

Product datasheet for **RC238741**

PRMT5 (NM_001282954) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRMT5 (NM_001282954) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PRMT5
Synonyms:	HRMT1L5; HSL7; IBP72; JBP1; SKB1; SKB1Hs
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC238741 representing NM_001282954
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTACAGGAGCTGAATTTTGGTGCATATTTGGGTCTTCCAGCTTTCCTGCTGCCCTTAATCAGGAAG
 ATAACACCAACCTGGCCAGATTTTGGACCAACCACATCCACACTGGCCATCACTCTTCCATGTTCTGGAT
 GCGGGTACCCTTGGTGGCACCAGAGGACCTGAGAGATGATATAATTGAGAATGCACCAACTACACACACA
 GAGGAGTACAGTGGGAGGAGAAAACGTGGATGTGGTGGCACAACCTCCGGACTTTGTGTGACTATAGTA
 AGAGGATTGCAGTGGCTCTTGAATTTGGGGCTGACCTCCCATCTAATCATGTCTTATGATCGCTGGCTTG
 GGAGCCCATCAAAGCAGCATTCTCCCCACTAGCATTTCCTGACCAATAAGAAGGGATTTCTGTTCTT
 TCTAAGATGCACCAGAGGCTCATCTTCCGGCTCCTCAAGTTGGAGGTGCAGTTCATCATCACAGGCCACA
 ACCACCACTCAGAGAAGGAGTTCTGCTCCTACCTCCAATACCTGGAATACTTAAGCCAGAACCGTCTCC
 ACCTAATGCCTATGAACTCTTTGCCAAGGGCTATGAAGACTATCTGCAGTCCCCGCTTCAGCCACTGATG
 GACAATCTGGAATCTCAGACATATGAAGTGTGAAAAGGACCCCATCAAATACTCTCAGTACCAGCAGG
 CCATCTATAAATGTCTGCTAGACCGAGTACCAGAAGAGGAGAAGGATACCAATGTCCAGGTACTGATGGT
 GCTGGGAGCAGGACGGGGACCCCTGGTGAACGCTTCCCTGCGGGCAGCCAAGCAGGCCGACCGGGCGGATA
 AAGCTGTATGCTGTGGAGAAAAACCAATGCCGTGGTGCAGCTAGAGAAGTGGCAGTTTGAAGAATGGG
 GAAGCCAAGTGACCGTAGTCTCATCAGACATGAGGGAATGGTGGCTCCAGAGAAAGCAGACATCATTGT
 CAGTGAGCTTCTGGGCTCATTGCTGACAATGAATTGTCGCTGAGTGCCTGGATGGAGCCAGCACTTC
 CTAAGAATGATGGTGTGAGCATCCCCGGGAGTACACTTCCTTCTGGCTCCCATCTCTCCTCCAAGC
 TGTACAATGAGGTCGAGCCTGTAGGAGAAGGACCCGTGACCTGAGGCCAGTTTGAGATGCCTTATGT
 GGTACGGCTGCACAACCTCCACCAGCTCTCTGCACCCAGCCCTGTTTACCTTCAGCCATCCCAACAGA
 GATCCTATGATTGACAACAACCGCTATTGCACCTTGAATTTCTGTGGAGGTGAACACAGTACTACATG
 GCTTTGCCGGCTACTTTGAGACTGTGCTTATCAGGACATCACTCTGAGTATCCGTCCAGAGACTCACTC
 TCCTGGGATGTTCTCATGGTTTCCCATCTCTTCCCTATTAAGCAGCCATAACGGTACGTGAAGGCCAA
 ACCATCTGTGTGCGTTTCTGGCGATGCAGCAATCCAAGAAGGTGTTGATGAGTGGGCTGTGACAGCAC
 CAGTCTGTTCTGCTATTACATAACCCACAGGCCGCTCATATACCATTGGCCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238741 representing NM_001282954
 Red=Cloning site Green=Tags(s)

MLQELNFGAYLGLPAFLPLNQEDNTNLRVLTNHIHTGHSSMFWMRVPLVAPEDLRDDIENAPTTHT
 EEYSGEEKTMMWWHNFRTLCDYSKRIAVALEIGADLPSNHVIDRWLGEPIKAAIILPTSIIFLTNKKGFVPL
 SKMHQRLIFRLLKLEVQFIITGTNHSEKEFCSYLQYLEYLSQNRPPNAYELFAKGYEDYLQSPLQPLM
 DNLESQTYEVFEKDPIKYSQYQQAIIYKCLLDRVPEEEKDTNVQVLMVLGAGRGPLVNASLRAAKQADRI
 KLYAVEKNPNAVVTLENWQFEWGSQVTVVSSDMREWVAPEKADIIIVSELLGSFADNELSPECLDGAQHF
 LKDDGVSIPGEYTSFLAPISSSKLYNEVRACREKDRDPEAQFEMPYVVRLLHNFHQLSAPQPCFTFSHPNR
 DPMIDNRYCTLEFPVEVNTVLHGFAGYFETVLYQDITLSIRPETHSPGMFSWFPILFPIKQPITVREGQ
 TICVRFWRCSNSKKVWYEWAVTAPVCSAIHNPTGRSYTIGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja3417_f05.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001282954

ORF Size: 1593 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

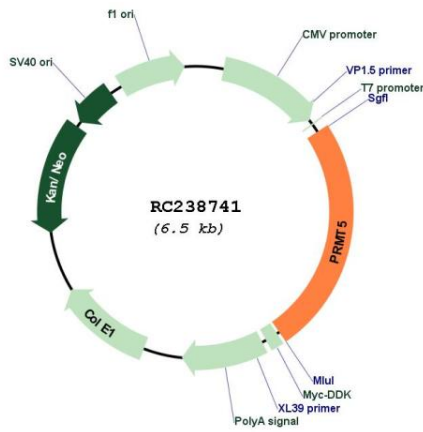
- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_001282954.2](#)

RefSeq Size: 2507 bp
RefSeq ORF: 1596 bp
Locus ID: 10419
Cytogenetics: 14q11.2
Protein Families: Stem cell - Pluripotency
MW: 61.1 kDa

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 RC238741