

Product datasheet for **RC217108**

DYNC1I1 (NM_004411) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DYNC1I1 (NM_004411) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DYNC1I1
Synonyms:	DNCI1; DNCIC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC217108 representing NM_004411
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGCTCTGACAAAAGTGACTTAAAAGCTGAGCTAGAGCGCAAAAAGCAGCGCTTAGCACAGATAAGAGAAG
 AGAAGAAACGGAAGGAAGAGGAGAGGAAAAAGAAAGAGGCTGATATGCAGCAGAAGAAAGAACCCGTTCA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >RC217108 representing NM_004411
Red=Cloning site Green=Tags(s)

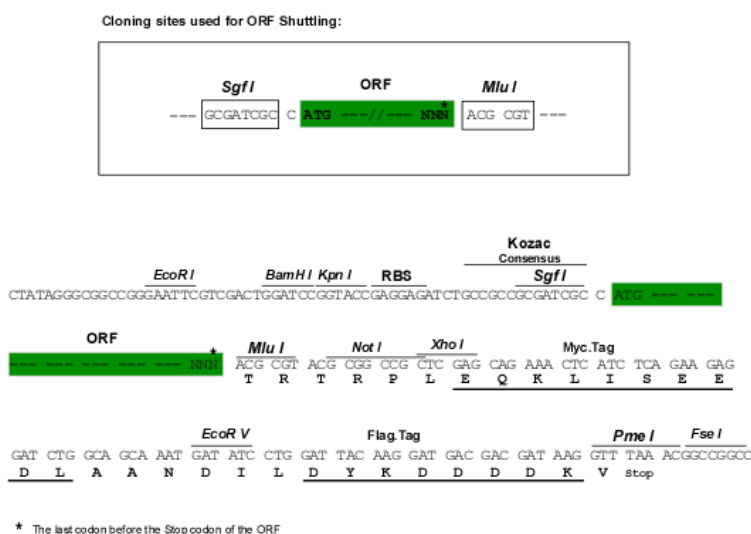
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FHPNLVVGGTYSQIIVLWNRSHRRTPVQRTPLSAAATHPVYCVNVVGTQNAHNLITVSTDGKMCSWSL
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NRADSEEGTVELSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8017_g05.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_004411

ORF Size: 1935 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_004411.4](#), [NP_004402.1](#)

RefSeq Size: 2950 bp

RefSeq ORF: 1938 bp

Locus ID: 1780

UniProt ID: [Q14576](#)

Cytogenetics: 7q21.3

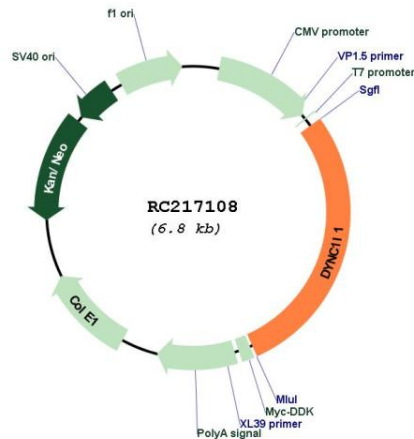
Domains: WD40

MW: 72.8 kDa

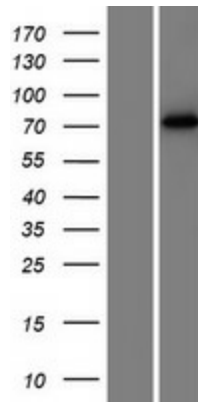
Gene Summary:

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. The intermediate chains mediate the binding of dynein to dynactin via its 150 kDa component (p150-glued) DCNT1. May play a role in mediating the interaction of cytoplasmic dynein with membranous organelles and kinetochores.[UniProtKB/Swiss-Prot Function]

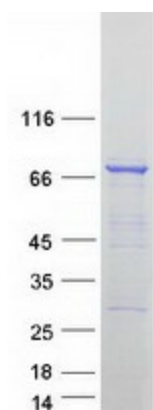
Product images:



Circular map for RC217108



Western blot validation of overexpression lysate (Cat# [LY418005]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217108 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DYNC1I1 protein (Cat# [TP317108]). The protein was produced from HEK293T cells transfected with DYNC1I1 cDNA clone (Cat# RC217108) using MegaTran 2.0 (Cat# [TT210002]).