

Product datasheet for **SC107795**

PRMT1 (NM_198318) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRMT1 (NM_198318) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRMT1
Synonyms:	ANM1; HCP1; HRMT1L2; IR1B4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC107795 sequence for NM_198318 edited (data generated by NextGen Sequencing)

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ATGGCGCAGCCGAGGCCGCAACTGCATCATGGAGGTGCTCTGTGGCCAGGCGGAAAGC
AGTGAGAAGCCCAACGCTGAGGACATGACATCCAAAGATTACTACTTTGACTCCTACGCA
CACTTTGGCATCCACGAGGAGATGCTGAAGGACGAGGTGCGCACCCCTCACTTACCGCAAC
TCCATGTTTCATAACCGGCACCTCTTCAAGGACAAGGTGGTGCTGGACGTCGGCTCGGGC
ACCGGCATCCTCTGCATGTTTGCTGCCAAGGCCGGGGCCCGCAAGGTCATCGGGATCGAG
TGTTCCAGTATCTCTGATTATGCGGTGAAGATCGTCAAAGCCAACAAGTTAGACCACGTG
GTGACCATCATCAAGGGGAAGGTGGAGGAGGTGGAGCTCCAGTGGAGAAGGTGGACATC
ATCATCAGCGAGTGGATGGGCTACTGCCTCTTCTACGAGTCCATGCTCAACACCGTGCTC
TATGCCCGGACAAAGTGGCTGGCGCCCGATGGCCTCATCTTCCAGACCGGGCCACGCTG
TATGTGACGGCCATCGAGGACCGCAGTACAAAGACTACAAGATCCACTGGTGGGAGAAC
GTGATGGCTTCGACATGTCTTGATCAAAAGATGTGGCCATTAAGGAGCCCTAGTGGAT
GTCGTGGACCCCAACAGCTGGTCACCAACGCCTGCCTCATAAAGGAGGTGGACATCTAT
ACCGTCAAGGTGGAAGACCTGACCTTACCTCCCCGTTTGCCTGCAAGTGAAGCGGAAT
GACTACGTGCACGCCCTGGTGGCCTACTTCAACATCGAGTTCACACGCTGCCACAAGAGG
ACCGGCTTCTCCACCAGCCCCGAGTCCCCGTACACGCACTGGAAGCAGACGGTGTCTAC
ATGGAGGACTACCTGACCGTGAAGACGGGCGAGGAGATCTCGGCACCATCGGCATGCGG
CCCAACGCCAAGAACAACCGGGACCTGGACTTCACCATCGACTGGACTTCAAGGGCCAG
CTGTGCGAGCTGTCTGCTCCACCGACTACCGGATGCGCTGA
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Clone variation with respect to NM_198318.3



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_198318 unedited ATTTGTAATACGACTCACTATAGGGCGGCCGNGATTCCGGCACGAGGGTGAAGATGGCGG CAGCCGAGGCCGCGAACTGCATCATGGAGGTGCTCTGTGGCCAGGCGGAAAGCAGTGAGA AGCCCAACGCTGAGGACATGACATCCAAAGATTACTACTTTGACTCCTACGCACACTTTG GCATCCACGAGGAGATGCTGAAGGACGAGGTGCGCACCCCTCACTACC GCAACTCCATGT TTCATAACCGGCACCTCTTCAAGGACAAGGTGGTGTGGACGTCGGCTCGGGCACCGGCA TCCTCTGCATGTTTGTGCCAAGGCCGGGCCCGCAAGGTCATCGGGATCGAGTGTCCA GTATCTCTGATTATGCGGTGAAGATCGTCAAAGCCAACAAGTTAGACCAGTGGTGACCA TCATCAAGGGGAAGGTGGAGGAGGTGGAGCTCCAGTGGAGAAGGTGGACATCATCATCA GCGAGTGGATGGGCTACTGCCTCTTCTACGAGTCCATGCTCAACACCGTGTCTATGCC GGGACAAGTGGCTGGCGCCGATGGCTCATCTCCAGACCGGGCCACGCTGTATGTGA CGGCCATCGAGGACCGGCAGTACAAGACCTACAGATCCACTGGTGGGAGAACGTGTATG GCTTCGACATGTCTTGCATANAGATGTGGCCATTANGGAGCCCTAGTGGATGTCGTGGA CCCCCAACAGCTGGTCACCAACGCCTGCCTCATNANGGAGGTGGACATCTATACCGTCAG GTGGAAGACCTGACCTTTCACCTCCCCGTNNNCTGCTGCAGTGAAGCGAATGACTACGTG CACGCCCTGGTTGGCCTACTTCACATCGAGTTCACACGCTGCACAAGAGGACCGGCTTCT CCACAGNCCCAGATCN
Restriction Sites:	NotI-NotI
ACCN:	NM_198318
Insert Size:	1450 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).
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:	<ol style="list-style-type: none"> 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:	<u>NM_198318.1</u> , <u>NP_938074.1</u>
RefSeq Size:	1262 bp
RefSeq ORF:	1032 bp
Locus ID:	3276
UniProt ID:	<u>Q99873</u>
Cytogenetics:	19q13.33

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]

Transcript Variant: This variant (3) lacks an exon in the coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (3) is shorter than isoform 1.