

Product datasheet for **RG217752**

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:	TurboGFP
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-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217752 representing NM_001012665 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAGTGAACTCTCTGGGAAATTGCAAAAGCTGAAGTGGAAAAAGGGGAATTAATGGAAGTGAAG
GTGATGGAGCTGAAATTGCAGAAAAATTTGTTTTCTTCATTGGCAGTAAAAATGGGGGAAAGACTACTAT
TATTCTAAGGTGTCTTGACAGAGATGAACCACCAAAACCAACCTTAGCTTTGGAATATACATATGGAAGA
AGAGCAAAAGGGCACAACACACCAAAAGATATCGCTCACTTTTGGGAACTCGGTGGAGGAACCTCTTTAT
TGGACTTAATCAGCATACCCATCACAGGTGACACCTTACGGACGTTTTCTTGTCTCGTTCTGGATCT
TTCAAAACCTAATGATCTCTGGCCACCATGGAAAATCTCTTGAAGCCACAAAAAGCCATGTAGACAAA
GTGATAATGAACTGGGAAAGACAAATGCTAAAGCAGTTTCTGAAATGAGACAGAAGATCTGGAATAATA
TGCCGAAGGATCATCCTGATCATGAATTAATTGACCCATTTCCGGTACCTCTGGTCATAATTGGAAGTAA
ATATGATGTTTTTCAGGATTTTGAGTCTGAGAAGAAAGGTAATATGCAAGACACTTCGATTTGTGCA
CATTATTATGGAGCATCATTAAATGTTTACCAGTAAATCAGAAGCTCTATTACTAAAAATACGTGGAGTTA
TCAACCAGTTGGCATTGGCATTGACAAAAGCAAATCAATATGTGTGGATCAGAAATAAACCGCTGTTTAT
CACAGCAGGATTGGATCTTTCCGGTCAAATAGGATCTCCTCCTGTTCTGAAAATGACATTGAAAGCTT
CATGCCACTCACCTATGGAGTTGTGGAAAAAGTGATGAAAAGCTCTTCCACCAAAGAGTATTAACA
CGCTGAAAGATATCAAGGACCTGCGAGAGATCCTCAGTATGCTGAAAATGAAGTCGATGAGATGAGAA
TCAGAAGGATCTGGTATTATCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG217752 representing NM_001012665
Red=Cloning site Green=Tags(s)

MPSETLWEIAKAEVEKRGINGSEGDAEIAEKVFFIGSKNGGKTTIILRCLDRDEPPKPTLALEYTYGR
 RAKGHNTPKDIAHFELGGTSLLDLISIPITGDTLRTFSLVLDL SKPNLWPTMENLLQATKSHVDK
 VIMKLGKTNKAVSEMROKIQIWNMPKDHPDHELIDFPVPLVIIGSKYDVFQDFESEKRKVICKTLRFVA
 HYYGASLMFTSKSEALLKIRGVINQLAFGIDKSKSICVDQNKPLFITAGLDSFGQIGSPVPENDIGKL
 HAHSPMELWKKVYEKLFPPKSINTLKDIDKDPARDPQYAENEVDQMRIQKDLVLS

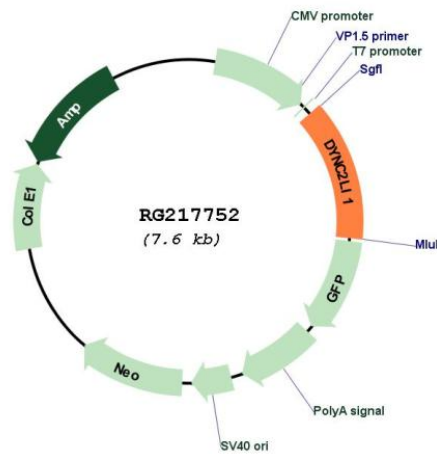
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001012665

ORF Size:	1002 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_001012665.1 , NP_001012683.1
RefSeq Size:	1418 bp
RefSeq ORF:	1004 bp
Locus ID:	51626
Cytogenetics:	2p21
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]