

Table 1a
27 peptides that positively interact with R1881.

Peptide names (27)	Relative binding value	Description of the proteins (23)
ANDR_10_32	1.94	AR: androgen receptor
BRD8_254_276	1.43	p120: thyroid hormone-receptor conceiving protein
CBP_57_80	1.46	CBP: CREB-binding protein
CNOT1_2086_2108	1.25	NOT1H: CCR4-Not transcription complex
EP300_69_91	1.33	p300: histone acetyltransferase p300
GELS_376_398	8.46	AGEL: gelsolin precursor
JHD2C_2054_2076	1.39	TRIP-8: thyroidreceptor-interacting protein 8
LCOR_40_62	1.31	LCoR: ligand-dependent corepressor
MED1_632_655	1.36	PBP: PPAR-binding protein
NCOA1_620_643	1.29	
NCOA1_737_759	1.53	
NCOA2_628_651	1.71	SRC-1/RIP160: nuclear receptor co-activator 1
NCOA3_609_631	1.41	SRC-2/NCoA-2: nuclear receptor co-activator 2
NCOA3_609_631_C627S	4.10	SRC-3/NCoA-3
NCOA6_1479_1501	1.22	NCoA-6: nuclear receptor co-activator 6
NCOR1_2376_2398	1.30	N-CoR1: nuclear receptor corepressor 1
NROB1_1_23	1.28	
NROB1_68_90_C69S	1.46	DAX-1: nuclear receptor subfamily member 1
NROB2_106_128	2.18	DAX-2: nuclear receptor subfamily member 2
PR285_1062_1084	1.23	PDIP1: PPAR-gamma DBD-interacting protein 1
PRDM2_948_970	1.33	PRDM2: PR domain zinc finger protein 2
PRGC1_130_155	2.92	PGC1 α : PPAR-g co-activator 1-alpha
PRGC1_134_154	8.44	
RBL2_875_897_C879S/C894S	1.29	p130/RBR-2: retinoblastome-like protein 2
TF65_437_459	1.26	NF-kB p65: transcription factor p65
TREF1_168_190	1.43	Trep-132: transcriptional-regulating factor 1
ZNT9_449_471	1.27	ZnT-9: zinc transporter 9

Table 1b
31 peptides that positively interact with CPA.

Peptide names (31)	Relative binding value	Description of the proteins (22)
ANDR_10_32	2.05	AR: androgen receptor
BL1S1_1_11	19.84	BLOC-1: BLOC1subunit 1/GCN5-like protein
BRD8_254_276	5.5	p120: thyroid hormone-receptor conceiving protein
CBP_2055_2077	6.6	
CBP_345_368_C367S	13.7	CBP: CREB-binding protein
CENPR_159_177	1.25	CENP-R: centromere protein R
CHD9_1023_1045	1.17	CHD-9: chromodomain-helicase-DNA-binding protein 9
CHD9_2018_2040	1.17	
CNOT1_1929_1951_C1932S	1.23	
CNOT1_2083_2105	2.57	
CNOT1_2086_2108	2.89	
CNOT1_557_579	1.6	NOT1: CCR4-NOT transcription complex subunit 1
DHX30_241_262	7.14	DHX30: putative ATP-dependent RNA helicase
EP300_2039_2061	1.64	
EP300_69_91	2.75	p300: histone acetyltransferase p300
GNAQ_21_43	1.9	Guanine nucleotide-binding protein G subunit alpha
IKBB_244_266	4.01	I κ B-B/TRIP-9: I-kappa-B-eta/TR-interacting protein 9
IKBB_62_84	3.42	
KIF11_832_854_C854S	2.4	KIF11: kinesin-like protein KIF11
MAPE_91_113	1.43	OIP4: melanoma antigen preferentially expressed in tumor
MED1_591_614	4.04	PBP: PPAR-binding protein
MLL2_4702_4724	1.57	MLL2: mixed-lineage leukemia protein 2
MTA1S_388_410_C393S/C396S	5.05	MTA1: metastasis-associated protein
NCOA2_628_651	1.6	SRC-2/NCoA-2: nuclear receptor co-activator 2
NCOA2_677_700	4.24	
NCOA3_609_631	1.18	SRC-3/NCoA-3: nuclear receptor co-activator 3
NCOA3_MOUSE_1029_1051	3.51	
NROB1_136_159	2.63	DAX-1: nuclear receptor subfamily member 1
NROB2_237_257	1.16	SHP: nuclear receptor subfamily member 2
NRBF2_128_150	2.2	NRBF2: nuclear receptor-binding factor 2
PNRC2_118_139	1.26	PNRC2: proline-rich nuclear receptor coactivator 2

Table 1c 45 peptides that positively interact with BPA.

Peptide names (45)	Relative binding value	Description of the proteins (28)
ANDR_10_32	1.36	AR: androgen receptor
CENPR_159_177	1.58	CENP-R: centromere protein R
CHD9_1023_1045	1.41	CHD-9: chromodomain-helicase-DNA-binding protein 9
CNOT1_140_162	1.30	
CNOT1_1929_1951_C1932S	1.29	
CNOT1_557_579	1.39	NOT1: CCR4-NOT transcription complex subunit 1
DHX30_49_70	1.55	DHX30: putative ATP-dependent RNA helicase
EP300_2039_2061	1.58	p300: histone acetyltransferase p300
GNAQ_21_43	1.40	Guanine nucleotide-binding protein G subunit alpha
HAIR_553_575_C567S	1.38	Protein hairless
IKBB_277_299	1.45	Ikb-B/TRIP-9: I-kappa-B-eta/TR-interacting protein 9
MAPE_249_271	1.32	
MAPE_300_322	1.25	Melanoma antigen preferentially expressed in tumor
MGMT_86_108	1.29	Methylated-DNA-protein-cysteine methyltransferase
MLL2_4175_4197	1.54	Mixed-lineage leukemia protein 2
NCOA1_677_700	1.32	SRC-1/RIP160: nuclear receptor co-activator 1
NCOA3_673_695	1.50	SRC-3/NCoA-3: nuclear receptor co-activator 1
NCOA4_315_337	1.56	NCoA-4: nuclear receptor co-activator 4
NCOR1_2039_2061_C2056S	1.43	
NCOR1_2251_2273	1.43	
NCOR1_662_684_C662S	1.60	N-CoR1: nuclear receptor corepressor 1
NCOR2_649_671_C649S	1.60	N-CoR2: nuclear receptor corepressor 2
NELFB_328_350	1.46	
NELFB_428_450	1.55	NELF-B: negative elongation factor B
NRIP1_121_143_P124R	1.53	
NRIP1_368_390	1.50	
NRIP1_488_510	1.44	
NRIP1_700_722	1.38	
NRIP1_701_723	1.29	
NRIP1_805_831	1.63	
NRIP1_924_946	1.40	
NRIP1_924_946_C945S	1.38	Nuclear receptor-interacting protein 1/nuclear factor RIP140
PAK6_248_270	1.38	PAK6: p21-activatedkinase 6
PELP1_168_190	1.39	
PELP1_56_78_C71S	1.52	
PELP1_571_593_C575S/C581S	1.22	Proline-, glutamic acid- and leucine-rich protein 1
PPRC_1151_173	1.20	PRC: PGC-1-related coactivator
RAD9A_348_370	1.44	Cell cycle checkpoint control protein RAD9A
TGFII_325_347_C334S/C346S	1.80	Transforming growth factor beta-1-induced transcript 1
TGFII_443_461_C452S/C455S	1.59	
TIF1A_373_395_C394S	1.48	
TIF1A_747_769	1.55	TIF1-alpha: transcription intermediary factor 1-alpha
TRIP4_149_171_C171S	1.33	TRIP4: thyroid receptor-interacting protein 4
TRRAP_3535_3557_C3535S/C3555S	1.52	Transcription domain-associated protein
ZNHI3_89_111	1.53	Zinc finger HIT domain-containing protein 3

Table 1d
44 peptides that positively interact with BPAF.

Peptide names (44)	Relative binding value	Description of the proteins (30)
ANDR_10_32	1.47	AR: androgen receptor
CBP_2055_2077	1.50	CBP: CREB-binding protein
CENPR_159_177	1.46	CENP-R: centromere protein R
CHD9_1023_1045	1.41	CHD-9: chromodomain-helicase-DNA-binding protein 9
CNOT1_140_162	1.33	CCR4-NOT transcription complex subunit 1
CNOT1_1929_1951_C1932S	1.29	
DHX30_49_70	1.54	Putative ATP-dependent RNA helicase DHX30
EP300_2039_2061	1.53	p300: histone acetyltransferase p300
GNAQ_21_43	1.42	Guanine nucleotide-binding protein G subunit alpha
HAIR_553_575_C567S	1.30	Protein hairless
IKBB_277_299	1.46	IkB-B/TRIP-9: I-kappa-B-eta/TR-interacting protein 9
MAPE_454_476_C472S	1.50	Melanoma antigen preferentially expressed in tumor
MEN1_255_277	1.19	Menin
MGMT_86_108	1.30	Methylated-DNA-protein-cysteine methyltransferase
MLL2_4175_4197	1.50	Mixed-lineage leukemia protein 2
MLL2_4702_4724	1.28	
NCOA1_677_700	1.41	SRC-1/RIP160: nuclear receptor co-activator 1
NCOA3_673_695	1.40	SRC-3/NCoA-3: nuclear receptor co-activator 3
NCOA4_315_337	1.36	NCoA-4
NCOR1_2039_2061_C2056S	1.51	N-CoR1: nuclear receptor corepressor 1
NCOR1_2251_2273	1.47	
NCOR1_662_684_C662S	1.59	
NCOR2_649_671_C649S	1.54	N-CoR2: nuclear receptor corepressor 2
NELFB_328_350	1.30	NELF-B: negative elongation factor B
NRIP1_121_143_P124R	1.47	
NRIP1_368_390	1.44	
NRIP1_488_510	1.44	
NRIP1_700_722	1.37	
NRIP1_701_723	1.23	
NRIP1_805_831	1.60	
NRIP1_924_946	1.39	
NRIP1_924_946_C945S	1.40	Nuclear receptor-interacting protein 1/nuclear factor RIP140
PAK6_248_270	1.40	PAK6: p21-activatedkinase 6
PELP1_142_164	1.26	
PELP1_168_190	1.36	
PELP1_56_78_C71S	1.50	Proline-, glutamic acid- and leucine-rich protein 1
PIAS2_6_28	1.24	Protein inhibitor of activated STAT2
RAD9A_348_370	1.44	Cell cycle checkpoint control protein RAD9A
TGFI1_325_347_C334S/C346S	1.48	
TGFI1_443_461_C452S/C455S	1.46	Transforming growth factor beta-1-induced transcript 1
TIF1A_747_769	1.45	TIF1-alpha: transcription intermediary factor 1-alpha
TRIP4_149_171_C171S	1.52	TRIP4: thyroid receptor-interacting protein 4
TRRAP_3535_3557_C3535S/C3555S	1.46	Transcription domain-associated protein
ZNHI3_89_111	1.53	Zinc finger HIT domain-containing protein 3

Table 1e
4 peptides that positively interact with BPS.

Peptide names (4)	Relative binding value	Description of the proteins (4)
ANDR_10_32	1.22	AR: androgen receptor
CBP_57_80	1.50	CBP: CREB-binding protein
NCOA4_315_337	1.53	NCoA-4: nuclear receptor coactivator 4
TGFI1_325_347_C334S/C346S	1.12	Hic-5: hydrogen peroxide-inducible clone 5 protein