

Product datasheet for **RG202297**

LRRC51 (NM_145309) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: LRRC51
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PSI00010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG202297 representing NM_145309
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGAACAAACGGGACTATATGAACACTTCGGTACAGGAGCCCCCTCTTGACTACTCCTTCAGAAGCATCC
ACGTCATTCAAGATCTGGTAAATGAGGAGCCAAGGACAGGACTACGACCACTGAAGCGTTCAAAGTCGGG
GAAATCACTGACCCAGTCCCTGTGGCTGAATAACAATGTTCTCAATGATCTGAGAGACTTCAACCAGGTG
GCTTCACAGCTGTTGGAGCACCCAGAGAACCTGGCCTGGATCGACCTGTCCTTTAATGACCTGACTTCCA
TTGACCCTGTCCTAACAACCTTCTTCAACCTGAGTGTCTCTATCTTCACGGCAACAGCATCCAGCGCCT
GGGGGAGGTGAATAAGCTGGCTGTCCTTCTCGGCTCCGTAGCCTGACACTCCATGGGAACCCCATGGAG
GAAGAGAAAGGGTATAGGCAATATGTGCTGTGCACCCGTGCCGTATCACCACGTTTCGACTTCAGTGGGG
TCACCAAAGCAGACCGCACCAAGCTGAAGTCTGGAACGCATGAACATCAAGCCCAAGAAGGCCTGGAC
CAAGCAGAATACACTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202297 representing NM_145309
Red=Cloning site Green=Tags(s)

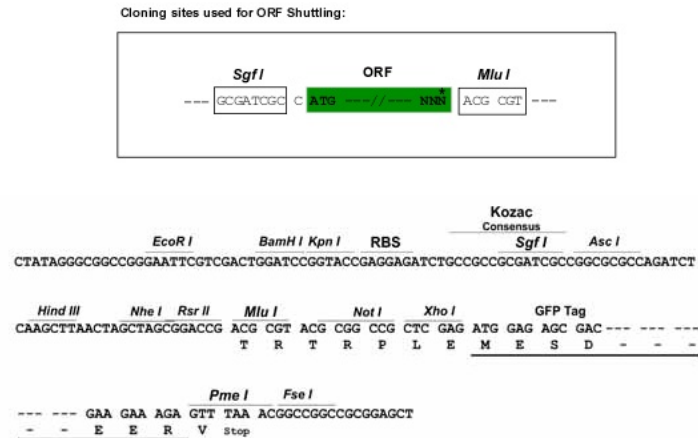
MNKRDMNTSVQEPLDYSFRSIHVIQDLVNEEPRTGLRPLKRSKSGKSLTQSLWLNNNVLNDRDFNQV
ASQLLEHPENLAWIDL SFNDLTSIDPVL TTFNLSVL YLHGNSIQRLGEVNKLAVLPRLRSLTLHGPNME
EEKGYRQYVLC TSLRITTFDFSGVTKADRTTAEVWKRNIKPKKAWTKQNTL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_145309

ORF Size: 576 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_145309.6](#)

RefSeq Size: 2130 bp
 RefSeq ORF: 579 bp
 Locus ID: 220074

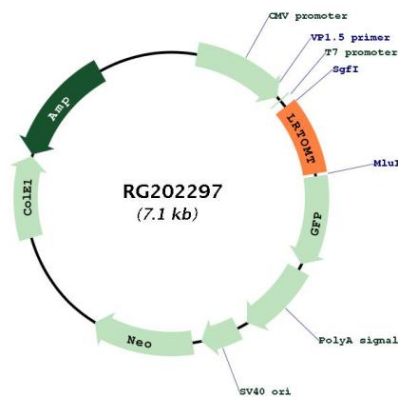
UniProt ID: [Q96E66](#)

Cytogenetics: 11q13.4

Domains: LRR

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 RG202297