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Product datasheet for SC320328

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_012318.1
GCGGCCTGGCCGCCCCGCCCCGCGCCTCCGGACGTCTGTGCCGGGACAAGGCCGCCGCTG
GTGCCGGGTCCTTGAGGAGAGCGCCTCCCGTCCGAGGCCAGCCGCCTCTGTCAGCCGTCC
GCGCGGGCCGGGTCTGAAGCGCCGCCGGGACGGCGAAGAGCCGCGGCCGCCGCGGAGAAG
GAGGCAGCGCAGGAGGCCGGAGCGGCCGCCGCGCCCGAGCACATGGCGTCCATCTTACTG
AGGAGCTGCCGCGGCCGGGCGCCCGCCCGCCTCCCGCCGCCGCCTCGGTACACCGTCCCG
CGGGGTAGTCCAGGGGATCCTGCTCATCTCAGCTGTGCCAGCACCCTGGGGTTGAGGAAC
TGCCTGAATGTTCCATTTGGCTGCTGCACTCCCATCCACCCTGTGTACACATCCTCCAGA
GGCGATCACCTCGGCTGTTGGGCTCTGAGGCCCGAGTGCCTTCGCATAGTGTCGAGAGCG
CCATGGACCTCTACCTCTGTGGGTTTTGTGGCTGTGGGACCTCAGTGCCTTCCTGTGCGT
GGCTGGCACTCTTCGCGCCCTGTTCGCGATGACTCGGTAGTAGAGAAGTCCCTCAAGTCC
TTGAAGGACAAGAACAAGAAGCTGGAGGAAGGCGGCCCGGTGTACAGCCCCCCCGCAGAG
GTGGTGGTGAAGAAGTCCCTGGGGCAGCGGGTGCTGGACGAGCTGAAGCACTACTACCAT
GGCTTCCGCCTGCTATGGATCGACACCAAGATCGCGGCACGCATGCTCTGGCGCATCCTC
AACGGCCACAGCCTGACCCGCCGGGAGCGCAGGCAGTTTCTCCGGATCTGCGCTGACCTC
TTCCGCCTGGTGCCGTTCCTTGTGTTCGTGGTGGTGCCGTTCATGGAGTTTCTGCTGCCT
GTTGCTGTGAAGCTCTTCCCCAACATGTTGCCATCCACATTTGAGACTCAGTCACTCAAG
GAGGAGAGGCTGAAGAAGGAGCTTCGGGTCAAGCTGGAGCTGGCCAAGTTCCTCCAGGAC
ACCATCGAGGAGATGGCCTTGAAGAACAAGGCAGCCAAGGGCAGCGCCACCAAAGACTTC
TCTGTGTTTTTCCAGAAGATCCGGGAAACAGGGGAGAGGCCCAGCAATGAGGAAATCATG
CGTTTTTCCAAATTATTTGAGGATGAGCTGACCCTGGACAACCTGACACGGCCGCAGCTG
GTGGCCCTGTGCAAGCTGCTGGAGCTACAGTCCATCGGCACCAACAACTTCCTGCGCTTC
CAGCTTACCATGCGGCTGCGCTCCATAAAGGCAGACGACAAGCTGATTGCTGAGGAAGGG
GTGGACAGCCTGAATGTCAAGGAGCTGCAGGCAGCGTGTCGGGCACGAGGCATGCGGGCC
CTGGGCGTCACGGAAGACCGCCTGAGGGGTCAGCTGAAGCAGTGGCTGGACCTGCACCTG
CATCAGGAGATCCCCACATCGCTGCTCATCCTGTCCCGGGCCATGTACCTCCCGGACACC
CTCTCTCCAGCCGACCAGCTCAAGTCCACACTGCAGACCCTCCCAGAGATTGTGGCAAAG

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GAAGCACAGGTGAAAGTGGCCGAGGTGGAGGGCGAGCAGGTGGACAACAAGGCCAAGCTG
GAGGCCACGCTGCAGGAGGAGGCGGCCATCCAGCAGGAGCACCGTGAGAAGGAGCTGCAG
AAGCGCTCGGAGGTGGCGAAGGATTTTGAGCCCGAACGTGTGGTAGCTGCTCCCCAAAGG
CCGGGGACCGAGCCACAGCCAGAAATGCCTGACACAGTCCTGCAGTCAGAGACCTTGAAG
GACACTGCCCCGGTGCTGGAGGGCTTGAAGGAGGAAGAGATCACGAAGGAGGAAATCGAC
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GTCATCAGTGTCGCTGAGCTCATCAACGCCATGAAGCAAGTCAAGCACATTCCCGAAAGC
AAGCTCACCAGCCTGGCCGCAGCACTGGATGAAAACAAGGATGGCAAGGTCAACATCGAC
GACCTCGTCAAGGTGATTGAGCTGGTGGACAAAGAAGATGTTCACATCTCCACCAGCCAG
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AAAGAGAAGGCAGAGAAGGAGGTCGCAGAGGTGAAGAGCTAGAACCACTGGCCTGGGCAC
CTGTCCTCCTGCTGTGCCGTCACCCTGGCAAGGGCCGTGAGGGCGATTGCTTTGTGGTGA
TTCTCAGTGGCTCATCTAATATTTTGGCTGGAATAAATCAGAGACTTCCATAATCAAGTA
AATTTTAATTTTCATCATTCCATGGAGATTCAGTCTGTCTGGAATCCCGGAACCCCTCCA
CAGAATCGTGTCTGGATCCACACTGTGGTGTGGCTGCCACGGCCTCCTGGCTCCAGAGGC
AGCTGGGCCGGGCCAAGGCAGGAAGGCGCCCCCATGTGTGTGGCCTCAGTCTCAGCATCT
GACTGTGCTGCCCTGTCCCCAGGGAAGAGAATGAGGACCACGTGGACTCCGCCCACACAG
AGCTGGCTGCTGTGCCCACCCTCAGGGGCGTCAGGAGACACAGCCTGGCCTCCTCAGGGC
TGAAGATGCCTCCATTCGCCTGTGGACCTTGATTTCTAGATTTCAGTGTCAATAGACCTG
TCTTCCTGCACACTTTCAGTTGGATGTGGGTCATTGTGGAGACAGAGGTGTCTGCCATCT
CTGTGGCCTCTGGAGAGTGACGTCTCCCTGCTGGGAGTGCTGGTTCTCACGTGCGGTTTC
CCTTGTGTATCGGAGCTCTTTCTCGGCTTTCTATTTCCCCCAGTTCTTTAAGCAGTCAAT
TGGCACAGAGTTTCCCACGGGGGCTGCAGTGGATTCACTGTGTCAGGGATGAGCCTGGCT
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TGAGTCCAGTGCGCCCACAGCAGCATGCCCTTCTCACCCCTTGCAGTGTTGCAGGCTCAG
GCCCCTGGGCTCCTTCAGCAAGCAGGCTAGTCAATGAGGCATGAGGATCCGGCACAGGGC
ATCCCCTGGGGCTTCAAGGGCAATACCCCCGTGCTTAGGGTTTGCCCTGTGCCCTCTGGG
TGGGGTGGCCTCCCCGCACTCGGCAGCATGGCCAGGCTGGCCAGGGCGTGGGCAGGTGGT
GTCCTGTGGCACCTCCATCCTCCTGCCCAGCCGGCTGTGTCACACTCATCTTTTTAAGGT
CAGGTTGGTTCCTGGCAAAAATGTACCTCCAGGGGCCTCCAAGCATAGGATTTGGAAGAC
AGGAACGGCACAGGCGTCCAGGAAAGCAGCTGCACTCAGACAATGCCTTCTCCATTACTT
GAAGCTTCTTTCTGTTCAGCCATTAAAGAAACTTGACAAAATAGGAACAGGAGATATTTC
TCAATTGTAAACCTTTGTGCAGGGACAGTTGGCTTCCAGAGGCTTTCAGCTTTCAGTTAT
TTGAGAAGTTTGTTTTAGATCCTTAACTAATATTTATGAATTCTCTCAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_012318

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_012318.1, NP_036450.1
RefSeq Size:	3907 bp
RefSeq ORF:	2220 bp
Locus ID:	3954
UniProt ID:	O95202
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]