

## Product datasheet for **RC204983**

### DC2L1 (DYNC2LI1) (NM\_015522) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DC2L1 (DYNC2LI1) (NM\_015522) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** DC2L1  
**Synonyms:** CGI-60; D2LIC; LIC3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC204983 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCAGTGAACTCTCTGGGAAATTGCAAAGCTGAAGTGAAAAAGGGGAATTAATGGAAGTGAAG  
 GTGATGGAGCTGAAATTGCAGAAAAATTTGTTTTCTTCATTGGCAGTAAAAATGGGGAAAGACTACTAT  
 TATTCTAAGGTGCTTGACAGAGATGAACCACCAAAACCACTTAGCTTTGGAATATACATATGGAAGA  
 AGAGCAAAAGGGCACAACACACCAAAAGATATCGCTCACTTTGGGAACTCGGTGGAGAACCTCTTTAT  
 TGGACTTAATCAGCATACCCATCACAGGTGACACCTTACGGACGTTTTCTTGTCTCGTTCTGGATCT  
 TTCAAAACCTAATGATCTCTGGCCACCATGGAAAATCTCTTGAAGCCACAAAAAGCCATGTAGACAAA  
 GTGATAATGAAACTGGGAAAGACAAATGCTAAAGCAGTTTCTGAAATGAGACAGAAGATCTGGAATAATA  
 TGCCGAAGGATCATCCTGTGAGTTGCTGTTGGGATTATTACTGGAATCCTTAGTCCCATTATAGTTAA  
 TGATAACATCACAAACAACCTCTTTAGATTTTTATGCATGACT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC204983 protein sequence  
 Red=Cloning site Green=Tags(s)

MPSETLWEIAKAEVEKRGINGSEGDAEIAEKVFFIGSKNGGKTTIILRCLDRDEPPKPTLALEYTYGR  
 RAKGHNTPKDIAHFELGGTSLLDLISIPITGDLRFTSLVLDL SKPNLWPTMENLLQATKSHVDK  
 VIMKLGKTNKAVSEMQRKIWNMPKDHVPVSCCLGLLLESVLPFIVNDNITNNFRFLCMT

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV



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**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6421\\_f12.zip](https://cdn.origene.com/chromatograms/mk6421_f12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_015522

**ORF Size:** 603 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.

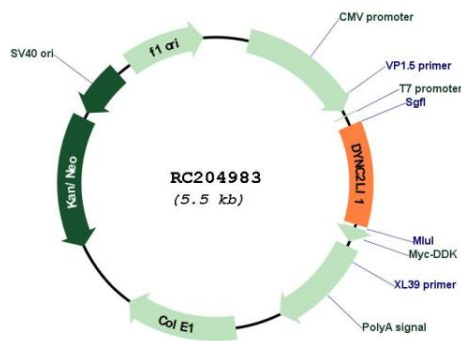
**RefSeq:** [NM\\_015522.3](#)

**RefSeq Size:** 1157 bp

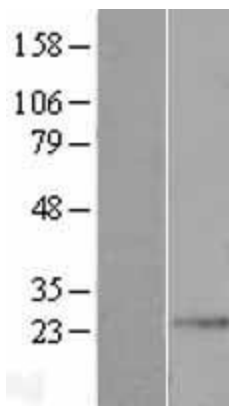
**RefSeq ORF:** 606 bp  
**Locus ID:** 51626  
**UniProt ID:** [Q8TCX1](#)  
**Cytogenetics:** 2p21  
**MW:** 22.4 kDa

**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 RC204983



Western blot validation of overexpression lysate (Cat# [LY414493]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204983 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).