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Product datasheet for RC227089

PRMT3 (NM_001145167) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRMT3 (NM_001145167) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PRMT3
Synonyms:	HRMT1L3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>RC227089 representing NM_001145167
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGCTCGTTAGCGTCAGGCGCTACCGGCGGCCGGGGCGCTGTGGAGAATGAGGAGGACCTGCCAGAAC
TGTCGGACAGCGGGGACGAGGCCGCCTGGGAGGATGAGGACGATGCAGATCTCCCCCACGGCAAGCAGCA
GACCCCCTGCCTGTTCTGTAACAGGTTATTCACATCTGCTGAAGAAACATTTTCACACTGTAAGTCTGAG
CATCAGTTTAATATTGACAGCATGGTTCATAAACATGGACTTGAATTTTATGGATACATTAAGCTAATAA
ATTTTATTAGACTTAAGAATCCTACAGTTGAGTACATGAATTCCATATACAACCCAGTGCCTTGGGAGAA
AGAAGAGTATTTGAAGCCAGTATTAGAAGATGACCTTTTACTTCAATTTGATGTAGAAGATCTTTATGAA
CCGGTGTCAGTACCCTTCTCATACCCCAATGGACTCAGTGAAAATACATCTGTTGTTGAAAAATTGAAAC
ATATGGAAGCCAGGGCACTGTCTGCTGAAGCCGCATTGGCCAGAGCACGTGAGGATCTGCAGAAAATGAA
ACAATTTGCTCAGGATTTTGTGATGCACACAGATGTCAGAACCTGCTCGTCATCTACTAGTGTCATTGCG
GACCTCCAGGAGGATGAGGATGGTGTTTATTTCAGCTCATACGGGCATTATGGGATACATGAAGAAATGC
TAAAGGACAAAATACGAACAGAAAGCTACCGAGATTTCATATACCAAAATCCACATATCTTCAAAGACAA
GGTAGTTTTGGATGTTGGGTGTGGAACTGGAATTCTCTCTATGTTTGCTGCTAAAGCTGGGGCGAAGAAG
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ATAAACATGCTGATAGAATTGCTTTTTGGGATGATGTCTATGGCTTCAAGATGTCCTGCATGAAGAAAGC
AGTTATTCCAGAAGCTGTTGTGGAAGTTTTAGATCCGAAGACTCTTATTTCAGAACCTTGTGGTATTAAG
CATATAGATTGCCATACGACGTCTATCTCAGATTTGGAATTTTCATCAGATTTTACCCTGAAAATCACAA
GGACATCCATGTGCACGGCAATTGCTGGCTACTTTGATATATATTTTGAGAAGAATTGCCACAACAGGGT
CGTGTTCTCTACGGGCCCTCAGAGCACCAAAACACACTGGAAACAAACAGTATTTCTACTGGAAAAACCA
TTTTCAGTTAAAGCAGGTGAAGCCTTGAAAGGAAAGGTCACAGTTCACAAGAATAAGAAAGATCCACGTT
CTCTCACCGTGACCCTCACGTTGAATAATTCAACTCAAACTTATGGTCTCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

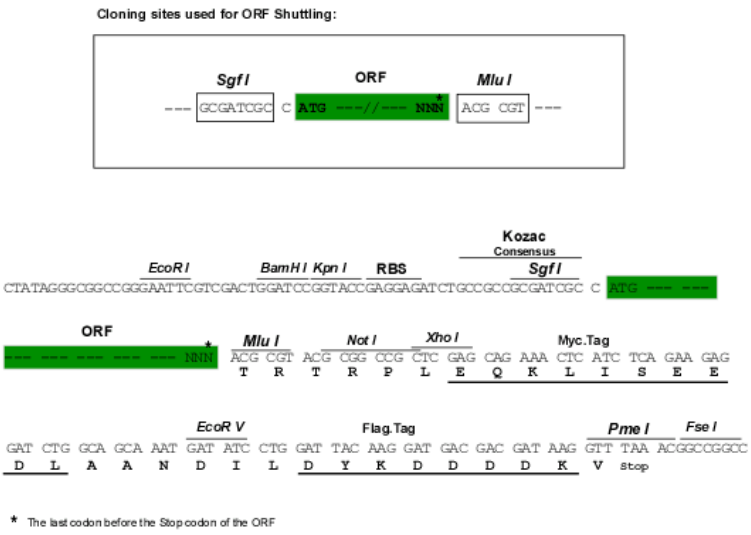
>RC227089 representing NM_001145167
Red=Cloning site Green=Tags(s)

MCSLASGATGGRGAVENEEDLPELSDSGDEAAWEDEDDADLPHGKQQTPCLFCNRLFTSAEETFSHCKSE
HQFNIDSMVHKHGLEFYGYIKLINFIRLKNPTVEYMNSIYNPVPWEKEEYLKPVLEDDLLLQFDVEDLYE
PVSVPFSYPNGLSENTSVVEKLKHMEARALSAEAALARAREDLQKMKQFAQDFVMHTDVRTCSSSTSVIA
DLQEDEDGVYFSSYGHYGIHEEMLKDKIRTESYRDFIYQNPHIFKDKVVLDVGCGTGILSMFAAKAGAKK
VLGVDQSEILYQAMDIIRLNKLEDTITLIKGKIEEVHLPVEKVDVIISEWMGYFLLFESMLDSVLYAKNK
YLAKGGSVYPDICTISLVAVSDVNKHADRIAFWDDVYGFKMSCMKKAVIPEAVVEVLDPKTLISEPCGIK
HIDCHTTSISDLEFSSDFTLKITRTSMCTAIAGYFDIYFEKNCHNRVVFSTGPQSTKTHWKQTVFLLEKP
FSVKAGEALKGKVTVHKNKKDPRSLTVTLTLNNSTQTYGLQ

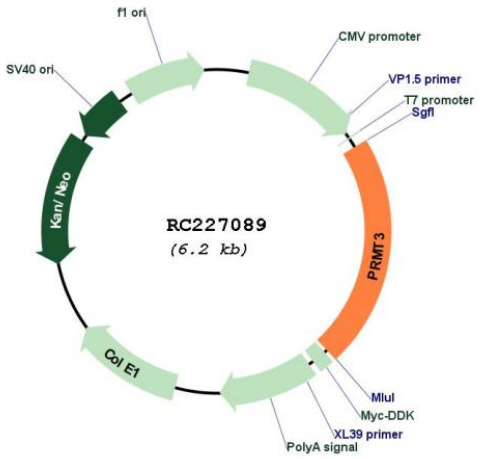
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001145167
ORF Size:	1596 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_001145167.1, NP_001138639.1
RefSeq Size:	2607 bp
RefSeq ORF:	1365 bp
Locus ID:	10196
Cytogenetics:	11p15.1
Protein Families:	Druggable Genome
MW:	59.9 kDa
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 on 40S ribosomal protein S2 (rpS2), which is its major in-vivo substrate, and is involved in the proper maturation of the 80S ribosome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]