

Product datasheet for **RG234629**

DYNC112 (NM_001271785) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DYNC112 (NM_001271785) 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:

>RG234629 representing NM_001271785
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCAGACAAAAGTGAATTAAGGCTGAGTTGGAACGTAGAAGCAGCGACTGGCCAAATCAGAGAGG
 AAAAGAAGAGAAAAGAAGAAGAAAGGAAAAAAGAAAACAGACCAGAAGAAGGAAGCTGTTGCTCCTGT
 GCAAGAAGAATCAGATCTTGAAAAAAGGAGAGAAGCTGAAGCATTGCTTCAAAGCATGGGGCTAACT
 CCAGAATCCCCATTGTTTTCTGAATACTGGGTCCTCCTCCTATGTCTCCATCCTCCAAATCTGTGA
 GCACTCCAAGTGAAGCTGGAAGCCAAGACTCTGGAGATGGCGCGTGGGATCTAGGACGCTGCATTGGGA
 TACAGATCCATCAGTTCTCAGCTTCACTCAGATTCGATTTGGGACGAGGACCTATTAACCTGGAATG
 GCTAAAACACGCAAGTCGACTTCTCCTCGAGAAATGTCACGTATACAAAGGAACTCAGACTCCAG
 TTATGGCTCAACCCAAAGAAGATGAAGAGGAAGATGATGATGATGGCTCCTAAACCACCTATTGAACC
 TGAAGAAGAGAAAACCTTAAAGAAGATGAGGAAAATGATAGTAAAGCTCCCCCTCATGAGCTGACTGAA
 GAAGAAAAGCAACAAATCTGCACTCTGAGGAATTTTTAAGTTTCTTTGACCATTCTACAAGAATTGTAG
 AAAGAGCTCTTTCTGAGCAGATTAACATCTTTTACTATAGTGGGAGAGATTTGGAAGACAAAGAAGG
 AGAGATTAAGCAGGTGCTAAACTGTCATTAATCGACAATTTTTGACGAACGTTGGTCAAAGCATCGG
 GTGGTTAGTTGTTGGATTGGTCATCTCAGTATCCGGAGTTACTCGTGGCTTCTATAACAACAATGAAG
 ATGCCCTCATGAGCCTGATGGTGTGGCCCTTGATGGAATATGAAATACAAAAAACTACCCAGAGTA
 TGTGTTTCACTGCCAGTCAGCTGTGATGCTGCCACATTTGCAAAATTCATCCAATCTTGTGTTGGT
 GGTACATATTCAGGCCAAATGTGCTTTGGGATAACCGTAGCAATAAAGAAGCTCCAGTGCAAGAAGTCC
 CACTGTCAGCAGCTGCACACACACACCCTGTATATTGTGTAATGTTGTTGGAACACAAAATGCTCACAA
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 AGCATGGAGTTGGTTCATAAACAGTCAAAAGCAGTAGCTGTGACATCTATGTCCTTCCCTGTTGGAGATG
 TCAACAACCTTTGTTGGGAGTGAAGAAGTTCTGTGTACACAGCATGCCGCCATGGCAGCAAAGCTGG
 AATCAGTGAGATGTTGAGGGGCATCAAGGACCAATCACTGGCATCCATTGTCATGCAGCTGTTGGAGCA
 GTAGACTTCTCACATCTTTTGTCACTTTCATCGTTTACTGGACAGTAAAGCTTTGGACAATAAGAATA
 ACAAGCCTTTGTATTCATTTGAAGATAATGCAGACTATGTTTATGATGTTATGTGGTACCTACCCACC
 AGCCCTGTTTGCCTGTGGATGGCATGGGAGATTGGATTTGTGAATCTCAATAATGACACAGAGGTA
 CCAACTGCCAGCATTCTGTGGAGGTAATCCTGCTTAAATCGTGTGAGATGGACCCATTCTGGCAGAG
 AGATTGCTGTGGGTGATTCTGAAGGACAGATTGTTATATACGATGTGGGAGAGCAGATTGCTGTTCCCG
 CAATGATGAATGGGCACGGTTTGCCGAACACTTCGAGAAATTAATGCAAACCGAGCTGATGCAGAGGAG
 GAAGCAGTACCCGAATACCTGCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234629 representing NM_001271785
 Red=Cloning site Green=Tags(s)

MSDKSELKAELEKQRLAQIREEKRRKEEERKKKEDQKKEAVAPVQEEESDLEKKRREAEALLQSMGLT
 PESPIVFSEYWPPPMSPSSKSVSTPSEAGSQDSGDGAVGSRTLHWDTDPSVLQLHSDSDLGRGPIKLG
 AKITQVDFPPREIVTYTKETQTPVMAQPKEDDEEEDDDVAPKPPIEPEEEKTLKKDEENDSKAPPHELTE
 EEKQQILHSEEFLSFFDHSTRIVERALSEQINIFFDYSGRDLEKEGEIQAGAKLSLNRQFDERWSKHR
 VVSCLDWSSQYPELLVASYNNDAPHEPDGVALVWMMKYKKTPEYVFHCQSAVMSATFAKHPNLVVG
 GTYSGQIVLWDRNSNRKTPVQRTPLSAAATHPVYCVNVVGTQNAHNLISISTDGKICSWSLDMLSHPQD
 SMELVHKQSKAVAVTSMSPVGDVNNFVVGSEEGSVYACRHHGSKAGISEMFEGHQGPITGIHCHAAVGA
 VDFSHLFVTSSFDWTVKLWTTKNNKPLYSFEDNADYVYDVMWSPHPALFACVDGMGRLLDLNLNNDTEV
 PTASISVEGNPALNRVRWTHSGREIAVGDSEGVYIYDVGQIAVPRNDEWARFGRTLAEINANRADEE
 EAATRIPA

TRTRPLE – GFP Tag – V

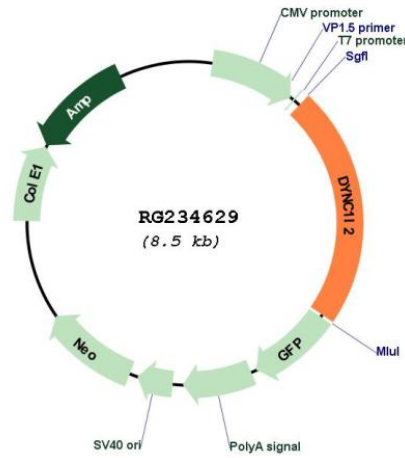
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001271785

ORF Size: 1914 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:	<ol style="list-style-type: none">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_001271785.2
RefSeq Size:	4397 bp
RefSeq ORF:	1917 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]