

Product datasheet for **SC325968**

PRMT3 (NM_001145166) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRMT3 (NM_001145166) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRMT3
Synonyms:	HRMT1L3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC325968 representing NM_001145166.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTGCTCGTTAGCGTCAGGCGCTACCGGTTATTCACATCTGCTGAAGAAACATTTTCACACTGTAAGT
CTGAGCATCAGTTAATATTGACAGCATGGTTCATAAACATGAATCCTACAGTTGAGTACATGAATTCC
ATATAACAACCCAGTGCCTTGGGAGAAAGAAGAGTATTTGAAGCCAGTATTAGAAGATGACCTTTACTT
CAATTTGATGTAGAAGATCTTTATGAACCGGTGTCAGTACCCTTCTCATACCCCAATGGACTCAGTGAA
AATACATCTGTTGTTGAAAAATTGAAACATATGGAAGCCAGGGCACTGTCTGCTGAAGCCGATTGGCC
AGAGCACGTGAGGATCTGCAAAAAATGAAACAATTTGCTCAGGATTTTGTGATGCACACAGATGTCAGA
ACCTGCTCGTCATCTACTAGTGCATTGCGGACCTCCAGGAGGATGAGGATGGTGTTTATTTTCAGCTCA
TACGGGCATTATGGGATACATGAAGAAATGCTAAAGGACAAAATACGAACAGAAAGCTACCGAGATTTTC
ATATAACAAAATCCACATATCTTCAAAGACAAGGTAGTTTGGATGTTGGGTGTGGAAGTGAATTTCTC
TCTATGTTTGCTGCTAAAGCTGGGGCGAAGAAGTTCTTGGAGTTGATCAATCTGAAATACTTTACCAG
GCAATGGATATTATAAGACTAAATAAACTTGAAGATACTATTACACTAATTAAAGGAAAGATTGAAGAA
GTTTCATCTTCTGTAGAAAAAGTAGATGTTATCATATCTGAGTGGATGGGCTATTTTCTTCTGTTTGGAG
TCTATGTTAGATTCTGTCTTTATGCAAAGAACAATACTTGGCAAAAAGGAGGCTCGGTCTACCCTGAC
ATTTGCACTATCAGCCTTGTAGCAGTGAGTGATGTGAATAAACATGCTGATAGAATTGCTTTTGGGAT
GATGCTATGGCTTCAAGATGCCTGCATGAAGAAAGCAGTTATCCAGAAGCTGTTGTGGAAGTTTTTA
GATCCGAAGACTTTATTTTCAGAACCTTGTGGTATTAAGCATATAGATTGCCATACGACGCTATCTCA
GATTTGGAATTTTCATCAGATTTTACCCTGAAAATCACAAGGACATCCATGTGCACGGCAATTGCTGGC
TACTTTGATATATTTTTGAGAAGAATTGCCACAACAGGTCGTGTTCTCTACGGCCCTCAGAGCACC
AAAACACACTGGAAACAACAGTATTTCTACTGGAAAAACCATTTTCAGTTAAAGCAGGTGAAGCCTTG
AAAGGAAAGGTCACAGTTCACAAGAATAAGAAAGATCCACGTTCTCTCACCGTGACCCTCACGTTGAAT
AATTCAACTCAAACCTTATGGTCTCCAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: Sgfl-MluI

ACCN: NM_001145166

Insert Size: 1410 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001145166.1](#)

RefSeq Size: 2557 bp

RefSeq ORF: 1410 bp

Locus ID: 10196

Cytogenetics: 11p15.1

Protein Families: Druggable Genome

MW: 52.9 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]

Transcript Variant: This variant (2) is missing two non-consecutive internal coding exons compared to transcript variant 1. It uses the same translation start site as variant 1, however, the first missing exon throws it out of frame, and the second missing exon puts it back in frame, resulting in a shorter isoform (2) with a novel 28 aa segment compared to isoform 1.