

Product datasheet for **SC121581**

PRMT4 (CARM1) (NM_199141) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRMT4 (CARM1) (NM_199141) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRMT4
Synonyms:	PRMT4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_199141, the custom clone sequence may differ by one or more nucleotides

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ATGGCAGCGGCGGCGGCGGCGGTGGGGCCGGGCGGCGGCGGGTCCGGCGGTCCGGGCGGCGGG
GGCCCTGCGCTACCGTGTGCGTGTCCCGGCGCCCGCCTCCTCACCATCGGCGACGCGAACGGCGAGAT
CCAGCGGCACCGGAGCAGCAGGCGCTGCGCCTCGAGGTGCGCGCCGGCCGACTCGGCGGGCATCGCC
CTCTACAGCCATGAAGATGTGTGTCTTTAAGTGCTCAGTGTCCGAGAGACAGAGTGCAGCCGTGTGG
GCAAGCAGTCCTTCATCATCACCCCTGGGCTGCAACAGCGTCTCATCCAGTTCGCGCACACCCAACGATTT
CTGTTCTCTTACAACATCCTGAAAACCTGCCGGGGCCACACCCTGGAGCGGTCTGTGTTAGCGAGCGG
ACGGAGGAGTCTTCTGCCGTGCACTACTCCAGTTTTATGGTACCTGTCCAGCAGCAGAACATGATGC
AGGACTACGTGCGGACAGGCACCTACCAGCGGCCATCCTGAAAACACACCGACTTCAAGGACAAGAT
CGTTCTTGATGTTGGCTGTGGCTCTGGGATCCTGTCGTTTTTGGCGCCAAGCTGGAGCACGAAAATC
TACGGGTGGAGGCCAGCACCATGGCCAGCACGCTGAGGTCTTGGTGAAGAGTAACAACCTGACGGACC
GCATCGTGGTCATCCCGGCAAGGTGGAGGAGGTGCTACTCCCGAGCAGGTGGACATCATCTCGGA
GCCATGGGCTACATGCTCTTCAACGAGCGCATGCTGGAGAGCTACCTCCACGCCAAGAAGTACCTGAAG
CCCAGCGAAAACATGTTTCTACCATGGTGACGTCCACCTTGCACCCCTTACGGATGAACAGCTCTACA
TGGAGCAGTTCACCAAGGCCAATTCTGGTACCAGCCATCTTTCATGGAGTGGACCTGTGCGCCCTCCG
AGGTGCCGCGGTGGATGAGTATTTCCGGCAGCCTGTGGTGGACACATTTGACATCCGGATCCTGATGGCC
AAGTCTGTCAAGTACACGGTGAACCTTTAGAAGCCAAAGAAGGAGATTTGCACAGGATAGAAAATCCCAT
TCAAATCCACATGCTGCATTAGGGCTGGTCCACGGCCTGGCTTTCTGGTTTGACGTTGCTTTTCATCGG
CTCCATAATGACCGTGTGGCTGTCCACAGCCCCGACAGAGCCCCGACCCACTGGTACCAGGTGCGGTGC
CTGTTCCAGTACCACCTGTTCCGAAGGCAGGGACACGCTCTCAGGGACATGTCTGCTTATTGCCAACA
AAAGACAGAGCTACGACATCAGTATTGTGGCCAGGTGGACCAGACCGGCTCCAAGTCCAGTAACCTCCT
GGATCTGAAAAACCCCTTCTTTAGATACACGGGCAACAACGCCCTACCCCCACCCGGCTCCCACTACACA
TCTCCCTCGAAAAACATGTGGAACACGGGACAGCCTACAACCTCAGCAGCGGGATGGCCGTGGCAGGGA
TGCCGACCGCCTATGACTTGAGCAGTGTATTGCCAGTGGCTCCAGCGTGGGCCACAACAACCTGATTCC
TTAGCCAACACGGGGATTGTCAATCACACCCACTCCCGATGGGCTCCATAATGAGCACGGGGATTGTC
CAAGGGTCTCCGGCGCCAGGGCAGTGGTGGTGGCAGCAGAGTGGCCACTATGCAGTCAACAGCCAGT
TCACCATGGGCGGCCCCCATCTCCATGGCGTCGCCATGTCCATCCCGACCAACACCATGCACACTAGG
GAGCTAG
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_199141 unedited

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CCCCCCCCGTTGNCGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAG
CTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTTGCAGCGGCCGGAATT
CGGCACGAGGCAGCGGCGGCGGCGGGCCCTGGAGCCGGATCTAAGATGGCAGCGGCG
GCGGCGGCGGTGGGGCCGGGCGCGGGCGCGGGTCCGGCGGTCCCGGCGGCGCGGGG
CCCTGCGTACCCTGTGCGTGTCCCGGCGCCGCTCCTCACCATCGGCGACGCGAAC
GGCGAGATCCAGCGGCACGCGGAGCAGCAGGCGCTGCGCCTCGAGGTGCGCGCCGGCCCG
GACTCGGCGGGCATCGCCCTCTACAGCCATGAAGATGTGTGTCTTTAAGTGCTCAGTG
TCCCGAGAGACAGAGTGCAGCCGTGGGCAAGCAGTCTTCATCATCACCCCTGGGCTGC
AACAGCGTCTCATCCAGTTCGCCACACCAACGATTTCTGTTCTTCTACAACATCCTG
AAAACCTGCCGGGCCACACCCTGGAGCGGTCTGTGTTACGCGAGCGGACGGAGGAGTCT
TCTGCCGTGCAGTACTTCCAGTTTTATGGCTACCTGTCCAGCAGCAGAACATGATGCAG
GACTACGTGCGGACAGGCACCTACCAGCGCCATCCTGCANAACCACACCGACTTCAAG
GACCAGATCGTTCTTGATGTTGGCTGTGGCTCTGGGATCCTGTGCTTNTTTGCCGCCAA
GCTGNAGCACGGANATCTACGCNGTGGAGGCCAGCACCATGGNCCAGCACGCTGAGGTCT
TGGNTGAAAGAGTACAACCTGACGGACCGCATCGTGGTCAATCCCGGCGAGTGGAGGGAGG
TGTCACTCCCGAGCAGTGGACTCATCTCGGAGCCATGGGCTCATGCTCTTCCAGGAG
CGCTGCTGGAGAGCTACTCAGCCAGAGTACTGAGCCACGG
    
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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_199141 unedited NCATGGTGGCCGCGCCGATTCTAGGATCGGTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTGT AGGGAGAGGTCCCTGCAAGGTCCCTTCCCGGGCAGGGGAGGGATGGAAATGCCGTCACAG TAGTAGGGACTGGAGCGTCTACAAGGATGGAGGGGAGCTACTCAGGCCTAACGTTAGCTA CAAGGAAAAAGGACGCCTTCCGTGACAGATCCTTGAGGTGTCTGTGTCTGCCCAAGTGG CCGGCAGTGGCCTTCCCTCCGGGCCAAGGCCTGCAGCCACCTGCTCTAACTCTTGAGTG GGGGGCCGGGGGGGACCTGCAGGGGCTCGGGGACAGGACAGCAGCAAGAGGCAGGGGCC GAGGACGGAGGCCTTCCCGACAGTGGGGTGGGTTGACATTCAAGTGTGAGGTGAACCCT TTGGTGGGGAGGGNCCNNNNAANCNNNNNNNNNNCCNCNTCCCCNCCNCCTCNCN NCCCAACAACAANCCCTGCCNCTCCNCCNCCCCCCCCGGCTTACGGCNCNCCNCTGG TTTGACCTGGTTCTTTCTGTGCGGATAAAGTTAACAAGCATCATGTACCTACAGAT GTGCACCTTGCCAGTTCCTATTAAGGGAAGGCTATCCCCTGGCGGACATATCTTACCTT CTGAAAGACAGGCCAGAGGCGACATTTTGCTTATGGGACCTTAAGATGCCCAAGGCATTG ACCAAATAAATATGGGGTCCAGGGGTTTATTGAAGATGAACAATGCCCAACATCACGT TTAACACACCGCTCAAGCACGGTTGGTACCTAGTACCTCCCAACAACAAGAAGTTATG TCAATAAAAATATGCGAGGGGAATAACTCTACTCTTTTC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_199141
Insert Size:	2900 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	NM_199141.1 , NP_954592.1
RefSeq Size:	2968 bp

RefSeq ORF: 1827 bp

Locus ID: 10498

UniProt ID: [Q86X55](#)

Cytogenetics: 19p13.2

Protein Families: Druggable Genome, Transcription Factors

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 specifically on histones and other chromatin-associated proteins and is involved in regulation of gene expression. The enzyme may act in association with other proteins or within multi-protein complexes and may play a role in cell type-specific functions and cell lineage specification. A related pseudogene is located on chromosome 9. [provided by RefSeq, Aug 2013]