OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC329411

LRTOMT (NM_001145310) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRTOMT (NM_001145310) Human Untagged Clone
Tag:	Tag Free
Symbol:	LRTOMT
Synonyms:	CFAP111; DFNB63; LRRC51
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC329411 representing NM_001145310. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGGGAACCCCATGGAGGAAGAGAAAGGGTATAGCAGGCCCTGGACTCCCCGACCTGTCCTGTGCTCTG GTCCTCCAGCCCAGCCTCCGAGACTGCCTGTCAGGGCTGCGGATCGAGGAGCGGGCCTTCAGCTACGTG CTCACCCATGCCCTGCCCGGTGACCCTGGTCACATCCTCACCACCCTGGACCACTGGAGCAGCCGCTGC GAGTACTTGAGCCACATGGGGCCTGTCAAAGGTCAGATCCTGATGCGGCTGGTGGAGGAGAAGGCCCCT GCTTGTGTGCTGGAATTGGGAACCTACTGTGGATACTCTACCCTGCTTATTGCCCGAGCCCTGCCCCCT GGGGGTCGCCTTCTTACTGTGGAGCGGGACCCACGCACGGCAGCAGTGGCTGAAAAACTCATCCGCCTG GCCGGCTTTGATGAGCACATGGTGGAGCTCATCGTGGGCAGCTCAGAGGACGTGATCCCGTGCCTACGC ACCCAGTATCAGCTGAGTCGGGCAGACCTGGTGCTCCTGGCACACCGGCCACGATGTTACCTGAGGGAC CTGCAGCTGCTGGAGGCCCATGCCCTACTGCCAGCAGGTGCCACCGTGCTGGCTGACCATGTGCTCTTC CCTGGTGCACCCCGCTTCTTGCAGTATGCTAAGAGCTGTGGCCGCTACCGCTGCCGCCTCCACCACACT GGCCTTCCAGACTTCCCTGCCATCAAGGATGGAATAGCTCAGCTCACCTATGCTGGACCAGGCTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI
ACCN:	NM_001145310
Insert Size:	756 bp

View online »

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
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_001145310.3
RefSeq Size:	3710 bp
RefSeq ORF:	756 bp
Locus ID:	220074
UniProt ID:	Q8WZ04
Cytogenetics:	11q13.4
MW:	27.5 kDa
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] Transcript Variant: This variant (6, also known as E') represents the long transcript form. It lacks the 3' terminal exon and includes several alternate exons, compared to variant 1. This variant encodes isoform LRTOMT2b, which lacks an internal segment including the transmembrane region, compared to isoform LRTOMT2a. Isoform LRTOMT2b is a catechol-O-methyltransferase, which is supported by Western blot as reported in PMID: 18953341.