

Product datasheet for **RC209382**

PRMT3 (NM_005788) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRMT3 (NM_005788) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PRMT3
Synonyms:	HRMT1L3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC209382 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGCTCGTTAGCGTCAGGCGCTACCGCGGCCGGGGCGCTGTGGAGAATGAGGAGGACCTGCCAGAAC
 TGTCGGACAGCGGGACGAGGCCCTGGGAGGATGAGGACGATGCAGATCTCCCCACGGCAAGCAGCA
 GACCCCTGCCTGTTCTGTAACAGGTTATTCACATCTGCTGAAGAAACATTTTCACACTGTAAGTCTGAG
 CATCAGTTTAATATTGACAGCATGGTTCATAAACATGGACTTGAATTTTATGGATACATTAAGCTAATAA
 ATTTTATTAGACTTAAGAATCCTACAGTTGAGTACATGAATTCATATACAACCCAGTGCCTTGGGAGAA
 AGAAGAGTATTTGAAGCCAGTATTAGAAGATGACCTTTTACTTCAATTTGATGTAGAAGATCTTTATGAA
 CCGGTGTCAGTACCCTTCTCATACCCCAATGGACTCAGTAAAAATACATCTGTTGTTGAAAAATTGAAAC
 ATATGGAAGCCAGGGCACTGTCTGCTGAAGCCGATTGGCCAGAGCACGTGAGGATCTGCAAAAAATGAA
 ACAATTTGCTCAGGATTTTGTGATGCACACAGATGTCAGAACCTGCTCGTCATCTACTAGTGTCTTGGC
 GACCTCCAGGAGGATGAGGATGGTGTATTTCAGCTCATACGGCATTATGGGATACATGAAGAAATGC
 TAAAGGACAAAATACGAACAGAAAGCTACCGAGATTTTCATATACCAAAAATCCACATATCTTCAAAGCAA
 GGTAGTTTTGGATGTTGGGTGTGGAAGTGGAAATCTCTCTATGTTTGTGCTAAAGCTGGGGCGAAGAAG
 GTTCTTGGAGTTGATCAATCTGAAATACTTTACCAGGCAATGGATATTATAAGACTAAATAAACTTGAAG
 ATACTATTACACTAATTAAGGAAAAGATTGAAGAAGTTCATCTTCTGTAGAAAAAGTAGATGTTATCAT
 ATCTGAGTGGATGGGCTATTTCTTCTGTTTGGTCTATGTTAGATTCTGTCCTTTATGCAAGAACA
 TACTTGGCAAAAGGAGGCTCGGTCTACCCTGACATTTGCATATCAGCCTTGTAGCAGTGAAGTGTGA
 ATAAACATGCTGATAGAATTGCTTTTGGGATGATGCTATGGCTCAAGATGCTCAGTGAAGAAGC
 AGTTATCCAGAAGCTGTTGTGGAAGTTTTAGATCCGAAGACTCTTATTTTCAAGAACTTGTGGTATTAAG
 CATATAGATTGCCATACGACGTCTATCTCAGATTTGGAATTTTCATCAGATTTTACCCTGAAAATCACAA
 GGACATCCATGTGCACGGCAATTGCTGGCTACTTTGATATATATTTTGAAGAATTGCCACAACAGGGT
 CGTGTCTCTACGGGCCCTCAGAGCACAAAACACACTGGAAACAACAGTATTTCTACTGGAAAAACCA
 TTTTCAGTTAAAGCAGGTGAAGCCTTGAAGGAAAAGTTCACAGTTCACAAGAATAAGAAAGATCCACGTT
 CTCTACCGTGACCCTCACGTTGAATAATTCAACTCAAATTTATGGTCTCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209382 protein sequence
 Red=Cloning site Green=Tags(s)

MCSLASGATGGRGAVENEEDLPELSDSGDEAAWEDEDDADLPHGKQQTPLFCNRLFTSAEETFSHCKSE
 HQFNIDSMVHKHGLEFYGYIKLINFIRLKNPTVEYMNSIYNPVPWEKEEYLKPVLEDDLQLQFDVEDLYE
 PVSVPFSYPNGLSENTSVVEKLVKHEARALSAEALARAREDLQMKQFAQDFVMHTDVRTCSSSTSVIA
 DLQEDEDGVYFSSYGHYIHEEMLKDKIRTESYRDFIYQNPFIKDKVVLDVGCCTGILSMFAAKAGAKK
 VLGVDQSEILYQAMDIIIRLNKLEDITLTKGKIEEVHLPVEKVDVISEWVMGYFLLFESMLDSVLAKNK
 YLAKGGSVYPDICTISLVAVSDVNKHADRIAFWDDVYGFKMSCKKAVIPEAVVEVLDPKTLISEPCGIK
 HIDCHTTSISDLEFSSDFTLKIRTRSMCTAIAGYFDIYFEKNCHNRVVFSTGPQSTKTHWKQTVFLLLEKP
 FSVKAGEALKGKVTVHKNKDPRSLTVTLTLNNSTQTYGLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6666_a02.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_005788

ORF Size: 1593 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_005788.4](#)

RefSeq Size: 2743 bp

RefSeq ORF: 1596 bp

Locus ID: 10196

UniProt ID: [O60678](#)

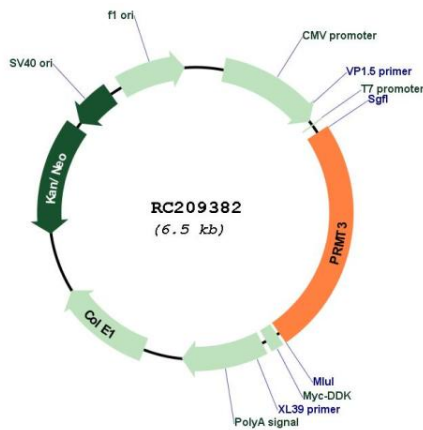
Cytogenetics: 11p15.1

Protein Families: Druggable Genome

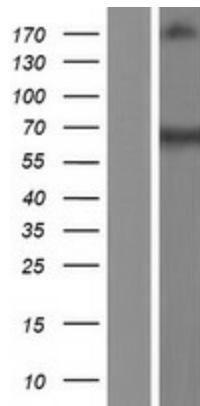
MW: 59.9 kDa

Gene Summary: This gene belongs to the protein arginine methyltransferase (PRMT) family. The encoded enzyme catalyzes the methylation of guanidino nitrogens of arginyl residues of proteins. The enzyme acts on 40S ribosomal protein S2 (rpS2), which is its major in-vivo substrate, and is involved in the proper maturation of the 80S ribosome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]

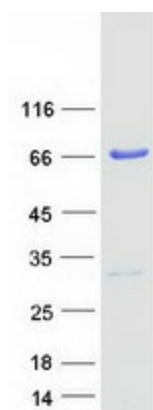
Product images:



Circular map for RC209382



Western blot validation of overexpression lysate (Cat# [LY417075]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209382 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PRMT3 protein (Cat# [TP309382]). The protein was produced from HEK293T cells transfected with PRMT3 cDNA clone (Cat# RC209382) using MegaTran 2.0 (Cat# [TT210002]).