

Product datasheet for **RC203913**

Dynein (DYNLL2) (NM_080677) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dynein (DYNLL2) (NM_080677) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: Dynein
Synonyms: Dlc2; DNCL1B; RSPH22
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC203913 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGACCGGAAGGCAGTGATCAAGAACGCAGACATGTCTGAGGACATGCAACAGGATGCCGTTGACT
GCGCCACGCAGGCCATGGAGAAGTACAATATAGAGAAGGACATTGCTGCCTATATCAAGAAGGAATTTGA
CAAGAAATATAACCCTACCTGGCATTGTATCGTGGGCCGAAATTTGGCAGCTACGTCACACACGAGACA
AAGCACTCATCTATTTTACTTGGTCAAGTTGCAATCCTCCTTCAAGTCAGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203913 protein sequence
Red=Cloning site Green=Tags(s)
MSDRKAVIKNADMSEDMQQDAVDCATQAMEKYNIEKDIAAYIKKEFDKKYNPTWHCIVGRNFGSYVTHET
KHFIYFYLGQVAILLFKSG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6308_f01.zip

Restriction Sites: Sgfl-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_080677

ORF Size: 267 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_080677.3](#)

RefSeq Size: 1522 bp

RefSeq ORF: 270 bp

Locus ID: 140735

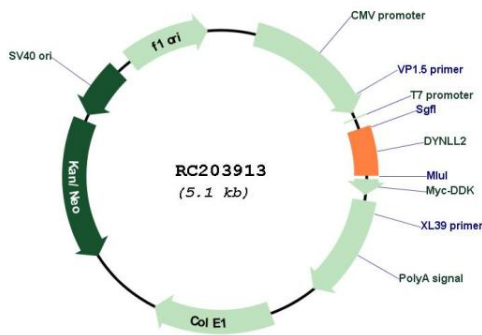
UniProt ID: [Q96FJ2](#)

Cytogenetics: 17q22

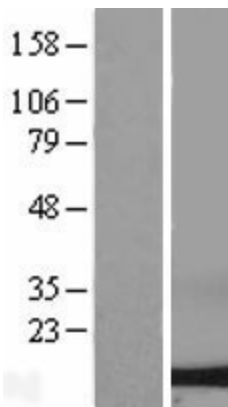
MW: 10.3 kDa

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. May play a role in changing or maintaining the spatial distribution of cytoskeletal structures (By similarity).
[UniProtKB/Swiss-Prot Function]

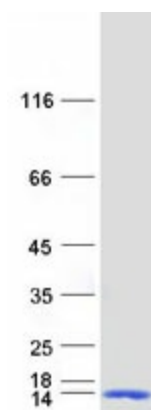
Product images:



Circular map for RC203913



Western blot validation of overexpression lysate (Cat# [LY409101]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203913 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DYNLL2 protein (Cat# [TP303913]). The protein was produced from HEK293T cells transfected with DYNLL2 cDNA clone (Cat# RC203913) using MegaTran 2.0 (Cat# [TT210002]).