

## Product datasheet for **MG215677**

### Lcmt2 (NM\_177846) Mouse Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                      |
| Product Name:             | Lcmt2 (NM_177846) Mouse Tagged ORF Clone |
| Tag:                      | TurboGFP                                 |
| Symbol:                   | Lcmt2                                    |
| Synonyms:                 | D330024M17; Tyw4                         |
| Mammalian Cell Selection: | Neomycin                                 |
| Vector:                   | pCMV6-AC-GFP (PS100010)                  |
| E. coli Selection:        | Ampicillin (100 ug/mL)                   |



[View online »](#)

ORF Nucleotide  
Sequence:

>MG215677 representing NM\_177846  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGGCCCGAGGCCGCCAGCGCCGGGGAACGGTCCAGAGCACCAACGACAGCAGCTCCCTCAGCA  
 AACGATCGCTTGCCGCACACGGATACGTGCGCGACCCCTTTCGCGCGCTGCTGGTCCCGGACCCGTGCG  
 GCGCACGCCGCTTATCCACCGCGCTATTACGTGCGCGCGCGCGCGTGCCTGCTGCGTGCAGCTCCGCTT  
 CTCGAACACTAGCGCGCTCCCGTCCCGGACCAGAGCCAGATCCTGTCTTGGGCTCAGGCTCCGACT  
 CGCTTTATTTTCGTCTGAAAGCGCGGGCTCCTGGCCGAGCTGCCGTCTGGGAGTGGACTTCCCGGA  
 CGTGTCTCGGCTCAAGGCGGAGAGGATCGAGGAGACCCCGGAGCTGCGTGCAGACCCGGTCTTTCAAG  
 ATCGGGGACTCGGCGTACTCTGTGCTTCGAGAGCGCGGACTACCGCATCCTGGGCGGGACCTGCGGG  
 AGCTCCAGCGATTAGGAGAGGCCCTGGATGGCGCCGGCTGGACGCCACCTCTCCACGCTGCTCCTGGC  
 CGAGGCGGTGCTGACCTACTTGGAGCCCTCCAGTGCCACAGCCCTCATTGCTGGGCCGCCAGCGTTTC  
 CCCGACGCCCTTTTCGTGATCTATGAGCAGATGCAGCCGGGGATGCCTTTGGGCAGATCATGCTGCAGC  
 ACTTTCAGCGGTTGCATTACCCTTGCATGGCCTGGAGCTGTTTCCCGTGCCTGAAGGCCAGCGCCAGCG  
 CTTCCTCAAGCTGGCTGGACTGCCTGCAGCGCCCTGGACCTGAACGAGTTCTATCGCCGCTTCTCTCG  
 GCAGAAGAGCGCCAGCGGTTGAGACGCTTGAACCCTTTCGATGAATATGAGGAGTGGCATCTGAAGTGT  
 CACATTATTTTCATCCTGGCAGCATCTAGGGGAGACATTCTGTGAGAACTCCAGTGTTCGAGCCCTCAGA  
 GGCTTCTTTTCAGATAGATCCTGCCTCGCCTTCAGGGTTCTTTCTGCCAGAGTAGTCACTAGTGACCAC  
 CAGCACTCAAGCCTGAAGCGATATGGCCACGCCCTGCGCTTTCAGCCCTGGCGTTATTTTCAGTGCAG  
 GAGGCTTTGGAGAACAAGAGGGACGACACTGCCGAGTGAGCAGGTTTTCAGTGCTCTCCAGATCCTGTGA  
 CTCGGAATGGGAAGGCTGCCAAATAAGTACCTTGGGGACTGAAGGCCAGTGGGATGGACGCCCTTTATCAC  
 ACCATGACAAGGCTTTCTGATACTCGGGTCTGTTTCTGGAGGAAGACTCTCCCAAGTAAGTCCAGCCT  
 CTGGGGCTCTCCAACCTGATTTATACAAAAGTAAGGATAATTGCTCTGAGGGCCAAAATGTAACAGTAAC  
 GAAGGCTGCCTTGAAGAAGGTTTCAGTGTGTCATGTTGGCGGCATTCAACAACGGAAGTATACTATCAG  
 AATCAAAGATACTTATTTGTGTATGGTGGCCGAAGTGTGGCTGAACCTGTACTAAGTACTGTCGTTTTTC  
 TACATGTAGAGACAATGGCTTGGGTCAGAATCCCAGTACAAGGCGCATCACCCGAAGGTCGGCATTCCCA  
 TAGCGCCTGCAGTTGGCAAGGGGAGCACTTATCGCTGGAGGCTTGGGGCTTCTGAGGAACTGTTGAGC  
 TCTGTACTCTTTCTCAAACAGTGTCTCTGGATTCTCTGGGAATCAATAGATATCCAGCCCTCCATTA  
 CCCAAGTACTCTCACACGGCTCATGTGTTAATGGAAAGCTGCTTCTGGTTGGAGGGTCTGGATTCA  
 TTCTCTCAGTTCCTGGAGTACTGTTATCTGTTTACTACAGGGTTGAGCTCTGAATATCAGATTGAC  
 ACAGCGTCTGTGCCATGGCCATTAATGCTGCACAACCACAGCAGCGCCCTCCTTCTGAAGAGCAGCAGC  
 TCTGCTTATTGGAGGTGGAGGAACTGCTTTTCTTTGGTACTTATTTCAACCCACACAGTGGCATT  
 AGACCTTCTTCTTACGTTTCAGGGCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG215677 representing NM\_177846  
 Red=Cloning site Green=Tags(s)

MGPRGRQRRAGTVQSTNDSSSLSKRSLAAHG YVRDPFAALLVPGPVRRTPLIHRGYVVRARAVRHCVRAF  
 LELTSALPSRTRAQILSLGSGSDSLYFRLKAAGLLARA VWEVDFPDVSR LKAERIEETPELRAQTGPFK  
 IGDSASSL CFESADYRILGADLRELQRLGEALDGAGLDAT SPTLLLAEAVLTYLEPSSATALIAWAAQRF  
 PDALFVIYEQMQPGDAFGQIMLQHFQRLHSP LHGLELFPVVKAQRQRF LQAGWTAC SALDLNEFYRRLS  
 AEERQRVETLEPFDEYEEWHLKCSHYFILAASRGDILSETPVFEPSEASFQIDPASPSGFLSARVVTSDH  
 QHSSLKRYGHASALLSPGVIFSAGGFGEQEGRHC RVSRFHVL SRSCDSEWEGCQISTLGTEGQWDGRLYH  
 TMTRLSDTRVLVLGGRLSPVSPASGALQLDLYKSKDNCSEGNVTVTKAALEEGSVLSCWRHSTTEVYYQ  
 NQRYLFVYGGRSVAEPVLSDCRFLHVETMAWVRIPVQ GASPEGRHSHSACSWQGGALIAGGLGASELLS  
 SVLFLKPVSSGFLWESIDIQPSITPRYSHTAHVFNGL LLLVGGVWIHSSSVPGVTVICLTTGLSSEYQID  
 TASVPWPLMLHNHSSALLPEEQQLLLIGGGGNCFSFGTYFNPH TVALDLSSLRSGQ

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_177846

**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\\_177846.3](#), [NP\\_808514.2](#)

**RefSeq Size:** 3407 bp

**RefSeq ORF:** 2061 bp

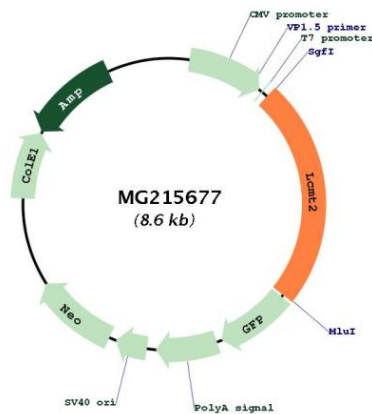
**Locus ID:** 329504

**UniProt ID:** [Q8BYR1](#)

**Cytogenetics:** 2 E5

**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 MG215677