

## Product datasheet for **SC117770**

### HCM (RNMT) (NM\_003799) Human Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                              |
| Product Name:             | HCM (RNMT) (NM_003799) Human Untagged Clone      |
| Tag:                      | Tag Free   |
| Symbol:                   | HCM  |
| Synonyms:                 | cm1p; CMT1; CMT1c; hCMT1; hMet; MET; Met; RG7MT1 |
| Mammalian Cell Selection: | None   |
| Vector:                   | <u><a href="#">pCMV6-XL4</a></u>                 |
| E. coli Selection:        | Ampicillin (100 ug/mL)                           |



[View online »](#)

**Fully Sequenced ORF:** >OriGene ORF within SC117770 sequence for NM\_003799 edited (data generated by NextGen Sequencing)

```

ATGGCAAATTCGCAAAAAGCAGAAGAATATGAAAAGATGTCTCTTGAACAGGCAAAAAGCG
TCAGTGAATTCTGAAACAGAGTCTTCATTCAATATTAATGAAAACACAACAGCTTCTGGG
ACTGGGCTTTCTGAAAAGACTTCTGTCTGTAGGCAAGTAGACATAGCAAGAAAGAGAAAA
GAGTTTGAAGATGATCTGTAAAGGAAAGTTCTAGTTGTGGGAAAGACACTCCATCCAAG
AAGAGAAAACTTGATCCTGAAATTTGCCAGAGGAAAAAGATTGTGGTGATGCTGAAGGC
AATTCAAAGAAAAAGAAAAAGAGAAACTGAGGATGTTCCAAAAGATAAATCTTCTACTGGA
GATGGCACTCAAAATAAGAGAAAAATAGCACTTGAGGATGTTCCCTGAAAAGCAGAAAAAT
CTGGAAGAAGGACACAGCTCAACAGTGGCTGCCATTACAATGAACTTCAGGAAGTTGGT
TTGGAGAAGCGTAGTCAAAGTCGATTTTTTACCTAAGAACTTTAATAATTGGATGAAA
AGTGTCTCATTGGAGAATTTTTGGAAAAGGTACGACAGAAGAAAAACGTGATCACT
GTTTTGGACCTGGGATGTGGTAAAGGTGGAGATTGCTGAAATGGAAAAAGGAAGAATT
AACAGCTAGTTTGTACTGATATTGCCGATGTTTCTGTCAAACAGTGTGACGAGCGGTAT
GAGGACATGAAAAATCGTCGTGATAGTGAATATTTTTAGTGCAGAATTTATAACTGCT
GACAGCTCAAAGGAACCTCTGATTGACAAATTTCTGTGACCCACAATGTGTTTTGACATC
TGCAAGTTGTCAGTTTGTCTGTCTACTCATTGAGTCTTATGAGCAGGCTGACATGATG
CTGAGAAATGCGTGTGAGAGACTTAGCCCTGGGGCTATTTTTATTGGTACTACTCCCAAT
AGCTTTGAATTGATAAGACGCCTTGAAGCTTCAGAAACAGAAATCATTGGAAATGAAATA
TATACTGTGAAATTTGAGAAGAAAGGAGATTATCCTTTATTTGGCTGCAAAATGACTTC
AACTTGGAAAGGTGTTGTGGATGTTCTGAACTTCTGGTCTATTTCCATTGCTAAATGAA
ATGGCAAAGAAGTACAATATGAAACTAGTCTACAAAAAACATTTCTGGAATTTCTACGAA
GAAAAGATTAAGAACAATGAAAAATAAAATGCTCTTAAAACGAATGCAGGCCTTGGAGCCA
TATCCTGCAAATGAGAGTTCTAAACTTGTCTCTGAGAAGGTGGATGACTATGAACATGCA
GCAAAGTACATGAAGAACAGTCAAGTAAGGTTACCTTTGGGAACCTTAAGTAAATCAGAA
TGGGAAGCTACAAGTATTTACTTGGTGTTCCTTTGAGAAACAGCAGTGA

```

Clone variation with respect to NM\_003799.1

**5' Read Nucleotide Sequence:**

```

>OriGene 5' read for NM_003799 unedited
TACAAATTTTGNATAACGACTCACTATAGGGCGGCCGGAATTCGCACGAGTGGATGTG
TGAACCTATTGGGTACTGTACAACCTCAAGCCTCGAAATCAGATAGGCACCACCAACCTC
ATTTCTGTGTTTACCTTGATTTTCTGTGATACCAAAATCTCAGCTTCACAAAGTCATTGA
AAGTGTGGTTTCAATGAAGTTTACCATCAATCAAGTAATCATAAATGGCAAATTTCTGCA
AAAGCAGAAGAATATGAAAAGATGTCTCTTGAACAGGCAAAAGCGTCAGTGAATTTCTGAA
ACAGAGTCTTCATTCAATATTAATGAAAACACAACAGCTTCTGGGACTGGGCTTTCTGAA
AAGACTTCTGTCTGTAGGCAAGTAGACATAGCAAGAAAGAGAAAAAGAGTTTGAAGATGAT
CTTGTAAGGAAAGTTCTAGTTGTGGGAAAGACTCCATCCAAGAAGAGAAAACTTGAT
CCTGAAATTTGCCAGAGGAAAAAGATTGTGGTGATGCTGAAGGCAATTCAAAGAAAAAG
AAAAGAGAAACTGAGGATGTTCCAAAAGATAAATCTTCTACTGGAGATGGCACTCANAAT
AAGAGAAAAATAGCACTTGANGATGTTCTGANAAGCAGAAAAATCTGGAAGAAGGACAC
AGCTCAACAGTGGGCTGCCATTTACATGAACTTCANGAAGTTGGTTTTGNAGAAGCGTAGT
CAAAGTCGATTTTTTACCTAAGAACTTTNATAATTGGATGAAAAAGTGTCTCATTGGA
GAATTTTTGGAAAAAGTACGACAGAAGAAAAACGTGATCACTGTTTTTACCTGGGA
TGTTGTAAAAGTTGGAGAATTGCTGAAATGGAAAAAGGNAGAATTACCAGCTATTTTGT
ACTGATATGCCGAAGTTTCTGTCAAACATGTCCACACGGTATTAAGACATAN

```

|                                     |   |
|-------------------------------------|---|
| <b>3' Read Nucleotide Sequence:</b> | >OriGene 3' read for NM_003799 unedited<br>NTACTTTGGACGCGCCGCTTCTANATTTTTTTTTCAGAAAACAGTATGTGGTTTATTCAC<br>ACAATGAAATATTATACAACCATGAGAATGAAAATCCATGTACAAATACATGCAACAAAA<br>ATCTCACAAACATAATATTGGTGAAGAAACCAGATACGAAGAATGCATAATTCATTT<br>ATATATCTCCCCAAACCAGACAGAACTAATCTATGCGCTTAGAACTCAGGATAGTGGTTT<br>CCCTTGGAGAGGTAGTTAACTGGAAGGAATCTGACGGGGGCTTCTGGGGTGCCGATTG<br>TATGCACGTGCTCCACTTGCAGAAAATCATCGATGTGTTTCTATAGCTACACTTTAATAA<br>AAACCTAAACAAACCGATTTGCCTCTGTCCGGATACTCGACTCAACACTGACAAAAATGT<br>TTCTTTGCTCTCAGCCTCTCACCTTTGGCTACACTGTTCCACCCGCGATGCTCAGTTCC<br>TGCCACTCGCAAATCGCGAGGCTCTTACCAGACCCCCCCCCCTGCCACGCCGCTCT<br>ATTATACTCTCCCCCTCCCCCCCCCTCAACCACCATGTCCCCCTTCCATTTCCCGCC<br>CTCTCTCCCTCCCTCCCCCCCCCCCCCTCGCTCCTCGCTCCGCCCCCTCATTGT<br>CTACCCCGGCCCTTCGCGCGCCCCGCTCCTCCTCCATTTTTTGCCTTTTTCCCGCC<br>CCGTTCCCGCCCGCCCCCTTTCCCCCGCGCTCCTTTTCTCGCCCCCTTTTCG<br>CCCCCCGGTCCGTGCTCGGCCGCGCCCCCGTTTCCCCCGCCCCCGTTTAGCCCG<br>CCGCCCGCGCCGCGGACGCCCGGCTTCCCGCGCCCGCCCGCCCATTTGCGCGCCGA<br>GGCTCCGTGCGCCGCCCGCTTCTCCTCGTTGACCGCGCCGTTCCCTGCCCGCT |
| <b>Restriction Sites:</b>           | NotI-NotI   |
| <b>ACCN:</b>                        | NM_003799   |
| <b>Insert Size:</b>                 | 3900 bp   |
| <b>OTI Disclaimer:</b>              | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).  |
| <b>Components:</b>                  | 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).  |
| <b>Reconstitution Method:</b>       | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>   |
| <b>RefSeq:</b>                      | <a href="#">NM_003799.1</a> , <a href="#">NP_003790.1</a>   |
| <b>RefSeq Size:</b>                 | 6203 bp   |
| <b>RefSeq ORF:</b>                  | 1431 bp   |
| <b>Locus ID:</b>                    | 8731  |
| <b>UniProt ID:</b>                  | <a href="#">O43148</a>  |
| <b>Cytogenetics:</b>                | 18p11.21  |
| <b>Domains:</b>                     | 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]

Transcript Variant: This variant (2) has an alternate 3' terminal exon, and differs in the 3' UTR and 3' coding region, compared to variant 1. The encoded isoform (2) has a shorter and distinct C-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.