

## Product datasheet for **MC204901**

### **Letm1 (NM\_019694) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Letm1 (NM_019694) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Letm1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC061115  
 GTGCCGGGACATGGCCGCTGCGGATGCCGGGCTCTTGAGCTGAGCGCTTCTGCTGCCGGAGCCAACCTCTGC  
 CGTCAACCGTCCGCGCGGGCTGGGCCAGGCGCCGGGACGGCCAAGATCCGCCGAGGAAGCTGAGGCAGC  
 TATAGAACGCCCGCGGGCGGCATGGCGTCCATCTTGCTCAGGAGCTGCCGGGGCCGGGGCCCTGCC  
 CGCCTCGCGCCACCTCGGGCCGCTCCCGCGGGGTAGTCTGAGGGATCGAGCTTGCTCAGCTGTACCA  
 GGACCTGGGGTTGACGAGCCGTGAGAGTGTCTGTCTCGTTGCTGTACTCCAGCCACCCTGTGTACCT  
 CTGCTTCAAAGGTGAGCCCTCAGCTGTTGGACTCAGAGCCCTGAGTGCCAGGGCACCGCAGCAAGAACA  
 ACATGGACACCTGCCTCTGCAAGGCTGGTGGTTACGGGACCTCAGTACCTTCCTGTGCGCGCTGGCACT  
 CATCATCTCCGCTAGGAGAGGACTCTGTGATAGAGAAAGTCCCTTAAGTCCTTAAAAGACAAGAATAAGAA  
 GCTGGAGGAGGGCGCCCGTGTACAGCCCGCCGCGCAGGTGGTGGTGGAGAAATCCCTCGGCAGAAAG  
 GACTGGATGAGCTGAGGCACTACTACCATGGCTTCCGCTGCTCTGGATCGACACCAAGATCGCTGCC  
 GGATGCTCTGGCGCATCCTCAATGGCCATACGCTGACCCGCGGGAGCGCAGGCAGTTTCTCGGATTTG  
 TGCGGACCTTCCGCTAGTGCCTTCTGGTGTTCGTTGGTGGTGCCTTCATGGAATTCCTGCTGCCT  
 GTAGTTGTGAAGCTTCCCAACATGCTGCCCTTACATTTGAGACCCAGTCTATCAAGGAGGAAAGGC  
 TGAAGAAGGAGCTGAGGGTGAAGCTGGAGCTGGCCAAGTTTCTCCAGGACACCATAGAGGAAATGGCCCT  
 GAAGAACAAGGCAGCCAAAGGGAATGCCACCAAGATTTCTCTGCATTTTCCAGAAAGATCCGGGAGACA  
 GGGGAGAGACCCAGCAATGAGGAAATCATGCGTTTTTCCAAACTGTTTGGAGGATGAACTGACCCTGGATA  
 ACCTCACGAGGCCTCAGCTGGTAGCACTGTGCAAGCTGCTGGAGCTTCAGTCCATTGGCACCACAACTT  
 CCTGCGTTTCCAGCTCACCATGCGCCTGAGGTCCATAAAGGCTGATGATAAGCTGATTTCTGAGGAAGGG  
 GTGGACAGTCTGACTGTAAAAGAATTGCAGGCAGCATGTGAGCAGCGGGCATGAGAGCTCTCGGTGTCA  
 CAGAAGACCGTCTGAAGGGCCAGCTGAAACAGTGGCTGGACTTGCACCTGCATCAGGATCCCCACATC  
 ATTGCTCATACTGTCCCGGCCATGTACCTCCCAGACACCCTCTCACCTGCTGACCAGCTGAAGTCCACC  
 TTGACACCCTTCCAGAAATTTGGCAAAGGAGGCCAGGTGAAAGTGGCCGAGGTGGAGGGCGAAAAGG  
 TAGACAACAAGGCGAAGCTGGAGGCCACACTGCAGGAAGAGGCCCCATCCAGCAAGAACACCTGGAAGA  
 ACTAAAGAGAGCCTCTGAGGCTGTGAAGGACATCCAGCCAGAAGTAGCGGAAGCCACTCTCCTGGGAGG  
 CCAGGGCCTGAGCCTCAGCCTCCAGTGGATGATGTGATCCTGCCCTCAGAGGTCCTGACGGATACGGCAC  
 CTGTAAGGAGGCTGAAGGGTGAAGAGATTACCAAGGAGGAGATTGACATCCTCAGTGACGCCTGCTC  
 CAAGCTGCAGGAGCAGAAGAAGTCCCTGACCAAGGAGAAGGAGGAGCTGGAGCTGCTCAAAGAGGACGTC  
 CAGGACTACAGTGAGGACTTACAGGAGATCAAGAAGGAACTTTCAAAGACGGGTGAGGAGAAGTACATAG  
 AAGAATCTGCAGCGAGCAAGAGGCTGTCAAAGCGAGTGCAGCAGATGATCGGGCAGATCGATGGCCTGAT  
 CACACAGCTGGAGACCACTCAACAGGATGGCAAGCTGGGCCCCAGCCAGAGCACTCCGACAGGGGAGAGT  
 GTCATCAGCATCACTGAGCTCATCAGCGCCATGAAGCAAATCAAGCACATTCCAGAGCACAAGCTCATCA  
 GTTTGACCTCAGCCCTGGATGATAATAAGGACGGCAATATCAACATCGATGACCTTGTAAGGTAATCGA  
 CTTGGTGAACAAAGAAGATGTTTCAAGATCTTACCACCCAGGTAGCTGAAATTTGTGGCCACACTAGAGAAA  
 GAAGAAAAGATAGAAGAGAAAGAGAAGGCCAAGGAGAAGGCTGAGAAAAGAGGCCGAGAAAGTGAAGAATT  
 AGAGCTGCCAGCTTCTGGCCACAGGTCTGCCTTCATCATGCCGTGCCAGCCACAGGGGCATGACACACA  
 AGAGTGATTGCTTTGAGGTGATTCTTAGTGCCAAATCTAATATTTTGTCTGGAATAAATCAGAAACTTGC  
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Sfil-Sfil

**ACCN:** NM\_019694

**Insert Size:** 2217 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:** [BC061115](#), [AAH61115](#)

**RefSeq Size:** 2549 bp

**RefSeq ORF:** 2217 bp

**Locus ID:** 56384

**UniProt ID:** [Q9Z2I0](#)

**Cytogenetics:** 5 B2

**Gene Summary:** Mitochondrial proton/calcium antiporter that mediates proton-dependent calcium efflux from mitochondrion (PubMed:27669901). Crucial for the maintenance of mitochondrial tubular networks and for the assembly of the supercomplexes of the respiratory chain (By similarity). Required for the maintenance of the tubular shape and cristae organization (By similarity). In contrast to SLC8B1/NCLX, does not constitute the major factor for mitochondrial calcium extrusion (By similarity).[UniProtKB/Swiss-Prot Function]