

Product datasheet for **RC234610**

DYNC112 (NM_001271787) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DYNC112 (NM_001271787) 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:

>RC234610 representing NM_001271787
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCAGACAAAAGTGAATTAAGGCTGAGTTGGAACGTAAAGCAGCGACTGGCCAAATCAGAGAGG
 AAAAGAAGAGAAAAGAAGAAGAAAGGAAAAAAGAAAACAGACCAGAAGAAGGAAGCTGTTGCTCCTGT
 GCAAGAAGAATCAGATCTTGAAAAAAGGAGAGAAGCTGAAGCATTGCTTCAAAGCATGGGGCTAACT
 CCAGAATCCCCATTGCTGAGCAACCTCTCCGTGTAGTAACAGCGGATACCTGTCTATTTCACTATTTAG
 TCCCTCCTCTATGTCTCCATCTCCAAATCTGTGAGCACTCCAAGTGAAGCTGGAAGCCAAGACTCTGG
 AGATGGCGCCGTGGGATCTAGACGAGGACCTATTAACCTGGAATGGCTAAAATCACGCAAGTCTGACTTT
 CCTCCTCGAGAAATTGTCACGTATACAAAGGAACTCAGACTCCAGTTATGGCTCAACCCAAAGAAGATG
 AAGAGGAAGATGATGATGATGAGTGGCTCCTAAACCCTATTGAACCTGAAGAAGAGAAAACCTTTAAAGAA
 AGATGAGGAAAAATGATAGTAAAGCTCCCCCTCATGAGCTGACTGAAGAAGAAAAGCAACAATCTTGCAC
 TCTGAGGAATTTTAAAGTTCTTTGACCATTCTACAAGAATTGTAGAAAGAGCTCTTTCTGAGCAGATTA
 ACATCTTCTTTGACTATAGTGGGAGAGATTTGGAAGACAAAGAAGGAGAGATTCAAGCAGGTGCTAACT
 GTCATTAATCGACAATTTTTGACGAACGTTGGTCAAAGCATCGGGTGGTTAGTTGTTGGATTGGTCA
 TCTCAGTATCCGGAGTTACTCGTGGCTTCTATAACAACAATGAAGATGCCCTCATGAGCCTGATGGTG
 TGGCCCTTGATGGAATATGAAATACAAAAAATACCCAGAGTATGTGTTTCACTGCCAGTCACTGT
 GATGCTGCCACATTTGCAAAATTTTATCCAAATCTTGTGTTGGTGGTACATATTCAGGCCAAATTTGTG
 CTTTGGGATAACCGTAGCAATAAAGAAGCTCCAGTGAAGAAGTCCACTGTCAGCAGCTGCACACACAC
 ACCCTGTATATTGTGTAATGTTGTTGGAACAAAAATGCTCACAATCTGATTAGCATCTCTACTGATGG
 AAAAATTTGTTTATGGAGTCTGGACATGCTTCCCATCCACAGGATAGCATGGAGTTGGTTCATAAACAG
 TCAAAAGCAGTAGCTGTGACATCTATGTCTTCCCTGTTGGAGATGTCAACAACCTTTGTTGTTGGGAGTG
 AAGAAGTTTCTGTGTACACAGCATGCCGCCATGGCAGCAAAGCTGGAATCAGTGAGATGTTTGGGGGCA
 TCAAGGACCAATCACTGGCATCCATTGTCATGCAGCTGTTGGAGCAGTAGACTTCTCACATCTTTTTGTC
 ACTTCATCGTTTACTGGACAGTAAAGCTTTGGACAACATAAGAATAACAAGCCTTTGATTCATTTGAAG
 ATAATGCAGACTATGTTTATGATGTTATGTGGTCACTACCCACCAGCCCTGTTGCTGTGTGGATGG
 CATGGGGAGATTGGATTTGTGGAATCTCAATAATGACACAGAGGTACCAACTGCCAGCATTCTGTGGAG
 GGTAATCTGCTCTTAATCGTGTGAGATGGACCATTCTGGCAGAGAGATTGCTGTGGGTGATTCTGAAG
 GACAGATTGTTATATACGATGTGGGAGAGCAGATTGCTGTTCCCCGAATGATGAATGGGCACGGTTTGG
 CCGAACACTTGCAGAAATTAATGCAAACCGAGCTGATGCAGAGGAGGAAGCAGCTACCCGAATACCTGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234610 representing NM_001271787
 Red=Cloning site Green=Tags(s)

MSDKSELKAELEKQRLAQIREEKRRKEEERKKKTDQKKEAVAPVQEEESDLEKKRREAEALLQSMGLT
 PESPIAEQPLRVVADTCLFHLYVPPPMSPSSKSVSTPSEAGSQDSGDGAVGSRRGPIKLGMAKITQVDF
 PPREIVTYTKETQTPVMAQPKEDDEEDDDVVAPKPIEPEEEKTLKKDEENDSKAPHEL TEEKQQLH
 SEEFLLSFFDHSTRIVERALSEQINIFFDYSGRDLEDKEGEIQAGAKLSLNRQFFDERWSKHRVVSCLDWS
 SQYPELLVASYNNDAPHEPDGVALVWNMYYKTTPEYVFHCQSAVMSATFAKHFHNLVGGTYSQIV
 LWDNRNKRTPVQRTPLSAAATHPVYCVNVVGTQNAHNLISISTDGKICSWSLDMLSHPQDSMELVHKQ
 SKAVAVTSMSPVGDVNNFVVGSEESVYACRHSKAGISEMFEGHQGPITGIHCHAAVAVDFSHLFV
 TSSFDWTYKLVWTKNNKPLYSFEDNADYVYDVMWSPHLPALFACVDGMGRLLDNLNNDTEVPTASISVE
 GNPALNRVWTHSGREIAVGDESEQIYIVDVEQIIVPRNDEWARFGRTLAEINANRADAEEEAATRIPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001271787

ORF Size: 1890 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_001271787.2](#)

RefSeq Size: 4373 bp

RefSeq ORF: 1893 bp

Locus ID: 1781

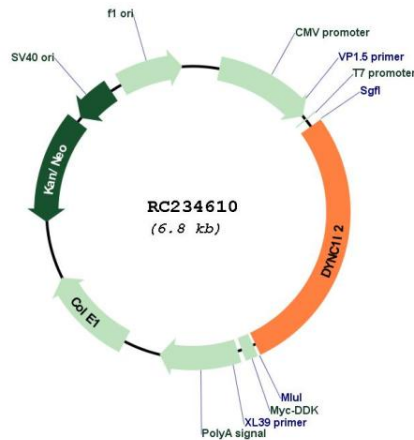
UniProt ID: [Q13409](#)

Cytogenetics: 2q31.1

MW: 70.9 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 RC234610