

Product datasheet for **RG202855**

LETM1 (NM_012318) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LETM1 (NM_012318) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LETM1
Synonyms:	SLC55A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG202855 representing NM_012318
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGTCCACTTACTGAGGAGCTGCCGCGGCCGGCGCCCGCCCGCTCCCGCCGCCCTCGGTACA
 CCGTCCCAGGGGTAGTCCAGGGGATCCTGCTCATCTCAGCTGTGCCAGCACCCCTGGGGTTGAGGAAGT
 CCTGAATGTTCCATTTGGCTGCTGCACTCCCATCCACCCTGTGTACACATCCTCCAGAGGCGATCACCTC
 GGCTGTTGGGCTCTGAGGCCGAGTGCCTTCGCATAGTGTGAGAGCGCCATGGACCTCTACCTCTGTGG
 GTTTTGTGGCTGTGGACCTCAGTGCCTTCTGTGCGTGGCTGGCACTCTTCGCGCCCTGTTGCGGATGA
 CTCGGTAGTAGAGAAGTCCCTCAAGTCTTGAAGGACAAGAACAAGAAGCTGGAGGAAGGCGGCCGGTG
 TACAGCCCCCGCAGAGGTGGTGGTGAAGAAGTCCCTGGGCGAGCGGGTCTGGACGAGCTGAAGCACT
 ACTACCATGGCTTCCGCCTGCTATGGATCGACACCAAGATCGCGGCACGCATGCTCTGGCGCATCTCAA
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 CCGTTCCTTGTGTTGCTGGTGGTCCCGTTCATGGAGTTTCTGCTGCCTGTGCTGTGAAGCTCTTCCCA
 ACATGTTGCCATCCACATTTGAGACTCAGTCACTCAAGGAGGAGAGGCTGAAGAAGGAGCTTCGGGTCAA
 GCTGGAGCTGGCCAAGTTCTCCAGGACACCATCGAGGAGATGGCCTTGAAGAACAAGGCAGCCAAGGGC
 AGCGCCACCAAGACTTCTCTGTGTTTTCCAGAAGATCCGGGAAACAGGGGAGAGGCCAGCAATGAGG
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 AGCTGCAGGCAGCGTGTGCGGCACGAGGCATGCGGGCCCTGGGCGTCACGGAAGACCGCTGAGGGGCA
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 ATTGACAAAAAGGTGCAGCAAATGATCGGGCAGATCGATGGCTTGATCTCGCAGCTGGAGATGGACCAG
 CAGGCTGGCAAGCTGGCCCCGGCCAACGGCATGCCACGGGGGAGAACGTGATCAGTGTGCTGAGCTCA
 TCAACGCCATGAAGCAAGTCAAGCACATTTCCGAAAGCAAGCTCACACGCTGGCCCGCAGCACTGGATGA
 AAACAAGGATGGCAAGTCAACATCGACGACCTCGTCAAGGTGATTGAGCTGGTGGACAAAGAAGATGTT
 CACATCTCCACAGCCAGGTGGCTGAGATTGTAGCAACTGGAAAAAGAGGAGAAGGTGGAGGAGAAGG
 AGAAGGCCAAAGAGAAGGCAGAGAAGGAGGTGCGCAGAGGTGAAGAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202855 representing NM_012318
Red=Cloning site Green=Tags(s)

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MASILLRSCRGRAPARLPPPPRYTVPRGSPGDP AHLSCASTLGLRNCLNVPFGCCTPIHPVYTSSRGDHL
GCWALRPECLRIVSRAPWTSTSVGFVAVGPQCLPVRGWHSRVRDSSVVEKSLKSLKDKNKKLEEGPV
YSPPAEVVVKKSLGQRVLDELKHYHGFRLWLWIDTKIAARMLWRILNGHSLTRRERRQFLRICADLFRLV
PFLVVFVVPFMEFLLPVAVKLPNMLPSTFETQSLKEERLKKELRVKLELAKFLQDTIEEMALKNKAAKG
SATKDFS VFFQKIRETGERPSNEEIMRFSKLFEDLTL DNLTRPQLVALCKLLELQSIGTNNFLRFQLTM
RLRSIKADDKLI AEEGVDLSLVKELQAACRARGMRALGVTE DRLRGQLKQWLDLHLHQE IPTSLILSRA
MYLPDTLSPADQLKSTLQTLPEIVAKEAQVKVAEVEGEQVDN KAKLEATLQEEAAIQQEHREKELQKRSE
VAKDFEPERVVAAPQRPQTEPQPEMPD TVLQSETLKDTAPVLEGLKEEITKEEIDILSDACSKLQEQKK
SLTKEKEELELLKEDVQDYSEDLQEIKKELSKTGEEKYVEESKASKRLTKRVQQMIGQIDGLISQLEMDQ
QAGKLAPANGMPTGENVISVAELINAMKQVKH IPE SKL TSLAAALDENKDGKVNIDDLVKVIELVDKEDV
HISTSQVAEIVATLEKEEKVVEEKAKAKEAEKEVAEVKS
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012318

ORF Size: 2217 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_012318.1](#), [NP_036450.1](#)

RefSeq Size: 3907 bp

RefSeq ORF: 2220 bp

Locus ID: 3954

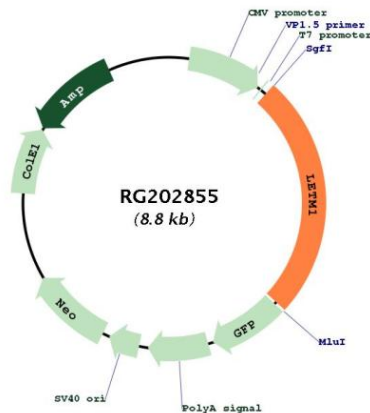
UniProt ID: [O95202](#)

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]

Product images:



Circular map for RG202855