

Product datasheet for **MR228809**

Prmt1 (NM_001252477) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prmt1 (NM_001252477) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prmt1
Synonyms:	6720434D09Rik; AW214366; Hrmt1I2; Mrmt1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR228809 representing NM_001252477 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCGGCAGCCGAGGCCGGAAGTGCATCATGGAGGTTTCTGTGGCCAAGCAGAAAGTAGTGAGAAGC
CCAACGCTGAGGACATGACATCCAAAGACTACTACTTTGACTCCTATGCCCACTTTGGCATCCACGAGGA
GATGCTGAAGGATGAGGTGCGCACCCCTCACATACCGCAACTCCATGTTTACAATCGGCATCTCTTCAA
GACAAGGTGGTGCCTGGATGTGGGCTCAGGCACTGGCATCCTCTGCATGTTTGTGCTGCAAGCGGGGCC
GCAAGGTTATTGGGATTGAGTGTCCAGTATCTCCGATTATGCTGTGAAGATTGTCAAAGCCAACAAGTT
AGACCATGTGGTGACCATCATCAAGGGCAAGGTGGAGGAGGTGGAGCTGCCCGTGGAGAAGGTGGACATC
TACACAGTCAAGGTGGAGGACCTGACCTTACCTCCCCCTTCTGCCTGCAAGTGAAGAGGAACGACTACG
TGCACGCGCTGGTGGCTTACTTCAACATCGAGTTCACCCGATGCCACAAGAGGACCGCTTCTCCACCAG
TCCTGAGTCCCCGTACACACACTGGAAGCAGACTGTGTTCTACATGGAGGACTACCTAACAGTGAAGACT
GGCGAGGAGATCTTTGGCACCATTGGAATGAGGCCAATGCCAAAACAATCGTGACTTGGACTTTACCA
TCGACCTGGACTTCAAGGGTCAGCTGTGTGAGCTCTTGTTCACCGACTACCGGATGCGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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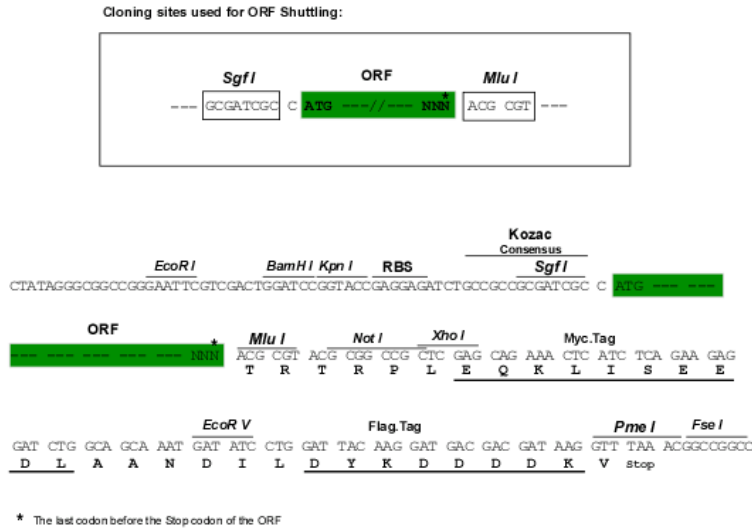
Protein Sequence: >MR228809 representing NM_001252477
 Red=Cloning site Green=Tags(s)

MAAAEAANCIMEVSCGQAESSEKPNADMTSKDYFFDSYAHFGIHEEMLKDEVRTLTYRNSMFHNRHLFK
 DKVVLVDVSGTGILCMFAAKAGARKVIGIECSSISDYAVKIVKANKLDHVVTIIKGVVEEVELPVEKVDI
 YTVKVEDLFTTSPFCLQVKRNDYVHALVAYFNIEFTRCHKRTGFSTSPESPYTHWKQTVFYMEDYLTVKT
 GEEIFGTIGMRPNAKNNRDLDFIDLDFKGLCELSCSTDYRMR

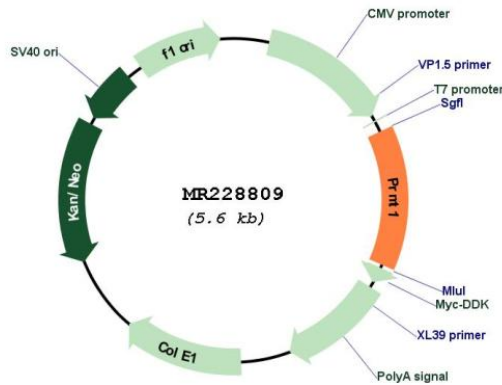
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001252477
ORF Size: 762 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:	<ol style="list-style-type: none">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_001252477.1 , NP_001239406.1
RefSeq Size:	1028 bp
RefSeq ORF:	765 bp
Locus ID:	15469
Cytogenetics:	7 29.07 cM
MW:	29.4 kDa
Gene Summary:	Arginine methyltransferase that methylates (mono and asymmetric dimethylation) the guanidino nitrogens of arginyl residues present in proteins such as ESR1, histone H2, H3 and H4, ILF3, HNRNPA1, HNRNPD, NFATC2IP, SUPT5H, TAF15, EWS, HABP4 and SERBP1 (PubMed:15327772, PubMed:19858291). Constitutes the main enzyme that mediates monomethylation and asymmetric dimethylation of histone H4 'Arg-4' (H4R3me1 and H4R3me2a, respectively), a specific tag for epigenetic transcriptional activation (By similarity). Methylates H4R3 in genes involved in glioblastomagenesis in a CHTOP- and/or TET1-dependent manner (By similarity). May be involved in the regulation of TAF15 transcriptional activity, act as an activator of estrogen receptor (ER)-mediated transactivation, play a key role in neurite outgrowth and act as a negative regulator of megakaryocytic differentiation, by modulating p38 MAPK pathway (By similarity). Methylates RBM15, promoting ubiquitination and degradation of RBM15 (By similarity). Methylates CHTOP and this methylation is critical for its 5-hydroxymethylcytosine (5hmC)-binding activity (PubMed:19858291). [UniProtKB/Swiss-Prot Function]