

Product datasheet for **RG234564**

DYNC112 (NM_001271788) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DYNC112 (NM_001271788) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DYNC112
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:

>RG234564 representing NM_001271788
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCAGACAAAAGTGAATTAAGGCTGAGTTGGAACGTAAGAAGCAGCGACTGGCCAAATCAGAGAGG
 AAAAGAAGAGAAAAGAAGAAGAAAGGAAAAAAGAAAACAGACCAGAAGAAGGAAGCTGTTGCTCCTGT
 GCAAGAAGAATCAGATCTTGAAAAAAGGAGAGAAGCTGAAGCATTGCTTCAAAGCATGGGGCTAACT
 CCAGAATCCCCATTGTCCCTCCTCTATGTCTCCATCCTCCAAATCTGTGAGCACTCCAAGTGAAGCTG
 GAAGCCAAGACTCTGGAGATGGCGCCGTGGGATCTAGACGAGGACCTATTAAGTGAAGTGAAGTAAAT
 CACGCAAGTCGACTTTCCTCCTCGAATAATGTCACGTATACAAAGGAACTCAGACTCCAGTTATGGCT
 CAACCCAAAGAAGATGAAGAGGAAGATGATGATGATGAGTGGCTCTAAACCACTATTGAACCTGAAGAAG
 AGAAAACTTAAAGAAAGATGAGGAAAAATGATAGTAAAGCTCCCCCTCATGAGCTGACTGAAGAAGAAA
 GCAACAAATCTTGCACTCTGAGGAATTTTAAAGTTTCTTTGACCATTCTACAAGAATTGTAGAAAGAGCT
 CTTTCTGAGCAGATTAACATCTTCTTTGACTATAGTGGGAGAGATTTGGAAGACAAAGAAGGAGAGATTC
 AAGCAGGTGCTAAACTGTCATTAATCGACAATTTTTTGGACGACGTTGGTCAAAGCATCGGGTGGTTAG
 TTGTTTGGATTGGTCATCTCAGTATCCGGAGTTACTCGTGGCTTCTATAACAACAATGAAGATGCCCT
 CATGAGCCTGATGGTGTGGCCCTTGATGGAATATGAAATACAAAAAATACCCAGAGTATGTGTTTC
 ACTGCCAGTCAGCTGTGATGTCTGCCACATTTGCAAAAATTCATCCAATCTTGTGTTGGTGGTACATA
 TTCAGGCCAAATGTGCTTTGGGATAACCGTAGCAATAAAGAAGTCCAGTGCAAGAAGTCCACTGTCA
 GCAGCTGCACACACACACCCTGTATATTGTGTAATGTTGTTGGAACACAAAATGCTCACAATCTGATTA
 GCATCTCTACTGATGAAAAATTTGTTTCATGGAGTCTGGACATGCTTTCCCATCCAGGATAGCATGGA
 GTTGGTTCATAAACAGTCAAAGCAGTAGCTGTGACATCTATGTCTTCCCTGTTGGAGATGTCAACAC
 TTTGTTGTTGGGAGTGAAGAAGTTCTGTGTACACAGCATGCCGCCATGGCAGCAAGCTGGAATCAGTG
 AGATGTTTGGGGCATCAAGGACCAATCACTGGCATCCATTGTCATGCAGCTGTTGGAGCAGTAGACTT
 CTCACATCTTTTTGCACTTCATCGTTTACTGGACAGTAAAGCTTTGGACAAGTAAAGAATAACAAGCTT
 TTGATTCATTTGAAGATAATGCAGACTATGTTTATGATGTTATGTGGTACCTACCCACCAGCCCTGT
 TTGCTGTGTGGATGGCATGGGAGATTGGATTTGTGGAATCTCAATAATGACACAGAGGTACCAACTGC
 CAGCATTTCTGTGGAGGTAATCCTGCTCTAATCGTGTGAGATGGACCACTTGGCAGAGAGATTGCT
 GTGGGTGATTCTGAAGGACAGATTGTTATACGATGTGGGAGAGCAGATTGCTGTTCCCGCAATGATG
 AATGGGCACGGTTTGGCCGAACACTGCAGAAATTAATGCAAACCGAGCTGATGCAGAGGAGGAAGCAGC
 TACCCGAATACCTGCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234564 representing NM_001271788
 Red=Cloning site Green=Tags(s)

MSDKSELKAELEKQRLAQIREEKRRKEERKKKEDTQKKEAVAPVQEEESDLEKKRREAEALLQSMGLT
 PESPIVPPMSPSSKSVSTPSEAGSQSDGAVGSRGPIKLGMAKITQVDFPPREIVTYTKETQTPVMA
 QPKEDDEEDDVAPKPIEPEEEKTLKKDEENDSKAPHELTEEEKQQLHSEEFLSFFDHSTRIVERA
 LSEQINIFFDYSGRDLEDKEGEIQAGAKLSLNRQFFDERWSKHRVVSCLDWSSQYPELLVASYNNEADP
 HEPDGVALLVNMKYKKTPEYVFHCQSAYMSATFAKFHPNLVGGTYSGQIVLWDNRNKRTPVQRTPLS
 AAAHTHPVYCVNVVGTQNAHNLISISTDGKICSWSLDMLSHPQDSMELVHKQSKAVAVTSMSPVGDVNN
 FVVGSEEGSVYACRHSKAGISEMFEHQGPITGIHCHAAVAVDFSHLFVTSFDDWTVKLWTTKNNKP
 LYSFEDNADYVYDVMWSPHPALFACVDGMGRDLWNLNNDTEVPTASISVEGNPALNRVWTHSGREIA
 VGDSEGIYIYDVGQIAVPRNDEWARFGRTLAEINANRADAEEEEATRIPA

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001271788

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.

RefSeq: [NM_001271788.2](#)

RefSeq Size: 4336 bp

RefSeq ORF: 1839 bp

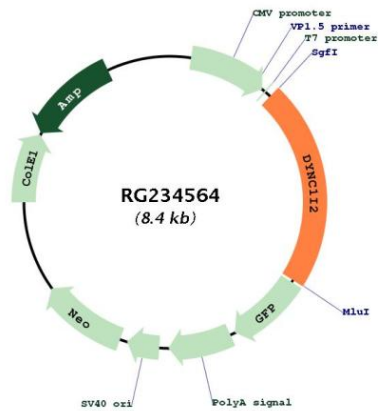
Locus ID: 1781

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 RG234564