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# Product datasheet for SC111320

## PRMT6 (NM_018137) Human Untagged Clone

### Product data:

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|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | PRMT6 (NM_018137) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | PRMT6 |
| **Synonyms:** | HRMT1L6 |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pCMV6-XL5 |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |
| **Fully Sequenced ORF:** | >NCBI ORF sequence for NM_018137, the custom clone sequence may differ by one or more nucleotides |

ATGTCGCAGCCCAAGAAAAGAAAGCTTGAGTCGGGGGGCGGCGGCGAAGGAGGGGAGGGAACTGAAGAGG
AAGATGGCGCGGAGCGGGAGGCGGCCCTGGAGCGACCCCGGAGGACTAAGCGGGAACGGGACCAGCTGTA
CTACGAGTGCTACTCGGACGTTTCGGTCCACGAGGAGATGATCGCGGACCGCGTCCGCACCGATGCCTAC
CGCCTGGGTATCCTTCGGAACTGGGCAGCACTGCGAGGCAAGACGGTACTGGACGTGGGCGCGGGCACCG
GCATTCTGAGCATCTTCTGTGCCCAGGCCGGGGCCCGGCGCGTGTACGCGGTAGAGGCCAGCGCCATCTG
GCAACAGGCCCGGGAGGTGGTGCGGTTCAACGGGCTGGAGGACCGGGTGCACGTCCTGCCGGGACCAGTG
GAGACTGTAGAGTTGCCGGAACAGGTGGATGCCATCGTGAGCGAGTGGATGGGCTACGGACTCCTGCACG
AGTCCATGCTGAGCTCCGTCCTCCACGCGCGAACCAAGTGGCTGAAGGAGGGCGGTCTTCTCCTGCCGGC
CTCCGCCGAGCTCTTCATAGCCCCCATCAGCGACCAGATGCTGGAATGGCGCCTGGGCTTCTGGAGCCAG
GTGAAGCAGCACTATGGTGTGGACATGAGCTGCCTGGAGGGCTTCGCCACGCGCTGTCTCATGGGCCACT
CGGAGATCGTTGTGCAGGGATTGTCCGGCGAGGACGTGCTGGCCCGGCCGCAGCGCTTTGCTCAGCTAGA
GCTCTCCCGCGCCGGCTTGGAGCAGGAGCTGGAGGCCGGAGTGGGCGGGCGCTTCCGCTGCAGCTGCTAT
GGCTCGGCGCCCATGCATGGCTTTGCCATCTGGTTCCAGGTGACCTTCCCTGGAGGGGAGTCGGAGAAAC
CCCTGGTGCTGTCCACCTCGCCTTTTCACCCGGCCACTCACTGGAAACAGGCGCTCCTCTACCTGAACGA
GCCGGTGCAAGTGGAGCAAGACACGGACGTTTCAGGAGAGATCACGCTGCTGCCCTCCCGGGACAACCCC
CGTCGCCTGCGCGTGCTGCTGCGCTACAAAGTGGGAGACCAGGAGGAGAAGACCAAAGACTTTGCCATGG
AGGACTGA


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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM_018137 unedited
NGGTTCACCATTTGTATCCGACTCACTATAGGCGGCCGCCGATTCGGCACGAGGGGGAAC
GGGACCAGCTGTACTACGAGTGCTACTCGGACGTTTCGGTCCACGAGGAGATGATCGCGG
ACCGCGTCCGCACCGATGCCTACCGCCTGGGTATCCTTCGGAACTGGGCAGCACTGCGAG
GCAAGACGGTACTGGACGTGGGCGCGGGCACCGGCATTCTGAGCATCTTCTGTGCCCAGG
CCGGGGCCCGGCGCGTGTACGCGGTAGAGGCCAGCGCCATCTGGCAACAGGCCCGGGAGG
TGGTGCGGTTCAACGGGCTGGAGGACCGGGTGCACGTCCTGCCGGGACCAGTGGAGACTG
TAGAGTTGCCGGAACAGGTGGATGCCATCGTGAGCGAGTGGATGGGCTACGGACTCCTGC
ACGAGTCCATGCTGAGCTCCGTCCTCCACGCGCGAACCAAGTGGCTGAAGGAGGGCGGTC
TTCTCCTGCCGGCCTCCGCCGAGCTCTTCATAGTCCCCATCAGCGACCAGATGCTGGAAT
GGCGCCTGGGCTTCTGGAGCCAGGTGAAGCAGCACTATGGTGTGGACATGAGCTGCCTGG
AGGGCTTCGCCACGCGCTGTCTCATGGGCCACTCGNAGATCGTTGTGCAGGGATTGTCCG
GCGAGGACGTGCTGGCCCGGCCGCAGCGCTNTGCTCAGCTAGAGCTCTCCCGCGCCGCCT
TGGAACCAGAGCTGGAGGCCGNAGTGGGCGGGCGCTTCCGCTGCAGCTGCTATGGCTCCG
CGCCCATGCCATGGTTTGCCATTTGGGTCCAGGTGACCTTCCCTGGAGGGGAGTCGGAGA
AACCCCTGGTGCTTGTCCACTNGCTCTTTTCACCCCGGCACTTACCTGAAACAGCGCTCC
TCTC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM_018137 unedited
GCCGCGGCCGCAATCTANGGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTAGTTTTTATAC
TCTAATACTTTAATATGCAATGAATAAAAGGGCAGAAAATTCAGAATTACAATAAATGTT
AGGCTATTTCAGAACACCAGTTTTTCACACCTATTTTCTTAGCATACAGAAGCTCGAAAA
TCATACATTAAGCATAGTTTGAATTGTCCTGAAGTTATATTCTGAAGGGGCTGTAACACT
TAAGAACTAATAATATTAAAAAGGCAAAAGCATTATAACTCACAGCACACAAGACTTTTT
ACCTCATCTATAAAACGTGAGAATGTCAATGTTTTATTGGCTACAAGGATAAGGAAGGAA
ACATCAGAGAAATAAATTTGATAACAAGATTCACACTTCATTACAAGTGATTTTCCTAAA
TTCACAACTTTCACATTTGGCTGAGTGAAAGAGAAAAACAAAACAAAACAAAACAAAACT
GAAAAGGGAACTTTCACTACTTGTAAGTAGGCCAACTCACATGATCCCTCCAAATGAGAG
AGTTTAAATGAGAATGAGTATACTTTTCTAGCTGGGAAAATATTTTCCTTAATTAAGTGA
GTTTAAATAATTTACCCATGGTGATGAATAAGCCCTTGGGCTAGGCTCAGAAACCTCCTC
TACCAGCCTGTTTCATAAGAATTACACAAATATTTTTATGGGACATACAAGAAATATTTT
TTGGTNTATATAGTAGAGACAAGAAATTTTAAAAATCCATACTATTTCTTTCAGGTCTCT
CTCTTAATGCACCTTCTGAGNTNCTTAGGTATGCTGTACAATACNAAGTCCATTTACTTA
CGGATNATGTNGTCATCAACTTAGCACCTATGAGTATGTGGTCGAGTATGAGACAGGGCT
TTTAACTGCTCCTCATTNCTTCCCTTTATACAGTATGGAGNTACTAG

**Restriction Sites:** NotI-NotI

**ACCN:** NM_018137

**Insert Size:** 2560 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).

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|---|---|
| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_018137.1, NP_060607.1 |
| **RefSeq Size:** | 2665 bp |
| **RefSeq ORF:** | 951 bp |
| **Locus ID:** | 55170 |
| **UniProt ID:** | Q96LA8 |
| **Cytogenetics:** | 1p13.3 |
| **Protein Families:** | Druggable Genome |
| **Gene Summary:** | The protein encoded by this gene belongs to the arginine N-methyltransferase family, which catalyze the sequential transfer of methyl group from S-adenosyl-L-methionine to the side chain nitrogens of arginine residues within proteins, to form methylated arginine derivatives and S-adenosyl-L-homocysteine. This protein can catalyze both, the formation of omega-N monomethylarginine and asymmetrical dimethylarginine, with a strong preference for the latter. It specifically mediates the asymmetric dimethylation of Arg2 of histone H3, and the methylated form represents a specific tag for epigenetic transcriptional repression. This protein also forms a complex with, and methylates DNA polymerase beta, resulting in stimulation of polymerase activity by enhancing DNA binding and processivity. [provided by RefSeq, Sep 2011] |