

## Product datasheet for **MR209659**

### Prmt5 (NM\_013768) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prmt5 (NM_013768) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prmt5
Synonyms:	Jbp; Jbp1; Skb; Skb1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

&gt;MR209659 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCCATGGCGGCGATGGCAGTCGGAGGTGCTGGTGGCAGCCCGGTGCCAGCGGAGGGACCTGAATTGCGTCC  
CCGAAATAGCTGACACACTGGGTGCTGTGGCCAAGCAGGGGTTGATTTCTCTGATGCCTGTCTTCCA  
CCCCTGTTTCAAGAGGGAGTTCATTTCAGGAACCTGCTAAGAATCGGCTGGCCCCAGACACGATCAGAC  
CTACTGCTGTGAGGAAGGACTGGAATACGCTAATTGTGGGAAAGCTTTCTCCATGGATTATCCAGACT  
CAAAAGTGAGAGAAGATCCGAAGGAACCTGAAGCGGCTATGTTACAGGAGCTGAATTTGGAGCATATCT  
GGGTCTTCCAGCTTCTATTGCCCTTAATCAGGAAGATAACACGAATCTGGCCAGAGTTCTGACCAAC  
CACATCCACACTGGCCACCCTTCCATGTTCTGGATGAGGGTACCCTTGGTGGCACCAGAGGACCTGA  
GAGATGATGTAATTGCGAATGCCCGACTACACACACAGAGGAGTACAGTGGAGAAGAGAAGACATGGAT  
GTGGTGGCATAACTTTCGGACTCTGTGTGACTATAGCAAGAGAATTGCAGTAGCTTTGAAATTGGAGCT  
GACCTCCCGTCTAATCAGTCTATTGACCCTGGCTTGGAGAGCCCATCAAAGCAGCCATTCTCCCCACCA  
GCATTTTCTTAACCAACAAGAAAGGATTTCTGTTCTTTCTAAGGTGCAGCAGAGGCTGATCTTCCGGCT  
CCTCAAGTTGGAAGTGCAGTTTATCATCACGGGAACCAACCACCTCAGAGAAGGAGTTCTGTTCTTAC  
CTCCAGTACTTGGAACTTAAGCCAAAATCGCCCTCCACCCAATGCCTATGAGCTCTTTGCCAAAGGCT  
ATGAAGACTATCTGCAGTCCCCTCCAGCCTCTGATGGACAATCTGGAATCTCAGACATATGAAGTGT  
TGAAAAGGACCCCATCAAATACTCTCAATATCAGCAGGCTATTTATAAATGTTTGCTAGACCGAGTACCA  
GAAGAAGAAAAGGAGACCAATGTCCAGTACTTATGGTGTGGTGCAGGCCGGGGTCTCTTGTGAATG  
CGTCTCTTCGGGCAGCCAAACAGGCCGAGCGGCGGATCAGGCTGTATGCTGTGGAGAAGAACCCCAATGC  
TGTGGTGACGCTAGAGAAGTGGCAGTTTGAAGAATGGGGGAGCCAGGTGACAGTTGTCTCATCAGACATG  
CGGAATGGGTGGCTCCGGAGAAAGCTGACATTATTGTCAGTGAGCTTCTGGGTTCTTTGCCGACAACG  
AGCTGTCACCTGAGTGTCTGGATGGAGCACAGCACTTCTGAAAGATGATGGCGTGAGCATCCCTGGAGA  
ATACACCTCCTTCTGGCTCCCATTCTTCTCTAAGCTGTACAACGAGGTCCGTGCCTGTCCGGAAAAG  
GACCGGATCCTGAGGCACAGTTTGGATGCCTTATGTGGTTCGGTTGCACAACCTCCACCAGCTCTCTG  
CTCCTAAGCCCTGCTTTACCTTCAGCCATCCCAACCGAGATCCTATGATTGACAACAACCGCTACTGTAC  
CCTGGAGTTTCTGTGGAGGTGAACACGGTCTCATGGCTTCGCAGGCTACTTTGAGACTGTGCTTTAC  
CGGACATCACTCTGAGTATCCGCCAGAGACTACTCTCTGGAATGTTCTCATGGTTCCTCCATCTTCT  
TCCCCATTAAGCAGCCATCACGGTGCACGAAGGCCAGAACATCTGTGTGCGTTTCTGGCGATGCAGCAA  
TTCCAAGAAAGTGTGGTACGAGTGGGCGGTGACGGCCCCGTCTGTTCTTCTATTACAACCTACCGGC  
CGCTCTATACCATTGGCTCACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR209659 protein sequence  
Red=Cloning site Green=Tags(s)

MAAMAVGGAGGSRVSSGRDLNCPVEIADTLGAVAKQGFDFLCMPVFHPRFKREFIQEPAKNRPGPQTRSD  
 LLLSGRDWNTLIVGKLSPIWHPDSKVEKIRRNSEAAMLQELNFGAYLGLPAFLLPLNQEDNTNLARVLTN  
 HIHTGHSSMFWMRVPLVAPEDLRDDVIANAPTTHTTEYSGEEKTWMWWHNFRTLCDYSKRIAVALAIGA  
 DLPSNHVIDRWLGEPIKAAAILPTSIFLTNKKGFVLSKVQQRLIFRLLKLEVQFIITGTNHHEKEFCSY  
 LQYLEYLSQNRPPPNAAYELFAKGYEDYLSPLQLMDNLESQTYEVFEKDPKYSQYQQAIYKCLLDRVP  
 EEEKETNVQVLMVLGAGRGLVNASLRAAKQAERRIRLYAVEKNPNAVVTLENWQFEEWGSQVTVVSSDM  
 REWVAPEKADIIYSELLGSFADNELSPECLDGAQHFLKDDGVSIPGEYTSFLAPISSSKLYNEVRACREK  
 DRDPEAQFEMPYVVRHLNHFHQLSAPKPCFTFSHPNRDPMIDNNRYCTLEFPVEVNTVLHGFAGYFETVLY  
 RDITLSIRPETHSPGMFSWFPIFFPIKQPITVHEGQNICVRFWRCSNSKKVWYEWAVTAPVCSSIHNP TG  
 RSYTIGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_013768

**ORF Size:** 1914 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\\_013768.2](#)

**RefSeq Size:** 2641 bp

**RefSeq ORF:** 1914 bp

**Locus ID:** 27374

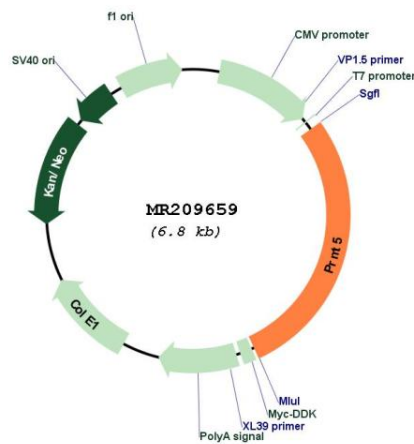
**UniProt ID:** [Q8CIG8](#)

**Cytogenetics:** 14 C2

**MW:** 72.7 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. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2015]

### Product images:



Circular map for MR209659