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Product datasheet for RC219143

DYNLRB2 (NM_130897) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DYNLRB2 (NM_130897) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DYNLRB2
Synonyms:	DNCL2B; DNLC2B; ROBLD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC219143 representing NM_130897
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGAGGTGGAGGAAACCTTAAAGAGGATCCAGAGTCATAAAGGGGTTATTGGAACTATGGTTGTAA
ATGCAGAAGGTATTCCCATCCGAACAACCTTGGACAACTCAACAACTGTTCAATATGCAGGCCTTCTTCA
TCACCTGACAATGAAAGCCAAAAGCACAGTTCGTGATATTGATCCTCAGAACGACCTGACTTTTCTTAGG
ATCAGATCAAAGAAACATGAAATCATGGTAGCTCCAGATAAGGAATATCTTCTGATCGTCATTCAGAATC
CATGTGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC219143 representing NM_130897
Red=Cloning site Green=Tags(s)

MAEVEETLKRIQSHKGVIGTMVVNAEGIPIRTTLDNSTTVQYAGLLHHLTMKAKSTVRDIDPQNDLTFLR
IRSKKHEIMVAPDKEYLLIVIQNPCE

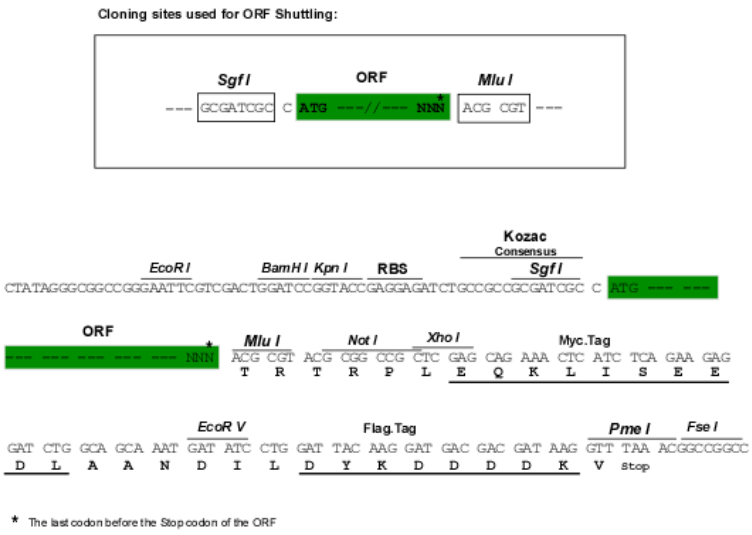
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8021_g07.zip

Restriction Sites: SgfI-MluI

View online »

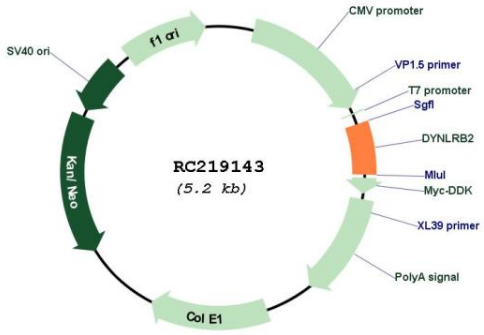
Cloning Scheme:



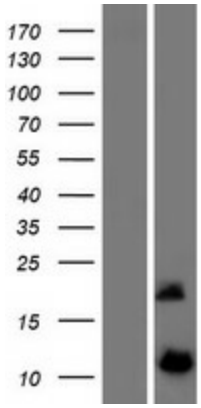
ACCN:	NM_130897
ORF Size:	288 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_130897.3
RefSeq Size:	506 bp
RefSeq ORF:	291 bp

Locus ID:	83657
UniProt ID:	Q8TF09
Cytogenetics:	16q23.2
MW:	10.7 kDa
Gene Summary:	Acts as one of several non-catalytic accessory components of the cytoplasmic dynein 1 complex that are thought to be involved in linking dynein to cargos and to adapter proteins that regulate dynein function. Cytoplasmic dynein 1 acts as a motor for the intracellular retrograde motility of vesicles and organelles along microtubules.[UniProtKB/Swiss-Prot Function]

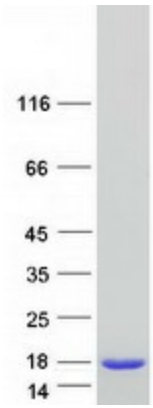
Product images:



Circular map for RC219143



Western blot validation of overexpression lysate (Cat# [LY408882]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219143 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DYNLRB2 protein (Cat# [TP319143]). The protein was produced from HEK293T cells transfected with DYNLRB2 cDNA clone (Cat# RC219143) using MegaTran 2.0 (Cat# [TT210002]).