

Product datasheet for **RG209445**

LETMD1 (NM_015416) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LETMD1 (NM_015416) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: LETMD1
Synonyms: 1110019O13Rik; HCCR; HCCR-1; HCCR-2; HCCR1; HCCR2; HCRR-2; SLC55A3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG209445 representing NM_015416
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCTCTCCAGGGTGTGCTGGGCTCGGTCGGCTGTGTGGGGCTCGGCAGTCACCCCTGGACATTTTG
TCACCCGGAGGCTGCAACTTGGTCGCTCTGGCCTGGCTTGGGGGGCCCTCGGCTTCAAAGCTTCACT
TTCTCAAAGGCAGATGTGAAGAACTTGATGTCTTATGTGGTAACCAAGACAAAAGCGATTAATGGGAAA
TACCATCGTTTCTGGGTCGTCTTTCCCGCTTCTATGTCCTGTACACAATCTTCATGAAAGGATTGC
AGATGTTATGGGCTGATGCCAAAAGGCTAGAAGAATAAAGACAAATATGTGGAAGCACAATATAAAGTT
TCATCAACTTCCATACCGGGAGATGGAGCATTTGAGACAGTTCGCCAAGACGTCACCAAGTGTCTTTTC
CTAGGTATTATTTCCATTCCACCTTTTGCCAACTACCTGGTCTTCTTGCTAATGTACCTGTTTCCAGGC
AACTACTGATCAGGCATTTCTGGACCCCAAAACAACAACTGATTTCTTAGATATCTATCATGCTTTCCG
GAAGCAGTCCCACCCAGAAATTATTAGTTATTTAGAAAAGGTCATCCCTCTCATTCTGATGCAGGACTC
CGGTGGCGTCTGACAGATCTGTGCACCAAGATACAGCGTGGTACCCACCCAGCAATACATGATATCTTGG
CTCTGAGAGAGTGTCTCTAACCATCCTCTGGGCATGAACCAACTCCAGGCTTTCACGTGAAAGCCTT
GAGCCGGGCCATGCTTCTCACATCTTACCTGCCTCCTCCCTTGTGAGACATCGTTTGAAGACTCATACA
ACTGTGATTCACCAACTGGACAAGGCTTTGGCAAAGCTGGGATTGGCCAGCTGACTGCTCAGGAAGTAA
AATCGGCTTGTTATCTCGTGGCCTGAATTCTACGCATATTGGTGAAGATAGGTGTCGAACCTTGGCTGGG
AGAATGGCTGCAGATTTCTGCAGCCTGAAAGAAGCTGAGCTGTCTCTTGTGCTGACAACGTGGTCTCTG
CTCTCCACCAACTACCTTGGGACAAGGCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209445 representing NM_015416
 Red=Cloning site Green=Tags(s)

MALSRVCWARSAYVWGSVTPGHFVTRRLQLGRSGLAWGAPRSSKLHLSPKADVKNLMSYVVTKTKAINGK
 YHRFLGRHFPRFYVLYTIFMKGLQMLWADAKKARRIKTNMWKHNKIFHQLPYREMEHLRQFRQDVKCLF
 LGIISIPPFANYLVFLMYLFPRLQLLIRHFWTPKQQTDFLDIYHAFRQSHPEIISYLEKVIPLISDAGL
 RWRLTDLCTKIQRGTHPAIHDILALRECFSNHPLGMNQLQALHVKALSRAMLLTSYLPPPLLRHRLKTHHT
 TVIHQLDKALAKLGIQQLTAQEVKSACYLRGLNSTHIGEDRCRTWLGEWLQISCSLKEAELSLLLHNVVLL
 LSTNYLGTRR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015416

ORF Size: 1080 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_015416.5](#)

RefSeq Size: 2133 bp

RefSeq ORF: 1083 bp

Locus ID: 25875

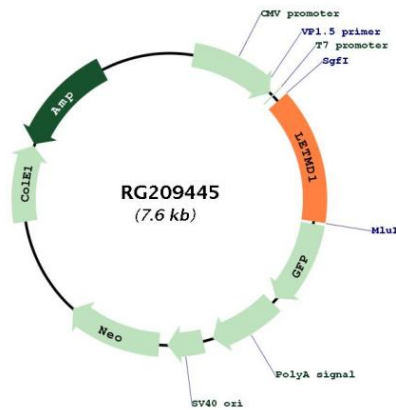
UniProt ID: [Q6P1Q0](#)

Cytogenetics: 12q13.12

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene encodes a mitochondrial outer membrane protein. It has a potential role in tumorigenesis, which may result from negative regulation of the p53 tumor suppressor gene. Alternatively spliced transcript variants have been noted for this gene. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RG209445