

Product datasheet for **RG223791**

PRMT5 (NM_001039619) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRMT5 (NM_001039619) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PRMT5
Synonyms:	HRMT1L5; HSL7; IBP72; JBP1; SKB1; SKB1Hs
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG223791 representing NM_001039619
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATCGCGGGTCCGAACTCGGGACGAGAAAGGGCAGACTAGTCATCCCGGAGAAGCAGGGTTTGATTCC
 TCTGCATGCCTGTCTCCATCCGCGTTTCAAGAGGGAGTTCATTCAGGAACCTGCTAAGAATCGGCCCGG
 TCCCCAGACACGATCAGACCTACTGCTGTCCAGGAGGGACTGGAATACGCTAATTGTGGGAAAGCTTCT
 CCATGGATTGTCAGACTCAAAAGTGGAGAAGATTTCGAGGAACTCCGAGGCGGCCATGTTACAGGAGC
 TGAATTTTGGTGCATATTTGGGTCTTCCAGCTTCTGCTGCCCTTAATCAGGAAGATAACACCAACCT
 GGCCAGAGTTTGGACCAACCACATCCACACTGGCCATCACTCTTCCATGTTCTGGATGCGGGTACCTTG
 GTGGCACCAGAGGACCTGAGAGATGATAAATTGAGAATGCACCAACTACACACACAGAGGAGTACAGTG
 GGGAGGAGAAAACGTGGATGTGGTGGCACAACCTCCGGACTTTGTGTGACTATAGTAAGAGGATTGCAGT
 GGCTCTTGAAATTGGGGCTGACCTCCCATCTAATCATGTCATTGATCGCTGGCTTGGGGAGCCCATCAA
 GCAGCCATTCTCCCACTAGCATTTCCTGACCAATAAGAAGGGATTTCTGTCTTTCTAAGATGCACC
 AGAGGCTCATCTCCGGCTCCTCAAGTTGGAGGTGCAGTTCATCATCACAGGCACCAACCACCACTCAGA
 GAAGGAGTTCTGCTCCTACCTCCAATACCTGGAATACTTAAGCCAGAACCCTCCTCCACCTAATGCCTAT
 GAACTCTTTGCCAAGGGCTATGAAGACTATCTGCAGTCCCGCTTCAGCCACTGATGGACAATCTGGAAT
 CTCAGACATATGAAGTGTGTTGAAAAGGACCCATCAAATACTCTCAGTACCAGCAGGCCATCTATAAATG
 TCTGCTAGACCGAGTACCAGAAGAGGAGAAGGATACCAATGTCCAGGTACTGATGGTGTGGGAGCAGGA
 CGGGGACCCCTGGTGAACGCTTCCCTGCGGGCAGCCAAGCAGGCCGACCGGGGATAAAGCTGTATGCTG
 TGGAGAAAAACCCAAATGCCGTGGTACGCTAGAGAAGTGCAGTTCGAGAAATGGGGAAGCCAAAGTAC
 CGTAGTCTCATCAGACATGAGGGAATGGGTGGCTCCAGAGAAAGCAGACATCATTGTGAGTGGCTTCTG
 GGCTCATTGCTGACAATGAATTGTCGCTGAGTGCCTGGATGGAGCCAGCACTTCTAAAAGATGATG
 GTGTGAGCATCCCGGGGAGTACACTTCTTTCTGGCTCCCATCTCTTCTCCAAGCTGTACAATGAGGT
 CCGAGCCTGTAGGGAGAAGGACCGTACCTGAGGCCAGTTTGGATGCCTTATGTGGTACGGCTGCAC
 AACTTCCACAGCTCTGACCCACGCTGTTTACCTTCAGCCATCCCAACAGAGATCTATGATTG
 ACAACAACCGCTATTGCACCTTGAATTTCTGTGGAGGTGAACACAGTACTACATGGCTTTGCCGGCTA
 CTTTGAGACTGTCTTTATCAGGACATCACTCTGAGTATCCGTCCAGAGACTCACTCTCCTGGGATGTC
 TCATGGTTTCCCATCCTTCCCTATTAAGCAGCCATAACGGTACGTGAAGGCCAAACCATCTGTGTGC
 GTTCTGCGGATGCAGCAATCCAAGAAGGTGTGGTATGAGTGGGCTGTGACAGCACCAGTCTGTTCTGC
 TATTCATAACCCACAGGCCGCTCATATACCATTGGCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG223791 representing NM_001039619
 Red=Cloning site Green=Tags(s)

MRGPNSGTEKGRLLVIPEKQGFDFLCMPVFHPRFKREFIQEPAKNRPQPQTRSDLLL SGRDWNLLIVGKLS
 PWIRPDSKVEKIRRSEAAMLQELNFGAYLGLPAFLPLNQEDNTNLARVL TNHIHTGHSSMFWMRVPL
 VAPEDLRDDIENAPTTHTTEYSGEEKTWMMWHNFRTLCDYSKRIAVALIIGADLPSNHVIDRWLGEPIK
 AAILPTSIFLTKKGFVLSKMHQRLIFRLKLEVOFIIITGTNHHSEKEFCSYLQYLEYLSQNRPPPNAY
 ELFAKGYEDYLSPLQLMDNLESQTYEVFEKDPKIKYSQYQQAIIYKCLLDRVPEEEKDNTVQVLMVLGAG
 RGPLVNASLRAAQADRRRIKLYAVEKNPNAVVTLENWQFEWGSQVTVVSSDMREWWAPEKADIIIVSELL
 GSFADNELSPECLDGAQHFLKDDGVSIPGEYTSFLAPISSSKLYNEVRACREKDRDPEAQFEMPYVRLH
 NFHQLSAPQPCFTF SHPNRDPMDNRYCTLEFPVEVNTVLHGFAGYFETVLYQDITLSIRPETHSPGMF
 SWFPILFPIKQPIVREGQITICRVFWRCSNSKKVWYEWAVTAPVCSAIHNPTGRSYTIGL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001039619

ORF Size: 1860 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_001039619.3](#)

RefSeq Size: 2470 bp

RefSeq ORF: 1863 bp

Locus ID: 10419

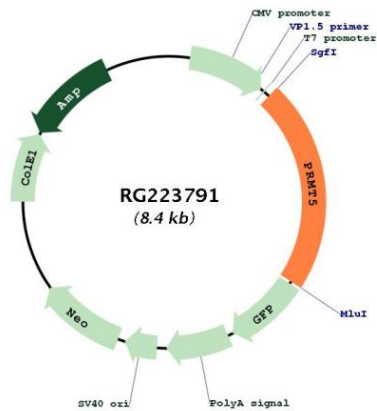
UniProt ID: [O14744](#)

Cytogenetics: 14q11.2

Protein Families: Stem cell - Pluripotency

Gene Summary: This gene encodes an enzyme that belongs to the methyltransferase family. The encoded protein catalyzes the transfer of methyl groups to the amino acid arginine, in target proteins that include histones, transcriptional elongation factors and the tumor suppressor p53. This gene plays a role in several cellular processes, including transcriptional regulation, and the assembly of small nuclear ribonucleoproteins. A pseudogene of this gene has been defined on chromosome 4. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2015]

Product images:



Circular map for RG223791