

## Product datasheet for RC217752

### DC2L1 (DYNC2LI1) (NM\_001012665) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DC2L1 (DYNC2LI1) (NM_001012665) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DC2L1
Synonyms:	CGI-60; D2LIC; DKFZp564A033; dynein, cytoplasmic 2, light intermediate chain 1; dynein 2 light intermediate chain; LIC3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217752 representing NM_001012665 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCCAGTGAACTCTCTGGGAAATTGCAAAAGCTGAAGTGGAAAAAGGGGAATTAATGGAAGTGAAG  
GTGATGGAGCTGAAATTGCAGAAAAATTGTTTTCTTCATTGGCAGTAAAAATGGGGAAAAGACTACTAT  
TATTCTAAGGTGTCTTGACAGAGATGAACCACCAAAACCAACCTTAGCTTTGGAATATACATATGGAAGA  
AGAGCAAAAGGGCACAACACACCAAAAGATATCGCTCACTTTGGGAACTCGGTGGAGGAACCTCTTTAT  
TGGACTTAATCAGCATACCCATCACAGGTGACACCTTACGGACGTTTTCTTGTCTCGTTCTGGATCT  
TTCAAAACCTAATGATCTCTGGCCACCATGGAAAATCTCTTGAAGCCACAAAAAGCCATGTAGACAAA  
GTGATAATGAACTGGGAAAGACAAATGCTAAAGCAGTTTCTGAAATGAGACAGAAGATCTGGAATAATA  
TGCCGAAGGATCATCCTGATCATGAATTAATTGACCCATTTCCGGTACCTCTGGTCATAATTGGAAGTAA  
ATATGATGTTTTTCAGGATTTTGAGTCTGAGAAGAAAGGTAATATGCAAGACACTTCGATTTGTGCA  
CATTATTATGGAGCATCATTAAATGTTTACCAGTAAATCAGAAGCTCTATTACTAAAAATACGTGGAGTTA  
TCAACCAGTTGGCATTGGCATTGACAAAAGCAAATCAATATGTGTGGATCAGAAATAAACCGCTGTTTAT  
CACAGCAGGATTGGATCTTTCCGGTCAAATAGGATCTCCTCCTGTTCTGAAAATGACATTGAAAAGCTT  
CATGCCACTCACCTATGGAGTTGTGGAAAAAGTGATGAAAAGCTCTTCCACCAAAGAGTATTAACA  
CGCTGAAAGATATCAAGGACCTGCGAGAGATCCTCAGTATGCTGAAAATGAAGTCGATGAGATGAGAA  
TCAGAAGGATCTGGTATTATCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**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\\_001012665.1](#), [NP\\_001012683.1](#)

**RefSeq Size:** 1418 bp

**RefSeq ORF:** 1004 bp

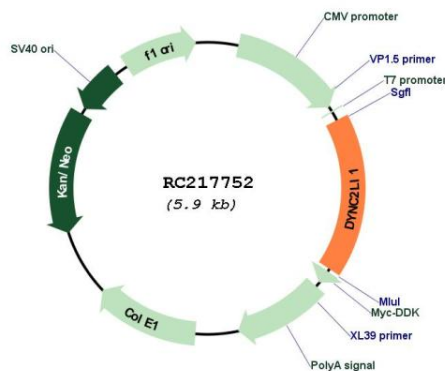
**Locus ID:** 51626

**Cytogenetics:** 2p21

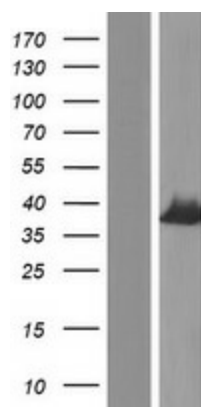
**MW:** 37.3 kDa

**Gene Summary:** This gene encodes a protein that is a component of the dynein-2 microtubule motor protein complex that plays a role in the retrograde transport of cargo in primary cilia via the intraflagellar transport system. This gene is ubiquitously expressed and its protein, which localizes to the axoneme and Golgi apparatus, interacts directly with the cytoplasmic dynein 2 heavy chain 1 protein to form part of the multi-protein dynein-2 complex. Mutations in this gene produce defects in the dynein-2 complex which result in several types of ciliopathy including short-rib thoracic dysplasia 15 with polydactyly (SRTD15). Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Feb 2017]

### Product images:



Circular map for RC217752



Western blot validation of overexpression lysate (Cat# [LY422811]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217752 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).