

Product datasheet for **RG207000**

CMT (ICMT) (NM_012405) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	CMT
Synonyms:	HSTE14; MST098; MSTP098; PCCMT; PCMT; PPMT
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG207000 representing NM_012405
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCGGGCTGCGCGGCCGCGGGCTCCGCCGGGCTCTGAGGCGCGTCTCAGCCTCGCCACCTTCCTGCTGG
GCGCCTCGGTGCTCGCGCTGCCGCTGCTCACGCGCGCCGGCTGCAGGGCCGCACCGGGCTGGCGCTCTA
CGTGGCCGGGCTCAACGCGTCTGCTGCTGCTCTATCGGCCGCTCGTACCAGATAGCCATCCGAGCT
TGTTTCCTGGGTTTGTGTTGCGGTGCGGCACGCTGCTAAGTTTTCAGCAGTCTTCTGGAGTCACTTTG
GCTGGTACATGTGCTCCCTGTCAATTGTTCCACTATTCTGAATACTTGGTGACAGCAGTCAATAATCCCAA
AAGTCTGTCCTTGGATTCTTTCTCTGAATCACAGCCTGGAGTATACAGTAGCTGCTTTCTTTCTTGG
TTAGAGTTCACACTTGAATATCTTTGGCCAGAAGTGAAGCAGATTACCTGGCTCAGTGTCACAGGGC
TGCTGATGGTGGTCTTCGGAGAATGTCTGAGGAAGGCGGCCATGTTACAGCTGGCTCCAATTTCAACCA
CGTGGTACAGAATGAAAAATCAGATACACATACTCTGGTGACCAGTGGAGTGTACGCTTGGTTTCGGCAT
CCTTCTTACGTCGGGTGGTTTTACTGGAGTATTGGAATCAGGTGATGCTGTGTAACCCCATCTGCGGGC
TCAGCTATGCCCTGACAGTGTGGCGATTCTTCGCGATCGAACAGAAGAAGAAATCTCACTAATTCA
CTTTTTGGAGAGGAGTACCTGGAGTATAAGAAGAGGTGCCACGGGCTGCCTTTTCATAAAGGGGTC
AAGGTGGACCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG207000 representing NM_012405
Red=Cloning site Green=Tags(s)

MAGCAARAPPGSEARLSLATFLLGASVLAPELLTRAGLQGRGLALYVAGLNALLLLYRPPRYQIAIRA
CFLGFVFGCGTLLSFSSQSSWSHFGWYMCSLSLFHYSEYLVAVNNPKSLSDSFLNHSLEYTVAALSSW
LEFTLENIFWPELKQITWLSVTGLLMVVFGECLRKAAMFTAGSNFNHVVQNEKSDHTLVTSGVYAWFRH
PSYVGWFYWSIGTQVMLCNPICGVSYALTVWRFDRTEEEEISLIHFFGEEYLEYKKRVPTGLPFIKGV
KVDL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCGCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

--- GAA GAA AGA GTT TAA ACGGCCGCGCGGAGCT

- - E E R V Stop

ACCN: NM_012405

ORF Size: 852 bp

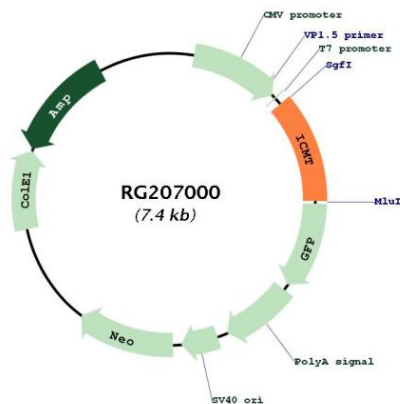
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_012405.4
RefSeq Size:	4815 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]

Product images:



Circular map for RG207000