

## Product datasheet for **RG238741**

### PRMT5 (NM\_001282954) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PRMT5 (NM_001282954) 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:**

>RG238741 representing NM\_001282954.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```

GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTTACAGGAGCTGAATTTTGGTGCATATTTGGGCTTCCAGCTTTCCTGCTGCCCTTAATCAGGAA
GATAACCAACCTGGCCAGAGTTTGGACCAACCACACTCCACACTGGCCATCACTCTTCCATGTTCTGG
ATGCGGGTACCCTTGGTGGCACCAGAGGACCTGAGAGATGATATAATTGAGAATGCACCAACTACACAC
ACAGAGGAGTACAGTGGGAGGAGAAAACGTGGATGTGGTGGCACAACCTCCGGACTTGTGTGACTAT
AGTAAGAGGATTGCAGTGGCTCTTGAAATTGGGGCTGACCTCCCATCTAATCATGTCAATGATCGCTGG
CTTGGGGAGCCATCAAAGCAGCCATTCTCCCACTAGCATTTCCTGACCAATAAGAAGGGATTTCCT
GTTCTTTCTAAGATGCACCAGAGGCTCATCTCCGGCTCCTCAAGTTGGAGGTGCAGTTCATCATACA
GGCACCAACCACACTCAGAGAAGGAGTCTGCTCCTACCTCCAATACCTGGAATACTTAAGCCAGAAC
CGTCTCCACCTAATGCCTATGAACTCTTGGCAAGGGCTATGAAGACTATCTGCAGTCCCGCTTCAG
CCACTGATGGACAATCTGGAATCTCAGACATATGAAGTGTGAAAAGGACCCCATCAAATACTCTCAG
TACCAGCAGGCCATCTATAAATGTCTGCTAGACCGAGTACCAGAAGAGGAGAAGGATACCAATGTCCAG
GTACTGATGGTGTGGGAGCAGGACGGGACCCCTGGTGAACGCTTCCCTGCGGGCAGCCAAGCAGGCC
GACCGGGGATAAAGCTGTATGCTGTGGAGAAAAACCAATGCCGTGGTACGCTAGAGAACTGGCAG
TTTGAAGAATGGGAAGCCAAGTGACCGTAGTCTCATCAGACATGAGGGAATGGGTGGCTCCAGAGAAA
GCAGACATCATTGCAGTGAAGTCTTGGGCTCATTGTGACAATGAATTGTGCGCTGAGTGCCTGGAT
GGAGCCCAGCACTTCTAAAAGATGATGGTGTGAGCATCCCCGGGGAGTACACTTCTTTCTGGCTCCC
ATCTCTTCTCCAAGCTGTACAATGAGGTCCGAGCCTGTAGGGAGAAGGACCGTGACCCCTGAGGCCCAG
TTTGAGATGCCTTATGTGGTACGGCTGCACAACCTCCACCAGCTCTCTGCACCCAGCCCTGTTTACC
TTCAGCCATCCCAACAGAGATCCTATGATTGACAACAACCGCTATTGCACCTTGGAAATTTCTGTGGAG
GTGAACACAGTACTACATGGCTTTCGGGCTACTTTGAGACTGTCTTTATCAGGACATCACTCTGAGT
ATCCGTCCAGAGACTCACTCTCCTGGGATGTTCTCATGGTTTCCCATCCTCTTCCCTATTAAGCAGCCC
ATAACGGTACGTGAAGGCCAAACCATCTGTGTGCGTTCCTGGCGATGCAGCAATTCAGAAGGTGTGG
TATGAGTGGGCTGTGACAGCACCAGTCTGTTCTGCTATTACATAACCCACAGGCCGCTCATATACCATT
GGCCTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
  
```

**Protein Sequence:**

>Peptide sequence encoded by RG238741  
 Blue=ORF Red=Cloning site Green=Tag(s)

```

MLQELNFGAYLGLPAFLPLNQEDNTNLRVLTNHIHTGHHSSMFWMRVPLVAPEDLRDDIIENAPTTT
TEEYSGEEKTWMMWHNFRSLCDYSKRIAVALEIGADLPSNHVIDRWLGEPIKAAIILPTSIFLTNKKGFP
VLSKMHQRLIFRLLKLEVQFIITGTNHSEKEFCSYLQYLEYLSQNRPPPNAYELFAKYEDYLSPLQ
PLMDNLESQTYEVFEKDPKYSYQQAIYKCLLDRVPEEKDTNVQVLMVLGAGRPLVNASLRAAKQA
DRRIKLYAVEKNPNAVVTLENWQFEWGSQVTVVSSDMREWVAPEKADIIIVSELLGSFADNELSPECLD
GAQHFLKDDGVSIPGEYTSFLAPISSSKLYNEVRACREKDRDPEAQFEMPYVVRHLNHFHQLSAPQPCFT
FSHPNRPMDIANNRYCTLEFPVEVNTVLHGFAGYFETVLQDITLSIRPETHSPGMFSWFPILFPKQP
ITVREGQTCVRFWRCSNSKKVWYEWAVTAPVCSAIHNPTGRSYTIGL
TRTRPLEMESDESGLPAMEIECRITGLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
```

**Restriction Sites:**

Sgfl-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](mailto: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).

**RefSeq:** [NM\\_001282954.2](#)

**RefSeq Size:** 2507 bp

**RefSeq ORF:** 1596 bp

**Locus ID:** 10419

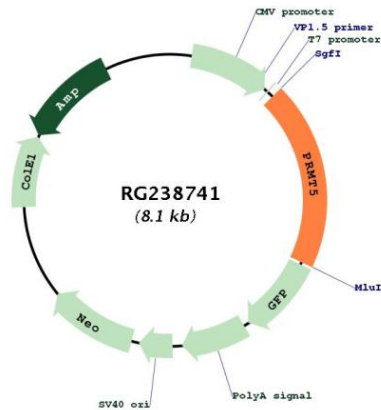
**Cytogenetics:** 14q11.2

**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 RG238741