

## Product datasheet for **SC337214**

### PRMT7 (NM\_001290018) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PRMT7 (NM_001290018) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRMT7
Synonyms:	SBIDDS
Vector:	<u>pCMV6 series</u>



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001290018, the custom clone sequence may differ by one or more nucleotides

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ATGAAGATCTTCTGCAGTCGGGCCAATCCGACCACGGGGTCTGTGGAGTGGCTGGAGGAGGATGAACACT
ATGATTACCACCAGGAGATTGCAAGGTCATCTTATGCAGATATGCTACATGACAAAGACAGAAATGTAAA
ATACTACCAAGGTATCCGGGCTGCCGTGAGCAGGGTGAAGGACAGAGGACAGAAGGCCTTGTTCTCGAC
ATTGGCACTGGCACGGGACTCTTGTCAATGATGGCGGTCACAGCAGGTGCCGACTTCTGCTATGCCATCG
AGGTTTTCAAGCCTATGGCTGATGCTGTGTAAGATTGTGGAGAAAAATGGCTTATAGTATAAGATTAA
GGTTATCAACAAGCATTCCACCGAGGTGACTGTAGGTCCAGAGGGTGACATGCCATGCCGTGCCAACATC
CTGGTCACAGAGTTGTTTGACACAGAGCTGATCGGGGAGGGGGCCTGCCCTCCTATGAGCACGCACACA
GGCATCTCGTGGAGAAAATTGTGAGGCCGTGCCCCACAGAGCCACCGTCTATGCACAGCTGGTGGAGTC
CGGGAGGATGTGGTCGTGGAACAAGCTATTTCCCATCCACGTGCAGACCAGCCTCGGAGAGCAGGTATC
GTCCCTCCGTTGACGTGGAGAGCTGCCCTGGCGCACCTCTGTCTGTGACATTCAGCTGAACCAGGTGT
CACCAGCCGACTTACAGTCCTCAGCGATGTGCTGCCATGTTTACAGATAGACTTCAGCAAGCAAGTCAG
TAGCTCAGCAGCCTGCCATAGCAGGCGGTTTGAACCTCTGACATCTGGCCGAGCTCAGGTGGTTCTCTCG
TGGTGGGACATTGAAATGGACCCTGAGGGGAAGATCAAGTGCACCATGGCCCCCTTCTGGGCACACTCAG
ACCCAGAGGAGATGCAGTGGCGGGACCACTGGATGCAGTGTGTACTTCTGCCACAAGAGGAGCCTGT
GGTGCAGGGCTCAGCGCTCTATCTGGTAGCCACCACGATGACTACTGCGTATGGTACAGCCTGCAGAGG
ACCAGCCCTGAAAAGAATGAGAGAGTCCGCCAGATGCGCCCCGTGTGTGACTGCCAGGCTCACCTGCTCT
GGAACCGCCTCGGTTTGGAGAGATCAATGACCAGGACAGAACTGATCGATACGTCCAGGCTCTGAGGAC
CGTGTGAAGCCAGACAGCGTGTGCCTGTGTGTCAGCGATGGCAGCCTGCTCTCCGTGCTGGCCATCAC
CTGGGGGTGGAGCAGGTGTTTACAGTCGAGAGTTCAGCAGCTTCTCACAAACTGTTGAGAAAAATCTTCA
AGGCTAACCACTTGAAGATAAAAATTAACATCATAGAGAAACGGCCGGAATTATTAACAAATGAGGACCT
ACAGGGCAGAAAAGGTCTCTCTCCTCCTGGCGAGCCGTTCTTCACTACCAGCCTGCTGCCGTGGCACAAC
CTCTACTTCTGGTACGTGCGGACCCTGTGGACCAGCACCTGGGGCCAGGTGCCATGGTGTATGCCCCAGG
CAGCCTCGCTGCACGCTGTGGTTGTGGAGTTCAGGGACCTGTGGCGGATCCGGAGCCCCTGTGGTACTG
CGAAGGCTTCGACGTGCACATCATGGACGACATGATTAAGCGTGCCTGGACTTCAGGGAGAGCAGGGAA
GCTGAGCCCCACCGCTGTGGGAGTACCATGCCGCAGCCTCTCCGAGCCCTGGCAGATCCTGACCTTTG
ACTTCCAGCAGCCGTTGCCCTGCAGCCCTGTGTGCCGAGGGCACCGTGGAGCTCAGAAGGCCCGGGCA
GAGCCACGCAGCGGTGCTATGGATGGAGTACCACCTGACCCCGGAGTGCACGCTCAGCACTGGCCTCCTG
GAGCCTGCAGACCCCGAGGGGGCTGCTGCTGGAACCCCACTGCAAGCAGGCCGTCTACTTCTCAGCC
CTGCCCAAGATCCAGAGCACTGCTGGGTGGCCACGGACTGTACGCTATGCAGTGGAGTTTACCCCGA
CACAGGGACATCATATGGAGTTCAGGCATGCAGATACCCAGACTGA
```

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_001290018

**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:**

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\\_001290018.1](#), [NP\\_001276947.1](#)

**RefSeq Size:** 2984 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 (3) differs in the 5' UTR and its 3' terminal exon 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).