

Product datasheet for **RC234564**

DYNC112 (NM_001271788) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DYNC112 (NM_001271788) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DYNC112
Synonyms:	DIC74; DNCI2; IC2; NEDMIBA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234564 representing NM_001271788
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCAGACAAAAGTGAATTAAGGCTGAGTTGGAACGTAAAGCAGCGACTGGCCAAATCAGAGAGG
 AAAAGAAGAGAAAAGAAGAAGAAAGGAAAAAAGAAAACAGACCAGAAGGAAGCTGTTGCTCCTGT
 GCAAGAAGAATCAGATCTTGAAAAAAGGAGAGAAGCTGAAGCATTGCTTCAAAGCATGGGGCTAACT
 CCAGAATCCCCATTGTCCCTCCTCTATGTCTCCATCCTCCAAATCTGTGAGCACTCCAAGTGAAGCTG
 GAAGCCAAGACTCTGGAGATGGCGCCGTGGGATCTAGACGAGGACCTATTAAGTGAAGTAAAT
 CACGCAAGTGCAGTTTCTCCTCGAATAATGTCACGTATACAAAGGAACTCAGACTCCAGTTATGGCT
 CAACCCAAAGAAGATGAAGAGGAAGATGATGATGATGAGTGGCTCTAAACCACCTATTGAACCTGAAGAAG
 AGAAAACTTAAAGAAAGATGAGGAAAAATGATAGTAAAGCTCCCCCTCATGAGCTGACTGAAGAAGAAA
 GCAACAAATCTTGCACTCTGAGGAATTTTAAAGTTTCTTTGACCATTCTACAAGAATTGTAGAAAGAGCT
 CTTTCTGAGCAGATTAACATCTTCTTTGACTATAGTGGGAGAGATTTGGAAGACAAAGAAGGAGAGATTC
 AAGCAGGTGCTAAACTGTCATTAATCGACAATTTTTGACGAACGTTGGTCAAAGCATCGGGTGGTTAG
 TTGTTTGGATTGGTCATCTCAGTATCCGGAGTTACTCGTGGCTTCTATAACAACAATGAAGATGCCCT
 CATGAGCCTGATGGTGTGGCCCTTGATGGAATATGAAATACAAAAAATACCCAGAGTATGTGTTTC
 ACTGCCAGTCAGCTGTGATGTCTGCCACATTTGCAAAATTTTATCCAAATCTTGTGTTGGTGGTACATA
 TTCAGGCCAAATTTGTGCTTTGGGATAACCGTAGCAATAAAGAAGTCCAGTGCAAGAAGTCCACTGTCA
 GCAGCTGCACACACACCCTGTATATTGTGTAATGTTGTTGGAACACAAAATGCTCACAATCTGATTA
 GCATCTACTGATGAAAAATTTGTTTCATGGAGTCTGGACATGCTTTCCCATCCACAGGATAGCATGGA
 GTTGGTTCATAAACAGTCAAAGCAGTAGCTGTGACATCTATGTCTTCCCTGTTGGAGATGTCAACAAC
 TTTGTTGTTGGGAGTGAAGAAGTTCTGTGTACACAGCATGCCGCCATGGCAGCAAGCTGGAATCAGTG
 AGATGTTTGGGGCATCAAGGACCAATCACTGGCATCCATTGTCATGCAGCTGTTGGAGCAGTAGACTT
 CTCACATCTTTTTGCACTTCATCGTTTACTGGACAGTAAAGCTTTGGACAATAAGAATAACAAGCCT
 TTGATTCATTTGAAGATAATGCAGACTATGTTTATGATGTTATGTGGTACCTACCCACCAGCCCTGT
 TTGCTGTGTGGATGGCATGGGAGATTGGATTTGTGGAATCTCAATAATGACACAGAGGTACCAACTGC
 CAGCATTTCTGTGGAGGTAATCCTGCTTAAATCGTGTGAGATGGACCCATTCTGGCAGAGAGATTGCT
 GTGGGTGATTCTGAAGGACAGATTGTTATATACGATGTGGGAGAGCAGATTGCTGTTCCCGCAATGATG
 AATGGGCACGGTTTGGCCGAACACTGCAGAAATTAATGCAAACCGAGCTGATGCAGAGGAGGAAGCAGC
 TACCCGAATACCTGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234564 representing NM_001271788
 Red=Cloning site Green=Tags(s)

MSDKSELKAELEKQRLAQIREEKRRKEEERKKKTDQKKEAVAPVQEEESDLEKKRREAEALLQSMGLT
 PESPIVPPMSPSSKSVSTPSEAGSQSDGAVGSRGPIKLGMAKITQVDFPPREIVTYTKETQTPVMA
 QPKEDDEEDDVVAPKPIEPEEEKTLKKDEENDSKAPPHELTEEEKQQLHSEEFLLSFFDHSTRIVERA
 LSEQINIFFDYSGRDLEKEGEIQAGAKLSLNRQFFDERWSKHRVVSCLDWSSQYPELLVASYNNDAP
 HEPDGVALLVNMKYKKTTPYVFFHCQSAVMSATFAKFHPNLVGGTYSQIIVLWDNRNKRTPVQRTPLS
 AAATHPYVCVNVVGTQNAHNLISISTDGKICSWSLDMLSHPQDSMELVHKQSKAVAVTSMSPVGDVNN
 FVVGSEEGSVYACRHSKAGISEMFEHQGPITGIHCHAAVAVDFSHLFVTSFSDWTVKLWTTKNNKP
 LYSFEDNADYVYDVMWSPHPALFACVDGMGRDLWNLNNDTEVPTASISVEGNPALNRVWTHSGREIA
 VGDSEGIIVYDVGQIAVPRNDEWARFGRTLAEINANRADAEEEEATRIPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-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

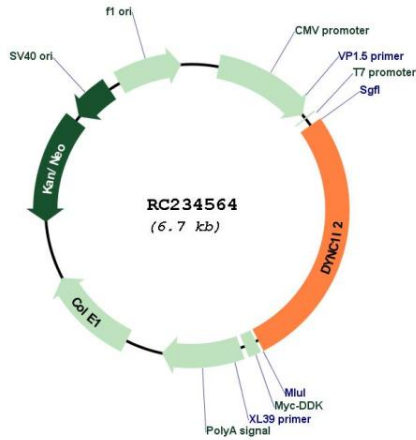
UniProt ID: [Q13409](#)

Cytogenetics: 2q31.1

MW: 68.9 kDa

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 RC234564