

Product datasheet for **RC205188**

PRMT8 (NM_019854) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRMT8 (NM_019854) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PRMT8
Synonyms:	HRMT1L3; HRMT1L4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205188 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGGCATGAAACACTCCTCCCGCTGCCTGCTCCTGAGGAGGAAAATGGCGGAGAACGGGCCGAGAGCA
CCGAGGTGAACAGCCCCCTCCAGCCCCCAGCCCGTCGTCCTGCTAAGCCCGTCAATGCGTCCA
TCATGTGTCCACTCAACCCAGCTGCCAGGACGGGGCAAGATGTCCAAGCTGCTGAACCCAGAGGAGATG
ACCTCGAGAGATTACTTTCGACTCCTATGCCACTTTGGGATCCACGAGGAAATGCTGAAGGATGAGG
TGCGGACTCTCACTTACCGAACTCCATGTACCACAACAAGCACGTGTTCAAGGACAAAGTGGTACTGGA
TGTGGGAGTGGTACTGGGATCCTTCCATGTTGCTGCCAAGGCAGGGCCAAGAAGGTGTTGGGATC
GAATGCTCCAGTATTTCTGACTACTCACAGAAGATCATTAAAGCCAACCACTTGGACAACATCATACCA
TATTTAAGGGTAAAGTGGAGAGGTGGAGCTGCCTGTGGAGAAGGTGGACATCATCATCAGCGAGTGGAT
GGGCTACTGTCTGTTCTATGAGTCCATGCTCAACACGGTGATCTTTGCCAGGGACAAGTGGCTGAAACCT
GGAGGGCTTATGTTTCCAGACCGGGCAGCTTTGTACGTGGTAGCGATTGAAGACAGACAGTACAAGGACT
TCAAAATCCACTGGTGGGAGAAATGTCTATGGCTTTGACATGACCTGCATCAGGGACGTGGCCATGAAGGA
GCCTCTAGTGGACATCGTGGATCCAAAGCAAGTGGTGACCAATGCCTGTTTGATAAAGGAGGTGGACATT
TACACAGTGAAGACGGAAGAGCTATCGTTCACATCTGCATTCTGCCTGCAGATACAGCGCAACGACTACG
TCCACGCCCTGGTACCTATTTTAATATTGAATTTACCAAGTGCCACAAGAAAATGGGGTTTTCCACAGC
CCCTGATGCTCCCTACACCCACTGGAAGCAGACCGTCTTCTACTTGGAAGATTACCTCACTGTCCGGAGG
GGGGAGGAAATCTACGGACCATATCCATGAAGCCAAATGCCAAAATGTGCGAGACCTCGATTTACAG
TAGACTTGGATTTAAGGGACAGCTGTGTGAAACATCTGTATCTAATGACTACAAAATGCGT

ACGGTACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC205188 protein sequence
 Red=Cloning site Green=Tags(s)

MGMKHSSRCLLLRRKMAENAAESTEVSPPSPQPVPVPAKPVQCVHHVSTQPSCPGRGKMSKLLNPEEM
 TSRDYYFDSYAHFGIHEEMLKDEVRTLTYRNSMYHNKHVFKDKVLDVSGSGTILSMFAAKAGAKKVFGE
 ECSSISDYSQKIIKANHLDNIIITIFKGGKVEEVELPVEKVDIIISEWMGYCLFYESMLNTVIFARDKWLKP
 GGLMFPDRAALYVVAIEDRQYKDFKIHWWENVYGFDMTCIRDVAMKEPLVDIVDPKQVVTNACLIIKEVDI
 YTVKTEELSFTSAFCLQIQRNDYVHALVTFYFNIEFTKCHKKMGFSTAPDAPYTHWKQTVFYLEDYLTVRR
 GEEIYGTISMKNPNAKNVRDLDFTVDLDFKGQLCETSVSNDYKMR

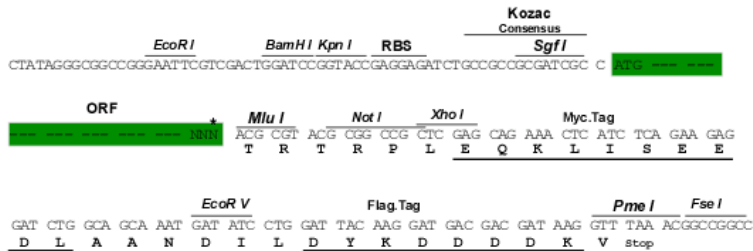
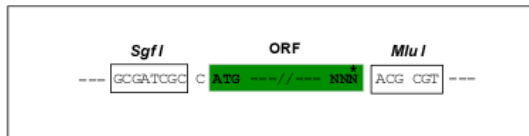
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6196_b05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_019854

ORF Size: 1182 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_019854.5](#)

RefSeq Size: 2417 bp

RefSeq ORF: 1185 bp

Locus ID: 56341

UniProt ID: [Q9NR22](#)

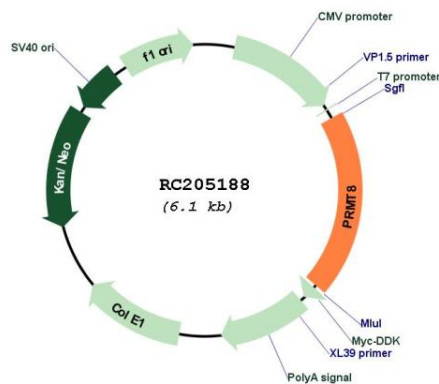
Cytogenetics: 12p13.32

Protein Families: Druggable Genome

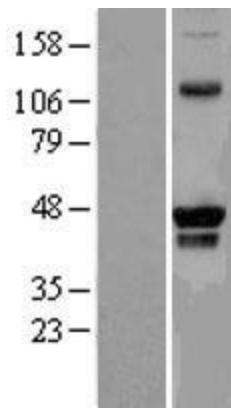
MW: 45.3 kDa

Gene Summary: Arginine methylation is a widespread posttranslational modification mediated by arginine methyltransferases, such as PRMT8. Arginine methylation is involved in a number of cellular processes, including DNA repair, RNA transcription, signal transduction, protein compartmentalization, and possibly protein translation (Lee et al., 2005 [PubMed 16051612]). [supplied by OMIM, Mar 2008]

Product images:



Circular map for RC205188



Western blot validation of overexpression lysate (Cat# [LY402741]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205188 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PRMT8 protein (Cat# [TP305188]). The protein was produced from HEK293T cells transfected with PRMT8 cDNA clone (Cat# RC205188) using MegaTran 2.0 (Cat# [TT210002]).