	MKDDE <b>E</b> YEQMVK	>IKBA_HUMAN (P25963)
			>IKBA_PIG (Q08353)
276	L12	AASF <b>E</b> yTILDP	>EPOR_HUMAN (P19235)
277	L13	ASTGI <b>y</b> EALEL	>ENO_ARATH (P25696)
			>ENO1_HEVBR (Q9LEJ0)
			>ENO2_HEVBR (Q9LEI9)
			>ENO_LYCES (P26300)
			>ENO1_MAIZE (P26301)
			>ENO_RICCO (P42896)
			>ENO_PLAFA (Q27727)

			>ENO_ALLMI (P42897)
			>ENO_XENLA (P08734)
			>ENOA_BOVIN (Q9XSJ4)
			>ENOA_HUMAN (P06733)
			>ENOA_MOUSE (P17182)
			>ENOA_RAT (P04764)
			>ENOA_ANAPL (P19140)
			>ENOA_CHICK (P51913)
			>ENOB_HUMAN (P13929)
			>ENOB_MOUSE (P21550)
			>ENOB_RABIT (P25704)
			>ENOB_RAT (P15429)
			>ENOG_HUMAN (P09104)
			>ENOG_MOUSE (P17183)
			>ENOG_RAT (P07323)
			>ENOG_CHICK (O57391)
278	L14	MTGDTyTAHAG	>ABL1_HUMAN (P00519)
			>ABL1_MOUSE (P00520)
			>ABL2_HUMAN (P42684)
			>ABL_FSVHY (P10447)
			>ABL_MLVAB (P00521)
279	L15	QREAEyEPETV	>SRC8_CHICK (Q01406)
280	L16	SSIDEyFSEQP	>INR1_HUMAN (P17181)
281	L17	EPETVyeVAGA	>SRC8_CHICK (Q01406)
282	L18	NVVPVyDLLLE	>ESR2_BOVIN (Q9XSB5)
			>ESR2_CALJA (Q95171)
			>ESR2_HUMAN (Q92731)
			>ESR2_MACMU (Q9TTE5)
			>ESR2_MOUSE (O08537)
			>ESR2_RAT (Q62986)
			>ESR2_SHEEP (Q9TU15)
			>ESR2_CHICK (Q9PTU5)
			>ESR2_COTJA (O93511)
			>ESR2_STUVU (Q9PVE2)
			>ESR2_STUVU (Q9PVE2)
283	L19	IENPQyFSDA	>TRKA_HUMAN (P04629)
284	L20	AEENTyDEYEN	>SRC8_CHICK (Q01406)
285	L21	TATEGQyQPQP	>LCK_HUMAN (P06239)
			>LCK_MOUSE (P06240)
286	L22	TATEGQyQQQP	>LCK_CHICK (P42683)
			>LYN_HUMAN (P07948)
			>LYN_MOUSE (P25911)

			>LYN_RAT (Q07014)
287	L23	VLDDQyTSSTG	>ITK_HUMAN (Q08881)
			>ITK_MOUSE (Q03526)
288	L24	LSNPAYRLLLA	>DDR1_HUMAN (Q08345)
			>DDR1_MOUSE (Q03146)
			>DDR1_RAT (Q63474)
289	M1	IENPQYFGITN	>TRKB_HUMAN (Q16620)
			>TRKB_MOUSE (P15209)
			>TRKB_RAT (Q63604)
			>TRKB_CHICK (Q91987)
290	M2	FLDDQyTSSSG	>TEC_HUMAN (P42680)
291	M3	RADENyYKAQT	>KSYK_HUMAN (P43405)
			>KSYK_MOUSE (P48025)
			>KSYK_PIG (Q00655)
			>KSYK_RAT (Q64725)
292	M4	EDyFTSTEPQY	>FGR_MOUSE (P14234)
			>SRC_CHICK (P00523)
			>SRC_HUMAN (P12931)
			>SRC_MOUSE (P05480)
293	M5	STEPQyQPGEN	>SRC_CHICK (P00523)
			>SRC_HUMAN (P12931)
			>SRC_MOUSE (P05480)
294	M6	ATEPQyQPGEN	>FYN_HUMAN (P06241)
			>FYN_MOUSE (P39688)
			>YES_HUMAN (P07947)
			>YES_MOUSE (Q04736)
			>YES_MOUSE (Q04736)
295	M7	EDyFTATEPQY	>FYN_CHICK (Q05876)
			>FYN_HUMAN (P06241)
			>FYN_MOUSE (P39688)
			>FYN_XENLA (P13406)
			>FYN_XIPHE (P27446)
			>SRC1_XENLA (P13115)
			>SRC2_XENLA (P13116)
			>YES_CHICK (P09324)
			>YES_CHICK (P09324)
			>YES_HUMAN (P07947)
			>YES_HUMAN (P07947)
			>YES_MOUSE (Q04736)
			>YES_MOUSE (Q04736)
			>YES_XENLA (P10936)
			>YES_XIPHE (P27447)

			>YES_XIPHE (P27447)
			>YRK_CHICK (Q02977)
296	M8	VMMGPyRQDLL	>VINC_HUMAN (P18206)
			>VINC_MOUSE (Q64727)
			>VINC_CHICK (P12003)
297	M9	RKGHEyTNIKY	>PTNB_HUMAN (Q06124)
			>PTNB_MOUSE (P35235)
			>PTNB_RAT (P41499)
298	M10	VLDDEyTSSVG	>BTK_HUMAN (Q06187)
			>BTK_MOUSE (P35991)
299	M11	INGNNyVYIDP	>KKIT_BOVIN (P43481)
			>KKIT_CANFA (O97799)
			>KKIT_CAPHI (Q28317)
			>KKIT_FELCA (Q28889)
			>KKIT_HUMAN (P10721)
			>KKIT_MOUSE (P05532)
			>KKIT_CHICK (Q08156)
300	M12	MEDSTyYKASK	>FAK1_CHICK (Q00944)
			>FAK1_HUMAN (Q05397)
			>FAK1_MOUSE (P34152)
			>FAK1_RAT (O35346)
			>FAK1_XENLA (Q91738)
301	M13	IEDEDEyYKASV	>FAK2_HUMAN (Q14289)
			>FAK2_RAT (P70600)
302	M14	DSARVyENVGL	>PTNB_HUMAN (Q06124)
			>PTNB_RAT (P41499)
303	M15	VDPFTyEDPNQ	>EPA4_HUMAN (P54764)
			>EPA4_MOUSE (Q03137)
			>EPA4_CHICK (Q07496)
			>EP4A_XENLA (Q91845)
			>EP4B_XENLA (Q91694)
304	M16	NTEDQySLVED	>P85A_BOVIN (P23727)
			>P85A_HUMAN (P27986)
			>P85A_MOUSE (P26450)
305	M17	HTDDGyMPMSP	>IRS1_HUMAN (P35568)
			>IRS1_MOUSE (P35569)
			>IRS1_RAT (P35570)
306	M18	IDPETyEDPNR	>EPA7_HUMAN (Q15375)
			>EPA7_MOUSE (Q61772)
			>EPA7_RAT (P54759)

			>EPA7_CHICK (O42422)
307	M19	DGENI <b>y</b> IRHSN	>41_HUMAN (P11171)
			>41_MOUSE (P48193)
308	M20	KGSGD <b>y</b> MPMSP	>IRS1_HUMAN (P35568)
309	M21	KDGRG <b>y</b> VPATI	>STA6_HUMAN (P42226)
310	M22	GADDG <b>y</b> MPMTP	>IRS2_HUMAN (Q9Y4H2)
			>IRS2_MOUSE (P81122)
311	M23	NNIDY <b>y</b> KKTTN	>FGR2_HUMAN (P21802)
			>FGR2_MOUSE (P21803)
			>BFR2_HUMAN (Q01742)
			>CEK3_CHICK (P18461)
312	M24	RSDD <b>y</b> MPMSPA	>IRS2_HUMAN (Q9Y4H2)
313	N1	IYRAS <b>y</b> YRRGD	>KLTk_HUMAN (P29376)
314	N2	MSRDI <b>y</b> STDYY	>TRKA_HUMAN (P04629)
			>TRKA_RAT (P35739)
			>TRKA_CHICK (Q91009)
315	N3	RGDKG <b>y</b> VPSVF	>STA4_HUMAN (Q14765)
			>STA4_MOUSE (P42228)
316	N4	KAVDG <b>y</b> VKPQI	>ST5A_BOVIN (Q95115)
			>ST5A_HUMAN (P42229)
			>ST5A_MOUSE (P42230)
			>ST5A_PIG (Q9TUZ1)
			>ST5A_RAT (Q62771)
			>ST5A_SHEEP (P42231)
			>ST5B_BOVIN (Q9TUM3)
			>ST5B_HUMAN (P51692)
			>ST5B_PIG (Q9TUZ0)
317	N5	YNGDY <b>y</b> RQGRI	>UFO_HUMAN (P30530)
			>UFO_MOUSE (Q00993)
318	N6	GSAAP <b>y</b> LKTKF	>STA3_HUMAN (P40763)
			>STA3_MOUSE (P42227)
			>STA3_RAT (P52631)
319	N7	YSTDY <b>y</b> RLFNP	>TRKC_HUMAN (Q16288)
320	N8	VYSTD <b>y</b> YRVGG	>TRKB_HUMAN (Q16620)
			>TRKB_MOUSE (P15209)
			>TRKB_RAT (Q63604)
			>TRKB_CHICK (Q91987)

			>TRKC_PIG (P24786)
			>TRKC_CHICK (Q91044)
321	N9	MSRDV <b>y</b> STDYY	>TRKB_HUMAN (Q16620)
			>TRKB_MOUSE (P15209)
			>TRKB_RAT (Q63604)
			>TRKB_CHICK (Q91987)
			>TRKC_HUMAN (Q16288)
			>TRKC_PIG (P24786)
			>TRKC_RAT (Q03351)
			>TRKC_CHICK (Q91044)
322	N10	YSTDY <b>y</b> RVGGH	>TRKB_HUMAN (Q16620)
			>TRKB_MOUSE (P15209)
			>TRKB_RAT (Q63604)
			>TRKB_CHICK (Q91987)
			>TRKC_PIG (P24786)
			>TRKC_CHICK (Q91044)
323	N11	HLEKK <b>y</b> VRRDS	>KFMS_FELCA (P13369)
			>KFMS_HUMAN (P07333)
			>KFMS_MOUSE (P09581)
			>KFMS_RAT (Q00495)
			>KFMS_FSVMD (P00545)
324	N12	PSAEL <b>y</b> SNALP	>PGDR_HUMAN (P09619)
			>PGDR_MOUSE (P05622)
325	N13	DSTNE <b>y</b> MDMKP	>KKIT_BOVIN (P43481)
			>KKIT_CANFA (Q97799)
			>KKIT_CAPHI (Q28317)
			>KKIT_FELCA (Q28889)
			>KKIT_HUMAN (P10721)
			>KKIT_FSVHZ (P04048)
326	N14	LYSGD <b>y</b> YRIQG	>DDR2_HUMAN (Q16832)
			>DDR2_MOUSE (Q62371)
327	N15	TSTDE <b>y</b> LDLSA	>FGR3_HUMAN (P22607)
			>FGR3_HUMAN (P22607)
328	N16	TSNQE <b>y</b> LDLSM	>FGR1_HUMAN (P11362)
			>FGR1_RAT (Q04589)
329	N17	TTNEE <b>y</b> LDLSQ	>FGR2_HUMAN (P21802)
			>FGR2_HUMAN (P21802)
330	N18	IESSN <b>y</b> MAPYD	>PGDR_HUMAN (P09619)
331	N19	TAEPD <b>y</b> GALYE	>PIG1_BOVIN (P08487)
			>PIG1_HUMAN (P19174)

			>PIG1_RAT (P10686)
332	N20	ANNPLyKEATS	>ITB3_HUMAN (P05106)
			>ITB3_HUMAN (P05106)
			>ITB3_MOUSE (O54890)
			>ITB3_MOUSE (O54890)
333	N21	NEDDGyDVPKP	>CBL_HUMAN (P22681)
			>CBL_MOUSE (P22682)
334	N22	APYDNyVPSAP	>PGDR_HUMAN (P09619)
			>PGDR_MOUSE (P05622)
335	N23	DSNPLyKSAIT	>ITB7_HUMAN (P26010)
336	N24	DFDGTyETQGG	>EPA1_HUMAN (P21709)
			>EPA1_MOUSE (Q60750)
337	O1	RNPGFyVEANP	>PIG1_BOVIN (P08487)
			>PIG1_HUMAN (P19174)
			>PIG1_RAT (P10686)
338	O2	DPEAVyTTTGG	>EPA7_HUMAN (Q15375)
			>EPA7_MOUSE (Q61772)
			>EPA7_RAT (P54759)
			>EPA7_CHICK (O42422)
339	O3	QAPPVyLDVLG	>TRKA_HUMAN (P04629)
340	O4	YAGDYyRVQGR	>DDR1_HUMAN (Q08345)
			>DDR1_MOUSE (Q03146)
			>DDR1_RAT (Q63474)
341	O5	ELQDDyEDMME	>B3AT_HUMAN (P02730)
342	O6	KASPVyLDILG	>TRKB_HUMAN (Q16620)
			>TRKB_MOUSE (P15209)
			>TRKB_RAT (Q63604)
			>TRKB_CHICK (Q91987)
343	O7	FLDSGyRILGA	>VINC_HUMAN (P18206)
			>VINC_MOUSE (Q64727)
			>VINC_CHICK (P12003)
344	O8	KVGPgyLGSGG	>RET_HUMAN (P07949)
345	O9	MHDSNyVSKGS	>PGDS_HUMAN (P16234)
			>PGDS_MOUSE (P26618)
			>PGDS_RAT (P20786)
			>PGDS_XENLA (P26619)

346	O10	MRDSN <b>y</b> ISKGS	>PGDR_HUMAN (P09619)
			>PGDR_MOUSE (P05622)
347	O11	EEEEA <b>y</b> GWMDF	>GAST_DIDMA (P33713)
			>GAST_HUMAN (P01350)
			>GAST_MOUSE (P48757)
			>GAST_PIG (P01351)
			>GAST_RAT (P04563)
348	O12	KSPGE <b>y</b> VNIEF	>IRS1_HUMAN (P35568)
			>IRS1_MOUSE (P35569)
			>IRS1_RAT (P35570)
349	O13	IKMGR <b>y</b> EARFA	>EPB4_HUMAN (P54760)
350	O14	IKMDR <b>y</b> KDNFT	>EPA4_HUMAN (P54764)
			>EPA4_MOUSE (Q03137)
351	O15	STNH <b>I</b> ySNLAN	>KKIT_BOVIN (P43481)
			>KKIT_BOVIN (P43481)
			>KKIT_CANFA (O97799)
			>KKIT_CANFA (O97799)
			>KKIT_CAPHI (Q28317)
			>KKIT_CAPHI (Q28317)
			>KKIT_FELCA (Q28889)
			>KKIT_FELCA (Q28889)
			>KKIT_HUMAN (P10721)
			>KKIT_HUMAN (P10721)
352	O16	IKMER <b>y</b> KDNFT	>EPA4_CHICK (Q07496)
			>EP4A_XENLA (Q91845)
			>EPA7_HUMAN (Q15375)
			>EPA7_MOUSE (Q61772)
			>EPA7_RAT (P54759)
			>EPA7_CHICK (O42422)
353	O17	TGTEE <b>y</b> MKMDL	>IRS1_HUMAN (P35568)
354	O18	IKMGR <b>y</b> KESFV	>EPB3_HUMAN (P54753)
			>EPB3_MOUSE (P54754)
355	O19	KDNG <b>G</b> yISAAE	>CALM_DICDI (P02599)
			>CALM_DICDI (P02599)
			>CALM_ELEEL (P02594)
			>CALM_ELEEL (P02594)
			>CALM_HUMAN (P02593)
			>CALM_HUMAN (P02593)
			>CALM_PLECO (P11120)
			>CALM_PLECO (P11120)
			>CALM_STIJA (P21251)
			>CALM_STIJA (P21251)

			>CAL5_CHICK (P02597)	
			>CAL5_CHICK (P02597)	
356	O20	RGQEVyVKKTM	>TIE2_BOVIN (Q06807)	
			>TIE2_HUMAN (Q02763)	
			>TIE2_MOUSE (Q02858)	
357	O21	DRVyIHPFHL	>ANGT_HORSE (P01016)	
			>ANGT_HUMAN (P01019)	
			>ANGT_MOUSE (P11859)	
			>ANGT_RAT (P01015)	
			>ANGT_SHEEP (P20757)	
358	O22	EDTLTyADLD	>SHS1_BOVIN (O46631)	
			>SHS1_HUMAN (P78324)	
			>SHS1_MOUSE (P97797)	
			>SHS1_RAT (P97710)	
359	O23	TNDITyADLN	>SHS1_HUMAN (P78324)	
360	O24	KRSGsIYEPLK	>KPBB_HUMAN (Q93100)	
			>KPBB_RABIT (P12798)	
361	P1	pure Solvent	Endkonz [pmol/μL]	
362	P2	Na2HPO4 x 12H2O	0	phosphate concentration gradient
363	P3	Na2HPO4 x 12H2O	5	
364	P4	Na2HPO4 x 12H2O	10	
365	P5	Na2HPO4 x 12H2O	25	
366	P6	Na2HPO4 x 12H2O	50	
367	P7	Na2HPO4 x 12H2O	75	
368	P8	Na2HPO4 x 12H2O	100	
369	P9	Na2HPO4 x 12H2O	200	
370	P10	Na2HPO4 x 12H2O	300	
371	P11	Na2HPO4 x 12H2O	400	
372	P12	Na2HPO4 x 12H2O	500	