

## Product datasheet for **RC230386**

### PRMT7 (NM\_001184824) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PRMT7 (NM_001184824) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PRMT7
Synonyms:	SBIDDS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RC230386 representing NM\_001184824  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAAGATCTTCTGCAGTCGGGCCAATCCGACCACGGGGTCTGTGGAGTGGCTGGAGGAGGATGAACACT  
ATGATTACCACCAGGAGATTGCAAGTCACTTATGCAGATATGCTACATGACAAAGACAGAGTTTTCAA  
GCCTATGGCTGATGCTGTGGAAGATTGTGGAGAAAAATGGCTTTAGTGATAAGATTAAGTTATCAAC  
AAGCATTCCACCGAGGTGACTGTAGGTCCAGAGGGTGACATGCCATGCCGTGCCAACATCCTGGTCACAG  
AGTTGTTTGACACAGAGCTGATCGGGGAGGGGCGCTGCCCTCTATGAGCACGCACACAGGCATCTCGT  
GGAGGAAAATTGTGAGGCCGTGCCCCACAGAGCCACCGTCTATGCACAGCTGGTGGAGTCCGGGAGGATG  
TGGTCGTGGAACAAGCTATTTCCATCCACGTGCAGACCAGCCTCGGAGAGCAGGTATCGTCCCTCCCG  
TTGACGTGGAGAGCTGCCCTGGCGACCCTCTGTCTGTGACATTAGCTGAACCAGGTGTCACCAGCCGA  
CTTTACAGTCTCAGCGATGTGTGCCATGTTACAGCATAGACTTCAGCAAGCAAGTCAGTAGCTCAGCA  
GCCTGCCATAGCAGGCGTTTGAACCTCTGACATCTGGCCGAGCTCAGGTGGTTCTCTCGTGGTGGGACA  
TTGAAATGGACCCTGAGGGGAAGATCAAGTGCACCATGGCCCCCTTCTGGGCACACTCAGACCCAGAGGA  
GATGCAGTGGCGGACCACTGGATGCAGTGTGTACTTCTGCCACAAGAGGAGCCTGTGGTGCAGGGC  
TCAGCGCTCTATCTGGTAGCCACCACGATGACTACTGCGTATGGTACAGCCTGCAGAGGACCAGCCCTG  
AAAAGAATGAGAGAGTCCGCCAGATGCGCCCCGTGTGTGACTGCCAGGCTCACCTGCTCTGGAACCGGCC  
TCGGTTTGGAGAGATCAATGACCAGGACAGAAGTATCGATACGTCAGGCTCTGAGGACCGTGTGAAG  
CCAGACAGCGTGTGCCTGTGTGTCAGCGATGGCAGCCTGCTCTCCGTGCTGGCCCATCACCTGGGGTGG  
AGCAGGTGTTTACAGTCGAGAGTTCAGCAGCTTCTCACAACACTGTTGAGAAAAATCTTCAAGGCTAACCA  
CTTGGAAGATAAAATTAACATCATAGAGAAACGGCCGGAATTATTAACAAATGAGGACCTACAGGGCAGA  
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GGTACGTGCGGACCGCTGTGGACCAGCCTGGGGCCAGGTGCCATGGTATGCCCCAGGACGCTCGCT  
GCACGCTGTGGTTGTGGAGTTCAGGGACCTGTGGCGGATCCGGAGCCCCTGTGGTACTGCGAAGGCTTC  
GACGTGCACATCATGGACGACATGATTAAGCGTGCCCTGGACTTCAGGGAGAGCAGGGAAGCTGAGCCCC  
ACCCGCTGTGGGAGTACCCATGCCGCAGCCTCTCCGAGCCCTGGCAGATCCTGACCTTTGACTTCCAGCA  
GCCGGTGGCCCTGCAGCCCTGTGTGCCGAGGGCACCGTGGAGCTCAGAAGGCCCGGGCAGAGCCACGCA  
GCGGTGCTATGGATGGAGTACCACCTGACCCCGAGTGCACGCTCAGCACTGGCCTCCTGGAGCCTGCAG  
ACCCCGAGGGGGCTGCTGCTGGAACCCCACTGCAAGCAGGCCGTCTACTTCTCAGCCCTGCCCCAGA  
TCCCAGAGCACTGCTGGGTGGCCACGGACTGTGACATATGCAGTGGAGTTTACCCCGACACAGGGCAG  
ATCATCATGGAGTTCAGGCATGCAGATACCCAGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC230386 representing NM\_001184824  
Red=Cloning site Green=Tags(s)

MKIFCSRANPTTGSVEWLEEDHYDHYQEIARSSYADMLHDKDRVFKPMADAAVKIVEKNGFSDKIKVIN  
 KHSTEVTVGPEGDMPCRANILVTELFDELIGEGALPSYEAHRHLVEENCEAVPHRATVYAQLVESGRM  
 WSWNKLFPPIHVQTSLGEQVIVPPVDVESCPCGAPSVCDIQLNQVSPADFTVLSVLPMPFSIDFSKQVSSA  
 ACHSRRFEP L TSGRAQVVL SWWDIEMDPEGKIKCTMAPFWAHS DPEEMQWRDHWMQCVYFLPQE EEPVVQG  
 SALYLVAHHDDYCVWYSLQRTSPEKNERVRQMRPVDCDCQAHLLWNRPRFGEINDQDRTDRYVQALRTVLK  
 PDSVCLCVSDGSLLSVLAHHLGVEQVFTVESSAASHKLLRKIFKANHLEDKINIIIEKRPELLTNE DLQGR  
 KVSLLLGE PFFTTSLLPWHNL YFWYVRTAVDQHLGPGAMVMPQAASLHAVVVEFRDLWRIRSPCGDCEGF  
 DVHIMDDMIKRALDFRESREAEPHPLWEYPCRSLS E PWQILTFDFQQPVLPQLCAEGTVELRRPGQSHA  
 AVLWMEYHLTPECTLSTGLLEPADPEGGCCWNP HCKQAVYFFSPAPDPRALLGGPRTVSYAVEFHPD TGD  
 IIMEFRHADTPD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8071\\_b03.zip](https://cdn.origene.com/chromatograms/mk8071_b03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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 ORF:** 1929 bp

**Locus ID:** 54496

**UniProt ID:** [Q9NVM4](#)

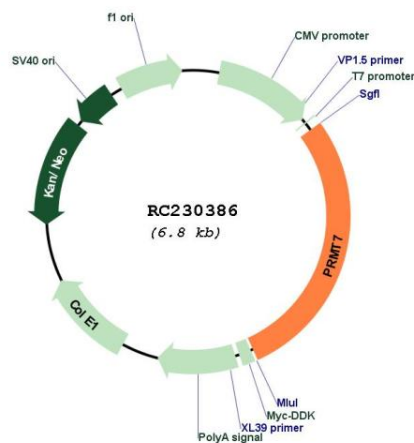
**Cytogenetics:** 16q22.1

**Protein Families:** Druggable Genome

**MW:** 73.6 kDa

**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 RC230386