

Product datasheet for **RC234565**

DYNC112 (NM_001271789) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DYNC112 (NM_001271789) 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:

>RC234565 representing NM_001271789
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCAGACAAAAGTGAATTAAGGCTGAGTTGGAACGTAAAGCAGCGACTGGCCAAATCAGAGAGG
 AAAAGAAGAGAAAAGAAGAAGAAAGGAAAAAAGAAAACAGACCAGAAGGAAGCTGTTGCTCCTGT
 GCAAGAAGAATCAGATCTTGAAAAAAGGAGAGAAGCTGAAGCATTGCTTCAAAGCATGGGGCTAACT
 CCAGAATCCCCATTGTCCTCCTCCTATGTCTCCATCCTCAAATCTGTGAGCACTCCAAGTGAAGCTG
 GAAGCCAAGACTCTGGAGATGGCGCCGTGGGATCTAGACGAGGACCTATTAAGTGAAGTGAAGTAAAT
 CACGCAAGTGCAGTTTCTCCTCGAATAATGTCACGTATACAAAGGAACTCAGACTCCAGTTATGGCT
 CAACCCAAAGAAGATGAAGAGGAAGATGATGATGATGAGTGGCTCTAAACCACTATTGAACCTGAAGAAG
 AGAAAACTTAAAGAAAGATGAGGAAAAATGATAGTAAAGCTCCCCCTCATGAGCTGACTGAAGAAGAAA
 GCAACAAATCTGCACTCTGAGGAATTTTAAAGTTTCTTTGACCATTCTACAAGAATTGTAGAAAGAGCT
 CTTTCTGAGCAGATTAACATCTTCTTTGACTATAGTGGGAGAGATTTGGAAGACAAAGAAGGAGAGATTC
 AAGCAGGTGCTAAACTGTCATTAATCGACAATTTTTTGACGAACGTTGGTCAAAGCATCGGGTGGTTAG
 TTGTTTGGATTGGTCATCTCAGTATCCGGAGTTACTCGTGGCTTCTATAACAACAATGAAGATGCCCT
 CATGAGCCTGATGGTGTGGCCCTTGATGGAATATGAAATACAAAAAATACCCAGAGTATGTGTTTC
 ACTGCCAGTCAGCTGTGATGTCTGCCACATTTGCAAAATTTTATCCAAATCTTGTGTTGGTGGTACATA
 TTCAGGCCAAATTTGCTTTGGGATAACCGTAGCAATAAAGAACTCCAGTGCAAGAAGTCCACTGTCA
 GCAGCTGCACACACACCCTGTATATTGTGTAATGTTGTTGGAACACAAAATGCTCACAATCTGATTA
 GCATCTACTGATGAAAAATTTGTTTCATGGAGTCTGGACATGCTTTCCCATCCAGGATAGCATGGA
 GTTGGTTCATAAACAGTCAAAGCAGTAGCTGTGACATCTATGTCTTCCCTGTTGGAGATGTCAACAAC
 TTTGTTGTTGGGAGTGAAGAAGTTCTGTGTACACAGCATGCCGCCATGGCAGCAAGCTGGAATCAGTG
 AGATGTTTGGGGCATCAAGGACCAATCACTGGCATCCATTGTCATGCAGCTGTTGGAGCAGTAGACTT
 CTCACATCTTTTTGCACTTCATCGTTTACTGGACAGTAAAGCTTTGGACAATAAGAATAACAAGCCT
 TTGATTCATTTGAAGATAATGCAGACTATGTTTATGATGTTATGTGGTACCTACCCACCCAGCCCTGT
 TTGCTGTGTGGATGGCATGGGAGATTGGATTTGTGGAATCTCAATAATGACACAGAGGTACCAACTGC
 CAGCATTTCTGTGGAGGTAATCCTGCTTAAATCGTGTGAGATGGACCACTTGGCAGAGAGATTGCT
 GTGGGTGATTCTGAAGGACAGATTGTTATACGATGTGGGAGAGCAGATTGCTGTTCCCGCAATGATG
 AATGGGCACGGTTTGGCCGAACACTGCAGAAATTAATGCAAACCGAGCTGATGCAGAGGAGGAAGCAGC
 TACCCGAATACCTGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234565 representing NM_001271789
 Red=Cloning site Green=Tags(s)

MSDKSELKAELEKQRLAQIREEKRRKEEERKKKTDQKKEAVAPVQEEESDLEKRRREAEALLQSMGLT
 PESPIVPPMSPSSKSVSTPSEAGSQSDGAVGSRGPIKLGMAKITQVDFPPREIVTYTKETQTPVMA
 QPKEDDEEDDVVAPKPIEPEEEKTLKKDEENDSKAPPHELTEEEKQQLHSEEFLLSFFDHSTRIVERA
 LSEQINIFFDYSGRDLEKEGEIQAGAKLSLNRQFFDERWSKHRVVSCLDWSSQPELLVASYNNDAP
 HEPDGVALVWNMYYKKTPEYVFHCQSAVMSATFAKFHPNLVGGTYSQIIVLWDNRSNKRTPVQRTPLS
 AAATHPYVCVNVVGTQNAHNLISISTDGKICSWSLDMLSHPQDSMELVHKQSKAVAVTSMSPVGDVNN
 FVVGSEEGSVYACRHSKAGISEMFEHQGPITGIHCHAAVAVDFSHLFVTSFSDWTVKLWTTKNNKP
 LYSFEDNADYVYDVMWSPHPALFACVDGMGRDLWNLNNDTEVPTASISVEGNPALNRVWTHSGREIA
 VGDSEGIIVYDVGQIIVPRNDEWARFGRTLAEINANRADAEEEEATRIPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-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.

RefSeq: [NM_001271789.2](#)

RefSeq Size: 4319 bp

RefSeq ORF: 1839 bp

Locus ID: 1781

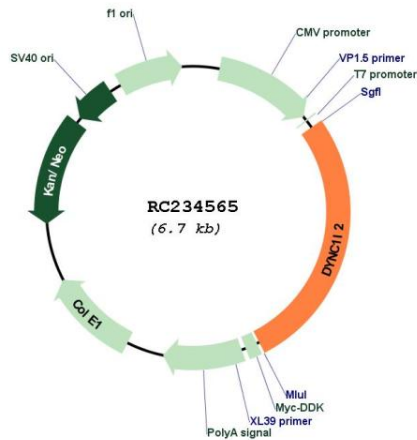
UniProt ID: [Q13409](#)

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 RC234565