

Product datasheet for **RC207787**

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:	Myc-DDK
Symbol:	HCM
Synonyms:	cm1p; CMT1; CMT1c; hCMT1; hMet; MET; Met; RG7MT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC207787 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCAAATTCGCAAAAGCAGAAGAATATGAAAAGATGTCTCTTGAACAGGCAAAAGCGTCAGTGAATT
 CTGAAACAGAGTCTTCATTCAATATTAATGAAACACAACAGCTTCTGGGACTGGGCTTTCTGAAAAGAC
 TTCTGTCTGTAGGCAAGTAGACATAGCAAGAAAGAGAAAAGAGTTTGAAGATGATCTTGTAAAGGAAAGT
 TCTAGTTGTGGGAAAGACACTCCATCCAAGAAGAGAAAACCTTGATCCTGAAATTGTCCCAGAGGAAAAAG
 ATTGTGGTGATGCTGAAGGCAATTCAAAGAAAAGAAAAGAGAACTGAGGATGTTCCAAAAGATAAATC
 TTCTACTGGAGATGGCACTCAAATAAGAGAAAAATAGCACTTGAGGATGTTCTGAAAAGCAGAAAAAT
 CTGGAAGAAGGACACAGCTCAACAGTGGCTGCCATTACAATGAAGTTGAGGAGTTGGTTTGGAGAAGC
 GTAGTCAAAGTCGTATTTTTACCTAAGAACTTTAATAATTGGATGAAAAGTGTCTCATTGGAGAATT
 TTTGAAAAGGTACGACAGAAGAAAAACGTGATCACTGTTTTGGACCTGGGATGTGGTAAAGGTGGA
 GATTTGCTGAAATGGAAGAAAAGGAAGAAATTAACAAGCTAGTTTGTACTGATATTGCCGATGTTTCTGTCA
 AACAGTGTGAGCAGCGGTATGAGGACATGAAAAATCGTCGTGATAGTGAATATATTTTCAGTGCAGAATT
 TATAACTGCTGACAGCTCAAAGGAACCTTCTGATTGACAAATTCGTGACCCACAAATGTGTTTTGACATC
 TGCAGTTGTGAGTTTGTCTGTCTTACTCATTGAGTCTTATGAGCAGGCTGACATGATGCTGAGAAATG
 CGTGTGAGAGACTTAGCCCTGGGGGCTATTTTATTGGTACTACTCCCAATAGCTTTGAATTGATAAGACG
 CCTTGAAGCTTCAGAAACAGAATCATTTGGAATGAAATATATACTGTGAAATTTGAGAAAGGAGAT
 TATCCTTTATTTGGCTGCAATATGACTTCAACTTGAAGGTGTTGTGGATGTTCTGAATTCCTGGTCT
 ATTTTCCATTGCTAAATGAAATGGCAAGAAGTACAATATGAACTAGTCTACAAAAAACATTTCTGGA
 ATTCTACGAAGAAAAGATTAAGAACAATGAAATAAAATGCTCTTAAACGAATGCAGGCCTTGGAGCCA
 TATCCTGCAATGAGAGTTCTAACTTGTCTCTGAGAAGGTGGATGACTATGAACATGCAGCAAGTACA
 TGAAGAACAGTCAAGTAAGGTTACCTTTGGGAACCTTAAGTAAATCAGAAATGGGAAGCTACAAGTATTTA
 CTTGGTGTTCCTTTGAGAAACAGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207787 protein sequence
 Red=Cloning site Green=Tags(s)

MANSKAEYEKMSLEQAKASVNSETESSFNINENTTASGTGLSEKTSVCQVQDIARKRKEFEDDLVKES
 SSCGKDTSPSKRKLDPEIVPEEKDCGDAEGNSKKRKRETEVPKDKSSTGDGTQNKRKIALEDVPEKQKN
 LEEGHSSSTVAAHYNELQEVGLEKRSQSRIFYLRNFNWMMKSVLIGEFLEKVRQKKRDTITVLDLGCCKGG
 DLLKWKGRINKLVCTDIADVSVKQCQRYEDMKNRRDSEYIFSAEFITADSSKELLIDKFRDPQMCFDI
 CSCQFVCHYSFESYEQADMMLRNACERLSPGGYFIGTTPNSFELIRRLEASETESFGNEIYTVKFQKKGD
 YPLFGCKYDFNLEGVVDVPEFLVYFPLLNEMAKKYNMMLVYKKTFLFYEEKIKNNENKMLLKRMQALEP
 YPANESSKLVSSEKVDYEHAAKYMKNQVRLPLGTLKSEWEATSIYLVFAFEKQK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

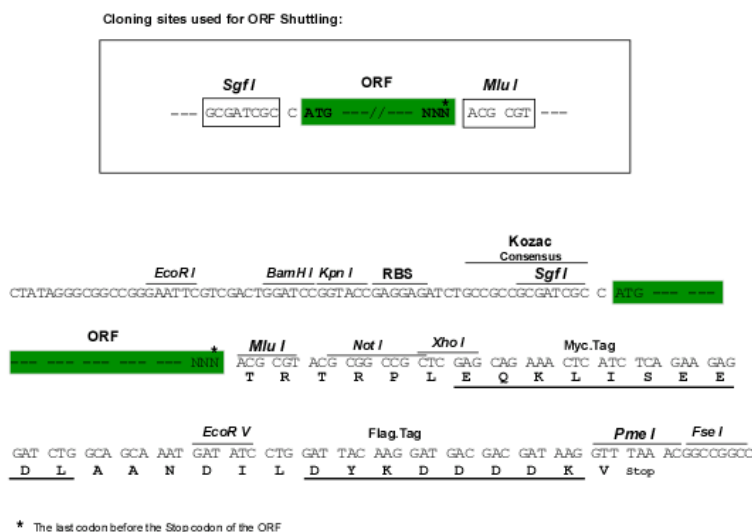
Chromatograms:

https://cdn.origene.com/chromatograms/mk6516_g03.zip

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.

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

RefSeq: NM 003799.3

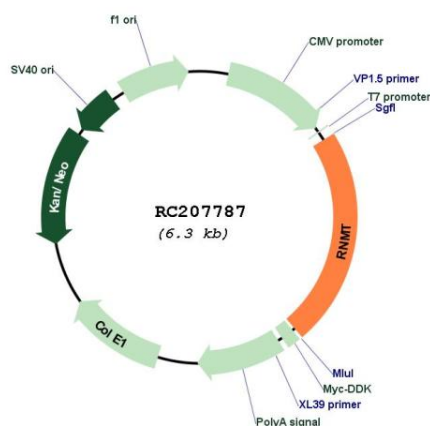
RefSeq Size: 6203 bp

RefSeq ORF: 1431 bp

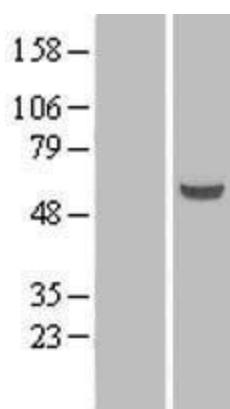
Locus ID: 8731

UniProt ID:	O43148
Cytogenetics:	18p11.21
Domains:	Pox_MCEL
MW:	54.8 kDa
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]

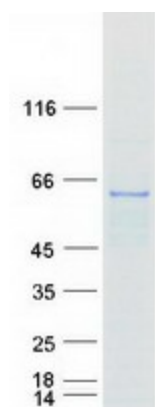
Product images:



Circular map for RC207787



Western blot validation of overexpression lysate (Cat# [LY418425]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207787 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RNMT protein (Cat# [TP307787]). The protein was produced from HEK293T cells transfected with RNMT cDNA clone (Cat# RC207787) using MegaTran 2.0 (Cat# [TT210002]).