

Product datasheet for **RG215607**

LETM2 (NM_144652) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LETM2 (NM_144652) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LETM2
Synonyms:	SLC55A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215607 representing NM_144652 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGAACTATGAGAGCAAGAAGTACTCGGATCCTAGTCAGCCAGGCAATACAGTACTTCACCCAGGAA
CTAGACTAATACAAAAGCTACACACATCCACTTGGCTGCAAGAAGTTCCTGGCAAACCTCAGCTGGA
GCAAGCCACAAAACATCCACAGGTGACAAGCCCTCAGGCCACAAAAGAACTGGCATGGAGATTAAGAA
GGCAAACAATCTTATAGACAAAAATCATGGATGAACTAAAATATTATTACAATGGATTCTACTTACTTT
GGATTGACGCCAAAGTTGCTGCCAGAATGGTTTGGAGGCTGTTGCATGGACAGGTCTGACCAGACGAGA
GAGACGAAGGGAAGAAAACAGAAAAGAAAATGGCTGTAAAGTTGGAAGTAGCAAAATTTCTTCAAGAA
ACCATGACAGAAATGGCAAGGAGGAACAGAGCCAAGATGGGCGATGCCTCTACACAGCTCTCATCTACG
TGAAGCAGGTCCAGACAGGCCACAAGCCCAGCACAAAAGGAGATAGTTCGTTCTCCTCAAACTATTTGAGGA
CCAGCTGGCCCTGGAACACTTAGATCGCCCTCAGCTGGTTGCCCTTTGCAAAGTCTGGAATTGCAGACA
TTTGAACCAACAACCTGCTCCGCTTTCAGCTCCTGATGAACTGAAGTCTATAAAAGCAGATGATGAAA
TAATTGCCAAGGAAGGGGTGACAGCATTGAGTGTATCAGAACTACAGGCTGCCTGATGGGCCCGAGGGAT
GAGTCACTGGTCTCACGGAGGAACAACACTGCGACAACAGCTCACGGAGTGGCAGGACCTCCACCTGAAG
GAGAAGTCCCTCCTTCCCTTTTGTCTCCTGTCGCCGACCTTCTACCTGATAGATGTAAGCCCAAGCCGA
TTGAGATACCACTCAGTGGGAGGCTCCAAGACTGATATTCTTGTGGAATTACCTACTTTCACTGAATC
TAAAGAGAACATGGTGGATCTTGCACTCAACTGAAGGGAACAAAGGATGAAGACTTTATACAGCCGCCA
CCAGTTACATCATCACCCATAACACCATCAACCTATTTTATTACCTAAAGGACCCATCACTTCTCTG
AAGAACCTACTCCAGGCCAAATCACAAATGACGGCCAGAACAGCAAGGCTAGTTCAAAAGGAGCA

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG215607 representing NM_144652
Red=Cloning site Green=Tags(s)

MKNYESKKYSDPSQPGNTVLHPGTRLIQKLHTSTCWLQEVPGKPQLEQATKHPQVTSPQATKETGMEIKE
 GKQSYRQKIMDELKYYYNGFYLLWIDAKVAARMVWRLRHGQVL TRRRRRREEKQKKKMAVKLELAKFLQE
 TMTMARRNRKMGDASTQLSSYVKQVQTHGHPSTKEIVRF SKLFEDQLALEHLDRPQLVALCKLLELQT
 FGTNNLLRFQLLMKLSIKADDEIIAKEGVTALSVSELQAACRARGMRSGLGLEEQLRQQLTEWQDLHLK
 ENVPPSLLLLSRFYLIDVKPKPIEIPLSGEAPKTDILVELPTFTESKENMVDLAPQLKGTKDEDFIQPP
 PVTSSPITPSTPISLPGPITSSEEPTLQAKSQMTAQNSKASSKGA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_144652

ORF Size: 1188 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_144652.3](#)

RefSeq Size: 1631 bp

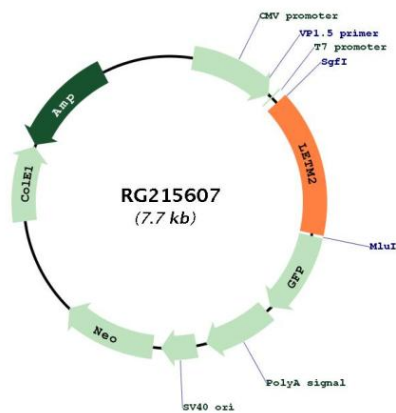
RefSeq ORF: 1191 bp

Locus ID: 137994

UniProt ID: [Q2VYF4](#)

Cytogenetics: 8p11.23

Product images:



Circular map for RG215607