

Product datasheet for **RG202227**

LCMT2 (NM_014793) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LCMT2 (NM_014793) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LCMT2
Synonyms:	PPM2; TYW4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG202227 representing NM_014793
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGCCCGGAGCCGTGAGCGTCGGGCAGGCGCGGTACAGAACACCAACGACAGCAGCGCCCTCAGCA
 AGCGTTCCCTGGCCGCGCGGGTACGTGACAGGACCCCTTTCGCCGTTGCTGGTCCGGGCGCGCGCG
 CCGCGCACCGCTCATTACCCGAGGCTACTACGTCCGCGCACGCGCGGTGAGGCACTGCGTGCGCGTTTT
 TTGGAGCAGATTGGCGGCCAGGCCGCGCTTCGCGCGCAGATCTTGTCTCTCGGCGCTGGCTTCGACT
 CGCTCTATTTTCGCTTAAAAACCGGGCCGCTGGCCCGGGTGCAGTCTGGGAGTGGATTTCCGGA
 CGTGGCGCGCGCAAAGCAGAAAGGATTGGAGAGACGCCAGAGCTGTGCGGTTAACCGGCCCTTCGAG
 AGGGGGGAGCCCGCTCCGCGTGTGCTTTGAGAGCGCAGACTACTGCATCCTGGGTCTGGACTTGGCG
 AGCTCCAGCGAGTGGAGGAGCCCTGGGCGCCGCGGGGCTCGACGCAGCCTCACCACTCTGCTCCTGGC
 CGAGGCGGTGCTGACCTACCTCGAGCCGAGAGTGCCGCGGCCCTCATCGCTGGCAGCCAGCGTTTT
 CCTAATGCCCTTTTCGTGGTCTATGAGCAGATGAGGCCTCAAGACGCCTTTGGCCAGTTCATGCTGCAAC
 ATTTTCGGCAGCTAAACTCCCCCTGCATGGCCTGGAGCGTTTTCTGACGTGGAGGCGCAGCGGCCCG
 CTTCTTCAAGCTGGCTGGACCGCTGCGGTGCGGTGGACATGAATGAATTCTATCACTGCTTTCTTCCC
 GCAGAAGAAGCCGGCGGGTGGAAAATATTGAACCCTTTGACGAATTTGAGGAGTGGCATCTGAAGTGGC
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 GGCATTTCTCGCGTAACTCTGCTTCGCTTCAGGGGATTCCCTGCCAGCGTAGTCAGTAGCGAGGGC
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 GAGGATTTGGAGAGCAGGAGGGCGGCACTGCCGAGTGAAGGAGTTTCACTTGTCTCAAGAGATTGTGA
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 TCCATGTAGGGACAATGGCTTGGTTCAGGATCCAGTGGAGGGAGAAGTACCTGAAGCCCGCATTCTCA
 CAGTGCCTGCACTTGGCAAGGGGAGCCCTTATTGCTGGAGGTCTCGGGCTTCTGAGGAGCCATTGAAC
 TCTGTGCTTTTCTGAGACCAATCTTGTGGATTCTCTGGGAGTCACTAGACATCCAGCCTCCATTA
 CCCAAGTACTCCACACAGCTCATGTGCTCAATGGAAAGCTGTACTGGTTGGAGGGATCTGGATTCA
 TTCTCTCATTTCTGGAGTACTGTGATCAATTTGACTACAGGATTGAGCTCTGAGTATCAGATTGAC
 ACAACATATGTGCCATGGCCATTAATGTTACACAACCACTACTAGTATCCTTCTTCTGAAGAGCAACAGC
 TCTGTCTCTTGGAGGTGGTGGAACTGCTTTTCTTTGGTACCTACTTCAACCCCATACAGTCACATT
 AGACCTTCTTCTTAAGTGTGGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202227 representing NM_014793
 Red=Cloning site Green=Tags(s)

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MGPRSRRERAGAVQNTNDSSALSKRSLAARGYVQDPFAALLVPGAARRAPLIHRGYVVRARAVRHCVRAF
LEQIGAPQAALRAQILSLGAGFDSL YFRLKTAGRLARAAVWEVDFPDVARRKAERIGETPEL CAL TGPFE
RGEPASALCFESADYICILGLDLRQLQRVEEALGAAGLDAASPTLLLAEAVLTYLEPESAAALIAWAAQRF
PNALFVVYEQMRPQDAFGQFMLQHFRQLNSPLHGLERFPDVEAQRRRFLQAGWTACGAVDMNEFYHCFLP
AEERRRVENIEPFDEFEEWHLKCAHYFILAASRGDTLSHTLVFPSSSEAFPRVNPASPSGVFPASVVSSEG
QVPNLKRYGHASVFLSPDVILSAGGFGEQEGRHCVRVQFHL LSRDCDSEWKGSQIGSCGTGVQWDGRLYH
TMTRLSESRVLVLGGRLSPVSPALGVLQLHFFKSEDNNTEDLKVTITKAGRKDDSTLCCWRHSTTEVSCQ
NQEYLFVYGGRSVVEPVLSDWHFLHVGTMWVVRIPVEGEVPEARHSHSACTWQGGALIAGGLGASEEPLN
SVLFLRPI SCGFLWESVDIQPPI TPRYSHTAHLVNGKLLL VGGIWIHSSSFPGVTVINLTTGLSSEYQID
TTYVPWPLMLHNHTSILLPEEQQLLLLGGGNCFSFGTYFNPHVTLDLSSLSAGQ
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014793

ORF Size: 2058 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_014793.5](#)

RefSeq Size: 2931 bp

RefSeq ORF: 2061 bp

Locus ID: 9836

UniProt ID: [O60294](#)

Cytogenetics: 15q15.3

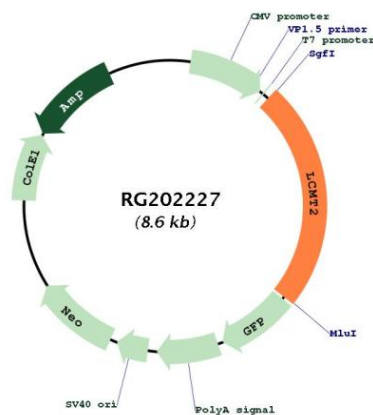
Domains: LCM

Protein Families: Druggable Genome

Protein Pathways: Alzheimer's disease, Androgen and estrogen metabolism, Cardiac muscle contraction, Histidine metabolism, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease, Selenoamino acid metabolism, Tyrosine metabolism

Gene Summary: The protein encoded by this intronless gene belongs to the highly variable methyltransferase superfamily. This gene is the inferred homolog of the *Saccharomyces cerevisiae* carboxymethyltransferase gene PPM2 that is essential for the synthesis of the hypermodified guanosine Wybutosine (yW). [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG202227