

## Product datasheet for **RR204442**

### Lcmt2 (NM\_001011956) Rat Tagged ORF Clone

#### Product data:

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



[View online »](#)

ORF Nucleotide  
Sequence:

>RR204442 representing NM\_001011956  
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC  
 GCC

ATGGGCCCGGAAGCCGACGCGCGGGACGGTTCAGAGCACAATGACAGCAGCTCCCTCAGCA  
 AGCGATCGCTAGCCGCACAAGGGTACGTGAGCGATGCCTTCGCGCGCTGCTGGTCCAGGGATCGTGCG  
 GCGCAGCCGCTTATCCACCGCGCTATTACGTGCGCGCGCGCGCGTGCCTGCTGCGTGCCTGCGCGCTTC  
 CTCGATCTCACTGGCGGATCCGGTCCCGACAGAGCACAGATCCTGTCCCTGGGCTCAGGTTCCGACT  
 CGCTTTATTTCTGTCTGAAAGCTGCGGGCTGCTGACCCGAAGTCTGTCTGGGAGGTGGACTTTCCGGA  
 CGTGTCTCGGCTCAAGGCGAAGAGGATCGAGGAGACCCCGGAGCTGTGCGCGCAGACCGTCTTTCAAG  
 ATCGGGGACTCAGCGTCAACTCTGTGCTTTGAGAGCTCGGACTACCGCATCCTGGGCGTGACTTGGCGG  
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 CAGCGCCTGCAGTTGGCAAGGGGAGCACTTATCGCTGGAGGCTTGGGGCTTCTGAGGAACCGTTGAGT  
 TCTGTATTTCTCAGACCAGTATCCTCTGGATTCTCTGGGAATCAATACATATCCAGCCCTCCATTA  
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 TCTGCTTATTGGAGGCGGAGGAACTGCTTTTCTTTGGTACTTACTTCAACCCCCACACAGTGGGATT  
 AGATCTTCTCCTTAGGTTTAGGGCAA

ACGCGTACGCGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR204442 representing NM\_001011956  
Red=Cloning site Green=Tags(s)

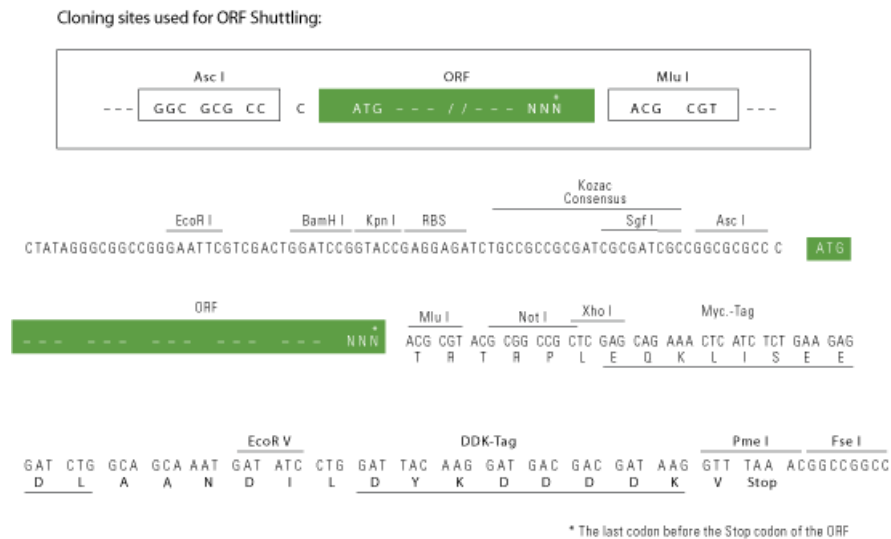
MGPRSRQRRRTGTVQSTNDSSSLSKRSLAAQGYVSDAFAPLLVPGIVRRTPLIHRGYVVRARAVRHCVRAF  
 LDLTGAI RSPTRAQILSLGSGSDSLYFRLKAAGLLTRTAVWEVDFPDVSRKAKRIEETPELCAQTGPFK  
 IGDSASTLCFESSDYRILGADLRELQRLGEALDSAGLDATSPTLILAEAVLTYLEPSRAAALIAWVAQR  
 PNALFVIYEQMKPGDAFGQIMLQHFRRNLSPHGLELFPDVEAQRQRFQAGWTTCSALDLNEFYRRLIP  
 ADERRRVETLEPFDFEEWHLKCSHYFILAASRGDILSETPVFLPSEASFQIDPALPSGFLSASVVTSDH  
 QHSSLQRYGHTSVLLSPGIIFSAGGFGEQEGRHCVRVSRFHLLSRSCDSEWKGQCISTLTGTEGQWDGRLYH  
 TMRSLSDTRVLVLGGRLSPVNPASGALQLDIYKSEDNCPGQNVVTKAALEEGSMLSCWRHSTTEVYYQ  
 NQRYLFVYGGRSVTDVLSDCRFLHVETMAWVRIPVQGSSEGRHSHSACSWQGGALIAAGLGASEEPLS  
 SVFFLRPVSSGFLWESIHIQPSITPRYSHTAHVFNGLLLL VGGVVIHSSSVPGVTVISLTTGLSSEYQID  
 TASVPWPLMLHNHSSALLPEEQQLLLIGGGGNCFSFGTYFNPHTVGLDLSSLGLGQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

AscI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001011956

**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\\_001011956.1](#), [NP\\_001011956.1](#)

**RefSeq Size:** 2150 bp

**RefSeq ORF:** 2061 bp

**Locus ID:** 296098

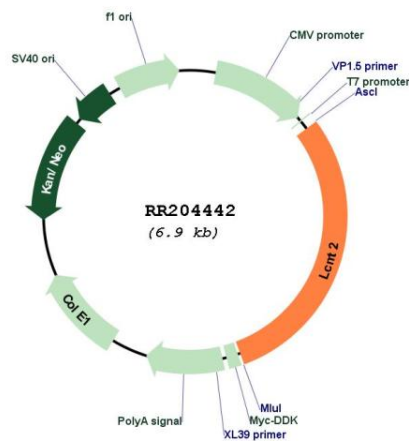
**UniProt ID:** [Q5XIA3](#)

**Cytogenetics:** 3q35

**MW:** 75.5 kDa

**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]

### Product images:



Circular map for RR204442