

## Product datasheet for **RG201672**

### PRMT7 (NM\_019023) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PRMT7 (NM_019023) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PRMT7
Synonyms:	SBIDDS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG201672 representing NM\_019023  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAAGATCTTCTGCAGTCGGGCCAATCCGACCACGGGTCTGTGGAGTGGCTGGAGGAGATGAACACT  
ATGATTACCACCAGGAGATTGCAAGGTCATCTTATGCAGATATGCTACATGACAAAGACAGAAATGTAAA  
ATACTACCAAGGTATCCGGGCTGCCGTGAGCAGGGTGAAGGACAGAGGACAGAAGGCCTTGGTTCTCGAC  
ATTGGCACTGGCACGGGACTCTTGTCAATGATGGCGGTACAGCAGGTGCCGACTTCTGCTATGCCATCG  
AGGTTTTCAAGCCTATGGCTGATGCTGTGTAAGATTGTGGAGAAAAATGGCTTATAGTATAAGATTAA  
GGTTATCAACAAGCATTCCACCGAGGTGACTGTAGGTCCAGAGGGTGACATGCCATGCCGTGCCAACATC  
CTGGTCACAGAGTTGTTTACACAGAGCTGATCGGGGAGGGGGCGCTGCCCTCTATGAGCACGCACACA  
GGCATCTCGTGGAGGAAAATTGTGAGGCCGTGCCCCACAGAGCCACCGTCTATGCACAGCTGGTGGAGTC  
CGGAGGATGTGGTCGTGGAACAAGCTATTTCCATCCACGTGCAGACCAGCCTCGGAGAGCAGGTATC  
GTCCCTCCCGTTGACGTGGAGAGCTGCCCTGGCGCACCTCTGTCTGTGACATTCAGCTGAACCAGGTGT  
CACCAGCCGACTTACAGTCCTCAGCGATGTGCTGCCATGTTACAGCATAGACTTCAGCAAGCAAGTCAG  
TAGCTCAGCAGCTGCCATAGCAGGCGGTTGAACCTCTGACATCTGGCCGAGCTCAGGTGGTTCTCTCG  
TGGTGGGACATTGAAATGGACCTGAGGGGAAGATCAAGTGCACCATGGCCCCCTTCTGGGCACACTCAG  
ACCCAGAGGAGATGCAGTGGCGGGACCACTGGATGCAGTGTGTACTTCTGCCACAAGAGGAGCCTGT  
GGTGCAGGGCTCAGCGCTCTATCTGGTAGCCACCACGATGACTACTGCGTATGGTACAGCCTGCAGAGG  
ACCAGCCCTGAAAAGAAATGAGAGAGTCCGCCAGATGCCCCCGTGTGTGACTGCCAGGCTCACCTGCTCT  
GGAACCGCCTCGGTTTGGAGAGATCAATGACCAGGACAGAAGTATCGATACGTCAGGCTCTGAGGAC  
CGTGCTGAAGCCAGACAGCGTGTGCCTGTGTGTCAGCGATGGCAGCCTGCTCTCCGTGCTGGCCATCAC  
CTGGGGTGGAGCAGGTGTTTACAGTCGAGAGTTCAGCAGCTTCTCACAAGTGTGAGAAAAATCTTCA  
AGGCTAACCACTTGAAGATAAAATTAACATCATAGAGAAACGGCCGGAATTATTAACAAATGAGGACCT  
ACAGGGCAGAAAGGTCTCTCTCCTGGGCGAGCCGTTCTTCACTACCAGCCTGCTGCCGTGCCACAAC  
CTCTACTTCTGGTACGTGCGGACCCTGTGGACCAGCCTGGGGCCAGGTGCCATGGTATGCCCCAGG  
CAGCCTCGCTGCACGCTGTGGTGTGGAGTTCAGGGACCTGTGGCGGATCCGGAGCCCTGTGGTGACTG  
CGAAGGCTTCGACGTGCACATCATGGACGACATGATTAAGCGTGCCTGGACTTCAGGGAGAGCAGGGAA  
GCTGAGCCCCACCGCTGTGGGAGTACCATGCCGCAGCCTCTCCGAGCCCTGGCAGATCCTGACCTTTG  
ACTTCCAGCAGCCGGTGCCTGTCAGCCCTGTGTGCCGAGGGCACTGTGGAGCTCAGAAGGCCCGGGCA  
GAGCCACGCAGCGGTGCTATGGATGGAGTACCCTGACCCCGGAGTGCACGCTCAGCACTGGCCTCCTG  
GAGCCTGCAGACCCCGAGGGGGGCTGCTGCTGGAACCCCACTGCAAGCAGGCCGTCTACTTCTTACGCC  
CTGCCCCAGATCCCAGAGCACTGCTGGGTGGCCACGGACTGTGACATGCAGTGGAGTTTACCCCGA  
CACAGGCGACATCATGAGTTCAGGCATGCAGATACCCAGAC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG201672 representing NM\_019023  
 Red=Cloning site Green=Tags(s)

MKIFCSRANPTTGSVEWLEEDHYDHYQEIARSSYADMLHDKDRNVKYYQGIRAAVSRVKDRGQKALVLD  
 IGTGTGLLSMMAVTAGADFCYAIIEVFKPMADA AVKIVEKNGFSDKIKVINKHSTEVTVGPEGDMPCRANI  
 LVTELFDTELIGEGALPSYEHHRHLVEENCEAVPHRATVYAAQLVESGRMWSWNKLFPIHVQTSLGEQVI  
 VPPVDVESCPGAPSVCDIQLNQVSPADFTVLSDVLPMSIDFSKQVSSSAACHSRRFEPLTSGRAQVVL  
 WWDIEMDPEGKIKCTMAPFWAHS DPEEMQWRDHWMQCVYFLPQEEPVVQGSALYLVAHDDYCVWYSLQR  
 TSPEKNERVRQMRPVCDQAHLLWNRPRFGEINDQDRDTRVYQALRTVLKPDVCLCVSDGSLLSVLAHH  
 LGVEQVFTVESSAASHKLLRKIFKANHLEDKINIIIEKRPELLTNE DLQGRKVSLLLGEFFTTSLLPWHN  
 LYFWYVRTAVDQHLGPGAMVMPQAASLHVVVFRDLWRIRSPCGDCEGFDVHIMDDMIKRALDFRESRE  
 AEPHPLWEYPCRSLSWPQILTFDFQQPVPLQPLCAEGTVELRRPGQSHA AVLWMEYHLTPECTLSTGLL  
 EPADPEGGCCWNPCHKQAVYFFSPADPRALLGGPRTVSYAVEFHPTGDIIMEFRHADTPD

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

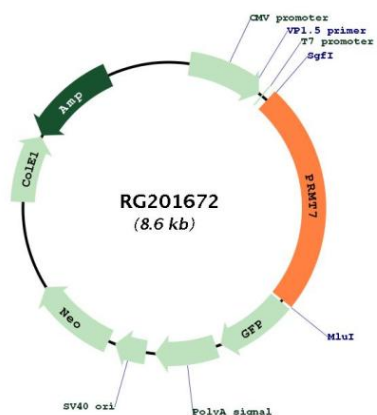


**ACCN:** NM\_019023

**ORF Size:** 2076 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_019023.1</a> , <a href="#">NP_061896.1</a>
<b>RefSeq Size:</b>	2390 bp
<b>RefSeq ORF:</b>	2079 bp
<b>Locus ID:</b>	54496
<b>UniProt ID:</b>	<a href="#">Q9NVM4</a>
<b>Cytogenetics:</b>	16q22.1
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>This gene encodes a member of the protein arginine N-methyltransferase family of proteins. The encoded enzyme transfers single methyl groups to arginine residues to generate monomethylarginines on histone proteins as well as other protein substrates. This enzyme plays a role in a wide range of biological processes, including neuronal differentiation, male germ line imprinting, small nuclear ribonucleoprotein biogenesis, and regulation of the Wnt signaling pathway. Mutations in this gene underlie multiple related syndromes in human patients characterized by intellectual disability, short stature and other features. The encoded protein may promote breast cancer cell invasion and metastasis in human patients. [provided by RefSeq, May 2017]</p>

Product images:



Circular map for RG201672