

Product datasheet for **RC200051**

DYNLRB1 (NM_014183) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DYNLRB1 (NM_014183) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: DYNLRB1
Synonyms: BITH; BLP; DNCL2A; DNLC2A; ROBLD1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC200051 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGAGGTGGAGGAGACACTGAAGCGACTGCAGAGCCAGAAGGGAGTGCAGGGAATCATCGTCGTGA
ACACAGAAGGCATTCCCATCAAGAGCACCATGGACAACCCACCACCACCCAGTATGCCAGCCTCATGCA
CAGCTTCATCCTGAAGGCACGGAGCACCCTGCGTGACATCGACCCCAAGATCTCACCTTCCTCGA
ATTCGCTCCAAGAAAAATGAAATTATGGTGCACCAGATAAAGACTATTCCTGATTGTGATTCAGAATC
CAACCGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200051 protein sequence
Red=Cloning site Green=Tags(s)
MAEVEETLKRLQSQKGVQGIIVNTEGIPIKSTMDNPTTTQYASLMHSFILKARSTVRDIDPQNDLTFLLR
IRSKKNEIMVAPDKDYFLIVIQNPTE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6125_c04.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_014183

ORF Size: 288 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.

RefSeq: [NM_014183.4](#)

RefSeq Size: 717 bp

RefSeq ORF: 291 bp

Locus ID: 83658

UniProt ID: [Q9NP97](#)

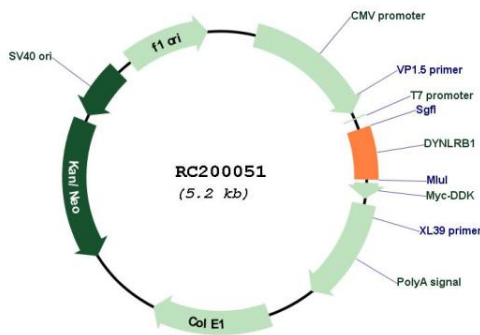
Cytogenetics: 20q11.22

Domains: Robl_LC7

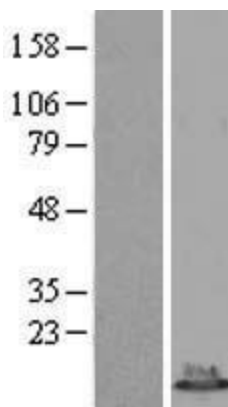
MW: 10.9 kDa

Gene Summary: This gene is a member of the roadblock dynein light chain family. The encoded cytoplasmic protein is capable of binding intermediate chain proteins, interacts with transforming growth factor-beta, and has been implicated in the regulation of actin modulating proteins. Upregulation of this gene has been associated with hepatocellular carcinomas, suggesting that this gene may be involved in tumor progression. Alternative splicing results in multiple transcript variants. Pseudogenes of this gene have been defined on chromosomes 12 and 18. [provided by RefSeq, Aug 2013]

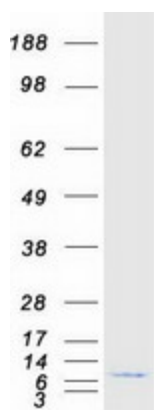
Product images:



Circular map for RC200051



Western blot validation of overexpression lysate (Cat# [LY402287]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200051 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DYNLRB1 protein (Cat# [TP300051]). The protein was produced from HEK293T cells transfected with DYNLRB1 cDNA clone (Cat# RC200051) using MegaTran 2.0 (Cat# [TT210002]).