

## Product datasheet for **RC234562**

### **DYNC112 (NM\_001271790) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DYNC112 (NM_001271790) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DYNC112
Synonyms:	DIC74; DNC12; IC2; NEDMIBA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234562 representing NM\_001271790  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCAGACAAAAGTGAATTAAGGCTGAGTTGGAACGTAAAGCAGCGACTGGCCAAATCAGAGAGG  
 AAAAGAAGAGAAAAGAAGAAGAAAGGAAAAAAGAAAACAGACCAGAAGGAAGCTGTTGCTCCTGT  
 GCAAGAAGAATCAGATCTTGAAAAAAGGAGAGAAGCTGAAGCATTGCTTCAAAGCATGGGGCTAACT  
 CCAGAATCCCCATTGTCCCTCCTCTATGTCTCCATCCTCAAATCTGTGAGCACTCCAAGTGAAGCTG  
 GAAGCCAAGACTCTGGAGATGGCGCCGTGGGATCTAGACGAGGACCTATTAAGTGAAGTGAAGTAAAT  
 CACGCAAGTCGACTTTCCTCCTCGAATAATGTCACGTATACAAAGGAACTCAGACTCCAGTTATGGCT  
 CAACCCAAAGAAGATGAAGAGGAAGATGATGATGATGAGTGGCTCTAAACCACCTATTGAACCTGAAGAAG  
 AGAAAACTTAAAGAAAGATGAGGAAAAATGATAGTAAAGCTCCCCCTCATGAGCTGACTGAAGAAGAAA  
 GCAACAAATCTTGCACTCTGAGGAATTTTAAAGTTCTTTGACCATTCTACAAGAATTGTAGAAAGAGCT  
 CTTTCTGAGCAGATTAACATCTTCTTTGACTATAGTGGGAGAGATTTGGAAGACAAAAGAAGGAGAGATTC  
 AAGCAGGTGCTAAACTGTCATTAATCGACAATTTTTTGACGAACGTTGGTCAAAGCATCGGGTGGTTAG  
 TTGTTTGGATTGGTCATCTCAGTATCCGGAGTTACTCGTGGCTTCTATAACAACAATGAAGATGCCCT  
 CATGAGCCTGATGGTGTGGCCCTTGATGGAATATGAAATACAAAAAATACCCAGAGTATGTGTTTC  
 ACTGCCAGTCAGCTGTGATGTCTGCCACATTTGCAAAATTTTATCCAATCTTGTGTTGGTGGTACATA  
 TTCAGGCCAAATTTGTGCTTTGGGATAACCGTAGCAATAAAGAACTCCAGTGCAAAGAATCCACTGTCA  
 GCAGCTGCACACACACCCTGTATATTGTGTAATGTTGTTGGAACACAAAATGCTCACAATCTGATTA  
 GCATCTACTGATGAAAAATTTGTTTCATGGAGTCTGGACATGCTTTCCCATCCAGGATAGCATGGA  
 GTTGGTTCATAAACAGTCAAAGCAGTAGCTGTGACATCTATGTCTTCCCTGTTGGAGATGTCAACAAC  
 TTTGTTGTTGGGAGTGAAGAAGTTCTGTGTACACAGCATGCCGCCATGGCAGCAAAGCTGGAATCAGTG  
 AGATGTTTGGGGCATCAAGGACCAATCACTGGCATCCATTGTCATGCAGCTGTTGGAGCAGTAGACTT  
 CTCACATCTTTTTGCACTTCATCGTTTACTGGACAGTAAAGCTTTGGACAATAAGAATAACAAGCCT  
 TTGATTCATTTGAAGATAATGCAGACTATGTTTATGATGTTATGTGGTACCTACCCACCAGCCCTGT  
 TTGCTGTGTGGATGGCATGGGAGATTGGATTTGTGGAATCTCAATAATGACACAGAGGTACCAACTGC  
 CAGCATTTCTGTGGAGGTAATCCTGCTTAAATCGTGTGAGATGGACCCATTCTGGCAGAGAGATTGCT  
 GTGGGTGATTCTGAAGGACAGATTGTTATATACGATGTGGGAGAGATTGCTGTTCCCGCAATGATGAAT  
 GGGCACGGTTTGCCGAACACTGCAGAAATTAATGCAAACCGAGCTGATGCAGAGGAGGAGCAGCTAC  
 CCGAATACCTGCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234562 representing NM\_001271790  
 Red=Cloning site Green=Tags(s)

MSDKSELKAELEKQRLAQIREEKRRKEEERKKETDQKKEAVAPVQEEESDLEKKRREAEALLQSMGLT  
 PESPIVPPMSPSSKSVSTPSEAGSQSDGAVGSRGPIKLGMAKITQVDFPPREIVTYTKETQTPVMA  
 QPKEDDEEDDVVAPKPIEPEEEKTLKKDEENDSKAPHELTEEEKQQLHSEEFLLSFFDHSTRIVERA  
 LSEQINIFFDYSGRDLEKEGEIQAGAKLSLNRQFFDERWSKHRVVSCLDWSSQYPELLVASYNNDAP  
 HEPDGVALLVNMKYKKTTPYVFFHCQSAVMSATFAKFHPNLVGGTYSQIIVLWDNRNKRTPVQRTPLS  
 AAATHPYVCVNVVGTQNAHNLISISTDGKICSWSLDMLSHPQDSMELVHKQSKAVAVTSMSPVGDVNN  
 FVVGSEEGSVYACRHSKAGISEMFEHQGPITGIHCHAAVAVDFSHLFVTSFSDWTVKLWTTKNNKP  
 LYSFEDNADYVYDVMWSPHPALFACVDGMGRDLWNLNNDTEVPTASISVEGNPALNRVWTHSGREIA  
 VGDSEGIIVYDVEIAVPRNDEWARFGRTLAEINANRADAEEEEATRIPA

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001271790

ORF Size: 1833 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\\_001271790.2](#)

RefSeq Size: 4333 bp

RefSeq ORF: 1836 bp

Locus ID: 1781

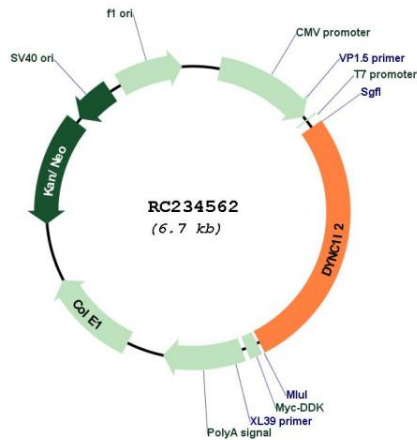
UniProt ID: [Q13409](#)

**Cytogenetics:** 2q31.1

**MW:** 68.7 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 RC234562