

Product datasheet for **RC239053**

DYNC1I1 (NM_001278422) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DYNC1I1 (NM_001278422) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DYNC1I1
Synonyms:	DNCI1; DNCIC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC239053 representing NM_001278422
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGTCGTGACAAAAGTGACTTAAAAGCTGAGCTAGAGCGCAAAAAGCAGCGCTTAGCACAGATAAGAGAAG
 AGAAGAAACGGAAGGAAGAGGAGAGGAAAAAGAAAGAGGCTGATATGCAGCAGAAGAAAGAACCCGTTC
 GGACGACTCTGATCTGGATCGCAACGACGAGAGACAGAGGCTTTGCTGCAAAGCATTGGTATCTCACCG
 GAGCCGCTCTAGTCCCAACCCCTATGTCTCCCTCCTCGAAATCAGTGAGCACTCCAGTGAAGCTGGAA
 GCCAAGACTCAGGCGATCTGGGGCATTAAACAAGAAGACTGCATAAACTGGGCGTGTCAAAGGTCAC
 CCAAGTGGATTTCTGCCAAGGGAAGTAGTGCTCTACTCAAAGGAGACCCAGACTCCTCTTGCCACGCAT
 CAGTCTGAAGAGGATGAGGAAGATGAGGAAATGGTGAATCTAAAGTTGGCCAGGACTCAGAAGTGGAAA
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 GATGGAGTGGCCTTGGTTTGAACATGAAGTTTAAAGAAACACACCAGAATACGCTTCCACTGTCAGT
 CCTCTGTGATGTCGGTCTGCTTCGCCGCTTCCATCCTAACTGGTGGTTGGTGGGACTTACTCGGGCCA
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 CACACGCATCCCGTGTACTGTGTAATGTTGTTGGGACCCAGAATGCTCATAACCTCATCACTGTCTCCA
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 CAATAAGTCCAAGCCTGTCGCTGTTACCGGAATGGCTTTCCCAACGGGAGACGTCATAAATTCGTGGTT
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 GTTTGTCACATCATTTGACTGGACTGTCAAAGTGGACCACCAAGCACAACAAGCCGCTTACTCC
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 TGGACGGGATGGGGCGCTTGGACCTCTGGAACCTCAACAATGACACCGAGGTTCCAACAGCAAGTGTGGC
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 TCGGAAGGCCGATTTGGGTCTATGACGTTGGAGAGGCTTGTCTATGTTGCCAGGCTGGTCTCAAAT
 CCTGGACTCAAGCAATCCTCTATGTTGGCCTCCCAAAGTCTGGGATTACAGACA

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 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

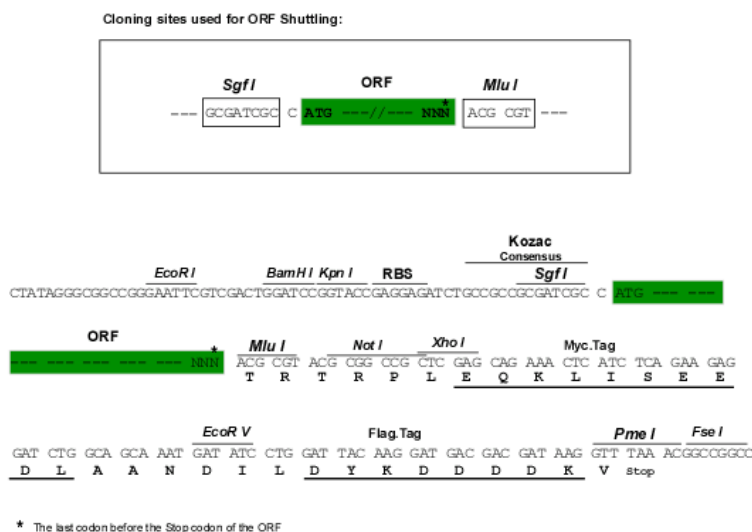
>RC239053 representing NM_001278422
 Red=Cloning site Green=Tags(s)

MSDKSDLKAELEKQRLAQIREKKRKEEERKKKEADMQQKKEPVQDDSDLDKRRRETEALLQSIGISP
 EPPLVPTPMPSSKSVSTPSEAGSQDSGDLGPLTRRLHLGVSKVTQVDFLPREVVSYSKETQTPLATH
 QSEEEDEEMVESKVGQDSELENQDKQEVKEAPPRELTEEEKQILHSEEFLLFFDRTIRVIERALAE
 DSDIFFDYSGRELEEKDGDVQAGANLSFNRFYDEHWSKHRVVT CMDWSLQYPELMVASYNNDAPHEP
 DGVALVWNMFKKTTPEYVFHCQSSVMSVCFARFHPNLVVGTYSGQIVLWDRSHRTPVQRTPLSAAA
 HTHPVYCVNVVGTQNAHNLITVSTDGKMCSWLDMLSTPQESMELVYNKSKPVAVTGMAFPTGDVNNFV
 GSEEGTVYTACRHGSKAGIGEVFEHQGPVTGINCHMAVGPIDFSFLFVTSSFDWTVKLWTTKHNKPLYS
 FEDNADYVYDVMWSPVHPALFACVDGMGRLLDWNLNNDTEVPTASVAIEGASALNRVRWAQAGKEVAVGD
 SEGRIWVYDVGEGLAMLPWGSQNSWTQAILLCWPPKVLGLQT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001278422

ORF Size: 1806 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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001278422.1](#), [NP_001265351.1](#)

RefSeq Size: 2337 bp

RefSeq ORF: 1809 bp

Locus ID: 1780

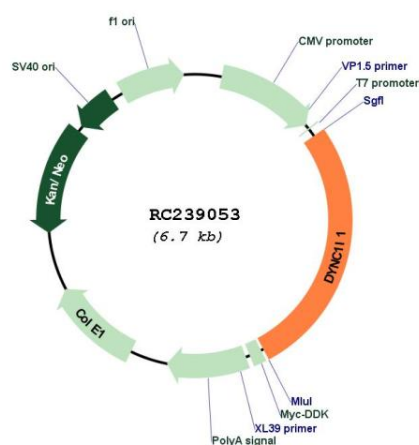
UniProt ID: O14576

Cytogenetics: 7q21.3

MW: 68.3 kDa

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 RC239053