

## Product datasheet for **SC107794**

### PRMT1 (NM\_198319) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | PRMT1 (NM_198319) Human Untagged Clone  |
| Tag:                      | Tag Free  |
| Symbol:                   | PRMT1   |
| Synonyms:                 | 6720434D09Rik; ANM1; arginine N-methyltransferase 1; AW214366; HCP1; heterogeneous nuclear ribonucleoproteins methyltransferase-like 2; HRMT1L2; Hrmt1I2; IR1B4; Mrmt1; OTTMUSP0000022387; protein arginine N-methyltransferase 1 |
| Mammalian Cell Selection: | None  |
| Vector:                   | <u>pCMV6-XL5</u>  |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| Fully Sequenced ORF:      | >OriGene ORF sequence for NM_198319 edited  |

```
ATGGAGAATTTTGTAGCCACCTTGGCTAATGGGATGAGCCTCCAGCCGCCTTTGAAGAA  
GTAACCCCTTTGCCCTTCCCTGTGTCTGCCCATTTTCTTCCCCTCCCCTCCCAGC  
TGTGGCTGAGCTAGAGACGGGGTCAGAGAGACTGGAGAGATGGTAGGCGTGGCTGAGGT  
GTCCTGTGGCCAGCGGAAAGCAGTGAGAAGCCCAACGCTGAGGACATGACATCCAAAGA  
TTACTACTTTGACTCCTACGCACACTTTGGCATCCACGAGGAGATGCTGAAGGACGAGGT  
GCGCACCTCACTTACCGCACTCCATGTTTCATAACCGGCACCTTTCAAGACAAGGT  
GGTGCTGGACGTCGGCTCGGGCACCGGCATCCTCTGCATGTTTGTGCTGCAAGCCGGGGC  
CCGCAAGGTCATCGGGATCGAGTGTCCAGTATCTCTGATTATGCGGTGAAGATCGTCAA  
AGCCAACAAGTTAGACCACGTGGTGACCATCATCAAGGGGAAGGTGGAGGAGGTGGAGCT  
CCCAGTGGAGAAGGTGGACATCATCAGCGAGTGGATGGGCTACTGCCTTTCTACGA  
GTCCATGCTCAACACCGTGTCTATGCCCGGGACAAGTGGCTGGCGCCGATGGCCTCAT  
CTTCCCAGACCGGGCCACGCTGTATGTGACGGCCATCGAGGACCGGCAGTACAAAGACTA  
CAAGATCCACTGGTGGGAGAACGTGTATGGCTTCGACATGTCTTGCATCAAAGATGTGGC  
CATTAAAGGAGCCCTAGTGGATGTCGTGGACCCCAACAGCTGGTCACCAACGCCTGCCT  
CATAAAGGAGGTGGACATCTATACCGTCAAGGTGGAAGACCTGACCTTACCTCCCCTGTT  
CTGCCTGCAAGTGAAGCGGAATGACTACGTGCACGCCCTGGTGGCCTACTTCAACATCGA  
GTTACACGCTGCCACAAGAGGACCGGCTTCTCCACCAGCCCCGAGTCCCCTGACACGCA  
CTGGAAGCAGACGGTGTCTACATGGAGGACTACCTGACCGTGAAGACGGGCGAGGAGAT  
CTTCGGCACCATCGGCATGCGGCCAACGCCAAGAACAACCGGGACCTGGACTTACCAT  
CGACCTGGACTTCAAGGGCCAGCTGTGCGAGCTGTCTGCTCCACCGACTACCGGATGCG  
CTGA
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_198319 unedited  
 GGTANGAATAGTATACGACTCCTATAGGCGGCCGCGAAATTCGCACGAGGGCGGCCGGT  
 AGAGGAGTAGGTGCGGGTGAAGATGGCGGCAGCCGAGGCCGGAAGTGCATCATGGAGAA  
 TTTTGTAGCCACCTTGGCTAATGGGATGAGCCTCCAGCCGCTCTTGAAGAAGTAACCCC  
 CTTTGCCTTCCCTGTGTCTGCCCCATTTTCTTCCCCTCCCCTCCCAGCTGTGGGT  
 GAGCTAGAGACGGGGTCAGAGAGACTGGAGAGATGGTAGGCGTGGCTGAGGTGTCCTGTG  
 GCCAGGCCGAAAGCAGTGAGAAGCCCAACGCTGAGGACATGACATCCAAGATTACTACT  
 TTGACTCCTACGCACACTTTGGCATCCACGAGGAGATGCTGAAGGACGAGGTGCGCACCC  
 TCACTTACCGCAACTCCATGTTTCATAACCGGCACCTCTTCAAGGACAAGGTGGTCTGG  
 ACGTCGGCTCGGGCACCGGCATCCTCTGCATGTTTGTGCCAAGGCCGGGGCCGCAAGG  
 TCATCGGGATCGAGTGTCCAGTATCTCTGATTATGCGGTGAAGATCGTCAAAGCCAACA  
 AGTTAGACCACGTGGTGACCATCATCANAGNGAANGTGGAGGANGTGGAGCTCCCAGTGG  
 AGAAGGTGGACATCATCATCAGCGAGTGGATGGGCTACTGCCTTCTACGAGTCCATGC  
 TCAACACCCGTGCTCTATGCCCCGNACAAGTTGGCTGCGCCGATGGCCTCATCTTCCC  
 AGACCGGGCCACGCTGTATGTGACNGCCATCGAGGACCCGAGTACAAAGACTACCAGAT  
 CCACTGTTGGGAGAACGTGTATGCCTNCGACATGTCTTGCATCAAAGATGTGGCCACTAA  
 AGAGC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_198319 unedited  
 CCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTCCCAGCTGAGGATTTATTGGCGTA  
 AATGCAACCATATAAAAAACATAAGTTATGAAAAACACAGTCACGATGTGCCCTCCCATC  
 CCCCCAGCCAGGCCCTAAAACCCCTTCTGCGGGAGGGAGGGAGAGGAAGGGGGAGCC  
 CCGAAACCGCCTAGGAACGCTCAGCCCCGTTGGCTCGTGCAGGGCGGGAGAGCCGGGCCTC  
 AGCGCATCCGGTAGTCGGTGGAGCAGGACAGCTCGCACAGCTGGCCCTTGAAGTCCAGT  
 CGATGGTGAAGTCCAGGTCCCGTTGTTCTTGGCGTTGGCCGATGCCGATGGTGCCGA  
 AGATCTCCTCGCCGCTTACGGTTCAGGTAGTCTCCATGTAGAACACCGTCTGCTTCC  
 AGTGCCTGTACGGGGACTCGGGGCTGGTGGAGAAGCCGGTCTCTTGTGGCAGCGTGTGA  
 ACTCGATGTTGAAGTAGGCCACCAGGGCGTGCACGTAGTATTCCGCTTCACTTGCAGGC  
 AGAACGGGGAGGTGAAGTCCAGTCTTCCACCTTGACGGTATAGATGTCCACCTCCTTTA  
 TGAGGCAGGCGTTGGTGACCAGTGTGGGGTCCACGACATCCACTAGGGGGCTCCTTA  
 ATGGCCACATCTTTGATGCAAGACATGTCGAAGCCATACAGTTCTCCCCAGTGGGATC  
 TGTAGTCTTTGACTGCNCGTCTCGATGGCCGTACATACAGCGTGGCCCGTCTGGGAA  
 GAGAGGCCATCCGGCGCCAGCCACTTGTCCCGCATAGAGCACGGTGTGAGCTGGACTCG  
 TAAAAAGCAGTACCCATCCCTCCTGAGATGATGTACCTTCTCACTGGAGCTCACCTNCT  
 CCACTTCCCTGAGATGGCCACGGGNNCTACTGTGTTTTCGATCTACCGATATA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_198319

**Insert Size:**

1550 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:**

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\\_198319.1](#), [NP\\_938075.1](#)

**RefSeq Size:** 1435 bp

**RefSeq ORF:** 1044 bp

**Locus ID:** 3276

**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]