

Product datasheet for **RC238539**

LETM2 (NM_001286819) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LETM2 (NM_001286819) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LETM2
Synonyms:	SLC55A2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238539 representing NM_001286819
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCTTCTACAGTTATAATTCAGTTCTGGCTATTGCTCGAACAAAGATTCCTAGCCATTTTGTCCATC
 CTACCTGCTCTTCTTATTCCCACATCATGTGCATTTCTTCACTTGCCAGATTCCCATTAAATAAGACATG
 TATGAAGAACTATGAGAGCAAGAAGTACTCGGATCCTAGTCAGCCAGGCAATACAGTACTTCACCCAGGA
 ACTAGACTAATACAAAAGCTACACACATCCACTTGTGGCTGCAAGAAGTTCTGGCAAACCTCAGCTGG
 AGCAAGCCACAAAACATCCACAGGTGACAAGCCCTCAGGCCACAAAAGAACTGGCATGGAGATTAAGA
 AGGCAAACAATCTTATAGACAAAAATCATGGATGAACTAAAATATTATTACAATGGATTCTACTTACTT
 TGGATTGACGCCAAAGTTGCTGCCAGAATGGTTTGGAGGCTGTTGCATGGACAGGTCTGACCAGACGAG
 AGAGACGAAGGCTGTTGAGAATTTGTGTTGATTTCTCCGCTGGTTCCATTTATGGTGTCTTAATTGT
 ACCCTTCATGGAATTCATTACCAGTGTTCGAACTCTCCAGAGATGTTGCCATCAACTTTTGAA
 AGTGAATCCAAAAGGAAGAAAACAGAAAAGAAAATGGCTGTAAGTTGGAACAGCAAAATTTCTTC
 AAGAAACCATGACAGAAATGGCAAGGAGGAACAGAGCCAAGATGGGCGATGCCTCTACACAGCTCTCATC
 CTACGTGAAGCAGGTCCAGACAGGCCACAAGCCAGCACAAAAGGAGATAGTTTCGCTTCTCCAAACTATTT
 GAGGACCAGCTGGCCCTGGAACACTTAGATCGCCCTCAGCTGGTTGCCCTTTGCAAACCTGCTGGAATTGC
 AGACATTTGGAACCAACAACCTGCTCCGCTTTCAGCTCCTGATGAACTGAAGTCTATAAAAGCAGATGA
 TGAAATAATTGCCAAGGAAGGGGTGACAGCATTGAGTGTATCAGAACTACAGGCTGCCTGTAGGGCCCGA
 GGGATGAGACTACTGGGTCTCACGGAGGAACAACCTGCGACAACAGCTCACGGAGTGGCAGGACCTCCACC
 TGAAGGAGAACGTCCTCCTTCCCTTTGCTCCTGTCGACCTTCTACCTGATAGATGAAGCCCAA
 GCCGATTGAGATACCACTCAGTGGGAGGCTCCAAGACTGATATTCTTGTGGAATTACCTACTTTCATC
 GAATCTAAAGAGAACATGGTGGATCTTGCACCTCAACTGAAGGGAACAAAGGATGAAGACTTTATACAGC
 CGCCACCAGTTACATCATCACCCATAACACCATCAACACCTATTTATTACCTAAAGGACCCATCACTTC
 TTCTGAAGAACCTACACTCCAGGCCAAATCACAAATGACGGCCAGAACAGCAAGGCTAGTTCAAAGGA
 GCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238539 representing NM_001286819
 Red=Cloning site Green=Tags(s)

MAFYSYNSVLAIAARTRFPSHFVHPTCSSYSPSCAFLHLPDShLNKTCMKNYESKKYSDPSQPNTVLHPG
 TRLIQKLHTSTCWLQEVPGKQLEQATKHPQVTSQATKETGMEIKEGKQSYRQKIMDELKYYNGFYLL
 WIDAKVAARMVWRLHGVQLTRRERRRLLRVCVDFRLLVPMVFLVPMFELLPVFLKLFPEMLPSTFE
 SESKKEEKQKKMAVKLELAKFLQETMTEMARRNRAKMGDASTQLSSYVKVQVQGHKPKSTKEIVRFKLF
 EDQLALEHLDRPQLVALCKLELQTFGTNNLLRFQLLMKLSIKADDEIIAKEGVTALSVSELQAACRAR
 GMRSLGLTEEQRLRQLTEWQDLHLKENVPPSLLLLSRTFYLIDVKPKPIEIPLSGEAPKTDILVELPTFT
 ESKENMVDLAPQLKGTKDEDFIQPPVTSSTPITPSTPISLPGPITSSEEPQLQAKSQMTAQNASKSKG
 A

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

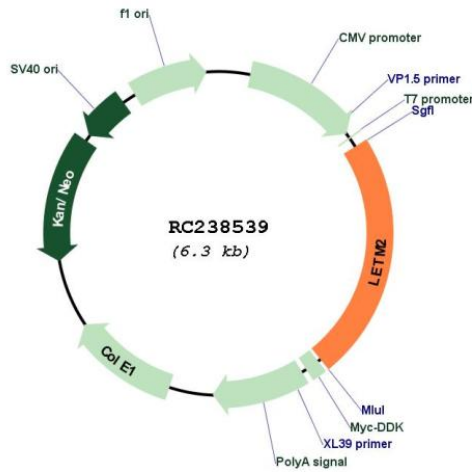
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001286819

ORF Size: 1473 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_001286819.2](#)

RefSeq Size: 2891 bp

RefSeq ORF: 1476 bp

Locus ID: 137994

UniProt ID: [Q2VYF4](#)

Cytogenetics: 8p11.23

MW: 56.4 kDa