

Product datasheet for **SC115448**

LETM1 (NM_012318) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LETM1 (NM_012318) Human Untagged Clone
Tag:	Tag Free
Symbol:	LETM1
Synonyms:	SLC55A1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC115448 sequence for NM_012318 edited (data generated by NextGen Sequencing)

```

ATGGCGTCCATCTTACTGAGGAGCTGCCGCGGGCCGGCGCCCGCCGCTCCCGCCGCCG
CCTCGGTACACCGTCCCAGGGGTAGTCCAGGGGATCCTGCTCATCTCAGCTGTGCCAGC
ACCCTGGGGTTGAGGAACTGCCTGAATGTTCCATTTGGCTGCTGCACTCCCATCCACCCT
GTGTACACATCCTCCAGAGGCGATCACCTCGGCTGTTGGGCTCTGAGGCCGAGTGCCTT
CGCATAGTGTGAGAGCGCCATGGACCTTACCTCTGTGGGTTTTGTGGCTGTGGGACCT
CAGTGCCTTCTGTGCGTGGCTGGCACTTTCGCGCCCTGTTGCGGATGACTCGGTAGTA
GAGAAGTCCCTCAAGTCTTGAAGGACAAGAACAAGAAGCTGGAGGAAGGCGCCCGGTG
TACAGCCCCCGCAGAGGTGGTGGTGAAGAAGTCCCTGGGGCAGCGGTGCTGGACGAG
CTGAAGCACTACTACCATGGCTTCCGCTGCTATGGATCGACACCAAGATCGCGGCACGC
ATGCTCTGGCGCATCCTCAACGGCCACAGCCTGACCCGCGGGAGCGCAGGCAGTTTCTC
CGGATCTGCGCTGACCTTTCGCTGGTCCGCTTCTTGTTCGTGGTGGTCCGCTTC
ATGGAGTTTCTGCTGCCTGTTGCTGTGAAGCTCTTCCCAACATGTTGCCATCCACATTT
GAGACTCAGTCACTCAAGGAGGAGAGGCTGAAGAAGGAGCTTCGGGTCAAGCTGGAGCTG
GCCAAGTTCCTCCAGGACACCATCGAGGAGATGGCCTTGAAGAACAAGGCAGCCAAGGGC
AGCGCCACCAAGACTTCTCTGTGTTTTTCCAGAAGATCCGGGAAACAGGGGAGAGGCC
AGCAATGAGGAAATCATGCGTTTTTCAAATATTTGAGGATGAGCTGACCTGGACAAC
CTGACACGGCCGAGCTGGTGGCCCTGTGCAAGCTGCTGGAGCTACAGTCCATCGGCACC
AACAACTTCTGCGCTTCCAGCTTACCATGCGGCTGCGCTCCATAAAGGCAGACGACAAG
CTGATTGCTGAGGAAGGGGTGGACAGCCTGAATGTCAAGGAGCTGCAGGCAGCGTGTGCG
GCACGAGGCATGCGGGCCCTGGGCGTACGGAAGACCCCTGAGGGGTGAGTGAAGCAG
TGGTGGACCTGCACCTGCATCAGGAGATCCCCACATCGCTGCTCATCCTGTCCCGGGC
ATGTACCTCCCGACACCCTCTCTCCAGCCGACCAGCTCAAGTCCACACTGCAGACCCTC
CCAGAGATTGTGGCAAAGGAAGCACAGGTGAAAGTGGCCGAGGTGAGGGGCGAGCAGGTG
GACAACAAGGCCAAGCTGGAGGCCACGCTGCAGGAGGAGGCGCCATCCAGCAGGAGCAC
CGTGAGAAGGAGCTGCAGAAGCGCTCGGAGGTGGCGAAGGATTTTGAAGCCGACGTTG
GTAGCTGCTCCCCAAGGCCGGGACCGAGCCACAGCCAGAAATGCCTGACACAGTCTG
CAGTCAGAGACCTTGAAGGACACTGCCCGGTGCTGGAGGGCTTGAAGGAGGAAGAGATC
ACGAAGGAGGAAATCGACATCCTCAGCGATGCCTGCTTAAGCTGCAGGAGCAGAAGAAG
TCACTACCAAGGAGAAGGAGGAGCTGGAGCTGCTGAAGGAGGATGTGCAGGACTACAGC
GAGGACTTGCAGGAGATCAAGAAGGAACTTTCAAAGACTGGTGAAGAAAAATACGTGGAA
GAATCTAAAGCCAGCAAGAGATTGACAAAAAGGGTGCAGCAAATGATCGGGCAGATCGAT
GGCTTGATCTCGCAGCTGGAGATGGACCAGCAGGCTGGCAAGCTGGCCCCGGCCAACGGC
ATGCCCCAGGGGAGAACGTCATCAGTGTGCTGAGCTCATCAACGCCATGAAGCAAGTC
AAGCACATTCCCGAAAGCAAGCTCACCAGCCTGGCCGAGCACTGGATGAAAACAAGGAT
GGCAAGGTCAACATCGACGACCTCGTCAAGGTGATTGAGCTGGTGGACAAAGAAGATGTT
CACATCTCCACCAGCCAGGTGGCTGAGATTGTAGCAACTGGAAAAAGAGGAGAAGGTG
GAGGAGAAGGAGAAGGCCAAAGAGAAGGCAGAGAAGGAGTCCGAGAGGTGAAGAGCTAG

```

Clone variation with respect to NM_012318.2
1791 g=>a

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_012318 unedited NGGTCAAATTTGTATACGACTCACTATAGGCGCCGCGAATTCGCACGAGGGGCGCTGA GGGGCCCAATGGGAGCCGCGCCTGGCCGCCCCGCCCGCCTCCGACGTCTGTGCCG GGACAAGGCCCGCTGGTGCCGGTCTTGAGGAGAGCGCCTCCCGTCCGAGGCCAGCC GCCTCTGTAGCCGTCCGCGGGCCGGTCTGAAGCGCCGCGGGACGGCGAAGAGCCG CGGCCCGCGGAGAAGGAGGCAGCGCAGGAGCCGGAGCGCCCGCCCGCCGAGCACA TGGCGTCATCTTACTGAGGAGCTGCCGCGGGCCGCCCGCCCGCTCCCGCCGCCG CTGGTACACCGTCCCGGGGTAGTCCAGGGATCCTGCTCATCTCAGCTGTGCCAGCA CCCTGGGTTGAGGAACTGCCTGAATGTTCCATTTGGCTGCTGCACTCCCATCCACCTG TGTACACATCCTCCAGAGGCGATCACCTCGGCTGTTGGGCTGAGGCCCGAGTGCCCTC GCATAGTGTGAGAGCGCCATGGACCTCTACCTCTGTGGNTTTTGTGGNCTGTGGGACC TCAGTGCCTTCTGTGCGTGGCTGGCACTTTCGCGCCTGTTCCGCGATGACTCGGTAGT AAAAGAAGTCCCTCAAGTCTTGAAGACAAGAACAAGAAGCTGGAGGAAGCGGCCCG GTGTACAGCCCCCGCANAGTGGTGGTGAAGAAGTCCCCTGGGCCAACCGGTGCT TGGACGANCTGAAGCCCTACTACCATGGCTTCCGCTGTTATGGATCGACACCAAGATCG CGGTACGCATGCTTTGGCGCATCCTCAACGGGCACAGCCTGACCCGCCGNAGCCGCCAG CAGTTCTCCCGGATCTGC
Restriction Sites:	NotI-NotI
ACCN:	NM_012318
Insert Size:	4470 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_012318.1</u> , <u>NP_036450.1</u>
RefSeq Size:	3907 bp
RefSeq ORF:	2220 bp
Locus ID:	3954
UniProt ID:	<u>O95202</u>
Cytogenetics:	4p16.3
Protein Families:	Transmembrane

Gene Summary:

This gene encodes a protein that is localized to the inner mitochondrial membrane. The protein functions to maintain the mitochondrial tubular shapes and is required for normal mitochondrial morphology and cellular viability. Mutations in this gene cause Wolf-Hirschhorn syndrome, a complex malformation syndrome caused by the deletion of parts of the distal short arm of chromosome 4. Related pseudogenes have been identified on chromosomes 8, 15 and 19. [provided by RefSeq, Oct 2009]