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Product datasheet for RG205188

PRMT8 (NM_019854) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRMT8 (NM_019854) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PRMT8
Synonyms:	HRMT1L3; HRMT1L4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG205188 representing NM_019854
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCATGAAACACTCCTCCCGCTGCCTGCTCCTGAGGAGGAAAATGGCGGAGAACGCGGCCGAGAGCA
CCGAGGTGAACAGCCCCCCCTCCCAGCCCCCCCAGCCCGTCGTCCCTGCTAAGCCCGTGCAATGCGTCCA
TCATGTGTCCACTCAACCCAGCTGCCCAGGACGGGGCAAGATGTCCAAGCTGCTGAACCCAGAGGAGATG
ACCTCGAGAGATTATTACTTCGACTCCTATGCCCACTTTGGGATCCACGAGGAAATGCTGAAGGATGAGG
TGCGGACTCTCACTTACCGGAACTCCATGTACCACAACAAGCACGTGTTCAAGGACAAAGTGGTACTGGA
TGTGGGGAGTGGTACTGGGATCCTTTCCATGTTCGCTGCCAAGGCAGGGGCCAAGAAGGTGTTTGGGATC
GAATGCTCCAGTATTTCTGACTACTCACAGAAGATCATTAAGGCCAACCACTTGGACAACATCATCACCA
TATTTAAGGGTAAAGTGGAAGAGGTGGAGCTGCCTGTGGAGAAGGTGGACATCATCATCAGCGAGTGGAT
GGGCTACTGTCTGTTCTATGAGTCCATGCTCAACACGGTGATCTTTGCCAGGGACAAGTGGCTGAAACCT
GGAGGGCTTATGTTTCCAGACCGGGCAGCTTTGTACGTGGTAGCGATTGAAGACAGACAGTACAAGGACT
TCAAAATCCACTGGTGGGAGAATGTCTATGGCTTTGACATGACCTGCATCAGGGACGTGGCCATGAAGGA
GCCTCTAGTGGACATCGTGGATCCAAAGCAAGTGGTGACCAATGCCTGTTTGATAAAGGAGGTGGACATT
TACACAGTGAAGACGGAAGAGCTATCGTTCACATCTGCATTCTGCCTGCAGATACAGCGCAACGACTACG
TCCACGCCCTGGTCACCTATTTTAATATTGAATTTACCAAGTGCCACAAGAAAATGGGGTTTTCCACAGC
CCCTGATGCTCCCTACACCCACTGGAAGCAGACCGTCTTCTACTTGGAAGATTACCTCACTGTCCGGAGG
GGGGAGGAAATCTACGGGACCATATCCATGAAGCCAAATGCCAAAAATGTGCGAGACCTCGATTTCACAG
TAGACTTGGATTTTAAGGGACAGCTGTGTGAAACATCTGTATCTAATGACTACAAAATGCGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

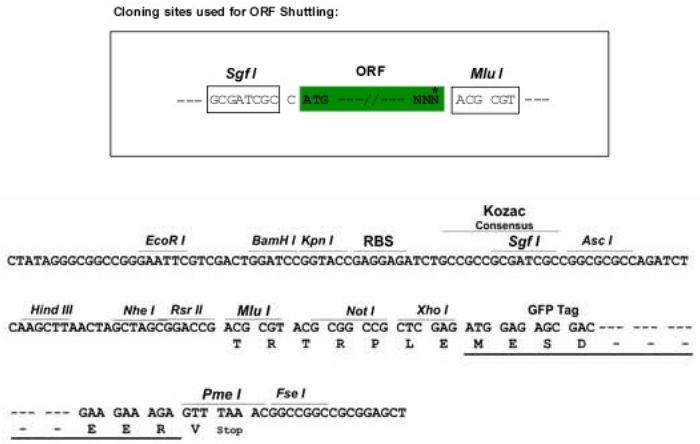
>RG205188 representing NM_019854
Red=Cloning site Green=Tags(s)

MGMKHSSRCLLLRRKMAENAAESTEVNSPPSQPPQPVVPAKPVQCVHHVSTQPSCPGRGKMSKLLNPEEM
TSRDYYFDSYAHFGIHEEMLKDEVRTLTYRNSMYHNKHVFKDKVVLDVGSGTGILSMFAAKAGAKKVFGI
ECSSISDYSQKIIKANHLDNIITIFKGKVEEVELPVEKVDIIISEWMGYCLFYESMLNTVIFARDKWLKP
GGLMFPDRAALYVVAIEDRQYKDFKIHWWENVYGFDMTCIRDVAMKEPLVDIVDPKQVVTNACLIKEVDI
YTVKTEELSFTSAFCLQIQRNDYVHALVTYFNIEFTKCHKKMGFSTAPDAPYTHWKQTVFYLEDYLTVRR
GEEIYGTISMKPNAKNVRDLDFTVDLDFKGQLCETSVSNDYKMR

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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.

RefSeq: NM_019854.3, NP_062828.3

RefSeq Size: 2356 bp

RefSeq ORF: 1185 bp

Locus ID: 56341

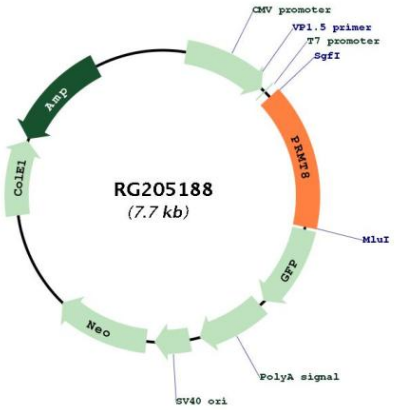
UniProt ID: Q9NR22

Cytogenetics: 12p13.32

Protein Families: Druggable Genome

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 RG205188