

**Table 2a**  
51 peptides that negatively interact with R1881.

Peptide names (51)	Relative binding value	Description of the proteins (28)
CENPR_159_177	0.60	CENP-R: centromere protein R
CHD9_1023_1045	0.54	CHD-9: chromodomain-helicase-DNA-binding protein 9
CNOT1_140_162	0.49	
CNOT1_1626_1648	0.44	
CNOT1_1929_1951_C1932S	0.51	
CNOT1_557_579	0.52	CCR4-NOT transcription complex subunit 1
DHX30_49_70	0.55	Putative ATP-dependent RNA helicase DHX30
EP300_2039_2061	0.54	p300: histone acetyltransferase p300
GNAQ_21_43	0.70	Guanine nucleotide-binding protein G subunit alpha
HAIR_553_575_C567S	0.61	Protein hairless
IKBB_277_299	0.60	
IKBB_62_84	0.42	IkB-B/TRIP-9: I-kappa-B-eta/TR-interacting protein 9
MAPE_249_271	0.57	
MAPE_300_322	0.54	
MAPE_454_476_C472S	0.55	
MAPE_91_113	0.38	Melanoma antigen preferentially expressed in tumor
MEN1_255_277	0.61	Menin
MGMT_86_108	0.56	Methylated-DNA-protein-cysteine methyltransferase
MLL2_4175_4197	0.72	
MLL2_4702_4724	0.71	Mixed-lineage leukemia protein 2
NCOA3_673_695	0.62	SRC-3/NCoA-3: nuclear receptor co-activator 3
NCOR1_2039_2061_C2056S	0.51	
NCOR1_2251_2273	0.38	N-CoR1: nuclear receptor corepressor 1
NCOR2_2123_2145	0.51	N-CoR2: nuclear receptor corepressor 2
NELFB_328_350	0.47	
NELFB_428_450	0.59	NELF-B: negative elongation factor B
NR0B2_9_31_C9S/C11S	0.30	SHP: nuclear receptor subfamily member 2
NRIP1_120_142	0.57	
NRIP1_121_143_P124R	0.60	
NRIP1_368_390	0.70	
NRIP1_488_510	0.59	
NRIP1_700_722	0.55	
NRIP1_701_723	0.50	
NRIP1_805_831	0.66	Nuclear receptor-interacting protein 1/nuclear factor RIP140
PCAF_178_200	0.49	Histone acetyltransferase PCAF
PELP1_142_164	0.39	
PELP1_168_190	0.51	
PELP1_258_280	0.43	
PELP1_446_468	0.64	
PELP1_56_78_C71S	0.61	
PELP1_571_593_C575S/C581S	0.50	Proline-, glutamic acid- and leucine-rich protein 1
PIAS2_6_28	0.45	Protein inhibitor of activated STAT2
PPRC1_151_173	0.66	PRC: PGC-1-related coactivator
PR285_2216_2238_C2219S	0.31	ATP-dependent helicase PRIC285 protein
TGFI1_325_347_C334S/C346S	0.78	
TGFI1_443_461_C452S/C455S	0.78	Transforming growth factor beta-1-induced transcript 1
TIF1A_373_395_C394S	0.68	TIF1-alpha: transcription intermediary factor 1-alpha
TREF1_850_872	0.61	Transcriptional-regulating factor 1
TRRAP_3535_3557_C3535S/C3555S	0.44	
TRRAP_971_993	0.57	Transcription domain-associated protein
ZNH13_89_111	0.81	Zinc finger HIT domain-containing protein 3

**Table 2b**  
18 peptides that negatively interact with CPA.

Peptide names (18)	Relative binding value	Description of the proteins (12)
IKBB_277_299	0.58	IκB-B/TRIP-9: I-kappa-B-eta/TR-interacting protein 9
MEN1_255_277	0.89	Menin
NCOR1_2376_2398	0.90	N-CoR1: nuclear receptor corepressor 1
NROB1_1_23	0.25	SHP: nuclear receptor subfamily member 2
NRIP1_121_143_P124R	0.32	
NRIP1_488_510	0.37	
NRIP1_8_30	0.39	
NRIP1_805_831	0.14	NR-interacting protein 1/ nuclear factor RIP140
PELP1_142_164	0.34	
PELP1_20_42	0.97	
PELP1_571_593_C575S/C581S	0.11	Proline-, glutamic acid- and leucine-rich protein 1
PPRC1_151_173	0.38	PRC: PGC-1-related coactivator
PR285_1062_1084	0.26	PPAR-gamma DBD-interacting protein 1
PRGR_102_124	0.57	
PRGR_42_64_C64S	0.84	Progesterone receptor
TGF11_325_347_C334S/C346S	0.11	Transforming growth factor beta-1-induced transcript 1
TREF1_168_190	0.30	Transcriptional-regulating factor 1
UBE3A_649_671	0.93	Ubiquitin-protein ligase E3A

**Table 2c**

34 peptides that negatively interact with BPA.

Peptide names (34)	Relative binding value	Description of the proteins (30)
BRD8_254_276	0.31	p120: thyroid hormone-receptor conceiving protein
CBP_345_368_C367S	0.65	CBP: CREB-binding protein
CBP_57_80	0.54	
CCND1_243_264_C243S/C247S	0.39	G1/S-specific cyclin-D1 (PRAD1 oncogene)
CENPR_1_18	0.29	CENP-R: centromere protein R
CNOT1_2083_2105	0.25	CCR4-NOT transcription complex subunit 1
CNOT1_2086_2108	0.28	
GELS_376_398	0.42	AGEL: gelsolin precursor
ILK_131_153	0.34	ILK-1: integrin-liked protein kinase
JHD2C_2054_2076	0.39	TRIP-8: thyroidreceptor-interacting protein 8
LCOR_40_62	0.17	LCoR: ligand-dependent corepressor
MAPE_356_378	0.23	Melanoma antigen preferentially expressed in tumor
MED1_632_655	0.18	PBP: PPAR-binding protein
NCOA1_620_643	0.22	SRC-1/RIP160: nuclear receptor co-activator 1
NCOA3_609_631	0.30	SRC-3/NcoA-3: nuclear receptor co-activator 3
NCOA4_79_101_C101S	0.58	NcoA-4: nuclear receptor co-activator 4
NCOA6_1479_1501	0.36	NcoA-6: nuclear receptor co-activator 6
NCOR1_2376_2398	0.27	N-CoR1: nuclear receptor corepressor 1
NROB1_1_23	0.18	DAX-1: nuclear receptor subfamily member 1
NROB2_106_128	0.37	
NRIP1_8_30	0.77	Nuclear receptor-interacting protein 1/nuclear factor RIP140
NSD1_982_1004	0.33	Histone-lysine <i>N</i> -methyltransferase
PNRC1_306_327	0.46	Proline-rich nuclear receptor coactivator 1
PR285_1062_1084	0.40	ATP-dependent helicase PRIC285 protein
PR285_1160_1182_C1163S	0.59	
PRDM2_948_970	0.28	PR domain zinc finger protein 2
PRGC1_130_155	0.43	PGC1 $\alpha$ : PPAR-g co-activator 1-alpha
RBL2_875_897_C879S/C894S	0.09	PRB2/p130: retinoblastoma-like protein 2
TF65_437_459	0.32	NF-kB: transcription factor p65
TIP60_476_498	0.52	Tip60: histone acetyltransferase HTATIP
TREF1_168_190	0.40	TReP-132: transcriptional-regulating factor 1
TRRAP_770_792	0.50	STAF40: transformation domain-associated protein
UBE3A_396_418	0.38	Ubiquitin-protein ligase E3A
ZNT9_449_471	0.27	ZnT-9: Zinc transporter 9

**Table 2d**

31 peptides that negatively interact with BPAF.

Peptide names (31)	Relative binding value	Description of the proteins (28)
BRD8_254_276	0.32	p120: thyroid hormone-receptor conceiving protein
CCND1_243_264_C243S/C247S	0.52	G1/S-specific cyclin-D1 (PRAD1 oncogene)
CENPR_1_18	0.29	CENP-R: centromere protein R
CNOT1_2083_2105	0.35	CCR4-NOT transcription complex subunit 1
CNOT1_2086_2108	0.33	
DDX5_133_155	0.50	Probable ATP-dependent RNA helicase DDX5
EP300_69_91	0.55	p300: histone acetyltransferase p300
GELS_376_398	0.77	AGEL: gelsolin precursor
ILK_131_153	0.34	ILK-1: integrin-liked protein kinase
JHD2C_2054_2076	0.44	TRIP-8: thyroidreceptor-interacting protein 8
KIF11_832_854_C854S	0.48	Kinesin-like protein KIF11
L3R2A_12_34	0.56	Loss of heterozygosity 3 chromosomal region 2 gene A protein
LCOR_40_62	0.29	LCoR: ligand-dependent corepressor
MAPE_356_378	0.36	Melanoma antigen preferentially expressed in tumor
MED1_632_655	0.26	PBP: PPAR-binding protein
NCOA1_620_643	0.47	SRC-1/RIP160: nuclear receptor co-activator 1
NCOA3_609_631	0.48	SRC-3/NcoA-3: nuclear receptor co-activator 3
NCOA6_1479_1501	0.38	NcoA-6: nuclear receptor co-activator 6
NCOR1_2376_2398	0.39	N-CoR1: nuclear receptor corepressor 1
NR0B1_1_23	0.21	DAX-1: nuclear receptor subfamily member 1
NR0B2_106_128	0.29	
NRIP1_8_30	0.84	Nuclear receptor-interacting protein 1/nuclear factor RIP140
NSD1_982_1004	0.35	Histone-lysine N-methyltransferase
PELP1_20_42	0.43	Proline-, glutamic acid- and leucine-rich protein 1
PNRC1_306_327	0.58	Proline-rich nuclear receptor coactivator 1
PR285_1062_1084	0.43	ATP-dependent helicase PRIC285 protein
PRDM2_948_970	0.36	PR domain zinc finger protein 2
RBL2_875_897_C879S/C894S	0.29	PRB2/p130: retinoblastoma-like protein 2
TF65_437_459	0.47	NF-kB: transcription factor p65
UBE3A_396_418	0.36	Ubiquitin-protein ligase E3A
ZNT9_449_471	0.43	ZnT-9: zinc transporter 9

**Table 2e**

12 peptides that negatively interact with BPS.

Peptide names (12)	Relative binding value	Description of the proteins (9)
CBP_345_368	0.77	CBP: CREB-binding protein
CBP_345_368_C367S	0.74	
CNOT1_2083_2105	0.81	NOT1H: CCR4-Not transcription complex
CNOT1_2086_2108	0.82	
CNOT1_557_579	0.88	
MED1_632_655	0.75	PBP: PPAR-binding protein
NCOA3_104_123_N-KKK	0.61	SRC-3/NCoA-3: nuclear receptor co-activator 3
NCOA4_79_101_C101S	0.64	NCoA-4: nuclear receptor co-activator 4
NR0B1_1_23	0.77	DAX-1: nuclear receptor subfamily member 1
RBL2_875_897_C879S/C894S	0.75	p130/RBR-2: retinoblastome-like protein 2
UBE3A_396_418	0.80	Ubiquitin-protein ligase E3A
ZNT9_449_471	0.80	Znt-9: zinc transporter 9