

Product datasheet for **RG226647**

LRTOMT (NM_001145309) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	LRTOMT
Synonyms:	CFAP111; DFNB63; LRRC51
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG226647 representing NM_001145309
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGGAACCCCATGGAGGAAGAGAAAGGGTATAGCAGGCCCTGGACTCCCCGACCTGTCCTGTGCTCTGG
TCCTCCAGCCCAGGGCCAGGTAGGGACCATGTCCCCTGCCATTGCATTGGCCTTCCTGCCACTGGTGGT
AACATTGCTGGTGCGGTACCGGCACTACTCCGATTGCTGGTGCGCAGGCTCTGCTGCGAAGCCTCCGA
GACTGCCTGTCAGGGCTGCGGATCGAGGAGCGGGCCTTCAGCTACGTGCTCACCCATGCCCTGCCCGTG
ACCTGGTCACATCCTACCACTGGACCACTGGAGCAGCCGCTGCGAGTACTTGAGCCACATGGGGCC
TGTCAAAGGTCAGATCCTGATGCGGCTGGTGGAGGAGAAGGCCCTGCTTGTGTGCTGGAATTGGGAACC
TACTGTGGATACTCTACCCTGCTTATTGCCGAGCCCTGCCCTGGGGTGCCTTCTTACTGTGGAGC
GGGACCCACGCACGCAGCAGTGGCTGAAAACTCATCCGCTGGCCGGCTTTGATGAGCACATGGTGA
GCTCATCGTGGGACGTCAGAGGACGTGATCCCGTGCCTACGCACCCAGTATCAGCTGAGTCGGGCAGAC
CTGGTCTCTGGCACACCGGCCACGATGTTACCTGAGGGACCTGCAGCTGCTGGAGGCCCATGCCCTAC
TGCCAGCAGGTGCCACCGTGTGGCTGACCATGTGCTCTTCCCTGGTGCACCCCGCTTCTTGCAGTATGC
TAAGAGCTGTGGCCGCTACCGCTGCCGCTCCACCACACTGGCCTTCCAGACTTCCCTGCCATCAAGGAT
GGAATAGCTCAGCTCACCTATGCTGGACAGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



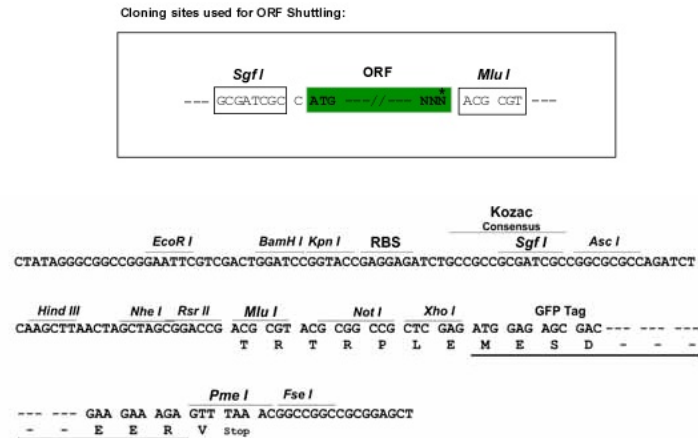
Protein Sequence: >RG226647 representing NM_001145309
 Red=Cloning site Green=Tags(s)

MGTPWRKRKGIAGPGLPDLSCALVLQPRAGVGTMSPAIALAFLPLVVTLLVRYRHYFRLLVVRTVLLRSLR
 DCLSGLRIEERAFSYVLTHALPGDPGHILTLDHWSSRCEYL SHMGPVKQIILMRLVEEKAPACVLELGT
 YCGYSTLLIARALPPGGRLLTVERDPRTAAVAEKLIRLAGFDEHMLVIGSSEDVIPCLRTQYQLSRAD
 LVLLAHRPCYLRDLQLLEAHALLPAGATVLADHVLFPAGPRFLQYAKSCGRYRCRLHHTGLPDFPAIKD
 GIAQLTYAGPG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001145309

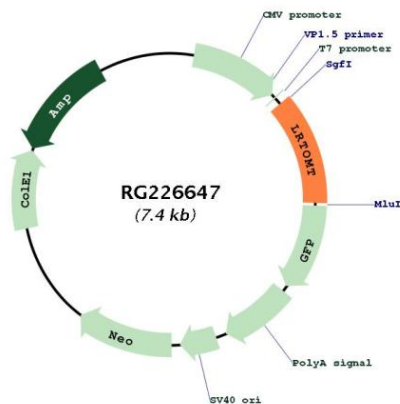
ORF Size: 873 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<u>NM_001145309.4</u>
RefSeq Size:	3844 bp
RefSeq ORF:	876 bp
Locus ID:	220074
UniProt ID:	<u>Q8WZ04</u>
Cytogenetics:	11q13.4
Gene Summary:	This locus represents naturally occurring readthrough transcription between the neighboring LRRC51 (leucine-rich repeat containing 51) and TOMT (transmembrane O-methyltransferase) genes on chromosome 11. The readthrough transcript encodes a fusion protein that shares sequence identity with each individual gene product. Multiple reports implicate mutations in this gene in nonsyndromic deafness.[provided by RefSeq, Feb 2021]

Product images:



Circular map for RG226647