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Product datasheet for RG217483

PRMT4 (CARM1) (NM_199141) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRMT4 (CARM1) (NM_199141) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PRMT4
Synonyms:	PRMT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG217483 representing NM_199141
Red=Cloning site Blue=ORF Green=Tags(s)

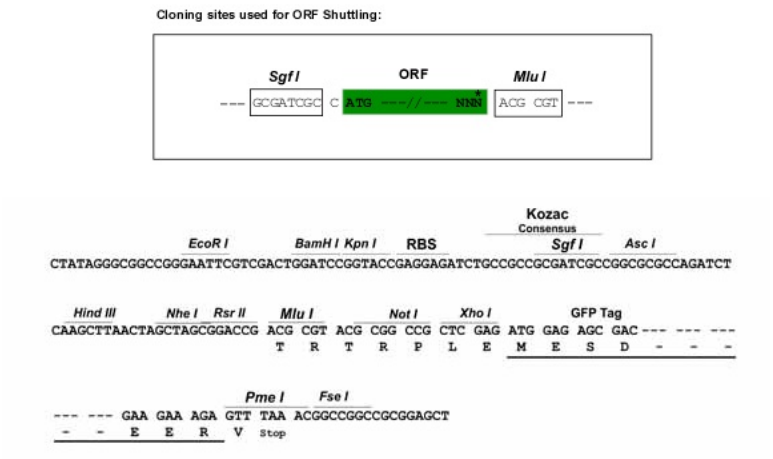
TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGCGGCGGCGGCGGCGGTGGGGCCGGGCGCGGGCGGCGCGGGGTCGGCGGTCCCGGGCGGCGCGG
GGCCCTGCGCTACCGTGTCGGTGTTCCCCGGCGCCCGCCTCCTCACCATCGGCGACGCGAACGGCGAGAT
CCAGCGGCACGCGGAGCAGCAGGCGCTGCGCCTCGAGGTGCGCGCCGGCCCGGACTCGGCGGGCATCGCC
CTCTACAGCCATGAAGATGTGTGTGTCTTTAAGTGCTCAGTGTCCCGAGAGACAGAGTGCAGCCGTGTGG
GCAAGCAGTCCTTCATCATCACCCTGGGCTGCAACAGCGTCCTCATCCAGTTCGCCACACCCAACGATTT
CTGTTCCTTCTACAACATCCTGAAAACCTGCCGGGGCCACACCCTGGAGCGGTCTGTGTTCAGCGAGCGG
ACGGAGGAGTCTTCTGCCGTGCAGTACTTCCAGTTTTATGGCTACCTGTCCCAGCAGCAGAACATGATGC
AGGACTACGTGCGGACAGGCACCTACCAGCGCGCCATCCTGCAAAACCACACCGACTTCAAGGACAAGAT
CGTTCTTGATGTTGGCTGTGGCTCTGGGATCCTGTCGTTTTTTGCCGCCCAAGCTGGAGCACGGAAAATC
TACGCGGTGGAGGCCAGCACCATGGCCCAGCACGCTGAGGTCTTGGTGAAGAGTAACAACCTGACGGACC
GCATCGTGGTCATCCCGGGCAAGGTGGAGGAGGTGTCACTCCCCGAGCAGGTGGACATCATCATCTCGGA
GCCCATGGGCTACATGCTCTTCAACGAGCGCATGCTGGAGAGCTACCTCCACGCCAAGAAGTACCTGAAG
CCCAGCGGAAACATGTTTCCTACCATTGGTGACGTCCACCTTGCACCCTTCACGGATGAACAGCTCTACA
TGGAGCAGTTCACCAAGGCCAACTTCTGGTACCAGCCATCTTTCCATGGAGTGGACCTGTCGGCCCTCCG
AGGTGCCGCGGTGGATGAGTATTTCCGGCAGCCTGTGGTGGACACATTTGACATCCGGATCCTGATGGCC
AAGTCTGTCAAGTACACGGTGAACTTCTTAGAAGCCAAAGAAGGAGATTTGCACAGGATAGAAATCCCAT
TCAAATTCCACATGCTGCATTCAGGGCTGGTCCACGGCCTGGCTTTCTGGTTTGACGTTGCTTTCATCGG
CTCCATAATGACCGTGTGGCTGTCCACAGCCCCGACAGAGCCCCTGACCCACTGGTACCAGGTGCGGTGC
CTGTTCCAGTCACCACTGTTCGCCAAGGCAGGGGACACGCTCTCAGGGACATGTCTGCTTATTGCCAACA
AAAGACAGAGCTACGACATCAGTATTGTGGCCCAGGTGGACCAGACCGGCTCCAAGTCCAGTAACCTCCT
GGATCTGAAAAACCCCTTCTTTAGATACACGGGCACAACGCCCTCACCCCCACCCGGCTCCCACTACACA
TCTCCCTCGGAAAACATGTGGAACACGGGCAGCACCTACAACCTCAGCAGCGGGATGGCCGTGGCAGGGA
TGCCGACCGCCTATGACTTGAGCAGTGTTATTGCCAGTGGCTCCAGCGTGGGCCACAACAACCTGATTCC
TTTAGCCAACACGGGGATTGTCAATCACACCCACTCCCGGATGGGCTCCATAATGAGCACGGGGATTGTC
CAAGGGTCCTCCGGCGCCCAGGGCAGTGGTGGTGGCAGCACGAGTGCCCACTATGCAGTCAACAGCCAGT
TCACCATGGGCGGCCCCGCCATCTCCATGGCGTCGCCCATGTCCATCCCGACCAACACCATGCACTACGG
GAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Restriction Sites: SgfI-MluI

Cloning Scheme:



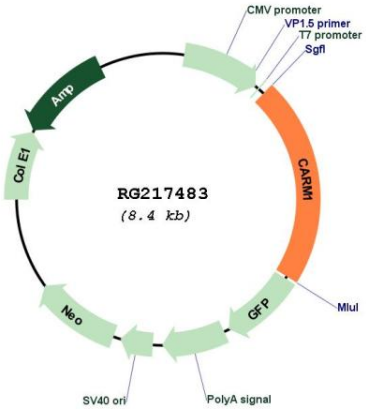
ACCN:	NM_199141
ORF Size:	1824 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_199141.2
RefSeq Size:	2968 bp
RefSeq ORF:	1827 bp
Locus ID:	10498
UniProt ID:	Q86X55

Cytogenetics: 19p13.2

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: This gene belongs to the protein arginine methyltransferase (PRMT) family. The encoded enzyme catalyzes the methylation of guanidino nitrogens of arginyl residues of proteins. The enzyme acts specifically on histones and other chromatin-associated proteins and is involved in regulation of gene expression. The enzyme may act in association with other proteins or within multi-protein complexes and may play a role in cell type-specific functions and cell lineage specification. A related pseudogene is located on chromosome 9. [provided by RefSeq, Aug 2013]

Product images:



Circular map for RG217483