

Product datasheet for **RG217108**

DYNC1I1 (NM_004411) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DYNC1I1 (NM_004411) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DYNC1I1
Synonyms:	DNCI1; DNCIC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG217108 representing NM_004411
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGTGACAAAAGTGACTTAAAAGCTGAGCTAGAGCGCAAAAAGCAGCGCTTAGCACAGATAAGAGAAG
 AGAAGAAACGGAAGGAAGAGGAGAGGAAAAAGAAAGAGGCTGATATGCAGCAGAAGAAAGAACCCGTTCA
 GGACGACTCTGATCTGGATCGAAACGACGAGAGACAGAGGCTTTGCTGCAAAGCATTGGTATCTCACCG
 GAGCCGCCTCTAGTGCAGCCGCTGCATTTTTTAACATGGGATACCTGTTATTTTCATTATTTAGTCCCAA
 CCCCTATGTCTCCCTCTCGAAATCAGTGAGCACTCCAGTGAAGCTGGAAGCCAAGACTCAGGCGATCT
 GGGGCCATTAACAAGGACCCTGCAGTGGGACACAGACCCCTCAGTGCTCCAGCTGCAGTCAGACTCAGAA
 CTTGGAAGAAGACTGCATAAACTGGGCGTGTCAAAGGTCACCAAGTGGATTTCTGCCAAGGGAAGTAG
 TGTCTACTCAAAGGAGACCCAGACTCCTCTGCCACGCATCAGTCTGAAGAGGATGAGGAAGATGAGGA
 AATGGTGAATCTAAAGTTGGCCAGGACTCAGAACTGGAAAATCAGGACAAAAACAGGAAGTGAAGGAA
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 TTGACCGGACAATACGGGTAATTGAAAGAGCCCTGGCTGAAGATTCGACATCTTTTTTGACTACAGCGG
 CCGAGAGTTAGAGGAAAAAGATGGGGATGTTTCAAGCTGGAGCCAATCTTTCTTTCAATCGTCAGTTCTAT
 GATGAACATTGGTCCAAGCATCGAGTGGTCACTTGTATGGACTGGTCCCTCCAGTACCCTGAGCTGATGG
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 GTTTAAGAAAACCAACAGAGTACGCTCTCCACTGTCAGTCTCTGTGATGTCGGTCTGCTTCGCCCGT
 TTCCATCCTAACTTGGTGGTGGTGGGACTTACTCGGGCCAGATTGTCTCTGGGACAATCGCAGTCATC
 GAAGGACTCCAGTGCAGCGGACACCTTATCAGCTGCTGCACACACGCATCCCGTGTACTGTGTAATGT
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 TCAAATGTGGACCACCAAGCACAACAAGCCGCTCTACTCCTTTGAAGACAATGCAGACTATGTGTACGA
 TGTGATGTTGGTCCCGTGCATCTGCGCTTTTGCCTGCGTGGACGGGATGGGGCGCTTGACCTCTGG
 AACCTCAACAATGACACCGAGGTGCCAACAGCAAGTGTGGCCATTGAGGGGGCATCCGCCCTAAACCGTG
 TTCGTTGGGCCCCAAGCTGGCAAAGAAGTTGCTGTTGGGGACTCGGAAGGCCGTATTTGGGTCTATGACGT
 TGGAGAGCTTGCAGTTCCCCACAATGATGAATGGACCCGATTGCCAGGACCCTGTGGAATTCGTGCT
 AACAGAGCTGATAGCGAGGAGGAAGGCACTGTTGAGTTATCTGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

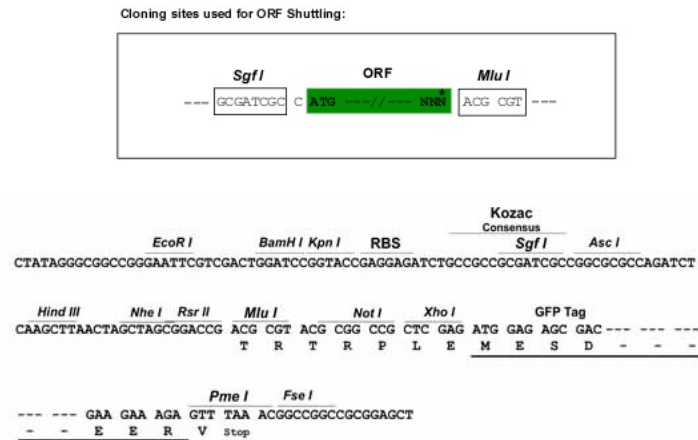
>RG217108 representing NM_004411
 Red=Cloning site Green=Tags(s)

MSDKSDLKAELEKQRLAQIREKKRKEEERKKKEADMQQKKEPVQDDSDLDRKRRETEALLQSIGISP
 EPPLVQPLHFLTWDTCYFHYLVPTMSPSSKSVSTPSEAGSQDSGDLGPLTRTLQWDTDPSVLQLQSDSE
 LGRRLHKLGVSKVTQVDFLPREVVSYSKETQTPATHQSEDEEDEEMVESKVGQDSELENQDKKQEVKE
 APPRELTEEEKQILHSEEFLLFFDRTIRVIERALAEDSDIFFDYSGRELEEKDGDVQAGANLSFNRFY
 DEHWSKHRVVTCDWSLQYPELMVASYNNEEDAPHEPDGVALVWNMKFKKTTPEYVFHCQSSVMSVCFAR
 FHPNLVVGQTYSGQIVLWDNRSHRTPVQRTPLSAAATHPVYCVNVVGTQNAHNLITVSTDGKMCSWSL
 DMLSTPQESMELVYNKSKPVAVTGMAFPTGDVNNFVVGSEEGTVYACRHGSKAGIGEVFEHQGPVTGI
 NCHMAVGPIDFSHLFVTSSFDWTVKLWTTKHKNPLYSFEDNADYVYDVMWSPVHPALFACVDGMGRDLW
 NLNNDTEVPTASVAIEGASALNRVWAQAGKEVAVGDSEGRVWYDVVGLAVPHNDEWTRFARTLVEIRA
 NRADSEEEGTVELSA

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004411

ORF Size: 1935 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

RefSeq: [NM_004411.3](#)

RefSeq Size: 2950 bp

RefSeq ORF: 1938 bp

Locus ID: 1780

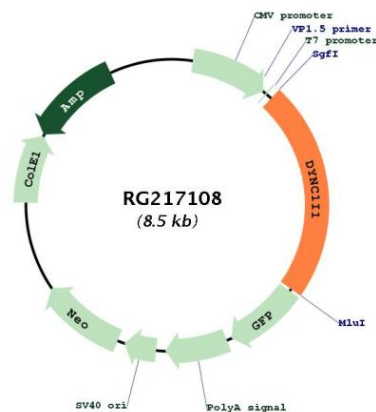
UniProt ID: [Q14576](#)

Cytogenetics: 7q21.3

Domains: WD40

Gene Summary: Acts as one of several non-catalytic accessory components of the cytoplasmic dynein 1 complex that are thought to be involved in linking dynein to cargos and to adapter proteins that regulate dynein function. Cytoplasmic dynein 1 acts as a motor for the intracellular retrograde motility of vesicles and organelles along microtubules. The intermediate chains mediate the binding of dynein to dynactin via its 150 kDa component (p150-glued) DCNT1. May play a role in mediating the interaction of cytoplasmic dynein with membranous organelles and kinetochores.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG217108