

Product datasheet for **RN204442**

Lcmt2 (NM_001011956) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lcmt2 (NM_001011956) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Lcmt2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN204442 representing NM_001011956
 Red=Cloning site Blue=ORF Orange=Stop codon

CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC
 GCC

ATGGGCCCGGAAGCCGACGCGCGGGACGGTTCAGAGCACAATGACAGCAGCTCCCTCAGCA
 AGCGATCGCTAGCCGCACAAGGGTACGTGAGCGATGCCTTCGCGCGCTGCTGGTCCCAGGGATCGTGCG
 GCGCACGCCGCTTATCCACCGCGCTATTACGTGCGCGCGCGCGCGTGCCTGCTGCGTGCCTGCGCGCTTC
 CTCGATCTCACTGGCGGATCCGGTCCCGACCAGAGCACAGATCCTGTCCCTGGGCTCAGGTTCCGACT
 CGCTTTATTTTCGTCTGAAAGCTGCGGGCTGCTGACCCGAAGTCTGTCTGGGAGGTGGACTTTCCGGA
 CGTGTCTCGGCTCAAGGCGAAGAGGATCGAGGAGACCCCGGAGCTGTGCGCGCAGACCGGTCCTTTCAAG
 ATCGGGGACTCAGCGTCAACTCTGTGCTTTGAGAGCTCGGACTACCGCATCCTGGGCGTGACTTGGCGG
 AGCTCCAGCGATTGGGCGAGGCCCTGGACAGTGTGGCCTGGACGCCACCTCCCCAACGCTGATCCTGGC
 CGAGGCGGTGCTGACCTACCTGGAGCCTCCAGAGCTGCAGCCCTCATCGCTGGGTTGCCAGCGTTTC
 CCCAACGCCCTTTTTGTGATCTATGAGCAGATGAAGCCGGGTGATGCCTTCGGGCAAATCATGCTGCAGC
 ACTTTCGGCGGTTGAACTCACCCCTGCATGGACTGGAAGTCTTTCGGGACGTGGAGGCCAGCGCCAGCG
 CTTCTACAAGCTGGCTGGACTACTTGCAGCGCCTGGACCTGAACGAGTTCTATCGCCGCTTATCCCT
 GCAGATGAGCGCCGGCGAGTTGAGACACTTGGCCCTTTGATGAATTTGAGGAATGGCATCTGAAGTGT
 CCCACTATTTTCATCCTGGCAGCATCTAGGGGAGATATTCTGTGAGAACTCCAGTGTTCCTGCCCTCGGA
 AGCTTCTTTTCAGATAGATCCTGCTTTGCCCTCAGGGTTCTTTCTGCCAGTGTAGTCACTAGCGACCAC
 CAGCACTCAAGTCTGCAGAGATATGGCCACACCTCTGTTCTTTGAGCCCTGGCATTATTTTCAGTGCAG
 GAGGCTTTGGAGAACAAGAGGGCCGACACTGCCGGTGAGCAGGTTTCACTTGCTCTGAGATCCTGTGA
 CTCTGAATGGAAAGGCTGCCAAATAAGTACTTTGGGGACTGAAGGCCAGTGGGATGGACGCTTTATCAC
 ACCATGACAAGGCTTTCAGATACTCGGGTCTGGTCTTGGAGGGAGACTATCCCCAGTAAATCCAGCCT
 CTGGGGCTCTCCAAGTATATACAAAAGTGAAGATAATTGCCCGAGGGCCAAAATGTAGTGGTAAC
 AAAGGCTGCCTTGAAGAAGGTCATGTTGTCATGTTGGAGGCATTCAACAACCGAAGTATACTATCAG
 AATCAAAGATATTTATTTGTGTATGGTGGTGAAGTGTGACGGATCCTGTACTAAGTACTGTCGTTTTTC
 TACATGTAGAGACAATGGCTTGGGTCAGAATCCAGTACAAGGCTCATCACCCGAAGGTCGGCATTCCCA
 CAGCGCCTGCAGTTGGCAAGGGGAGCACTTATCGCTGGAGGCTTGGGGCTTCTGAGGAACCGTTGAGT
 TCTGTATTTCTCAGACCAGTATCCTCTGGATTCTCTGGGAATCAATACATATCCAGCCCTCCATTA
 CCCAAGTACTCTCACACTGCTCATGATTTAATGAAAAGCTGCTTCTGGTTGGAGGGGCTCGGATTCA
 TTCTCTCAGTTCCTGGAGTACTGTTATCAGTTTACTACAGGGTTGAGCTCCGAGTATCAGATTGAC
 ACCGCGTCTGTGCCATGGCCATTAATGTTGCACAACCACAGCAGTGCCCTCCTTCTGAAGAGCAGCAGC
 TCTGCTTATTGGAGGCGGAGGAACTGCTTTTCTTTGGTACTTACTTCAACCCCCACACAGTGGGATT
 AGATCTTCTCCTTAGGTTTAGGGCAATAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** AscI-MluI
- ACCN:** NM_001011956
- 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).

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_001011956.1](#), [NP_001011956.1](#)

RefSeq Size: 2150 bp

RefSeq ORF: 2061 bp

Locus ID: 296098

UniProt ID: [Q5XIA3](#)

Cytogenetics: 3q35

Gene Summary: 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]