

Product datasheet for **RG227089**

PRMT3 (NM_001145167) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRMT3 (NM_001145167) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PRMT3
Synonyms:	HRMT1L3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG227089 representing NM_001145167
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGCTCGTTAGCGTCAGGCGCTACCGCGGCCGGGGCGCTGTGGAGAATGAGGAGGACCTGCCAGAAC
 TGTCGGACAGCGGGACGAGGCCCTGGGAGGATGAGGACGATGCAGATCTCCCCACGGCAAGCAGCA
 GACCCCTGCCTGTTCTGTAACAGGTTATTCACATCTGCTGAAGAAACATTTTCACACTGTAAGTCTGAG
 CATCAGTTTAATATTGACAGCATGGTTCATAAACATGGACTTGAATTTTATGGATACATTAAGCTAATAA
 ATTTTATTAGACTTAAGAATCCTACAGTTGAGTACATGAATTCATATACAACCCAGTGCCTTGGGAGAA
 AGAAGAGTATTTGAAGCCAGTATTAGAAGATGACCTTTTACTTCAATTTGATGTAGAAGATCTTTATGAA
 CCGGTGTCAGTACCCTTCTCATACCCCAATGGACTCAGTAAAAATACATCTGTTGTTGAAAAATTGAAAC
 ATATGGAAGCCAGGGCACTGTCTGCTGAAGCCGATTGGCCAGAGCACGTGAGGATCTGCAGAAAAATGAA
 ACAATTTGCTCAGGATTTTGATGCACACAGATGTCAGAACCTGCTCGTCATCTACTAGTGCATTGCG
 GACCTCCAGGAGGATGAGGATGGTGTATTTCAGCTCATACGGCATTATGGGATACATGAAGAAATGC
 TAAAGGACAAAATACGAACAGAAAGCTACCGAGATTTTCATATACAAAATCCACATATCTTCAAAGACAA
 GGATGTTTTGGATGTTGGGTGTGGAAGTGGAAATCTCTCTATGTTTGTCTAAAGCTGGGGCGAAGAAG
 GTTCTTGGAGTTGATCAATCTGAAATACTTTACCAGGCAATGGATATTATAAGACTAAATAAACTTGAAG
 ATACTATTACACTAATTAAGGAAAAGATTGAAGAAGTTCATCTTCTGTAGAAAAAGTAGATGTTATCAT
 ATCTGAGTGGATGGGCTATTTCTTCTGTTGAGTCTATGTTAGATTCTGCCTTTATGCAAAGAACAAA
 TACTTGGCAAAAAGGAGGCTCGGTCTACCCTGACATTTGCATATCAGCCTTGTAGCAGTGAAGTGTGA
 ATAACATGCTGATAGAATTGCTTTTTGGGATGATGCTATGGCTCAAGATGCTCAGAAAGAAGC
 AGTTATTCAGAAAGCTGTTGTGGAAGTTTTAGATCCGAAGACTCTTATTTTCAGAACCTTGTGGTATTAAG
 CATATAGATTGCCATACGACGTCTATCTCAGATTTGGAATTTTCATCAGATTTTACCCTGAAAATCACAA
 GGACATCCATGTGCACGGCAATTGCTGGCTACTTTGATATATATTTTGAAGAATTGCCACAACAGGGT
 CGTGTCTCTACGGGCCCTCAGAGCACAAAACACACTGGAAACAAACAGTATTTCTACTGGAAAAACCA
 TTTTCAGTTAAAGCAGGTGAAGCCTTGAAGGAAAGGTCACAGTTCACAAGAATAAGAAAGATCCACGTT
 CTCTACCGTGACCCTCACGTTGAATAATTCAACTCAAATTTATGGTCTCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG227089 representing NM_001145167
 Red=Cloning site Green=Tags(s)

MCSLASGATGGRGAVENEEDLPELSDSGDEAAWEDEDDADLPHGKQQTPLFCNRLFTSAEETFSHCKSE
 HQFNIDSMVHKHGLEFYGYIKLINFIRLKNPTVEYMNSIYNPVPWEKEEYLPVLEDDLQDFDVEDLYE
 PVSVPFSYPNGLSENTSVVEKLVKHEARALSAEALARAREDLQKMKQFAQDFVMHTDVRTCSSSTSVIA
 DLQEDEDGVYFSSYGHYIHEEMLKDKIRTESYRDFIYQNPFIKDKVVLVGVCGTGILSMFAAKAGAKK
 VLGVDQSEILYQAMDIIIRLNKLEDITLIKGIIEVHLPVEKVDVIESEWMGYFLLFESMLDSVLYAKNK
 YLAKGGSVYPDICTISLVAVSDVNKHADRIAFWDDVYGFKMSCMKKAVIPEAVVEVLDPKTLISEPCGIK
 HIDCHTTISDLEFSSDFTLKIRTSMTAIAGYFDIYFEKNCHNRVVFSTGPQSTKTHWKQTVFLLEKP
 FSVKAGEALKGKVTVHKNKKDPRSLTVTLTLNNSQTQYGLQ

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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:	<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_001145167.1 , NP_001138639.1
RefSeq Size:	2607 bp
RefSeq ORF:	1365 bp
Locus ID:	10196
Cytogenetics:	11p15.1
Protein Families:	Druggable Genome
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]