

**Table 1**

Genes regulated in PRMT6 knockdown human osteosarcoma U2OS cells compared to siGFP control cells identified using Sentrix HumanRef-8 v3.0 Expression BeadChips (Illumina).

Protein names	Protein symbols	GeneBank accession numbers	Fold Change <sup>a</sup>	P-value
Homo sapiens actin-like 6A, transcript variant 2	ACTL6A	NM_177989.2	0,44	110E-08
Homo sapiens adiponectin receptor 2	ADIPOR2	NM_024551.2	0,49	436E-08
Homo sapiens aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid dehydrogenase, type II)	AKR1C3	NM_003739.4	0,50	149E-10
Homo sapiens alkaline phosphatase, liver/bone/kidney	ALPL	NM_000478.3	3,67	201E-09
Homo sapiens anthrax toxin receptor 2	ANTXR2	NM_058172.3	3,15	393E-08
Homo sapiens Rho GTPase activating protein 1	ARHGAP1	NM_004308.2	2,24	828E-09
Homo sapiens Rho GDP dissociation inhibitor (GDI) beta	ARHGDI3	NM_001175.4	2,16	282E-08
Homo sapiens ATP synthase, H <sup>+</sup> transporting, mitochondrial F0 complex, subunit C1 (subunit 9)	ATP5G1	NM_005175.2	0,40	447E-07
Homo sapiens Chromosome 1 open reading frame 121	C1orf121	N.A.	2,45	194E-08
Homo sapiens Chromosome 7 open reading frame 10	C7orf10	N.A.	2,76	466E-08
Homo sapiens CAP, adenylate cyclase-associated protein, 2 (yeast)	CAP2	NM_006366.2	0,49	218E-07
Homo sapiens cold inducible RNA binding protein	CIRBP	NM_001280.1	0,47	127E-07
Homo sapiens collagen, type XXII, alpha 1	COL22A1	NM_152888.1	2,81	231E-10
Homo sapiens collagen, type V, alpha 2	COL5A2	NM_000393.3	0,47	134E-09
Homo sapiens collagen, type VI, alpha 3, transcript variant 3	COL6A3	NM_057165.2	2,42	107E-10
Homo sapiens collagen, type VIII, alpha 1, transcript variant 1	COL8A1	NM_001850.3	2,70	229E-08
Homo sapiens carboxypeptidase A4	CPA4	NM_016352.2	0,46	666E-08
Homo sapiens colony stimulating factor 2 (granulocyte-macrophage)	CSF2	NM_000758.2	2,08	715E-09
Homo sapiens CTP synthase	CTPS	NM_001905.1	2,42	455E-08
Homo sapiens enoyl Coenzyme A hydratase 1, peroxisomal	ECH1	NM_001398.2	0,30	208E-09
Homo sapiens eukaryotic translation initiation factor 1B	EIF1B	NM_005875.2	0,49	178E-07
Homo sapiens endothelial cell-specific molecule 1	ESM1	NM_007036.3	3,34	441E-09
Homo sapiens family with sequence similarity 103, member A1	FAM103A1	NM_031452.2	0,49	1,005E-04
Homo sapiens family with sequence similarity 46, member C	FAM46C	NM_017709.3	2,12	839E-12
Homo sapiens forkhead box D1	FOXD1	NM_004472.2	2,06	209E-08
Homo sapiens FERM domain containing 6, transcript variant 2	FRMD6	NM_152330.3	2,28	115E-08
Homo sapiens glioblastoma amplified sequence	GBAS	NM_001483.1	2,10	1,409E-04

## PRMT6 regulates TSP-1-dependent cell migration

Homo sapiens guanine nucleotide binding protein (G protein), gamma 10	GNG10	NM_001017998.2	0,43	654E-08
Homo sapiens guanine nucleotide binding protein (G protein), gamma 12	GNG12	NM_018841.4	0,35	223E-08
Homo sapiens histone deacetylase 1	HDAC1	NM_004964.2	0,50	899E-09
Homo sapiens heme oxygenase (decycling) 1	HMOX1	NM_002133.1	0,18	532E-10
Homo sapiens interleukin 8	IL8	NM_000584.2	3,59	949E-09
Homo sapiens inositol(myo)-1(or 4)-monophosphatase 2	IMPA2	NM_014214.1	0,36	331E-09
Homo sapiens interferon stimulated exonuclease gene 20kDa	ISG20	NM_002201.4	3,53	175E-09
Homo sapiens integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)	ITGA2	NM_002203.3	3,07	230E-10
Homo sapiens membrane-bound protein potassium channel	KCT2	NM_020199	2,87	130E-08
Homo sapiens KiSS-1 metastasis-suppressor	KISS1	NM_002256.3	5,32	233E-11
Homo sapiens keratin 34	KRT34	NM_021013.3	2,03	201E-09
Homo sapiens lysosomal-associated membrane protein 1	LAMP1	NM_005561.2	0,47	136E-09
N.A.	LOC130940	N.A.	2,26	251E-09
Homo sapiens leupaxin	LPXN	NM_004811.1	3,93	522E-10
Homo sapiens microtubule-associated protein, RP/EB family, member 1	MAPRE1	NM_012325.1	0,32	165E-09
Homo sapiens membrane-associated ring finger (C3HC4) 4	MARCH4	NM_020814.1	3,72	106E-09
Homo sapiens major facilitator superfamily domain containing 1	MFSD1	NM_022736.1	2,01	1,171E-04
Homo sapiens MICAL C-terminal like	MICALCL	NM_032867.2	2,34	795E-09
Homo sapiens matrix metallopeptidase 7 (matrilysin, uterine)	MMP7	NM_002423.3	2,01	406E-08
Homo sapiens matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)	MMP9	NM_004994.2	4,90	515E-10
Homo sapiens membrane protein, palmitoylated 4 (MAGUK p55 subfamily member 4)	MPP4	NM_033066.1	2,41	105E-09
Homo sapiens metallothionein 1X	MT1X	NM_005952.2	0,43	293E-07
Homo sapiens netrin G1, transcript variant 3	NTNG1	NM_014917.2	2,96	465E-09
Homo sapiens poly(A) polymerase alpha	PAPOLA	NM_032632.3	0,45	506E-08
Homo sapiens plasminogen activator, urokinase	PLAU	NM_002658.2	2,90	506E-10
Homo sapiens procollagen-lysine, 2-oxoglutarate 5-dioxygenase 2, transcript variant 1	PLOD2	NM_182943.2	2,62	782E-08
Homo sapiens podocalyxin-like, transcript variant 1	PODXL	NM_001018111.1	2,21	545E-11
Homo sapiens protein arginine methyltransferase 6	PRMT6	NM_018137.1	0,24	750E-11
Homo sapiens polypyrimidine tract binding protein 2	PTBP2	NM_021190.1	0,41	575E-08
Homo sapiens protein tyrosine phosphatase-like (proline instead of catalytic arginine), member b	PTPLB	NM_198402.2	0,39	401E-07
Homo sapiens raftlin, lipid raft linker 1	RAFTLIN	NM_015150.1	2,21	109E-10
Homo sapiens ras homolog gene family, member Q	RHOQ	NM_012249.3	2,21	888E-07

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Homo sapiens response gene to complement 32	RGC32	NM_014059.2	2,16	372E-08
Homo sapiens transmembrane protein 158 (RIS1)	TMEM158	NM_015444.2	0,27	972E-09
Homo sapiens scavenger receptor class B, member 2	SCARB2	NM_005506.2	0,42	868E-10
Homo sapiens secretogranin V (7B2 protein)	SCG5	NM_003020.1	3,20	128E-09
Homo sapiens serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1, transcript variant 2	SERPINA1	NM_001002236.1	2,10	158E-09
Homo sapiens serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	SERPINE1	NM_000602.1	2,12	296E-10
Homo sapiens serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 2	SERPINE2	NM_006216.2	2,18	146E-08
Homo sapiens solute carrier organic anion transporter family, member 2A1	SLCO2A1	NM_005630.1	2,23	278E-08
Homo sapiens sorting nexin 4	SNX4	NM_003794.2	0,49	111E-08
Homo sapiens signal peptidase complex subunit 3 homolog ( <i>S. cerevisiae</i> )	SPCS3	NM_021928.1	2,13	354E-09
Homo sapiens spermidine synthase	SRM	NM_003132.2	2,18	848E-08
Homo sapiens transformation growth factor beta activated kinase like	TAK1L	NM_020152	2,31	119E-09
Homo sapiens thrombospondin 1	THBS1	NM_003246.2	2,48	342E-07
Homo sapiens tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin)	TNFRSF11B	NM_002546.3	3,91	198E-11
Homo sapiens tyrosylprotein sulfotransferase 1	TPST1	NM_003596.2	2,35	447E-10
Homo sapiens thioredoxin domain containing 12 (endoplasmic reticulum)	TXNDC12	NM_015913.2	2,02	214E-08
Homo sapiens ubiquitin-conjugating enzyme E2Q (putative) 2	UBE2Q2	NM_173469.1	0,46	533E-07
Homo sapiens urocortin 2	UCN2	NM_033199.3	2,08	186E-09
Homo sapiens uroporphyrinogen decarboxylase	UROD	NM_000374.3	0,31	337E-11
Homo sapiens vitamin K epoxide reductase complex, subunit 1-like 1	VKORC1L1	NM_173517.3	2,03	301E-08

<sup>a</sup>Fold change ( $\leq$  or  $\geq$  2-fold,  $p \leq 0.05$ ) indicates the ratio of average gene expression signals of the siPRMT6-treated U2OS cells to those of the control siGFP-treated cells.

For results normalization, we used robust multichip average (RMA) background adjustment, variance-stabilizing transformation (VST) method and quantile normalization. The EB (Wright and Simon) statistical correction was used for fold-change values and p-values analysis.

N.A. : not available.