

Product datasheet for **RG207787**

HCM (RNMT) (NM_003799) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HCM (RNMT) (NM_003799) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HCM
Synonyms:	cm1p; CMT1; CMT1c; hCMT1; hMet; MET; Met; RG7MT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG207787 representing NM_003799
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAAATTCGCAAAAGCAGAAGAATATGAAAAGATGTCTCTTGAACAGGCAAAAGCGTCAGTGAATT
 CTGAAACAGAGTCTTCATTCAATATTAATGAAAACACAACAGCTTCTGGGACTGGGCTTTCTGAAAAGAC
 TTCTGTCTGTAGGCAAGTAGACATAGCAAGAAAGAGAAAAGAGTTTGAAGATGATCTTGTAAAGGAAAGT
 TCTAGTTGTGGAAAGACACTCCATCCAAGAAGAGAAAACCTTGATCCTGAAATTGTCCCAGAGGAAAAAG
 ATTGTGGTGTGCTGAAGGCAATCAAAGAAAAGAAAAGAGAACTGAGGATGTTCCAAAAGATAAATC
 TTCTACTGGAGATGGCACTCAAATAAGAGAAAAATAGCACTTGAGGATGTTCTGAAAAGCAGAAAAAT
 CTGGAAGAAGGACACAGCTCAACAGTGGCTGCCATTACAATGAAGTTTGGTAAAGGTTGGTAAAGGTTGGA
 GTAGTCAAAGTCGATTTTTTACCTAAGAACTTTAATAATTGGATGAAAAGTGTCTCATTGGAGAATT
 TTTGGAAAAGGTACGACAGAAGAAAAACGTGATCACTGTTTTGGACCTGGGATGTGGTAAAGGTTGGA
 GATTTGCTGAAATGGAAGAAAAGGAATAAACAAGCTAGTTTGTACTGATATTGCCGATGTTTCTGTCA
 AACAGTGTGAGCAGCGGTATGAGGACATGAAAATCGTCGTGATAGTGAATATATTTTCAGTGCAGAATT
 TATAACTGCTGACAGCTCAAAGGAACCTTGATTGACAAATTCGTGACCCACAAATGTGTTTTGACATC
 TGCAGTTGTCAGTTTGTCTGTCTACTCATTGAGTCTTATGAGCAGGCTGACATGATGCTGAGAAATG
 CGTGTGAGAGACTTAGCCCTGGGGGCTATTTTATTGGTACTACTCCAATAGCTTTGAATTGATAAGACG
 CCTTGAAGCTTCAGAAACAGAATCATTGGAAATGAAATATACTGTGAAATTTGAGAAAGGAGAT
 TATCCTTTATTTGGCTGCAAATGACTTCAACTTGAAGGTGTTGTGGATGTTCTGAAATCTTTGGTCT
 ATTTCCATTGCTAAATGAAATGGCAAAGAAGTACAATATGAAACTAGTCTACAAAAAACATTTCTGGA
 ATTCTACGAAGAAAAGATTAAGAACAATGAAAATAAAATGCTCTTAAAACGAATGCAGGCCCTGGAGCCA
 TATCCTGCAAATGAGAGTTCTAAACTTGTCTCTGAGAAGGTGGATGACTATGAACATGCAGCAAAGTACA
 TGAAGAACAGTCAAGTAAGGTTACCTTTGGGAACCTTAAGTAAATCAGAATGGGAAGCTACAAGTATTTA
 CTTGGTGTTCCTTTGAGAAACAGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG207787 representing NM_003799
 Red=Cloning site Green=Tags(s)

MANSKAEYEKMSLEQAKASVNSETESSFNINENTTASGTGLSEKTSVCRQVDIARKRKEFEDDLVKES
 SSCGKDTPSKKRKLDPDIVPEEKDCGDAEGNSKKRRETEDVPKDKSSTGDGTQNKRIALDVPKQKN
 LEEGHSSTVAAHYNELQEVGLEKRSQSRIFYLRNFNMMKSVLIGEFLEKVRQKKRDTITVLDLGGCKGG
 DLLKWKKGRIKLVCTDIADVSVKQCQRYEDMKNRRDSEYIFSAEFITADSSKELLIDKFRDPQMCFDI
 CSCQFVCHYSFESYEQADMMLRNACERLSPGGYF IGTTPNFELIRRLEASETESFGNEIYTVKFQKKGD
 YPLFGCKYDFNLEGVVDVPEFLVYFPLLNEMAKKYNMMLVYKKTFLFYEEKIKNNENKMLLKRMQALEP
 YPANESSKLVSEKVDDYEHAAKYMKNSQVRLPLGTLKSEWEATSIYLVFAFEKQQ

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_003799

ORF Size: 1428 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_003799.3](#)

RefSeq Size: 6203 bp

RefSeq ORF: 1431 bp

Locus ID: 8731

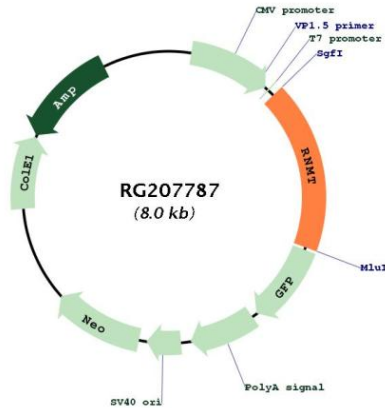
UniProt ID: [O43148](#)

Cytogenetics: 18p11.21

Domains: Pox_MCEL

Gene Summary: Catalytic subunit of the mRNA-capping methyltransferase RNMT:RAMAC complex that methylates the N7 position of the added guanosine to the 5'-cap structure of mRNAs (PubMed:9790902, PubMed:9705270, PubMed:10347220, PubMed:11114884, PubMed:22099306, PubMed:27422871). Binds RNA containing 5'-terminal GpppC (PubMed:11114884).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG207787