

Group	SPID	Gene	peptides (total 851)	tryptic peptides (theory)	peptides/tryptic peptides	type	peptides	site	10-C	24-C	F-C	site_known	PKA_motif (RXXS/T)	description
1	KAPO_HUMAN	PRKAR1A/B	67	20	1	bdg	43	bdg	0,25	0	-0,61			protein kinase, cAMP-dependent, regulatory, type I, alpha
1	KAPO_HUMAN	PRKAR1A/B				phospho	8	S77+S83	0	0	-0,2	sites_reported (77+83)	PKA_motif	
1	KAPO_HUMAN	PRKAR1A/B				phospho	6	S77	0	0	-0,25	site_reported	PKA_motif	
1	KAPO_HUMAN	PRKAR1A/B				phospho	8	S83	0	0	0	site_reported		
1	KAP1_HUMAN	PRKAR1A/B				phospho	2	S71	-1	0		site_reported	PKA_motif	protein kinase, cAMP-dependent, regulatory, type I, beta
1	KAP2_HUMAN	PRKAR2A	78	26	0,8955	bdg	40	bdg	0,21	0,21	-0,25			protein kinase, cAMP-dependent, regulatory, type II, alpha
1	KAP2_HUMAN	PRKAR2A				phospho	2	S58	0	0	0	site_reported		
1	KAP2_HUMAN	PRKAR2A				phospho	16	S78+S80	0	0,5	0	sites_reported (78+80)		
1	KAP2_HUMAN	PRKAR2A				phospho	5	S78	0	0	-0,33	site_reported		
1	KAP2_HUMAN	PRKAR2A				phospho	2	S80	0	0		site_reported		
1	KAP2_HUMAN	PRKAR2A				phospho	9	S99	0	0,4	0,25	site_reported	PKA_motif	
1	KAP2_HUMAN	PRKAR2A				phospho	3	T104	0	0	1			
1	KAP2_HUMAN	PRKAR2A				phospho	1	S396			0			
1	KAP3_HUMAN	PRKAR2B	29	25	0,3463	bdg	16	bdg	0,5	0,08	-0,75			protein kinase, cAMP-dependent, regulatory, type II, beta
1	KAP3_HUMAN	PRKAR2B				phospho	1	T69			-1	site_reported		
1	KAP3_HUMAN	PRKAR2B				phospho	12	S114	0	0	0,2	site_reported	PKA_motif	
1	KAPCA_HUMAN	PRKACA/B	45	21	0,6397	bdg	29	bdg	0,27	0,2	-0,43			protein kinase, cAMP-dependent, catalytic, alpha
1	KAPCA_HUMAN	PRKACA/B				phospho	4	T198	0	0,5	0	site_reported	PKA_motif	
1	KAPCA_HUMAN	PRKACA/B				phospho	1	T202	1	0				
1	KAPCA_HUMAN	PRKACA/B				phospho	11	S339	0,17	0	-1	site_reported		
2	AKA11_HUMAN	AKAP11	30	99	0,0905	bdg	11	bdg	0,62	0,5	0,67			A kinase (PRKA) anchor protein 11
2	AKA11_HUMAN	AKAP11				phospho	2	S285+S288	0	0	0			
2	AKA11_HUMAN	AKAP11				phospho	3	S288	0	0	0			
2	AKA11_HUMAN	AKAP11				phospho	1	S422+S433	-1	0		sites_reported (422+433)		
2	AKA11_HUMAN	AKAP11				phospho	1	T722			0			
2	AKA11_HUMAN	AKAP11				phospho	1	T981			0			
2	AKA11_HUMAN	AKAP11				phospho	1	S1169	0	0		site_reported		

2	AKA11_HUMAN	AKAP11				phospho	1	S1171			0	site_reported	PKA_motif	
2	AKA11_HUMAN	AKAP11				phospho	2	S1240/1242	0	0	0	site_reported (1242)	PKA_motif (1242)	
2	AKA11_HUMAN	AKAP11				phospho	3	S1289	0	0	0			
2	AKA11_HUMAN	AKAP11				phospho	1	S1337	0	1		site_reported		
2	AKA11_HUMAN	AKAP11				phospho	2	T1485	1	0	0			
2	AKA11_HUMAN	AKAP11				phospho	1	S1611	0	1			PKA_motif	
2	AKAP1_HUMAN	AKAP1	2	47	0,0127	bdg	2	bdg	-0,5	0,5				A kinase (PRKA) anchor protein 1
2	AKAP2_HUMAN	AKAP2	4	44	0,0271	bdg	1	bdg			0			A kinase (PRKA) anchor protein 2
2	AKAP2_HUMAN	AKAP2				phospho	2	S135/137	-0,5	0				
2	AKAP2_HUMAN	AKAP2				phospho	1	T781			1	site_reported		
2	AKAP3_HUMAN	AKAP3	1	55	0,0054	phospho	1	S426	-1	-1				A kinase (PRKA) anchor protein 3
2	AKAP5_HUMAN	AKAP5	1	21	0,0142	bdg	1	bdg			1			A kinase (PRKA) anchor protein 5
2	AKAP8_HUMAN	AKAP8	4	33	0,0362	phospho	2	S323+S328	0	0	0	sites_reported (323+328)	PKA_motif (323)	A kinase (PRKA) anchor protein 8
2	AKAP8_HUMAN	AKAP8				phospho	2	S339			0	site_reported		
2	AKAP9_HUMAN	AKAP9	4	282	0,0042	bdg	4	bdg	0	-1	0			A kinase (PRKA) anchor protein (yotiao) 9
3	NDK3_HUMAN	NME3	4	13	0,0918	bdg	4	bdg	0,75	0,5				NME/NM23 nucleoside diphosphate kinase 3
3	NDKA_HUMAN	NME1	14	12	0,3483	bdg	14	bdg	0,38	0,38	0			NME/NM23 nucleoside diphosphate kinase 1
3	NDKM_HUMAN	NME4	18	14	0,3838	bdg	18	bdg	0,25	0	-0,5			NME/NM23 nucleoside diphosphate kinase 4
3	PYR1_HUMAN	CAD	82	118	0,2074	bdg	64	bdg	0,49	0,15	-0,09			carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase
3	PYR1_HUMAN	CAD				phospho	1	S1406	1	0		site_reported	PKA_motif	
3	PYR1_HUMAN	CAD				phospho	3	ST1823/28/31/33	0	1	1			
3	PYR1_HUMAN	CAD				phospho	14	S1859	0,12	0,38	0,33	site_reported		
3	PYRG1_HUMAN	CTPS1	1	35	0,0085	phospho	1	S575	0	0		site_reported		CTP synthase 1
4	AAPK1_HUMAN	PRKAA1	4	35	0,0341	phospho	2	TS183/184	-1	1	0	site_reported		protein kinase, AMP-activated, alpha 1 catalytic subunit
4	AAPK1_HUMAN	PRKAA1				phospho	2	S496	0	0	1	site_reported	PKA_motif	
4	KGP1_HUMAN	PRKG1	12	43	0,0833	bdg	3	bdg	0,67	0				protein kinase, cGMP-dependent, type I
4	KGP1_HUMAN	PRKG1				phospho	1	S65	0	-1				

4	KGP1_HUMAN	PRKG1				phospho	1	S73			0			
4	KGP1_HUMAN	PRKG1				phospho	2	S273	0	0	0	site_reported	PKA_motif	
4	KGP1_HUMAN	PRKG1				phospho	5	T515	0,75	0,75	0	site_reported		
4	MYOME_HUMAN	PDE4DIP	3	153	0,0059	bdg	3	bdg	0,33	0,33				phosphodiesterase 4D interacting protein
4	PDE4A_HUMAN	PDE4A	2	41	0,0146	phospho	1	S145			0	site_reported	PKA_motif	phosphodiesterase 4A, cAMP-specific
4	PDE4A_HUMAN	PDE4A				phospho	1	S209			-1	site_reported		
5	ACDSB_HUMAN	ACDSB	3	27	0,0332	bdg	3	bdg	0,33	0				acyl-CoA dehydrogenase, short/branched chain
5	ACOX1_HUMAN	ACOX1	1	38	0,0079	phospho	1	S540	-1	0				acyl-CoA oxidase 1, palmitoyl
5	BCKD_HUMAN	BCKDK	4	23	0,0519	phospho	1	S31	-1	0		site_reported	PKA_motif	branched chain ketoacid dehydrogenase kinase
5	BCKD_HUMAN	BCKDK				phospho	3	S33	-1	0	0	site_reported	PKA_motif	
5	MMSA_HUMAN	ALDH6A1	1	35	0,0085	phospho	1	T507			0			aldehyde dehydrogenase 6 family, member A1
5	ODBA_HUMAN	BCKDHA	3	27	0,0332	phospho	2	S337	0	0		site_reported		branched chain keto acid dehydrogenase E1, alpha polypeptide
5	ODBA_HUMAN	BCKDHA				phospho	1	S347	0	0		site_reported		
6	F262_HUMAN	PFKFB2	1	39	0,0077	phospho	1	S148	0	0				6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2
6	GCDH_HUMAN	GCDH	17	30	0,1692	bdg	17	bdg	0,13	0,07	0			glutaryl-CoA dehydrogenase
6	GDE_HUMAN	AGL	12	100	0,0358	bdg	12	bdg	0,57	0,14	-0,6			amyl-alpha-1, 6-glucosidase, 4-alpha-glucanotransferase
6	ODO1_HUMAN	OGDH	2	55	0,0109	bdg	2	bdg			0			oxoglutarate (alpha-ketoglutarate) dehydrogenase (lipoamide)
6	ODO2_HUMAN	DLST	4	25	0,0478	bdg	4	bdg	0	-1	-1			dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex)
6	ODPA_HUMAN	PDHA1	1	27	0,0111	phospho	1	S232	1	0		site_reported		pyruvate dehydrogenase (lipoamide) alpha 1
7	HEM1_HUMAN	ALAS1	9	44	0,0611	bdg	9	bdg	0,29	0	0			aminolevulinate, delta-, synthase 1
7	HEM6_HUMAN	CPOX	67	30	0,6667	bdg	62	bdg	0,05	-0,05	0			coproporphyrinogen oxidase

7	HEM6_HUMAN	CPOX				phospho	5	S112	0	0	0		PKA_motif	
8	ANPRA_HUMAN	NPR1	4	62	0,0193	bdg	4	bdg	0	1	0,33			natriuretic peptide receptor A/guanylate cyclase A (atrionatriuretic peptide receptor A)
8	DHE3_HUMAN	GLUD1	4	35	0,0341	bdg	4	bdg			-1			glutamate dehydrogenase 1
8	FOLR1_HUMAN	FOLR1	2	17	0,0351	bdg	2	bdg	0	0	-1			folate receptor 1 (adult)
8	HORN_HUMAN	HRNR	6	78	0,023	bdg	6	bdg	-0,5	0	1			hornerin
8	LG3BP_HUMAN	LGALS3BP	4	33	0,0362	bdg	4	bdg	0,67	0	0			lectin, galactoside-binding, soluble, 3 binding protein
8	LYPL1_HUMAN	LYPLAL1	9	17	0,158	bdg	9	bdg	0	0	0			lysophospholipase-like 1
8	MCCB_HUMAN	MCCC2	2	35	0,0171	bdg	1	bdg	1	0				methylcrotonoyl-CoA carboxylase 2 (beta)
8	MCCB_HUMAN	MCCC2				phospho	1	T238			0			
8	MTMR3_HUMAN	MTMR3	1	69	0,0043	phospho	1	S633	0	0		site_reported	PKA_motif	myotubularin related protein 3
8	MTMR4_HUMAN	MTMR4	1	69	0,0043	phospho	1	S629			-1		PKA_motif	myotubularin related protein 4
8	NUDT6_HUMAN	NUDT6	2	23	0,026	bdg	2	bdg	0,5	0				nudix (nucleoside diphosphate linked moiety X)-type motif 6
8	QORX_HUMAN	TP53I3	6	17	0,1054	bdg	6	bdg			-0,67			tumor protein p53 inducible protein 3
8	TALDO_HUMAN	TALDO1	1	24	0,0124	phospho	1	S75			0			transaldolase 1
8	THTR_HUMAN	TST	3	20	0,0448	bdg	3	bdg	0,67	0				thiosulfate sulfurtransferase (rhodanese)
8	ZADH2_HUMAN	ZADH2	17	22	0,2307	bdg	17	bdg	0	-0,09	0			zinc binding alcohol dehydrogenase domain containing 2
9	AA3R_HUMAN	ADORA3	1	10	0,0299	phospho	1	S213	0	0				adenosine A3 receptor
9	GP161_HUMAN	GPR161	1	27	0,0111	phospho	1	S430			0		PKA_motif	G protein-coupled receptor 161
9	GRD2I_HUMAN	GRID2IP	1	70	0,0043	phospho	1	S235			1		PKA_motif	glutamate receptor, ionotropic, delta 2 (Grid2) interacting protein
9	IRK3_HUMAN	KCNJ3	1	23	0,013	phospho	1	S225	1	0				potassium inwardly-rectifying channel, subfamily J, member 3

9	IRS4_HUMAN	IRS4	2	67	0,0089	bdg	1	bdg	-1	0				insulin receptor substrate 4
9	IRS4_HUMAN	IRS4				phospho	1	S1231	-1	-1		site_reported	PKA_motif	
9	KCC2B_HUMAN	CAMK2B	2	36	0,0166	bdg	2	bdg	0	0				calcium/calmodulin-dependent protein kinase II beta
9	KCC2D_HUMAN	CAMK2D	56	30	0,5572	bdg	16	bdg	0,18	0	-0,6			calcium/calmodulin-dependent protein kinase II delta
9	KCC2D_HUMAN	CAMK2D				phospho	1	T287	0	0		site_reported	PKA_motif	
9	KCC2D_HUMAN	CAMK2D				phospho	1	S315+S319	-1	0		sites_reported (315+319)	PKA_motif (315)	
9	KCC2D_HUMAN	CAMK2D				phospho	9	S330	0	0,33	0,67	site_reported		
9	KCC2D_HUMAN	CAMK2D				phospho	12	T331	-0,17	0	0,17	site_reported		
9	KCC2D_HUMAN	CAMK2D				phospho	3	T331+S333	0	0	0	sites_reported (331+333)		
9	KCC2D_HUMAN	CAMK2D				phospho	2	T331+S333+S334	0	0	0	sites_reported (331+333+334)		
9	KCC2D_HUMAN	CAMK2D				phospho	2	T331+T337			0	sites_reported (331+337)		
9	KCC2D_HUMAN	CAMK2D				phospho	1	T331+S334			1	sites_reported (331+334)		
9	KCC2D_HUMAN	CAMK2D				phospho	1	T331+T336	0	0		sites_reported (331+336)		
9	KCC2D_HUMAN	CAMK2D				phospho	1	S333			1	site_reported		
9	KCC2D_HUMAN	CAMK2D				phospho	1	S333+S334+T336	0	0		sites_reported (333+334+336)		
9	KCC2D_HUMAN	CAMK2D				phospho	2	S334	0	-1	-1	site_reported		
9	KCC2D_HUMAN	CAMK2D				phospho	1	T337			0	site_reported		
9	KCC2D_HUMAN	CAMK2D				phospho	2	S472	0	0	0	site_reported	PKA_motif	
9	KCC2D_HUMAN	CAMK2D				phospho	1	S494			-1			
9	KCC2G_HUMAN	CAMK2G	53	30	0,5274	bdg	21	bdg	0	0,36	0,1			calcium/calmodulin-dependent protein kinase II gamma
9	KCC2G_HUMAN	CAMK2G				phospho	2	S36	-1	0	1			
9	KCC2G_HUMAN	CAMK2G				phospho	1	S267+T277			0			
9	KCC2G_HUMAN	CAMK2G				phospho	1	T277+S280			0	site_reported (280)		
9	KCC2G_HUMAN	CAMK2G				phospho	2	T287	0	0	0	site_reported	PKA_motif	
9	KCC2G_HUMAN	CAMK2G				phospho	1	S320			0			
9	KCC2G_HUMAN	CAMK2G				phospho	2	S325	0	0	0	site_reported		
9	KCC2G_HUMAN	CAMK2G				phospho	2	S333			1			
9	KCC2G_HUMAN	CAMK2G				phospho	1	S338			1	site_reported		
9	KCC2G_HUMAN	CAMK2G				phospho	1	T369			0			

9	KCC2G_HUMAN	CAMK2G				phospho	1	S379+T382			0	sites_reported (379+382)		
9	KCC2G_HUMAN	CAMK2G				phospho	1	S380			1			
9	KCC2G_HUMAN	CAMK2G				phospho	2	S381	0	0	0	site_reported		
9	KCC2G_HUMAN	CAMK2G				phospho	8	T382	0	0	0,5	site_reported		
9	KCC2G_HUMAN	CAMK2G				phospho	6	T382+S384	0	0	0	sites_reported (382+384)		
9	KCC2G_HUMAN	CAMK2G				phospho	1	S394	0	1				
9	M3K15_HUMAN	MAP3K15	1	74	0,004	phospho	1	S68	0	0				mitogen-activated protein kinase kinase kinase 15
9	M3K6_HUMAN	MAP3K6	2	66	0,009	phospho	2	S914+S916	0,5	0,5		site_reported (914)	PKA_motif (916)	mitogen-activated protein kinase kinase kinase 6
9	STK3_HUMAN	STK3	1	31	0,0096	phospho	1	S316			0	site_reported		serine/threonine kinase 3
9	TFG_HUMAN	TFG	17	13	0,3904	bdg	17	bdg	0,1	0,3	-0,29			TRK-fused gene
9	TM231_HUMAN	TMEM231	2	17	0,0351	bdg	2	bdg	0	-1	1			transmembrane protein 231
9	TRPC3_HUMAN	TRPC3	1	48	0,0062	phospho	1	S735+S745			0			transient receptor potential cation channel, subfamily C, member 3
10	ANM6_HUMAN	PRMT6	5	17	0,0878	phospho	5	T21	0	0	0,33	site_reported		protein arginine methyltransferase 6
10	EWS_HUMAN	EWSR1	8	24	0,0995	bdg	8	bdg	0	0,25	0			Ewing sarcoma breakpoint region 1
10	FUS_HUMAN	FUS	32	18	0,5307	bdg	32	bdg	-0,21	0	-0,33			fused in sarcoma
10	HDAC6_HUMAN	HDAC6	2	42	0,0142	bdg	1	bdg			-1			histone deacetylase 6
10	HDAC6_HUMAN	HDAC6				phospho	1	S22			0	site_reported		
10	IF2B1_HUMAN	IGF2BP1	1	36	0,0083	phospho	1	S181	0	0		site_reported	PKA_motif	insulin-like growth factor 2 mRNA binding protein 1
10	RBP56_HUMAN	TAF15	21	28	0,2239	bdg	18	bdg	-0,4	0,2	0,38			TAF15 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 68kDa
10	RBP56_HUMAN	TAF15				phospho	2	S375	0	0	1		PKA_motif	
10	RBP56_HUMAN	TAF15				phospho	1	S387			1			
10	RU17_HUMAN	SNRNP70	2	21	0,0284	phospho	2	S410	-1	-1	1	site_reported		small nuclear ribonucleoprotein 70kDa (U1)
10	SIN3B_HUMAN	SIN3B	2	71	0,0084	bdg	1	bdg	1	1				SIN3 transcription regulator homolog B (yeast)
10	SIN3B_HUMAN	SIN3B				phospho	1	S603	0	0				
10	TRA2B_HUMAN	TRA2B	3	11	0,0814	phospho	2	S95+S97+S99	-1	-0,5		sites_reported (95+97+99)	PKA_motif (95)	

10	TRA2B_HUMAN	TRA2B				phospho	1	S264+S266	-1	-1		site_reported (264+266)	PKA_motif (264+266)	transformer 2 beta homolog (Drosophila)
11	CNTP1_HUMAN	CNTNAP1	2	75	0,008	bdg	2	bdg			1			contactin associated protein 1
11	DYL1_HUMAN	DYNLL1	3	5	0,1791	bdg	3	bdg	0,5	1	1			dynein, light chain, LC8-type 1
11	KI13B_HUMAN	KIF13B	1	102	0,0029	phospho	1	S1497	1	1				kinesin family member 13B
11	KIFA3_HUMAN	KIFAP3	2	47	0,0127	phospho	2	S104	0	0	1			kinesin-associated protein 3
12	ELMD1_HUMAN	ELMOD1	1	15	0,0199	phospho	1	T82	0	0				ELMO/CED-12 domain containing 1
12	RB11A_HUMAN	RAB11A	1	15	0,0199	phospho	1	S177+S182			0		PKA_motif (177)	RAB11A, member RAS oncogene family
12	SEP11_HUMAN	SEPT11	1	25	0,0119	phospho	1	S412	0	0				septin 11
13	AN32B_HUMAN	ANP32B	1	10	0,0299	phospho	1	T244	-1	1		site_reported		acidic (leucine-rich) nuclear phosphoprotein 32 family, member B
13	ANR60_HUMAN	ANKRD60	2	24	0,0249	phospho	2	S29			-0,5			ankyrin repeat domain 60
13	ASPM_HUMAN	ASPM	2	221	0,0027	bdg	2	bdg	0	1	1			asp (abnormal spindle) homolog, microcephaly associated (Drosophila)
13	CAPR1_HUMAN	CAPRIN1	2	29	0,0206	bdg	2	bdg	0	-1	1			cell cycle associated protein 1
13	CCD25_HUMAN	CCDC25	2	17	0,0351	bdg	2	bdg	0	1	0			coiled-coil domain containing 25
13	CHIP_HUMAN	STUB1	2	24	0,0249	phospho	2	S19	0,5	0,5		site_reported		STIP1 homology and U-box containing protein 1, E3 ubiquitin protein ligase
13	DBPA_HUMAN	CSDA	5	19	0,0786	bdg	4	bdg	0	0	0,67			cold shock domain protein A
13	DBPA_HUMAN	CSDA				phospho	1	S38			1	site_reported		
13	HECD2_HUMAN	HECTD2	2	44	0,0136	bdg	2	bdg	-1	-1	1			HECT domain containing E3 ubiquitin protein ligase 2
13	S39A7_HUMAN	SLC39A7	2	14	0,0426	phospho	2	S275+S276			1	sites_reported (275+276)		solute carrier family 39 (zinc transporter), member 7
13	SC23A_HUMAN	SEC23A	2	41	0,0146	bdg	2	bdg	0	0	0			Sec23 homolog A (S. cerevisiae)
13	SSA27_HUMAN	SSSCA1	2	10	0,0597	bdg	2	bdg	0	-0,5				Sjogren syndrome/scleroderma autoantigen 1

13	TITIN_HUMAN	TTN	2	2157	0,0003	bdg	1	bdg	0	0				titin
13	TITIN_HUMAN	TTN				phospho	1	T4454			0			
13	ZN502_HUMAN	ZNF502	3	41	0,0218	bdg	3	bdg	0,5	1	-1			zinc finger protein 502
13	ZN576_HUMAN	ZNF576	2	12	0,0498	phospho	2	T120	-1	0		site_reported		zinc finger protein 576