

Product datasheet for **RG209527**

PRMT6 (NM_018137) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PRMT6 (NM_018137) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PRMT6
Synonyms: HRMT1L6
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG209527 representing NM_018137
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATCGCGGACCGCGTCCGCACCGATGCCTACCGCCTGGGTATCCTTCGGAACGGGCAGCACTGCGAG
 GCAAGACGGTACTGGACGTGGGCGGGCACCGGCATTCTGAGCATCTTCTGTGCCAGGCCGGGCCCCG
 GCGCGGTACGCGGTAGAGGCCAGCGCCATCTGGCAACAGGCCCGGGAGGTGGTCCGGTTCAACGGGCTG
 GAGGACCGGGTGCACGTCTGCCGGACCAGTGGAGACTGTAGAGTTGCCGGAACAGGTGGATGCCATCG
 TGAGCGAGTGGATGGGCTACGGACTCCTGCACGAGTCCATGCTGAGCTCCGTCCTCCACGCGCAACCAA
 GTGGCTGAAGGAGGGCGGTCTTCTCCTGCCGGCCTCCCGCGAGCTTTCATAGCCCCATCAGCGACCAG
 ATGCTGGAATGGCGCTGGGCTTCTGGAGCCAGGTGAAGCAGCACTATGGTGTGGACATGAGCTGCCTGG
 AGGGCTTCGCCACGCGCTGTCTCATGGGCCACTCGGAGATCGTTGTGCAGGGATTGTCCGGCGAGGACGT
 GCTGGCCCCGGCCGAGCGCTTTGCTCAGCTAGAGCTCTCCCGCGCCGGCTTGAGCAGGAGCTGGAGGCC
 GGAGTGGGCGGGCGCTTCCGCTGCAGCTGCTATGGCTCGGCGCCCATGCATGGCTTTGCCATCTGGTTCC
 AGGTGACCTTCCCTGGAGGGGAGTCGGAGAAACCCTGGTGTGTCCACCTCGCCTTTTCACCCGGCCAC
 TCACTGGAACAGGCGCTCCTCTACCTGAACGAGCCGGTGCAAGTGGAGCAAGACACGGACGTTTCAGGA
 GAGATCACGCTGCTGCCCTCCCGGACAACCCCGTCGCTGCGGTGCTGCTGCCCTACAAAGTGGGAG
 ACCAGGAGGAGAAGACCAAGACTTTGCCATGGAGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209527 representing NM_018137
 Red=Cloning site Green=Tags(s)

MIADRVRTDAYRLGILRNWAALRGKTVLDVGAGTGILSIFCAQAGARRVYAVEASAIWQQAREVVRFNGL
 EDRVHVLPGPVETVELPEQVDAIVSEWMGYLLHESMLSSVLHARTKWLKEGGLLPASAELFIAPISDQ
 MLEWRLGFWSQVKQHYGVDMSCLEGFATRCLMGHSEIVVQGLSGEDVLARPQRFQAQLELSRAGLEQELEA
 GVGGRFRCSCYGSAPMHGFAIWFQVTFPGGESEKPLVLSTSPFHPATHHWKQALLYLNEPVQVEQDQTDVSG
 EITLLPSRDNPRLRVLLRYKVGQDEEKTDFAMED

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018137

ORF Size: 948 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_018137.1](#), [NP_060607.1](#)

RefSeq Size: 2506 bp

RefSeq ORF: 1128 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]

Product images:



Circular map for RG209527