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Product datasheet for RC202297

LRRC51 (NM_145309) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRRC51 (NM_145309) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LRRC51
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC202297 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACAAACGGGACTATATGAACACTTCGGTACAGGAGCCCCCTCTTGACTACTCCTTCAGAAGCATCC
ACGTCATTCAAGATCTGGTAAATGAGGAGCCAAGGACAGGACTACGACCACTGAAGCGTTCAAAGTCGGG
GAAATCACTGACCCAGTCCCTGTGGCTGAATAACAATGTTCTCAATGATCTGAGAGACTTCAACCAGGTG
GCTTCACAGCTGTTGGAGCACCCAGAGAACCTGGCCTGGATCGACCTGTCCTTTAATGACCTGACTTCCA
TTGACCCTGTCCTAACAACTTTCTTCAACCTGAGTGTCCTCTATCTTCACGGCAACAGCATCCAGCGCCT
GGGGGAGGTGAATAAGCTGGCTGTCCTTCCTCGGCTCCGTAGCCTGACACTCCATGGGAACCCCATGGAG
GAAGAGAAAGGGTATAGGCAATATGTGCTGTGCACCCTGTCCCGTATCACCACGTTCGACTTCAGTGGGG
TCACCAAAGCAGACCGCACCACAGCTGAAGTCTGGAAACGCATGAACATCAAGCCCAAGAAGGCCTGGAC
CAAGCAGAATACACTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202297 protein sequence
Red=Cloning site Green=Tags(s)

MNKRDYMNTSVQEPPLDYSFRSIHVIQDLVNEEPRTGLRPLKRSKSGKSLTQSLWLNNNVLNDLRDFNQV
ASQLLEHPENLAWIDLSFNDLTSIDPVLTTFFNLSVLYLHGNSIQRLGEVNKLAVLPRLRSLTLHGNPME
EEKGYRQYVLCTLSRITTFDFSGVTKADRTTAEVWKRMNIKPKKAWTKQNTL

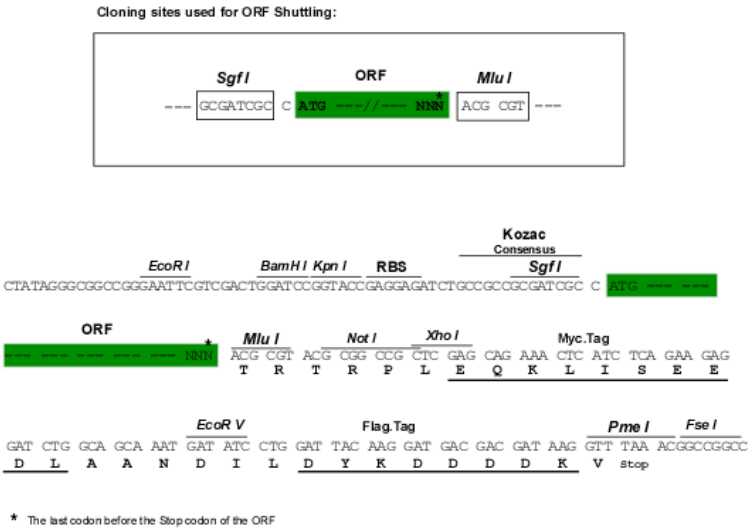
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6785_a06.zip

View online »

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.

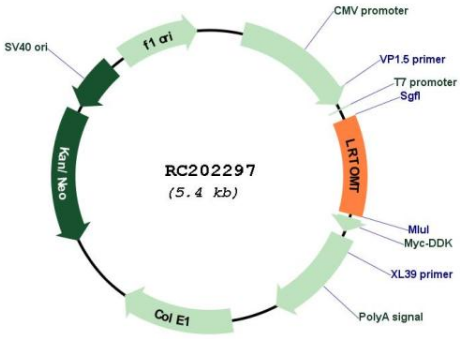
RefSeq: NM_145309.6

RefSeq Size: 2658 bp

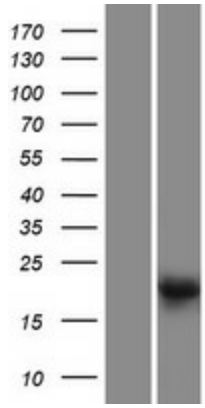
RefSeq ORF: 579 bp

Locus ID:	220074
UniProt ID:	Q96E66
Cytogenetics:	11q13.4
Domains:	LRR
MW:	22.2 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]

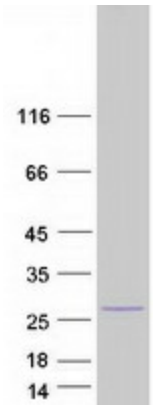
Product images:



Circular map for RC202297



Western blot validation of overexpression lysate (Cat# [LY407958]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202297 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified LRTOMT protein (Cat# [TP302297]). The protein was produced from HEK293T cells transfected with LRTOMT cDNA clone (Cat# RC202297) using MegaTran 2.0 (Cat# [TT210002]).