

Product datasheet for **RG234565**

DYNC1I2 (NM_001271789) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DYNC1I2 (NM_001271789) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DYNC1I2
Synonyms:	DIC74; DNCI2; IC2; NEDMIBA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234565 representing NM_001271789
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGTCAGACAAAAGTGAATTAAGGCTGAGTTGGAACGTAGAAGCAGCGACTGGCCAAATCAGAGAGG
 AAAAGAAGAGAAAAGAAGAAAGGAAAAAAGAAACAGACCAGAAGAAGGAAGCTGTTGCTCCTGT
 GCAAGAAGAATCAGATCTTGAAAAAAGGAGAGAAGCTGAAGCATTGCTTCAAAGCATGGGGCTAACT
 CCAGAATCCCCATTGTCCCTCCTCTATGTCTCCATCCTCAAATCTGTGAGCACTCCAAGTGAAGCTG
 GAAGCCAAGACTCTGGAGATGGCGCGTGGGATCTAGACGAGGACCTATTAAGTGAATGGCTAAAT
 CACGCAAGTCGACTTTCCTCCTCGAGAAATGTCACGTATACAAAGGAACTCAGACTCCAGTTATGGCT
 CAACCCAAAGAAGATGAAGAGGAAGATGATGATGATGAGTGGCTCCTAAACCACTATTGAACCTGAAGAAG
 AGAAAACTTTAAAGAAAGATGAGGAAAAATGATAGTAAAGCTCCCCCTCATGAGCTGACTGAAGAAGAAA
 GCAACAAATCTTGCACTCTGAGGAATTTTAAAGTTTCTTTGACCATTCTACAAGAATTGTAGAAAGAGCT
 CTTTCTGAGCAGATTAAATCTTCTTTGACTATAGTGGGAGAGATTTGGAAGACAAAGAAGGAGAGATTC
 AAGCAGGTGCTAAACTGTCATTAATCGACAATTTTTGACGAACGTTGGTCAAAGCATCGGGTGGTTAG
 TTGTTTGGATTGGTCATCTCAGTATCCGGAGTTACTCGTGGCTTCTATAACAACAATGAAGATGCCCT
 CATGAGCCTGATGGTGTGGCCCTTGATGGAATATGAAATACAAAAAATACCCAGAGTATGTGTTTC
 ACTGCCAGTCAGCTGTGATGTCTGCCACATTTGCAAAATTCATCCAATCTTGTGTTGGTGGTACATA
 TTCAGGCCAAATTGTGCTTTGGGATAACCGTAGCAATAAAGAAGCTCCAGTGCAAGAAGCTCCACTGTCA
 GCAGCTGCACACACACCCTGTATATTGTGTAATGTTGTTGGAACACAAAATGCTCACAATCTGATTA
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 CTCACATCTTTTTGCACTTCATCGTTTACTGGACAGTAAAGCTTTGGACAATAAGAATAACAAGCCT
 TTGTATTCATTTGAAGATAATGCAGACTATGTTTATGATGTTATGTGGTACCTACCCACCCAGCCCTGT
 TTGCCTGTGTGGATGGCATGGGAGATTGGATTTGTGGAATCTCAATAATGACACAGAGGTACCACTGC
 CAGCATTTCTGTGGAGGTAATCCTGCTCTTAATCGTGTGAGATGGACCACTTCTGGCAGAGAGATTGCT
 GTGGGTGATTCTGAAGGACAGATTGTTATATACGATGTGGGAGAGCAGATTGCTGTTCCCGCAATGATG
 AATGGGCACGGTTTGGCCGAACCTTGCAGAAATTAATGCAAACCGAGCTGATGCAGAGGAGGAAGCAGC
 TACCCGAATACCTGCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

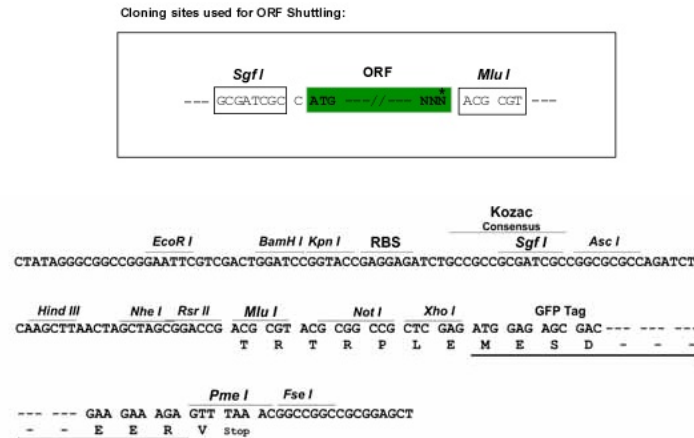
>RG234565 representing NM_001271789
 Red=Cloning site Green=Tags(s)

MSDKSELKAELEKQRLAQIREKKRKEEERKKKETDQKKEAVAPVQEEEDLEKKRREAEALLQSMGLT
 PESPIVPPPMSPSSKSVSTPSEAGSQDSGDGAVGSRGPIKLGMAKITQVDFPPREIVTYTKETQTPVMA
 QPKEDDEEDDDVAPKPIEPEEEKTLKKDEENDSKAPPHELTEEEKQQLHSEEFLLSFFDHSTRIVERA
 LSEQINIFFDYSGRDLEDKEGEIQAGAKLSLNRQFFDERWSKHRVVSCLDWSSQYPELLVASYNNDAP
 HEPDGVALLVNMKYKKTPEYVFHCQSAVMSATFAKFHPNLVVGTYSGQIVLWDNRNKRTPVQRTPLS
 AAAHTHPVYCVNVVGTQNAHNLISISTDGKICSWSLDMLSHPQDSMELVHKQSKAVAVTSMSPFVGDVNN
 FVVGSEEGSVYTACRHGSKAGISEMFEGHQGPITGIHCHAAVGAVDFSHLFVTSSFDWTVKLWTTKNKP
 LYSFEDNADYVYDVMWSPHPALFACVDGMGRDLWNLNNDTEVPTASISVEGNPALNRVRWTHSGREIA
 VGDSEGIQIVYDVEQIAVPRNDEWARFGRTLAEINANRADEEEAATRIPA

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001271789

ORF Size: 1836 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_001271789.2](#)

RefSeq Size: 4319 bp

RefSeq ORF: 1839 bp

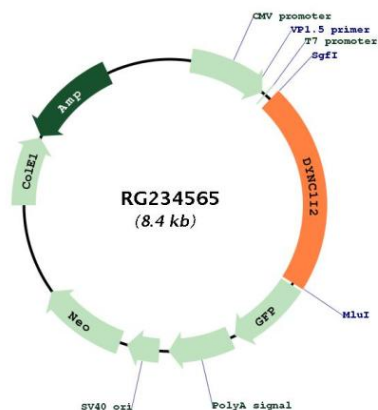
Locus ID: 1781

UniProt ID: [Q13409](#)

Cytogenetics: 2q31.1

Gene Summary: This gene encodes a member of the dynein intermediate chain family. The encoded protein is a non-catalytic component of the cytoplasmic dynein 1 complex, which acts as a retrograde microtubule motor to transport organelles and vesicles. A pseudogene of this gene is located on chromosome 10. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2012]

Product images:



Circular map for RG234565