

Product datasheet for **RG230386**

PRMT7 (NM_001184824) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRMT7 (NM_001184824) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG230386 representing NM_001184824
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAGATCTTCTGCAGTCGGGCAATCCGACCACGGGTCTGTGGAGTGGCTGGAGGAGATGAACACT
 ATGATTACCACCAGGAGATTGCAAGTTCATCTTATGCAGATATGCTACATGACAAAGACAGAGTTTTCAA
 GCCTATGGCTGATGCTGTGGAAGATTGTGGAGAAAAATGGCTTTAGTGATAAGATTAAGTTATCAAC
 AAGCATCCACCAGGTGACTGTAGGTCCAGAGGGTGACATGCCATGCCGTGCCAACATCTGGTACACG
 AGTTGTTTGACACAGAGCTGATCGGGGAGGGGCGCTGCCCTCTATGAGCACGCACACAGGCATCTCGT
 GGAGGAAAATTGTGAGGCCGTGCCCCACAGAGCCACCGTCTATGCACAGCTGGTGGAGTCCGGGAGGATG
 TGGTCGTGGAACAAGCTATTTCCATCCACGTGCAGACCAGCCTCGGAGAGCAGGTATCGTCCCTCCCG
 TTGACGTGGAGAGCTGCCCTGGCGACCCTCTGTCTGTGACATTAGCTGAACCAGGTGTCACCAGCCGA
 CTTTACAGTCTCAGCGATGTGTGCCATGTTACAGCATAGACTTCAGCAAGCAAGTCAGTACTCAGCA
 GCCTGCCATAGCAGGCGTTTGAACCTCTGACATCTGGCCGAGCTCAGGTGGTTCTCTCGTGGTGGGACA
 TTGAAATGGACCCTGAGGGGAAGATCAAGTGCACCATGGCCCCCTTCTGGGCACACTCAGACCCAGAGGA
 GATGCAGTGGCGGACCACTGGATGCAGTGTGTACTTCTGCCACAAGAGGAGCCTGTGGTGCAGGGC
 TCAGCGCTCTATCTGGTAGCCACCACGATGACTACTGCGTATGGTACAGCCTGCAGAGGACCAGCCCTG
 AAAAGAATGAGAGAGTCCGCCAGATGCGCCCCGTGTGTGACTGCCAGGCTCACCTGCTCTGGAACCGGCC
 TCGGTTTGAGAGATCAATGACCAGGACAGAAGTATCGATACGTCAGGCTCTGAGGACCGTGTGAAG
 CCAGACAGCGTGTGCCTGTGTGTCAGCGATGGCAGCCTGCTCTCCGTGCTGGCCCATCACCTGGGGTGG
 AGCAGGTGTTTACAGTCGAGAGTTCAGCAGCTTCTCACAAATGTTGAGAAAAATCTTCAAGGCTAACCA
 CTTGGAAGATAAAATTAACATCATAGAGAAACGGCCGGAATTATTAACAAATGAGGACCTACAGGGCAGA
 AAGGTCTCTCTCCTCTGGGCGAGCCGTTCTTACTACCAGCCTGCTGCCGTGGCACAACCTCTACTTCT
 GGTACGTGCGGACCGCTGTGGACCAGCCTGGGGCCAGGTGCCATGGTATGCCCCAGGCAGCCTCGCT
 GCACGCTGTGGTGTGGAGTTCAGGGACCTGTGGCGGATCCGGAGCCCTGTGGTACTGCGAAGGCTTC
 GACGTGCACATCATGGACGACATGATTAAGCGTGCCTGGACTTCAGGGAGAGCAGGGAAGCTGAGCCCC
 ACCCGTGTGGGAGTACCCATGCCGCAGCCTCTCCGAGCCCTGGCAGATCCTGACCTTTGACTTCCAGCA
 GCCGGTCCCCTGCAGCCCTGTGTGCCGAGGGCACCGTGGAGCTCAGAAGGCCCGGGCAGGCCACGCA
 GCGGTGCTATGGATGGAGTACCACCTGACCCCGAGTGCACGCTCAGCACTGGCCTCCTGGAGCCTGCAG
 ACCCCGAGGGGGCTGCTGCTGGAACCCCACTGCAAGCAGGCCGTCTACTTCTTACGCCCTGCCCCAGA
 TCCCAGAGCACTGCTGGGTGGCCACGGACTGTGACATATGCAGTGGAGTTTACCCCGACACAGGGCAG
 ATCATCATGGAGTTCAGGCATGCAGATACCCAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG230386 representing NM_001184824
 Red=Cloning site Green=Tags(s)

MKIFCSRANPTTGSVEWLEEDHYDHYQEIARSSYADMLHDKDRVFKPMADAAVKIVEKNGFSDKIKVIN
 KHSTEVTVGPEGDMPCRANILVTELFDELIGEGALPSYEAHRHLVEENCEAVPHRATVYAQLVESGRM
 WSNKLFPIHVQTSLEQVIVPPVDVESCVPAPSVCIDIQLNQVSPADFTVLSVLPVPMFSDIDFSKQVSSA
 ACHSRRFEPLTSGRAQVVLSSWWDIEMDPEGKIKCTMAPFWAHSPEEMQWRDHWMQCVYFLPQEEPVVQG
 SALYLVAHHDDYCVWYSLQRTSPEKNERVRQMRPVCDCAHLLWNRPRFGEINDQDRTDRYVQALRTVLK
 PDSVCLCVSDGSLLSVLAHHLGVEQVFTVESSAASHKLLRKIFKANHLEDKINIIIEKRPELLTNEIDLQGR
 KVSLLLGEPTTSLLPWHNLYFYVVRTAVDQHLGPGAMVMPQAASLHVVVEFRDLWRIRSPCGDCEGF
 DVHIMDDMIKRALDFRESREAEPHPLWEYPCRSLSEPWQILTFDFQPPVPLQPLCAEGTVELRRPQGSHA
 AVLWMEYHLTPECTLSTGLLEPADPEGGCCWNPCHKQAVYFFSPAPDPRALLGGPRTVSYAVEFHPDGTG
 IIMEFRHADTPD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_001184824

ORF Size: 1926 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_001184824.3](#)

RefSeq Size: 2193 bp

RefSeq ORF: 1929 bp

Locus ID: 54496

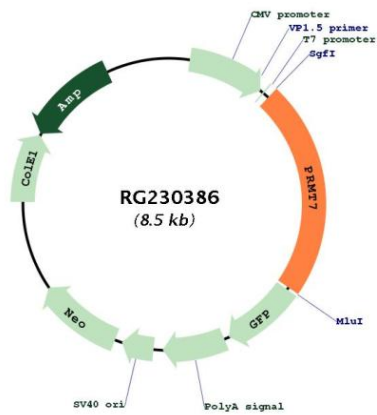
UniProt ID: [Q9NVM4](#)

Cytogenetics: 16q22.1

Protein Families: Druggable Genome

Gene Summary: 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]

Product images:



Circular map for RG230386