

Product datasheet for **RC208501**

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:	Myc-DDK
Symbol:	LRRC48
Synonyms:	CFAP134; LRRC48
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC208501 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACGACCGTGAACCTCGATGGAGCCGAGGGTGATGGACGATGACATGCTCAAGCTGGCCGTCGGGG
 ACCAGGGCCCCAGGAGGAGGCCGGCAGCTGGCCAAGCAGGAGGCATCCTCTTCAAGGATGTCCTGTC
 CCTGCAGCTGGACTTTCGGAACATCCTCCGCATAGACAACCTCTGGCAGTTTGAGAACTTGAGGAAGCTG
 CAGCTGGACAATAACATCATTGAGAAGATCGAGGGCCTGGAGAACCTCGCACACCTGGTCTGGCTGGATC
 TGTCTTTCAACAACATTGAGACCATCGAGGGGCTGGACACACTGGTGAACCTGGAGGACCTGAGCTTGTT
 CAACAACCGGATCTCAAGATCGACTCCCTGGACGCCCTCGTCAAGCTGCAGGTGTTGTCGCTGGGCAAC
 AACCGGATTGACAACATGATGAACATCATCTACCTTCGGCGGTTCAAGTGCCTGCGGACGCTCAGCCTCT
 CTAGGAACCTATCTCTGAGGCAGAGGATTACAAGATGTTTCATCTGTGCCTACCTTCCTGACCTCATGTA
 CCTGGACTACTGGCGATTGATGACCACAAAAAGCTTGGCGAGGCTAAGCACCAGTACAGCATCGAC
 GAGCTGAAGCACCAGGAGAACCTGATGCAGGCCAGCTGGAGGACGAGCAGGCGCAGCGGAGGAGCTAG
 AGAAGCACAAGACTGCGTTTGTGGAACACCTGAATGGCTCCTTCCTGTTTGACAGCATGTACGCTGAGGA
 CTCAGAGGGCAACAATCTGTCTACCTGCCTGGTGTGCGTGAGCTCCTTGAGACCTACAAGGACAAGTTT
 GTCATCATCTGCGTGAATATTTTGTAGTATGGCCTGAAACAGCAGGAGAGCGGAAAACAGAGCTTGACA
 CCTTCAGTGAATGTGTCGTCGAGGCCATCCAGGAAAACAGGAGCAGGGCAAACGCAAGATTGCCAATT
 CGAGGAGAAGCACTTGTGCGAGTTAAGTGCCATTTCGAGAGGAGTTGGAAGTGGCCAACTTGAGAAGATG
 ATCCTAGAATGCAGTGTGACATCAGTGAGTTGTTTCGATGCGCTCATGACGCTGGAGATGACGCTGGTGG
 AGCAGCTGGAGGAGACTATAACATGTTTGAAGGAACATTGTTGACATGGTAGGACTGTTTATCGAAAA
 TGTCCAAAGCCTGATGGCTCAGTGCCGGGACCTGGAGAATCACCACCAGAGAAGCTCCTGGAGATCTCT
 ATCAGCACCTGGAGAAGATTGTGAGGGCGACCTGGACGAGGACCTGCCTAACGACCTGCGCGCGCTTT
 TTGTCGATAAAGATACGATTGTTAATGTGTGCGGGCATCGCACGACATCCACCTCCTGAAGATTGACAA
 TCGAGAAGATGAGCTGGTGACCAGAATCAACTCTTGGTGTACACGTTTAAAGACAGGATTACAAAGGAT
 GAGATCATGAGGAACCGCAAGCGCTGAAGGAGATCAATCAGTACATCGACCACATGCAGAGCGAACTGG
 ACAACCTGGAATGTGGCGACATCTAGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208501 protein sequence
 Red=Cloning site Green=Tags(s)

MNQPCNSMEPRVMDMLKLAVGDQGPQEEAGQLAKQEGILFKDVLSQLDFRNILRIDNLWQFENLRKL
 QLDNNIIIEKIEGLENLAHLVWLDLSFNNIETIEGLDTLVNLEDLSLFNNRISKIDSLDALVKLQVLSLGN
 NRIDNMMNIIYLRRFKCLRTLSLSRNPISAEADYKMFICAYLPDLMYLDYWRIDDHTKKLAIAKHQYSID
 ELKHQENLMQAQLEDEQAQREELEKHKTAFAVEHLNGSFLFDSMYAEDSEGNL SYLPVGELLEITYKDKF
 VIICVNIFEYGLKQKEKRKTELDTFSECVREAIQENQEQGKRKIAKFEEKHLSSLAIREELELPIEKM
 ILECSADISELFDALMTLEMQLVEQLEETINMFERNIVDMVGLFIENVQSLMAQCRDLENHHHEKLEIS
 ISTLEKIVEGDLDELDLPNDLRALFVDKDTIVNAVGAISHDIHLKIDNREDELVTRINSWCTRLIDRIHKD
 EIMRNKRKRVKEINQYIDHMQSELDNLECGDILD

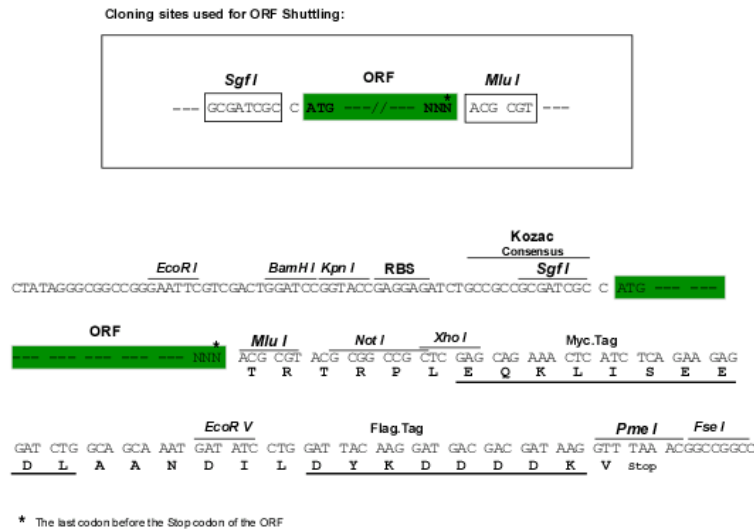
TRTRPLE**QKLI**SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6349_a11.zip

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: 2094 bp

RefSeq ORF: 1572 bp

Locus ID: 83450

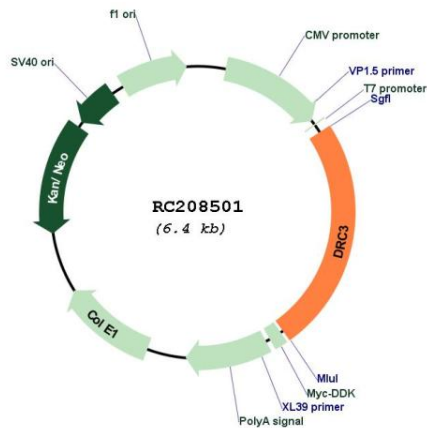
UniProt ID: Q9H069

Cytogenetics: 17p11.2

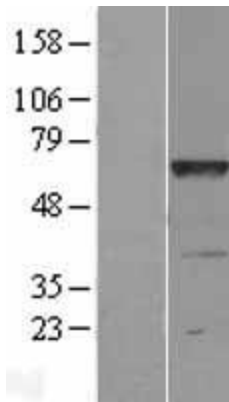
MW: 61.1 kDa

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]

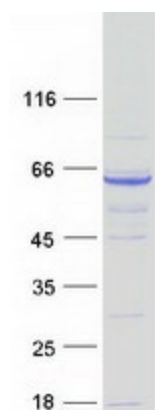
Product images:



Circular map for RC208501



Western blot validation of overexpression lysate (Cat# [LY427158]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC225896] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DRC3 protein (Cat# [TP308501]). The protein was produced from HEK293T cells transfected with DRC3 cDNA clone (Cat# RC208501) using MegaTran 2.0 (Cat# [TT210002]).