

## Product datasheet for **RG230812**

### 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:	TurboGFP
Symbol:	DYNC2LI1
Synonyms:	CGI-60; D2LIC; LIC3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG230812 representing NM_001193464 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCAGTGAACTCTCTGGGAAATTGCAAAGCTGAAGTGAAAAAGGGGAATTAATGGAAGTGAAG  
GTGATGGAGCTGAAATTGCAGAAAAATTTGTTTTCTTCATTGGCAGTAAAAATGGGGAAAGACTACTAT  
TATTCTAAGGTGTCTTGACAGAGATGAACCACAAAACCAACCTTAGCTTTGGAATATACATATGGAAGA  
AGAGCAAAAGGGCACAACACACAAAAGATATCGCTCACTTTTGGAACTCGGTGGAGGAACCTCTTTAT  
TGGACTTAATCAGCATACCCATCACAGGTGACACCTTACGGACGTTTTCTTGTCTCGTCTGGATCT  
TTCAAAACCTAATGATCTCTGGCCACCATGGAAAATCTCTTGCAAGCCACAAAAGCCATGTAGACAAA  
GTGATAATGAAACTGGGAAAGACAAATGCTAAAGCAGTTTCTGAAATGAGACAGAAGATCTGGAATAATA  
TGCCGAAGGATCATCCTCAGGATCATGAATTAATTGACCCATTTCCGGTACCTCTGGTCATAATTGGAAG  
TAAATATGATGTTTTTCAGGATTTTGTGAGTCTGAGAAGAGAAAGTAATATGCAAGACACTTCGATTTGTT  
GCACATTATTATGGAGCATCATTAAATGTTTACCAGTAAATCAGAAGCTCTATTACTAAAAATACGTGGAG  
TTATCAACCAGTTGGCATTGGCATTGACAAAAGCAAAATCAATATGTGTGGATCAGAATAAACCCGCTGTT  
TATCACAGCAGGATTGGATTCTTTCCGGTCAAATAGGATCTCCTCCTGTTCTGAAAATGACATTGGAAG  
CTTCATGCCACTCACCTATGGAGTTGTGGAAAAAGTGTATGAAAAGCTTTTCCACCAAGAGATTATA  
ACACGCTGAAAAGATATCAAGGACCTGCGAGAGATCCTCAGTATGCTGAAAATGAAGTCGATGAGATGAG  
AATTCAGAAGGATCTGGAAGTGAACAGTACAAAAGAAGTTCTTCCAAGTCTTGGAAACAAATCGAGCTT  
GATTCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG230812 representing NM\_001193464  
 Red=Cloning site Green=Tags(s)

MPSETLWEIAKAEVEKRGINGSEGDAEIAEKVFFIGSKNGGKTTIILRCLDRDEPPKPTLALEYTYGR  
 RAKGHNTPKDIAHFWE LGGTSLLDLISIPITGDTLR TFSLV LVDL SKPNLWPTMENLLQATKSHVDK  
 VIMKLGKTNAAKAVSEMROKIWNMPKDH PQDHELIDPFPVPLVIIGSKYDVFQDFESEKRKVICKTLRFV  
 AHYYGASLMFTSKSEALLLKIRGVINQLAFGIDKSKSICVDQNKPLFITAGLDSFGQIGSPVPENDIGK  
 LHAHSPMELWKKVYEKLFPPKSINTLKDIKDPARDPQYAENEVDEMRIQKDLELEQYKRSSSKSWKQIEL  
 DS

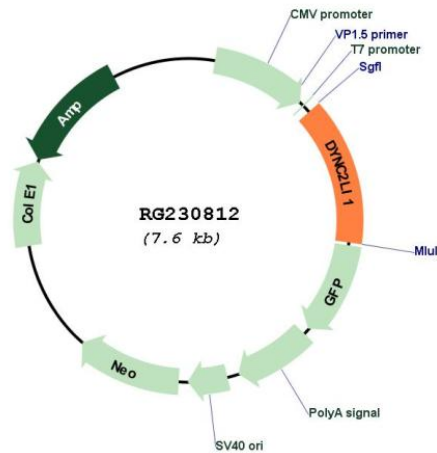
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001193464

<b>ORF Size:</b>	1056 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001193464.2</a>
<b>RefSeq Size:</b>	1412 bp
<b>RefSeq ORF:</b>	1059 bp
<b>Locus ID:</b>	51626
<b>UniProt ID:</b>	<a href="#">Q8TCX1</a>
<b>Cytogenetics:</b>	2p21
<b>Gene Summary:</b>	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]