

Product datasheet for **SC125318**

PRMT7 (NM_019023) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRMT7 (NM_019023) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRMT7
Synonyms:	SBIDDS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC125318 sequence for NM_019023 edited (data generated by NextGen Sequencing)

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ATGAAGATCTTCTGCAGTCGGGCCAATCCGACCACGGGGTCTGTGGAGTGGCTGGRGGAG
GATGAACACTATGATTACCACCAGGAGATTGCAAGGTCATCTTATGCAGATATGCTACAT
GACAAAGACAGAAATGTAAAATACTACCAAGGTATCCGGGCTGCCGTGAGCAGGGTGAAG
GACAGAGGACAGAAGGCCTTGGTTCTCGACATTGGCACTGGCACGGGACTCTTGTCAATG
ATGGCGGTCCACAGCAGGTGCCGACTTCTGCTATGCCATCGAGGTTTTCAAGCCTATGGCT
GATGCTGCTGTGAAGATTGTGGAGAAAAATGGCTTTAGTGATAAGATTAAGGTTATCAAC
AAGCATTCCACCCAGGTGACTGTAGGTCCAGAGGGTGACATGCCATGCCGTGCCAACATC
CTGGTCCACAGAGTTGTTTGACACAGAGCTGATCGGGGAGGGGGCCTGCCCTCCTATGAG
CACGCACACAGGCATCTCGTGGAGGAAAATTGTGAGGCCGTGCCCCACAGAGCCACCGTC
TATGCACAGCTGGTGGAGTCCGGGAGGATGTGGTCTGGAACAAGCTATTTCCCATCCAC
GTGCAGACCAGCCTCGGAGAGCAGGTATCGTCCCTCCCGTTGACGTGGAGAGCTGCCCT
GGCGCACCTCTGTCTGTGACATTGAGTGAACCAGGTGTACCAGCCGACTTTACAGTC
CTCAGCGATGTGCTGCCATGTTGAGCATAGACTTCAGCAAGCAAGTCAGTAGCTCAGCA
GCCTGCCATAGCAGGCGGTTTGAACCTCTGACATCTGGCCGAGCTCAGGTGGTTCTCTCG
TGGTGGGACATTGAAATGGACCCCTGAGGGGAAGATCAAGTGCACCATGGCCCCCTTCTGG
GCACACTCAGACCAGAGGAGATGCAGTGGCGGGACCACTGGATGCAGTGTGTACTTC
CTGCCACAAGAGGAGCCTGTGGTGCAGGGCTCAGCGCTCTATCTGGTAGCCACACGAT
GACTACTGCGTATGGTACAGCCTGCAGAGGACCAGCCCTGAAAAGAATGAGAGAGTCCGC
CAGATGCGCCCGTGTGTGACTGCCAGGCTCACCTGCTCTGGAACCGCCTCGGTTTGA
GAGATCAATGACCAGGACAGAAGTATCGATACGTCCAGGCTCTGAGGACCGTGTGAAG
CCAGACAGCGTGTGCTGTGTGTCAGCGATGGCAGCCTGCTCTCGGTGCTGGCCATCAC
CTGGGGGTGGAGCAGGTGTTTACAGTCGAGAGTTCAGCAGCTTCTCACAAACTGTTGAGA
AAAATCTTCAAGGCTAACCACTTGGAAAGATAAAATTAACATCATAGAGAAACGGCCGAA
TTATTAACAAATGAGGACCTACAGGGCAGAAAGTCTCTCTCCTCTGGGCGAGCCGTTT
TTCCTACCAGCCTGCTGCCGTGGCACAACCTCTACTTCTGGTACGTGCGGACCGCTGTG
GACCAGCACCTGGGGCCAGGTGCCATGGTATGCCCCAGGCAGCCTCGCTGCACGCTGTG
GTTGTGGAGTTCAGGGACCTGTGGCGGATCCGGAGCCCTGTGGTACTGCGAAGGCTTC
GACGTGCACATCATGGACGACATGATTAAGCGTGCCCTGGACTTCAGGGAGAGCAGGGAA
GCTGAGCCCCACCGCTGTGGGAGTACCCATGCCGCAGCCTCTCCGAGCCCTGGCAGATC
CTGACCTTTGACTTCCAGCAGCCGGTCCCTGCAGCCCTGTGTGCCGAGGGCACTGTG
GAGCTCAGAAGGCCCGGGCAGAGCCACGCAGCGGTGCTATGGATGGAGTACCACCTGACC
CCGGAGTGCACGCTCAGCACTGGCTCCTGGAGCCTGCAGACCCCGAGGGGGGCTGCTGC
TGGAACCCCACTGCAAGCAGGCCGTCTACTTCTTCCAGCCCTGCCCCAGATCCCAGAGCA
CTGCTGGGTGGCCACGGACTGTGAGTATGCAGTGGAGTTTACCCCGACACAGGGCAG
ATCATCATGGAGTTCAGGCATGCAGATACCCAGACTGA

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Clone variation with respect to NM_019023.2
56 a=>r;1797 c=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_019023 unedited
 GGGCGGTCAGGAATTGTATACGACTCACTATAGGCGGCCGCAATTCGCACGAGCCCGCC
 TGCTGGCCCGGTAAAATGGTAGCAGCGGAGGCGAGCGGAGGGTTTCCCGCGCGGGTGA
 GGCGCTGGATTTCTGACAGTCAGACTTGTCCACAAGAACAACCTGGAAGGCTGCTTTT
 CTGTGCTAAAACCTGGGGAGCTAGTGGGCACCATGAAGATCTTCTGCAGTCGGGCCAATCC
 GACCACGGGGTCTGTGGAGTGGCTGGAGGAGGATGAACACTATGATTACCACCAGGAGAT
 TGCAAGGTCATCTTATGCAGATATGCTACATGACAAAGACAGAAATGTAAAATACTACCA
 AGGTATCCGGGCTGCCGTGAGCAGGGTGAAGGACAGAGGACAGAAGGCCTTGGTTCTCGA
 CATTGGCACTGGCACGGGACTCTGTCAATGATGGCGGTCACAGCAGGTGCCGACTTCTG
 CTATGCCATCGAGGTTTTCAAGCCTATGGCTGATGCTGCTGTGAAGATTGTGGAGAAAAA
 TGGCTTTAGTGATAAGATTAAGTTATCAACAAGCATTCCACCGAGGTGACTGTAGGTCC
 AGAGGGTGACATGCCATGCCGTGCCAACATCCTGGTCACAGAGTTGTTTGACACAACCTGG
 ATCGGGGAGGGGGCGCTGCCCTCCTATGAGCACGCACACAGGCATCTCGTGGAGGAAAAT
 TGTGAGGCCGTGCCCCACAGAGCCACCGTCTATGCACAGCTGGNTGGAGTCCGGNAAGAT
 GTNGTTCTGTGGAACAAGCTATTTCCATNCACGTGCAGACCAGCCTCGNAGAAGCAGTCAT
 CGTCCCTCCCGTTGACGTGNAGAGCTGCCCTGGCGCACCTCTGTCTGTGACATTCAGCT
 GAACCCAGTGTCACCAN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_019023 unedited
 TTCCTCAGGCCACTTTATGCTCAGNATGGTCAGTCTGGGGTATCTGCATGCCTGAACTCC
 ATGATGATGTCGCTGTGTGGGGTGAACCTCCACTGCATAGCTGACAGTCCGTGGGCCA
 CCCAGCAGTGCTCTGGGATCTGGGGCAGGGCTGAAGAAGTAGACGGCCTGCTTGCAGTGG
 GGGTTCCAGCAGCAGCCCCCTCGGGTCTGCAGGCTCCAGGAGGCCAGTCTGAGCGTG
 CACTCCGGGGTCAAGTGGTACTCCATCCATAGCACCGCTGCGTGGCTCTGCCCGGGCCTT
 CTGAGCTCCACAGTGCCTCGGCACACAGGGGCTGCAGGGGCACCGGCTGCTGGAAGTCA
 AAGGTCAGGATCTGCCAGGGCTCGGAGAGGCTGCGGCATGGGTAATCCCACAGCGGGTGG
 GGCTCAGTTCCCTGCTCCCTGAAGTCCAGGGCACGCTTAATCATGTCGTCCATGATG
 TGCACGTGAAGCCTTCGAGTCACCACAGGGGCTCCGGATCCGCCACAGTCCCTGAAC
 TCCACAACCACAGCGTGCAGCGAGGCTGCCTGGGGCATCACCATGGCACCTGGCCNCAGG
 TGCTGGTCCACAGCGGTCCGCACGTACCAGAAGTAGAGGTTGTGCCACGGCAGCAGGCTG
 GTAGTGAAGAACGGCTCGCCAGNANGAGAGACCCTTCTGCCCTGTANGTCTCATT
 GTTAATAATTCCCGCGTTTCTCTATGATGGTAATTTNTATCTCCAAGTGGTTAGCCTTG
 AAAGATTTTCTCACAGTTTGTGAGGAGCTGCTGAACTCTCGACTGTAAACACCCTGCTCA
 CCCCCAGGTGATGGCCAGCACCAGAGCAGGCTGCATCGCTGACCCCAAGCCACGCTGG
 CTGGGTTCAGAACGGTCTCAGACCTGGACTTTCGATCAGTTCTGTCTGTCAA

Restriction Sites:

ECoRI-NOT

ACCN:

NM_019023

Insert Size:

2500 bp

OTI Disclaimer: 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.

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](#)

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_019023.1](#), [NP_061896.1](#)

RefSeq Size: 2390 bp

RefSeq ORF: 2079 bp

Locus ID: 54496

UniProt ID: [Q9NVM4](#)

Cytogenetics: 16q22.1

Protein Families: Druggable Genome

Gene Summary:

This gene encodes a member of the protein arginine N-methyltransferase family of proteins. The encoded enzyme transfers single methyl groups to arginine residues to generate monomethylarginines on histone proteins as well as other protein substrates. This enzyme plays a role in a wide range of biological processes, including neuronal differentiation, male germ line imprinting, small nuclear ribonucleoprotein biogenesis, and regulation of the Wnt signaling pathway. Mutations in this gene underlie multiple related syndromes in human patients characterized by intellectual disability, short stature and other features. The encoded protein may promote breast cancer cell invasion and metastasis in human patients. [provided by RefSeq, May 2017]

Transcript Variant: This variant (1) includes a 3' terminal exon that extends past a splice site that is used in variant 4, which results in a novel 3' coding region and 3' UTR compared to variant 4. The encoded isoform (1) is shorter and has a distinct C-terminus compared to isoform 4. Both variants 1 and 3 encode the same isoform (1).