

Product datasheet for RC216935

PRMT1 (NM_198318) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRMT1 (NM_198318) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PRMT1
Synonyms:	ANM1; HCP1; HRMT1L2; IR1B4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC216935 representing NM_198318 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCAGCCGAGGCCGCGAACTGCATCATGGAGGTGTCTGTGGCCAGGCGGAAAGCAGTGAGAAGC
CCAACGCTGAGGACATGACATCCAAAGATTACTACTTTGACTCCTACGCACACTTTGGCATCCACGAGGA
GATGCTGAAGGACGAGGTGCGCACCCCTCACTTACCGCAACTCCATGTTTCATAACCGGCACCTCTCAAG
GACAAGGTGGTGTGGACGTGGCTCGGCACCGGCATCCTCTGCATGTTTGTGCCAAGGCCGGGGCC
GCAAGGTCATCGGGATCGAGTGTCCAGTATCTCTGATTATGCGGTGAAGATCGTCAAAGCCAACAAGTT
AGACCACGTGGTGACCATCATCAAGGGGAAGGTGGAGGAGGTGGAGCTCCAGTGGAGAAGTGGACATC
ATCATCAGCGAGTGGATGGGCTACTGCCTCTTCTACGAGTCCATGCTCAACACCGTGTCTATGCCCGGG
ACAAGTGGCTGGCGCCGATGGCCTCATCTCCAGACCGGGCCACGCTGTATGTGACGGCCATCGAGGA
CCGGCAGTACAAAGACTACAAGATCCACTGGTGGGAGAACGTGTATGGCTTCGACATGTCTTGATCAAA
GATGTGGCCATTAAGGAGCCCTAGTGGATGTCGTGGACCCCAACAGCTGGTCAACAACGCCTGCCTCA
TAAAGGAGGTGGACATCTATACCGTCAAGGTGGAAGACCTGACCTTACCTCCCCGTTCTGCCTGCAAGT
GAAGCGGAATGACTACGTGCACGCCCTGGTGGCCTACTTCAACATCGAGTTCACACGCTGCCACAAGAGG
ACCGGCTTCTCCACGACCCCGAGTCCCGTACACGCACTGGAAGCAGACGGTGTCTACATGGAGGAT
ACCTGACCGTGAAGACGGGCGAGGAGATCTTCGGCACCATCGGCATGCGGCCAACGCCAAGAACAACCG
GGACCTGGACTTCACCATCGACCTGGACTTCAAGGGCCAGCTGTGCGAGCTGTCTGCTCCACCGACTAC
CGGATGCGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC216935 representing NM_198318
Red=Cloning site Green=Tags(s)

MAAAEAANCIMEVSCGQAESSEKPNaedMTskDYyFDSYAHFGIHEEMLKDEVRTLTyrNSMFHNRHLFK
 DKVVLdVGSgtGILCMFAAKAGARKVIGIEcSSI SDYAVKIVKANKLDHVVTIIKGVVEEVELPVEKVDI
 IISEWMGYCLFYESMLNTVLYARDKWLAPDGLIFPDRATLYVTAIEDRQYKDYKIHWVENYVGFDMSCIK
 DVAIKEPLVDVDPKQLVTNAclIKEVDIYTVKVEDLTF TSPFCLQVkrNDYVHALVAYFNIEFTRCHKR
 TGFSTSPESPYTHWKQTVFYMEDYLTVKtGEEIFGTIGMRPNakNNRDLDFtIDLDFKGGQLCElSCStDY
 RMR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6774_g09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_198318

ORF Size: 1059 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_198318.5](#)

RefSeq Size: 1332 bp

RefSeq ORF: 1062 bp

Locus ID: 3276

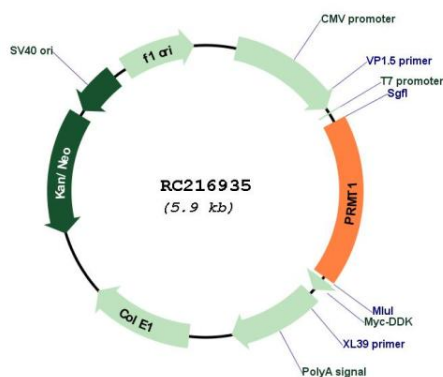
UniProt ID: [Q99873](#)

Cytogenetics: 19q13.33

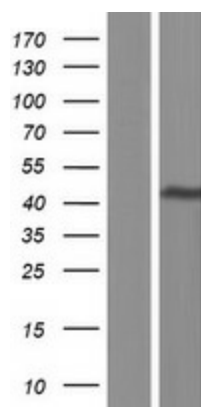
MW: 40.4 kDa

Gene Summary: This gene encodes a member of the protein arginine N-methyltransferase (PRMT) family. Post-translational modification of target proteins by PRMTs plays an important regulatory role in many biological processes, whereby PRMTs methylate arginine residues by transferring methyl groups from S-adenosyl-L-methionine to terminal guanidino nitrogen atoms. The encoded protein is a type I PRMT and is responsible for the majority of cellular arginine methylation activity. Increased expression of this gene may play a role in many types of cancer. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 5. [provided by RefSeq, Dec 2011]

Product images:



Circular map for RC216935



Western blot validation of overexpression lysate (Cat# [LY405016]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216935 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).