

## Product datasheet for **SC301695**

### DC2L1 (DYNC2LI1) (NM\_001012665) Human Untagged Clone

#### Product data:

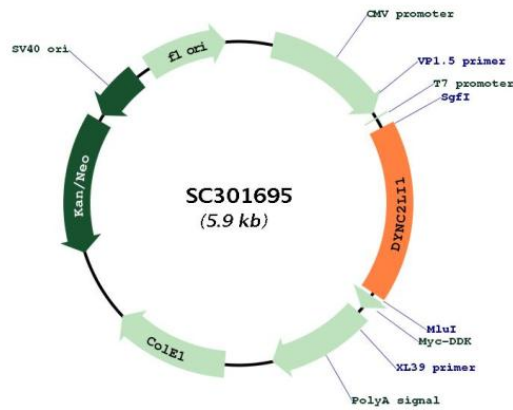
Product Type:	Expression Plasmids
Product Name:	DC2L1 (DYNC2LI1) (NM_001012665) Human Untagged Clone
Tag:	Tag Free
Symbol:	DYNC2LI1
Synonyms:	CGI-60; D2LIC; DKFZp564A033; dynein, cytoplasmic 2, light intermediate chain 1; dynein 2 light intermediate chain; LIC3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC301695 representing NM_001012665. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCAGTGAAACTCTCTGGGAAATTGCAAAAGCTGAAGTGAAAAAAGGGGAATTAATGGAAGTGAA
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GACAAAGTGATAATGAACTGGGAAAGACAAATGCTAAAGCAGTTTCTGAAATGAGACAGAAGATCTGG
AATAATATGCCGAAGGATCATCCTGATCATGAATTAATTGACCCATTTCCGGTACCTCTGGTCATAATT
GGAAGTAAATATGATGTTTTTCAGGATTTTGAGTCTGAGAAGAGAAAGGTAAATATGCAAGCACTTCGA
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CGTGGAGTTATCAACCAGTTGGCATTGGCATTGACAAAAGCAAATCAATATGTGTGGATCAGAATAAA
CCGCTGTTTATCACAGCAGGATTGGATTCTTTCGGTCAAATAGGATCTCCTCCTGTTCTGAAAATGAC
ATTGAAAAGCTTCATGCCCACTCACCTATGGAGTTGTGGAAAAAGTGTATGAAAAGCTCTTCCACCA
AAGAGTATTAACACGCTGAAAGATATCAAGGACCTGCGAGAGATCCTCAGTATGCTGAAAATGAAGTC
GATGAGATGAGAATTCAGAAGGATCTGGTATTATCTCTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-MluI



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**Plasmid Map:**


**ACCN:** NM\_001012665

**Insert Size:** 1005 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001012665.1](#)

**RefSeq Size:** 1418 bp

**RefSeq ORF:** 1005 bp

**Locus ID:** 51626

**Cytogenetics:** 2p21

**MW:** 37.5 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]