

Product datasheet for **SC114825**

LCMT2 (NM_014793) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LCMT2 (NM_014793) Human Untagged Clone
Tag:	Tag Free
Symbol:	LCMT2
Synonyms:	PPM2; TYW4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_014793, the custom clone sequence may differ by one or more nucleotides

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ATGGGCCCGGAGCCGTGAGCGTCGGGCGGCGGTACAGAACACCAACGACAGCAGCGCCCTCAGCA
AGCGTTCCCTGGCCGCGCGGGTACGTGCAGGACCCCTTGGCCGTTGCTGGTCCGGGCGCGGCGCG
CCGGCACCCTCATTACCGAGGCTACTACGTCCGCGCACGCGCGGTGAGGCACTGCGTGGCGCTTTT
TTGGAGCAGATTGGCGCGCCCCAGGCCGCGCTTCGCGCGCAGATCTTGTCTCTCGGCGCTGGCTTCGACT
CGCTCTATTTTCGCTTAAAAACCGGGCCGCTGGCCCGGGCTGCAGTCTGGGAGGTGGATTTCCGGA
CGTGGCGCGGCGCAAAGCAGAAAGGATTGGAGAGACGCCAGAGCTGTGCGGTTAACCGGCCCTTCGAG
AGGGGGGAGCCCGCTCCGCGTGTGCTTTGAGAGCGCAGACTACTGCATCCTGGGTCTGGACTTGGCGC
AGCTCCAGCGAGTGGAGGAGGCCCTGGGCGCGCGGGGCTCGACGCAGCCTACCCACTCTGCTCCTGGC
CGAGGCGGTGCTGACCTACCTCGAGCCGAGAGTCCGCGGCCCTCATCGCTGGCAGCCAGCGTTTTT
CCTAATGCCCTTTTCGTGGTCTATGAGCAGATGAGGCCTCAAGACGCCTTTGGCCAGTTCATGCTGCAAC
ATTTTCGGCAGCTAAACTCCCCCTGCATGGCCTGGAGCGTTTTCTGACGTGGAGGCGCAGCGGCCCG
CTTCTTCAAGCTGGCTGGACCGCTGCGGTGCGTGGACATGAATGAATTCTATCACTGCTTTCTCCC
GCAGAAGAACGCCGCGGGTGGAAAATATTGAACCTTTGACGAATTTGAGGAGTGGCATCTGAAGTGGC
CCCATTATTTCTTGGCAGCTTCTAGGGGAGACACCCTCTCCACACCCTAGTGTTCATCCTCAGA
GGCATTTCCTCGCGTAAATCCTGCTTCGCTTCAGGGGTATTCCCTGCCAGCGTAGTCAGTAGCGAGGGC
CAGGTCCCAAACCTGAAGAGATATGGCCACGCCTCTGTCTTTGAGCCAGACGTTATTCTCAGTGCAG
GAGGATTTGGAGAGCAGGAGGGGCGCACTGCCGAGTGGCCAGTTTCACTTGTCTCAAGAGATTGTGA
CTCTGAATGGAAAGGCAGCCAAATAGGCAGTTGTGGGACTGGAGTTCAGTGGGATGGACGCCTTTATCAC
ACCATGACAAGACTCTCAGAGAGTCCGGTCTGGTTCTGGGAGGGAGACTGTCCCAGTAAAGTCCAGCCT
TGGGGGTTCTCCAGCTTCATTTTTTAAGAGTGAGGATAATAACACTGAGGACCTGAAAGTGACAATAAC
AAAGGCTGGCCGAAAGGATGATTCCACTTTGTGTTGTTGGCGGCATTCAACAACAGAAAGTCTCTGTGAG
AATCAGGAATATTTGTTGTGTATGGGGTTCGAAGCGTGGTGGAACTGTACTAAGTACTGGCATTTC
TCCATGTAGGGACAATGGCTTGGGTGAGGATCCCAGTGGAGGGAGAAGTACCTGAAGCCCGCATTCTCA
CAGTGCCTGCACTTGGCAAGGGGAGCCCTTATTGCTGGAGGTCTCGGGGCTTCTGAGGAGCCATTGAAC
TCTGTGCTCTTTCTGAGACCAATCTCTTGTGGATTCTCTGGGAGTCACTAGACATCCAGCCTCCATTA
CCCCAAGTACTCCACACAGCTCATGTGCTCAATGGAAAGCTGTACTGGTGGAGGGATCTGGATTCA
TTCTCTCATTCTGGAGTACTGTGATCAATTTGACTACAGGATTGAGCTCTGAGTATCAGATTGAC
ACAACATATGTGCCATGGCCATTAATGTTACACAACCATACTAGTATCCTTCTTCTGAAGAGCAACAGC
TCTGCTCCTTGGAGGTGGTGGAACTGCTTTTCTTGGTACCTACTTCAACCCCATACAGTCACATT
AGACCTTCTTCTTAAGTGTGGGCGAGTAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_014793 unedited TTTGTAATACGAACTCACTATAGGGCGGCCGCGATTTCGGCACGAGGGANAGAGAGAGAGA GA GAGCCAAGGGGCGGCTCACAACCGTGACAGACTGCCATTCTGAGTCTTCTTGGCCATG GGCCCCGGAGCCGTGAGCGTCGGGCAGGCGCGGTACAGAACACCAACGACAGCAGCGCC CTCAGCAAGCGTTCCTTGGCCGCGCGGGTACGTGCAGGACCCCTTTGCCGCGTTGCTG GTTCCGGGCGGCGCGCGCCGCGCACCGCTCATTACCCAGGCTACTACGTCCGCGCACGC GCCGTGAGGCACTGCGTGCAGCGCTTTTTGGAGCAGATTGGCGCGCCAGGCCGCGCTT CGCGCGCAGATCTGTCTCTCGGCGCTGGCTTCGACTCGCTCTATTTTCGCTAAAAACC GCGGGCCGCTGGCCGGGCTGCAGTCTGGGAGGTGGATTTCCGGACGTGGCGCGGCGC AAAGCAGAAAGGATTGGAGAGACGCCAGAGCTGTGCGGTTAACCGGCCCTTCGAGAGG GGGGAGCCCGCTCCGCGCTGTGCTTTGAGAGCGCAGAACTACTGCATCCTGGGTCTGGA CTTGCGGCAGCTCCAGCGAGTGGGAGGAAGCCCTGGCGCCCNNGGGGCTCGACGCAGC CTCACCCACTCTGCTCCTGGCGGAAGCGGGTGTGACCTACCTCGAGCCCGGGAGAGTG GCCGGCGGCCCTCATCGCTGGGCAGNCCAGCGNTNTCTATGCCCTTTNNCGGGGTC TATGAAGCAAATGAGGCCTCAAGAACGCTTTGGCCAGNTCATGTGCANCATTNTTCG AGCTAAACTCCCTGCATGGCCTGGAGCCTTCCG
Restriction Sites:	NotI-NotI
ACCN:	NM_014793
Insert Size:	3340 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:	<ol style="list-style-type: none"> 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_014793.1 , NP_055608.1
RefSeq Size:	2860 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 <i>Saccharomyces cerevisiae</i> carboxymethyltransferase gene PPM2 that is essential for the synthesis of the hypermodified guanosine Wybutosine (yW). [provided by RefSeq, Jul 2008]