

Product datasheet for **RC230812**

DC2L1 (DYNC2LI1) (NM_001193464) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DC2L1 (DYNC2LI1) (NM_001193464) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DYNC2LI1
Synonyms:	CGI-60; D2LIC; LIC3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC230812 representing NM_001193464 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCCAGTGAACTCTCTGGGAAATTGCAAAAGCTGAAGTGAAAAAGGGGAATTAATGGAAGTGAAG
GTGATGGAGCTGAAATTCAGAAAAATTTGTTTTCTTCATTGGCAGTAAAAATGGGGAAAGACTACTAT
TATTCTAAGGTGTCTTGACAGAGATGAACCACCAAAACCAACCTTAGCTTTGGAATATACATATGGAAGA
AGAGCAAAAGGGCACAACACACCAAAAGATATCGCTCACTTTTGGGAACTCGGTGGAGGAACCTCTTTAT
TGGACTTAATCAGCATACCCATCACAGGTGACACCTTACGGACGTTTTCTCTTGTCTCGTTCTGGATCT
TTCAAAACCTAATGATCTCTGGCCACCATGAAAAATCTCTTGCAAGCCACAAAAAGCCATGTAGACAAA
GTGATAATGAACTGGGAAAGACAAATGCTAAAGCAGTTTCTGAAATGAGACAGAAGATCTGGAATAATA
TGCCGAAGGATCATCCTCAGGATCATGAATTAATTGACCCATTTCCGGTACCTCTGGTCATAATTGGAAG
TAAATATGATGTTTTTCAGGATTTTGAGTCTGAGAAGAGAAAGGTAATATGCAAGACACTTCGATTTGTT
GCACATTATTATGGAGCATCATTAAATGTTTACCAGTAAATCAGAAGCTCTATTACTAAAAATACGTGGAG
TTATCAACCAGTTGGCATTGGCATTGACAAAAGCAAATCAATATGTGTGGATCAGAATAAACCCGTGTT
TATCACAGCAGGATTGGATTCTTTCCGGTCAAATAGGATCTCCTCCTGTTCTGAAAATGACATTGGAAAG
CTTCATGCCCACTCACCTATGGAGTTGTGGAAAAAGTGTATGAAAAGCTCTTCCACCAAGAGATTATA
ACACGCTGAAAGATATCAAGGACCCTGCGAGAGATCCTCAGTATGCTGAAAATGAAGTCGATGAGATGAG
AATTCAGAAGGATCTGGAAGTGAACAGTACAAAAGAAGTTCTTCCAAGTCTTGGAAACAAATCGAGCTT
GATTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC230812 representing NM_001193464
 Red=Cloning site Green=Tags(s)

MPSETLWEIAKAEVEKRGINGSEGDAEIAEKVFFIGSKNGGKTTIILRCLDRDEPPKPTLALEYTYGR
 RAKGHNTPKDIAHFWELGGTSLLDLISIPITGDLRTFSLVLDL SKPNLWPTMENLLQATKSHVDK
 VIMKLGKTNKAVSEMROKIWNMPKDHPQDHELIDFPVPLVIIGSKYDVFQDFESEKRKVICKTLRFV
 AHYYGASLMFTSKSEALLLKIRGVINQLAFGIDKSKSICVDQNKPLFITAGLDSFGQIGSPVPENDIGK
 LHAHSPMELWKKVYEKLFPPKSIINTLKDIKDPARDPQYAENEVDEMRIQKDLLELEYKRSSSKSWKQIEL
 DS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

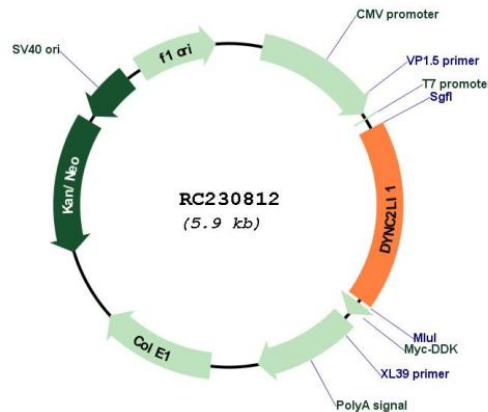
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001193464

ORF Size:	1056 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:	<ol style="list-style-type: none">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_001193464.2
RefSeq ORF:	1059 bp
Locus ID:	51626
UniProt ID:	Q8TCX1
Cytogenetics:	2p21
MW:	40.2 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]