

## Product datasheet for **SC323779**

### 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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_019023.1  
 GGATTTCTGACAGTCAGACTTGTCCACAAGAACTCAACTGGCAAGGCTGCTTTTCTGTGC  
 TAAAACTGGGGAGCTAGTGGGCACCATGAAGATCTTCTGCAGTCGGGCCAATCCGACCAC  
 GGGGTCTGTGGAGTGGCTGGAGGAGGATGAACACTATGATTACCACCAGGAGATTGCAAG  
 GTCATCTTATGCAGATATGCTACATGACAAAGACAGAAATGTAAAATACTACCAAGGTAT  
 CCGGGCTGCCGTGAGCAGGGTGAAGGACAGAGGACAGAAGGCCTTGGTTCTCGACATTGG  
 CACTGGCACGGGACTCTTGTCAATGATGGCGGTACAGCAGGTGCCGACTTCTGCTATGC  
 CATCGAGGTTTTCAAGCCTATGGCTGATGCTGCTGTGAAGATTGTGGAGAAAAATGGCTT  
 TAGTGATAAGATTAAGGTTATCAACAAGCATTCCACCGAGGTGACTGTAGGTCCAGAGGG  
 TGACATGCCATGCCGTGCCAACATCCTGGTCACAGAGTTGTTTGACACAGAGCTGATCGG  
 GGAGGGGGCGCTGCCCTCTATGAGCACGCACACAGGCATCTCGTGGAGGAAAATTGTGA  
 GGCCGTGCCCCACAGAGCCACCGTCTATGCACAGCTGGTGGAGTCCGGGAGGATGTGGTC  
 GTGGAACAAGCTATTTCCATCCACGTGCAGACCAGCCTCGGAGAGCAGGTATCGTCCC  
 TCCCGTTGACGTGGAGAGCTGCCCTGGCGACCCTCTGTCTGTGACATTCAGCTGAACCA  
 GGTGTCACCAGCCGACTTACAGTCCTCAGCGATGTGCTGCCCATGTTTCAGCATAGACTT  
 CAGCAAGCAAGTCAGTAGCTCAGCAGCCTGCCATAGCAGGCGGTTTGAACCTCTGACATC  
 TGGCCGAGCTCAGGTGGTTCTCTCGTGGTGGGACATTGAAATGGACCCTGAGGGGAAGAT  
 CAAGTGCACCATGGCCCCCTTCTGGGCACACTCAGACCCAGAGGAGATGCAGTGGCGGGA  
 CCACTGGATGCAGTGTGTACTTCTGCCACAAGAGGAGCCTGTGGTGCAGGGCTCAGC  
 GCTCTATCTGGTAGCCACCACGATGACTACTGCGTATGGTACAGCCTGCAGAGGACCAG  
 CCCTGAAAAGAATGAGAGAGTCCGCCAGATGCGCCCCGTGTGTGACTGCCAGGCTCACCT  
 GCTCTGGAACCGGCTCGGTTTGGAGAGATCAATGACCAGGACAGAACTGATCGATACGT  
 CCAGGCTCTGAGGACCGTGTGAAGCCAGACAGCGTGTGCCTGTGTGTCAGCGATGGCAG  
 CCTGCTCTCCGTGCGCCATCACCTGGGGTGGAGCAGGTGTTTACAGTCGAGAGTTC  
 AGCAGCTTCTCACAAACTGTTGAGAAAAATCTTCAAGGCTAACCACTTGGAAAGATAAAAT  
 TAACATCATAGAGAAACGGCCGGAATTATTAACAATGAGGACCTACAGGGCAGAAAGGT  
 CTCTCTCCTCGGGCGAGCCGTTCTTCACTACCAGCCTGCTGCCGTGGCACAACCTCTA  
 CTTCTGGTACGTGCGGACCCTGTGGACCAGCACCTGGGGCCAGGTGCCATGGTATGCC  
 CCAGGCAGCCTCGCTGCACGCTGTGGTTGTGGAGTTCAGGGACCTGTGGCGGATCCGGAG  
 CCCCTGTGGTACTGCGAAGGCTTCGACGTGCACATCATGGACGACATGATTAAGCGTGC  
 CCTGGACTTCAGGGAGAGCAGGGAAGCTGAGCCCCACCCGCTGTGGGAGTACCCATGCCG  
 CAGCCTCTCCGAGCCCTGGCAGATCCTGACCTTTGACTTCCAGCAGCCGCTGCCCTGCA  
 GCCCTGTGTGCCGAGGGCACTGTGGAGCTCAGAAGGCCCGGGCAGAGCCACGCAGCGGT  
 GCTATGGATGGAGTACCACCTGACCCCGGAGTGCACGCTCAGCACTGGCCTCCTGGAGCC  
 TGCAGACCCCGAGGGGGCTGCTGCTGGAACCCCACTGCAAGCAGGCCGTCTACTTCTT  
 CAGCCCTGCCCGAGATCCCAGAGCACTGCTGGTGGCCACGGACTGTCAGCTATGCAGT  
 GGAGTTTACCCCGACACAGGCGACATCATCATGGAGTTCAGGCATGCAGATACCCGAGA  
 CTGACCACTCTTGAGCAATAAAAAGGGCCTGAGGGCTGGGAAAAAAAAAAAAAAAAAACC  
 AAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** ECoRI-NOT  
**ACCN:** NM\_019023

**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](mailto: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](#)

**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\\_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).