

## Product datasheet for **MC220477**

### Lcmt2 (NM\_177846) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lcmt2 (NM_177846) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Lcmt2
Synonyms:	D330024M17; Tyw4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC220477 representing NM\_177846  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGCCCGAGGCCGCCAGCGCCGGGCGGGAACGGTCCAGAGCACCAACGACAGCAGCTCCCTCAGCA  
 AACGATCGCTTGCCGCACACGGATACGTGCGCGACCCCTTTGCGGCGCTGCTGGTCCCGGACCCGTGCG  
 GCGCACGCCGCTTATCCACCGCGCTATTACGTGCGCGCGCGCCGTGCGTCACTGCGTGCAGCCCTTC  
 CTCGAACACTAGCGCGCTCCCGTCCCGGACCAGAGCCAGATCCTGTCTTGGGCTCAGGCTCCGACT  
 CGCTTTATTTTCGTCTGAAAGCGCGGGCTCCTGGCCGAGCTGCCGTCTGGGAGTGGACTTCCCGGA  
 CGTGTCTCGGCTCAAGGCGGAGAGGATCGAGGAGACCCCGGAGCTGCGTGCAGACCCGGTCTTTCAAG  
 ATCGGGGACTCGGCGTCTCTGTGCTTCGAGAGCGGGACTACCGCATCCTGGGCGGGACCTGCGGG  
 AGCTCCAGCGATTAGGAGAGGCCCTGGATGGCGCCGGCTGGACGCCACCTCTCCACGCTGCTCCTGGC  
 CGAGGCGGTGCTGACCTACTTGGAGCCCTCCAGTGCCACAGCCCTCATTGCTGGGCCGCCAGCGTTTC  
 CCCGACGCCCTTTTCGTGATCTATGAGCAGATGCAGCCGGGGATGCCTTTGGGCAGATCATGCTGCAGC  
 ACTTTCAGCGGTTGCATTACCCTTGCATGGCCTGGAGCTGTTTCCCGTGTGAAGGCCAGCGCCAGCG  
 CTTCTTCAAGCTGGCTGGACTGCCTGCAGCGCCCTGGACCTGAACGAGTTCTATCGCCGCTTCTCTCG  
 GCAGAAGAGCGCCAGCGGTTGAGACGCTTGAACCCTTTGATGAATATGAGGAGTGGCATCTGAAGTGT  
 CACATTATTTTCATCCTGGCAGCATCTAGGGGAGACATTCTGTGAGAACTCCAGTGTGAGCCCTCAGA  
 GGCTTCTTTTCAGATAGATCCTGCCTCGCCTTCAGGGTTCTTTCTGCCAGAGTAGTCACTAGTGACCAC  
 CAGCACTCAAGCCTGAAGCGATATGGCCACGCCCTGCGCTTGGAGCCCTGGCGTTATTTTCAGTGCAG  
 GAGGCTTTGGAGAACAAGAGGGACGACTGCCGAGTGAGCAGGTTTTCAGTGTCTCCAGATCCTGTGA  
 CTCGGAATGGGAAGGCTGCCAAATAAGTACCTTGGGGACTGAAGGCCAGTGGGATGGACGCCCTTTATCAC  
 ACCATGACAAGGCTTTCTGATACTCGGGTCTGGTCTTGGAGGAAGACTCTCCCAAGTAAGTCCAGCCT  
 CTGGGGCTCTCCAACCTGATTTATACAAAAGTAAGGATAATTGCTCTGAGGGCCAAAATGTAAACAGTAAC  
 GAAGGCTGCCTTGAAGAAGGTTCAAGTGTGTCATGTTGGCGGCATTCAACAACGGAAGTATACTATCAG  
 AATCAAAGATACTTATTTGTGTATGGTGGCCGAAGTGTGGCTGAACCTGTACTAAGTACTGTCGTTTTTC  
 TACATGTAGAGACAATGGCTTGGGTCAGAATCCAGTACAAGGCGCATCACCCGAAGGTCGGCATTCCCA  
 TAGCCCTGCAGTTGGCAAGGGGAGCACTTATCGCTGGAGGCTTGGGGCTTCTGAGGAACTGTTGAGC  
 TCTGTACTCTTTCTCAAACAGTGTCTCTGGATTCTCTGGGAATCAATAGATATCCAGCCCTCCATTA  
 CCCAAGTACTCTCACACGGCTCATGTGTTAATGGAAGCTGCTTCTGGTTGGAGGGGCTCGGATTCA  
 TTCTCTCAGTTCCTGGAGTACTGTTATCTGTTTACTACAGGGTTGAGCTCTGAATATCAGATTGAC  
 ACAGCGTCTGTGCCATGGCCATTAATGCTGCACAACCACAGCAGCGCCCTCCTTCTGAAGAGCAGCAGC  
 TCTGCTTATTGGAGGTGGAGGAACTGCTTTTCTTTGGTACTTATTTCAACCCACACAGTGGCATT  
 AGACCTTCTTCTTACGTTTCAGGGCA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_177846
- Insert Size:** 2061 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).

<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>	<u><a href="#">NM_177846.3</a></u> , <u><a href="#">NP_808514.2</a></u>
<b>RefSeq Size:</b>	3407 bp
<b>RefSeq ORF:</b>	2061 bp
<b>Locus ID:</b>	329504
<b>UniProt ID:</b>	<u><a href="#">Q8BYR1</a></u>
<b>Cytogenetics:</b>	2 E5
<b>Gene Summary:</b>	Probable S-adenosyl-L-methionine-dependent methyltransferase that acts as a component of the wybutosine biosynthesis pathway. Wybutosine is a hyper modified guanosine with a tricyclic base found at the 3'-position adjacent to the anticodon of eukaryotic phenylalanine tRNA (By similarity). May methylate the carboxyl group of leucine residues to form alpha-leucine ester residues.[UniProtKB/Swiss-Prot Function]