

## Product datasheet for **RG209382**

### PRMT3 (NM\_005788) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PRMT3 (NM_005788) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PRMT3
Synonyms:	HRMT1L3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG209382 representing NM\_005788  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGCTCGTTAGCGTCAGGCGCTACCGCGGCCGGGCGCTGTGGAGAATGAGGAGGACCTGCCAGAAC  
 TGTCGGACAGCGGGACGAGGCCCTGGGAGGATGAGGACGATGCAGATCTCCCCACGGCAAGCAGCA  
 GACCCCTGCCTGTTCTGTAACAGGTTATTCACATCTGCTGAAGAAACATTTTCACACTGTAAGTCTGAG  
 CATCAGTTTAATATTGACAGCATGGTTCATAAACATGGACTTGAATTTTATGGATACATTAAGCTAATAA  
 ATTTTATTAGACTTAAGAATCCTACAGTTGAGTACATGAATTCATATACAACCCAGTGCCTTGGGAGAA  
 AGAAGAGTATTTGAAGCCAGTATTAGAAGATGACCTTTTACTTCAATTTGATGTAGAAGATCTTTATGAA  
 CCGGTGTCAGTACCCTTCTCATACCCCAATGGACTCAGTAAAAATACATCTGTTGTTGAAAAATTGAAAC  
 ATATGGAAGCCAGGCACTGTCTGCTGAAGCCGATTGGCCAGAGCACGTGAGGATCTGCAAAAAATGAA  
 ACAATTTGCTCAGGATTTTGATGCACACAGATGTCAGAACCTGCTCGTCATCTACTAGTGCATTGCG  
 GACCTCCAGGAGGATGAGGATGGTGTATTTTCAGCTCATACGGCATTATGGGATACATGAAGAAATGC  
 TAAAGGACAAAATACGAACAGAAAGCTACCGAGATTTTCATATACCAAAAATCCACATATCTTCAAAGCAA  
 GGATGTTTTGGATGTTGGGTGTGGAACGGAAATCTCTCTATGTTTGTGCTAAAGCTGGGGCGAAGAAG  
 GTTCTTGGAGTTGATCAATCTGAAATACTTTACCAGGCAATGGATATTATAAGACTAAATAAACTTGAAG  
 ATACTATTACACTAATTAAGGAAAAGATTGAAGAAGTTTCATCTTCTGTAGAAAAAGTAGATGTTATCAT  
 ATCTGAGTGGATGGGCTATTTCTTCTGTTTGGTCTATGTTAGATTCTGTCCTTTATGCAAAGAACAAA  
 TACTTGGCAAAAGGAGGCTCGGTCTACCCTGACATTTGCATATCAGCCTTGTAGCAGTGAAGTGTGA  
 ATAACATGCTGATAGAATTGCTTTTTGGGATGATGCTATGGCTCAAGATGCTCAGAAAGAAGC  
 AGTTATTCAGAAAGCTGTTGTGGAAGTTTTAGATCCGAAGACTCTTATTTTCAGAACCTTGTGGTATTAAG  
 CATATAGATTGCCATACGACGTCTATCTCAGATTTGGAATTTTCATCAGATTTTACCCTGAAAATCACAA  
 GGACATCCATGTGCACGGCAATTGCTGGCTACTTTGATATATATTTTGAAGAAGATTGCCACAACAGGGT  
 CGTGTCTCTACGGGCCCTCAGAGCACCAAAACACACTGGAAACAAACAGTATTTCTACTGGAAAAACCA  
 TTTTCAGTTAAAGCAGGTGAAGCCTTGAAGGAAAGGTACAGTTTACAAGAATAAGAAAGATCCACGTT  
 CTCTACCGTGACCCTCACGTTGAATAATTCAACTCAAATTTATGGTCTCCAG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG209382 representing NM\_005788  
 Red=Cloning site Green=Tags(s)

MCSLASGATGGRGA VENEEDLPELSDSGDEAAWEDEDDADLPHGKQQT PCLFCNRLFTSAEETF SHCKSE  
 HQFNIDSMVHKHGLEFYGYIKLINFIRLKNPTVEYMNSIYNPVPWEKEEY LKPVLEDDL LQFDVEDLYE  
 PVSVPFSYPNGLSENTSVVEK LKHMEARALSAEALARAREDLQKMKQFAQDFVMHTDVRTCSSSTSVIA  
 DLQEDEDGVYFSSYGHYGIHEEMLKDKIRTESYRDFIYQNP HIFKDKVVL DVGCGTGILSMFAAKAGAKK  
 VLGVDQSEILYQAMDII RLNKLEDITLIKGIIEVHLPVEKVDV IISEWMGYFLLFESMLDSVLYAKNK  
 YLAKGGSVYPDICTISLVA VSDVNKHADRIAFWDDVYGFKMSCMKKAVIPEAVVEVLDPKTLISEPCGIK  
 HIDCHTTSISDLEFSSDF TLKIRTSMTAIAGYFDIYFEKNCHNRVVFSTGPQSTKTHWKQTVFLLEKP  
 FSVKAGEALKGKVT VHKNKKDPRSLTVTLTLN NSTQTYGLQ

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-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.

**RefSeq:** [NM\\_005788.4](#)

**RefSeq Size:** 2632 bp

**RefSeq ORF:** 1596 bp

**Locus ID:** 10196

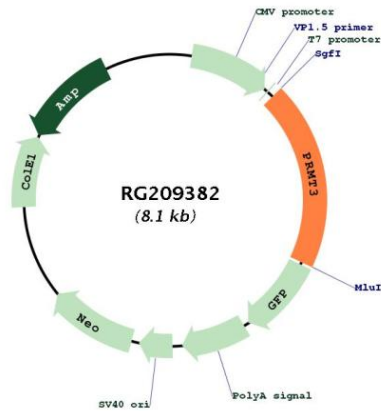
**UniProt ID:** [O60678](#)

**Cytogenetics:** 11p15.1

**Protein Families:** Druggable Genome

**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 RG209382