

## Product datasheet for SC115419

### CMT (ICMT) (NM\_012405) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CMT (ICMT) (NM_012405) Human Untagged Clone
Tag:	Tag Free
Symbol:	CMT
Synonyms:	HSTE14; MST098; MSTP098; PCCMT; PCMT; PPMT
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115419 sequence for NM_012405 edited (data generated by NextGen Sequencing)

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ATGGCGGGCTGCGCGCGCGGGCTCCGCCGGGCTCTGAGGCGCGTCTCAGCCTCGCCACC
TTCCTGCTGGGGCCTCGGTGCTCGCGCTGCCGCTGCTCACGCGCGCCGGCCTGCAGGGC
CGCACC GGCTGGCGCTTACGTGGCCGGGCTCAACGCGCTGCTGCTGCTGCTATCGG
CCGCCTCGCTACCAGATAGCCATCCGAGCTTGTTCCTGGGGTTTGTGTTGCGCTGCGGC
ACGCTGCTAAGTTTTAGCCAGTCTTCTTGGAGTCACTTTGGTGGTACATGTGCTCCCTG
TCATTGTTCCACTATTCTGAATACTTGGTACAGCAGTCAATAATCCCAAAGTCTGTCC
TTGGATTCTTTCTCCTGAATCACAGCCTGGAGTATACAGTAGCTGCTTTTCTTCTGG
TTAGAGTTCACACTTGAAAATATCTTTTGGCCAGAAGTGAAGCAGATTACCTGGCTCAGT
GTCACAGGGCTGCTGATGGTGGTCTTCGGAGAATGTCTGAGGAAGCGGCATGTTTACA
GCTGGCTCCAATTTCAACCACGTGGTACAGAATGAAAAATCAGATACACATACTCTGGTG
ACCAAGTGGAGTGTACGCTTGGTTTCGGCATCCTTCTTACGTGGGTGGTTTTACTGGAGT
ATTGAACTCAGGTGATGCTGTGTAACCCCATCTGCGGCGTCAGCTATGCCCTGACAGTG
TGGCGATTCTCCGCGATCGAACAGAAGAAGAAGAAATCTCACTAATCACTTTTTTGGG
GAGGAGTACCTGGAGTATAAGAAGAGGGTGCCACGGGCTGCCTTTCATAAAGGGGGTC
AAGGTGGACCTGTGA

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Clone variation with respect to NM\_012405.3



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_012405 unedited  
 NCGTTCGAGATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGCCGCCG  
 CCGCTAGTCCGCCCGCCGGCCATGGCGGGCTGCGCGGCGCGGGCTCCGCCGGGCTCTG  
 AGGCGCGTCTCAGCCTCGCCACCTTCTGCTGGCGCCTCGGTGCTCGCGCTGCCGCTGC  
 TCACGCGCGCCGGCTGCAGGGCCGACCGGGCTGGCGCTCTACGTGGCCGGGCTCAACG  
 CGCTGCTGCTGCTCTATCGGCCGCTCGCTACCAGATAGCCATCCGAGCTTGTTC  
 TGGGGTTTGTGTTCCGGCTGCGGCACGCTGCTAAGTTTTAGCCAGTCTTCTTGAGTCACT  
 TTGGCTGGTACATGTGCTCCCTGTCATTGTTCCACTATTCTGAATACTTGGTGACAGCAG  
 TCAATAATCCCAAAGTCTGTCTTGGATTCTTTCTCCTGAATCACAGCCTGGAGTATA  
 CAGTAGCTGCTCTTCTTCTTGGTTAGAGTTCACACTTAAAAATATCTTTTGGCCAGAAC  
 TGAAGCAGATTACCTGGCTCAGTGTACAGGGCTGCTGATGGTGGTCTTCGGAGAATGTC  
 TGAGGAAGGCGGCATGTTTACAGCTGGCTCCAATTTCAACCACGTGGTACAGAATGAAA  
 AATCAGATACACATACTCTGGTACCAGTGGAGTGTACGCTTGGTTTCGGCATCTTCTT  
 ACGTCGGGTGGTTTTACTGGAGTATTGGAACCTCANGTGTGCTGTGTAACNCATCTGCG  
 GCGTCAGCTATGCCCTGACAGTGTGGCGATTCTCCGCGATCGAACAGAAGAAGAAGAAA  
 TCTCACTAATCACTTTTTTGGAGAGGAGTACCTGGAGTATAAGAAGAGGGTGCCACGG  
 GCCTGCCTTTCATAAGGGG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_012405 unedited  
 TTAATAACTTT  
 TTTTTCAAAAAATAAGTCATATTTCCGGAGTTGAAAAAGGCTTTTTTGAACATACTTTTT  
 AGGGTTCGGGCCCAATTAACCAATGTCGGCCCTTTTTTGGGGAGCTTTAAAACAGAACA  
 TTTTTTTTTGGGGCCCCCCCCACATTTGAGGATAAAAAACATTTGAAATTGTTTTTTAA  
 GCCCAAAAACCCCGGGGAGGAGGGGTTTTGACCCCTTTCACAAATGGGGAGGTC  
 TAGGCCCGGAAAGTTTAGGGGCTCCCCACAGCCGGGGGGGGGCAACAAAGGGGGG  
 TTTGGCCCCGCCCAACCCCGCCTTAAATTAACACTTTTTTAAGGGCCCCGAAACACTG  
 GAGGGGAGGTTCTCACCTGAGGCCAATTTCTGTCTATTCCAAAATGAACCCAGCGTCC  
 CACCTCTTAAAGCTTCGAGGGGGGACTAAAAGCCAATTTACTCTCCAAACTTGCAAAAC  
 AAACATACGGGCTGAATCTTATTGGGGACTATTGGCAGTATTAATAATTTTTTGAAG  
 CCAATCGGCTTGGATTTGAAGTTGTATATGCCCAATCCCTTTGGAAAACAGTTTGAAT  
 GACTGGAGGGACAATGTTATTTTGAGAACAAAAACAGAAAAACAAATTTCTGAGACTGGC  
 CTTGAAATTGAAAATTAAGCTATGGTAAAAGGAANATCAAATCCAATAAACGGGAAAC  
 ACCCCCTTCTAAAGTTTAAAGGCCCCCCCAGGGCAAGCCTTTCAGTAAGCCCTTCTTG  
 GAACAAAA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_012405

**Insert Size:**

2650 bp

**OTI Disclaimer:**

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).

**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\\_012405.2](#), [NP\\_036537.1](#)

**RefSeq Size:** 3547 bp

**RefSeq ORF:** 855 bp

**Locus ID:** 23463

**UniProt ID:** [O60725](#)

**Cytogenetics:** 1p36.31

**Domains:** ICMT

**Protein Families:** Transmembrane

**Gene Summary:** This gene encodes the third of three enzymes that posttranslationally modify isoprenylated C-terminal cysteine residues in certain proteins and target those proteins to the cell membrane. This enzyme localizes to the endoplasmic reticulum. Alternative splicing may result in other transcript variants, but the biological validity of those transcripts has not been determined. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) encodes the longer isoform (1) of this protein.