

Product datasheet for **RN202618**

Letm1 (NM_001005884) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Letm1 (NM_001005884) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Letm1
Synonyms:	MGC94466
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN202618 representing NM_001005884
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGTCCACTTTGCTCAGGAGCTGCCGCGGCCGGGGCCTGCCCGCTCGCGTCGCCCGGGCCGCTT
 CCCCGCGGGTAGTCTGAGGGATCGAGCTTGCTCAGTTGTACCAGGACCGTGGGTTGACGAGCCATGA
 GAGTGTCTGTCCCGCTGTTGTACTCCAGCCAACCCTGTGTACCTCTACTTCAAAAGTGAGCCCTCAGC
 GTTGGACTCAGAGGCTGAGTGCCAGGGCACCCTGGCAAGGGCAGCATGGACACCTGCCTCTGCGAGGT
 TGGTTGTACGGACCTCAGTACCTTCTGTGCGTGGCTGGCACTCATCATCCCCACTAGGAGAGGACTC
 TATGATAGAGAAATCCCTTAAGTCTTTAAAGGACAAGAATAAGAAGCTGGAAGAAGGTGGCCCCGTGAC
 AGCCCGCCAGCTCAGGTGGTAGTGAAGAAGTCCCTGGGGCAGAAGATACTGGATGAGCTGAAGCACTACT
 ACCATGGCTTCCGCTGTGTGGATCGACACCAAGATAGCCGCCCGTATGCTGTGGCGCATCTGAATGG
 CCATACGCTGACCCGCCGGGAGCGCAGGCAGTTTCTCCGGATTTGTGCAGACCTTCTCCGCTAGTACCC
 TTCTGTGTTCGTGGTGGTACCCTTCATGGAATTCCTGTGCCTGTAGTTGTGAAGCTTCTCCCAATA
 TGCTGCCCTCCACATTTGAGACCCAGTCTATCAAGGAGGAAAGGCTGAAGAAGGAGCTTAGGGTGAAGCT
 GGAGCTAGCCAAGTTTCTCCAAGACACCATAGAGGAAATGGCCCTGAAGAACAAGGCAGCCAAAGGGAAAT
 GCCACCAAGGATTTCTCTGCCTTTTCCAGAAGATCCGGGAGACAGGGGAGAGACCCAGCAATGAAGAAA
 TCATGCGTTTTTCCAATATTTGAGGATGAACTGACCTGGATAACCTAACGAGGCCTCAACTGGTAGC
 ACTGTGCAAGCTGCTGGAGCTTCAGTCCATTGGTACCAACAACCTCTTGCCTTCCAGCTCACCATGCGG
 CTGAGGTCTATAAAGGCTGATGATAAGCTGATTTCTGAGGAAGGGGTAGACAGTCTGACTGTGAAGGAAT
 TGCAGGCAGCGTGTGAGCAGCGGGCATGCGGCACTTGGTGTACAGAAGACCGTCTGAAGGGCCAGCT
 GAAACAGTGGCTGGACTTGCACCTGTATCACGAGATCCCTACATCATTGCTCATACTGTCCCGGGCCATG
 TACCTCCAGACACCCTCTCACCTGCCGACCAGCTGAAGTCCACCTTGCAGACCTTCCAGAAATTGTGG
 CAAAGGAGGCTCAGGTAAAAGCGGCTGAGGTGGAGGGCGAACAGGTAGACAACAAGGCGAAGCTGGAGGC
 CACACTGCAGGAAGAGGCCGCCATCCAGCAGGAGCACCTGGAAGAACTAAAGAGAGCCGCTGAGACTGCG
 AAGGACATCCAGCCAGAAGTAGCAGAAGCCACTGTCCCTGGGAGGCCAGGCGCCGAGCTTCCAGCCCAAGA
 TGGTTGATGTGATCCCGCCCTCAGAGATACTAAGGATACAGCACCTGTTCTGGAAGTTTGAAGGGAGA
 AGAGATAACCAAGGAGGAAATTGACATCCTCAGTGACGCTGCTCCAAGCTAAAGGAGCAGAAGAAGTCC
 CTGACCAAGGAGAAGGAGGAGCTGGAGCTGCTGAAAGAGGATGTCCAGGACTACAGTGAGGACTTGCAGG
 AGATCAAGAAGGAACTTTCCAAGACGGGTGATGAGAAATACATAGAAGAGTCTACAGCCAGCAAGAGGCT
 GTCCAAGCGGGTGCAGCAGATGATCGGGCAGATCGATGGCCTCATCACACAGCTGGAGACCACGCAACAG
 AACGGCAAGCTGGACCCCGCTGCTGCGAGCTCTCCACAGGGGAGAGTGTATCAGCGTCGACGAGCTCA
 TCAGCGCCATGAAGCAATCAAGCACATTCAGAACACAAGCTGATCAGTTTGACCTCAGCCCTGGATGA
 AAATAAGGATGGCAATATCAACATCGATGATCTTGTTAAGGTAATCGACTTGGTGAACAAAGAAGATGTC
 CAGATCTTACCACCCAGGTAGCCGAGATTGTGGCCACACTAGAGAAGGAAGAAAAGGTGGAAGAGAAGG
 AAAAGGCCAAGGAAAAGGCTGAGAAGGAGGCGGCAGAAGTGAAGAACTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001005884
Insert Size: 2220 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:	<ol style="list-style-type: none">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:	<u>NM_001005884.1</u> , <u>NP_001005884.1</u>
RefSeq Size:	2589 bp
RefSeq ORF:	2220 bp
Locus ID:	305457
UniProt ID:	<u>Q5XIN6</u>
Cytogenetics:	14q21
Gene Summary:	Mitochondrial proton/calcium antiporter that mediates proton-dependent calcium efflux from mitochondrion (By similarity). 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]