

Product datasheet for **RG208501**

LRRC48 (DRC3) (NM_031294) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRRC48 (DRC3) (NM_031294) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LRRC48
Synonyms:	CFAP134; LRRC48
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208501 representing NM_031294
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGAACGACCGTGCAACTCGATGGAGCCGAGGGTGATGGACGATGACATGCTCAAGCTGGCCGTCGGGG
 ACCAGGGCCCCAGGAGGAGGCCGGCAGCTGGCCAAGCAGGAGGCATCCTCTTCAAGGATGTCCTGTC
 CCTGCAGCTGGACTTTTCGGAACATCCTCCGCATAGACAACCTCTGGCAGTTTGAGAACTTGAGGAAGCTG
 CAGCTGGACAATAACATCATTGAGAAGATCGAGGGCCTGGAGAACCTCGCACACCTGGTCTGGCTGGATC
 TGTCTTTCAACAACATTGAGACCATCGAGGGGCTGGACACACTGGTGAACCTGGAGGACCTGAGCTTGTT
 CAACAACCGGATCTCAAGATCGACTCCCTGGACGCCCTCGTCAAGCTGCAGGTGTTGTCGCTGGGCAAC
 AACCGGATTGACAACATGATGAACATCATCTACCTTCGGCGGTTCAAGTGCCTGCGGACGCTCAGCCTCT
 CTAGGAACCTATCTCTGAGGCAGAGGATTACAAGATGTTTCATCTGTGCCTACCTTCCTGACCTCATGTA
 CCTGGACTACTGGCGATTGATGACCACACAAAAAGCTTGGCGAGGCTAAGCACCAGTACAGCATCGAC
 GAGCTGAAGCACCAGGAGAACCTGATGCAGGCCAGCTGGAGGACGAGCAGGCGCAGCGGAGGAGCTAG
 AGAAGCACAAGACTGCGTTTGTGGAACACCTGAATGGCTCCTTCCTGTTTGACAGCATGTACGCTGAGGA
 CTCAGAGGGCAACAATCTGTCTACCTGCCTGGTGTGCGTGAGCTCCTTGAGACCTACAAGGACAAGTTT
 GTCATCATCTGCGTGAATATTTTGTAGTATGGCCTGAAACAGCAGGAGAGCGGAAACAGAGCTTGACA
 CCTTCAGTGAATGTGTCGCTGAGGCCATCCAGGAAACAGGAGCAGGGCAACGCAAGATTGCCAATT
 CGAGGAGAAGCACTTGTGCGAGTTAAGTGCCATTTCGAGAGGAGTTGGAAGTGCCTAACATTGAGAAGATG
 ATCCTAGAATGCAGTGCTGACATCAGTGAGTTGTTTCGATGCGCTCATGACGCTGGAGATGACGCTGGTGG
 AGCAGCTGGAGGAGACTATAACATGTTTGAAAGGAACATTGTTGACATGGTAGGACTGTTTATCGAAAA
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 ATCAGCACCTGGAGAAGATTGTGAGGGCGACCTGGACGAGGACCTGCCTAACGACCTGCGCGCGCTTT
 TTGTGATAAAGATACGATTGTTAATGTGTGCGGGCATCGCACGACATCCACCTCCTGAAGATTGACAA
 TCGAGAAGATGAGCTGGTGACCAGAATCAACTCTTGGTGTACACGTTTAAATAGACAGGATTACAAAGGAT
 GAGATCATGAGGAACGCAAGCGCTGAAGGAGATCAATCAGTACATCGACCACATGCAGAGCGAACTGG
 ACAACCTGGAATGTGGCGACATCTAGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

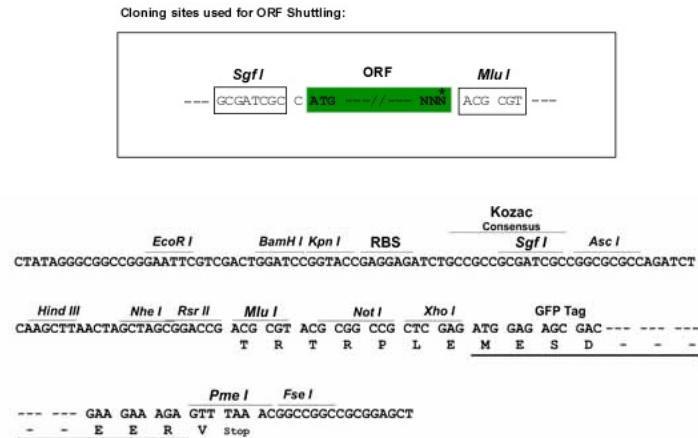
>RG208501 representing NM_031294
 Red=Cloning site Green=Tags(s)

MNQPCNSMEPRVMDMLKLAVGDQGPQEEAGQLAKQEGILFKDVLSQLDFRNILRIDNLWQFENLRKL
 QLDNNIIIEKIEGLENLAHLVWLDLSFNNIETIEGLDTLVNLEDLSLFNNRISKIDSLDALVKLQVLSLGN
 NRIDNMMNIIYLRRFKCLRTLSLSRNPISEAEDYKMFICAYLPDLMYLDYWRIDDHTKKLAIAKHQYSID
 ELKHQENLMQAQLEDEQAQREELEKHKTAFFVEHLNGSFLFDSMYAEDSEGNLSYLPVGVELLETYKDKF
 VIICVNIFEYGLKQKEKRKTELDTFSECVREAIQENQEKGKRKIAKFEKHLSSLAIREELELPNIEKM
 ILECSADISELFDALMTLEMQLVEQLEETINMFERNIVDMVGLFIENVQSLMAQCRDLENHHHEKLLLEIS
 ISTLEKIVEGDLDELDLPNDLRALFVDKDTIVNAVGAASHDIHLKIDNREDELVTRINSWCTRLIDRIHKD
 EIMRNRKRKVEINQYIDHMQSELDNLECGDILD

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_031294

ORF Size: 1569 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_031294.2](#), [NP_112584.2](#)

RefSeq Size: 2078 bp

RefSeq ORF: 1572 bp

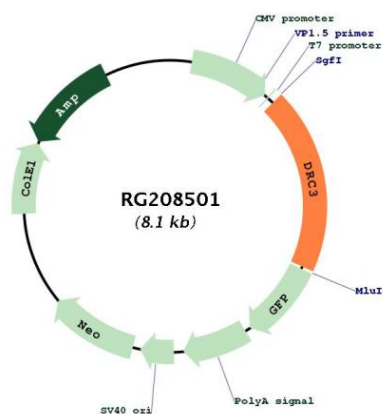
Locus ID: 83450

UniProt ID: Q9H069

Cytogenetics: 17p11.2

Gene Summary: Component of the nexin-dynein regulatory complex (N-DRC) a key regulator of ciliary/flagellar motility which maintains the alignment and integrity of the distal axoneme and regulates microtubule sliding in motile axonemes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG208501