

Product datasheet for **RG234629**

DYNC1I2 (NM_001271785) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DYNC1I2 (NM_001271785) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DYNC1I2
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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGTCAGACAAAAGTGAATTAAGGCTGAGTTGGAACGTAAGAAGCAGCGACTGGCCAAATCAGAGAGG
 AAAAGAAGAGAAAAGAAGAAAGGAAAAAAGAAACAGACCAGAAGAAGGAAGCTGTTGCTCCTGT
 GCAAGAAGAATCAGATCTTGAAAAAAGGAGAGAAGCTGAAGCATTGCTTCAAAGCATGGGGCTAACT
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 GCACTCCAAGTGAAGCTGGAAGCCAAGACTCTGGAGATGGCGCGTGGGATCTAGGACGCTGCATTGGGA
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 CAATGATGAATGGGCACGGTTTGCCGAACACTGCAGAAATTAATGCAACCGAGCTGATGCAGAGGAG
 GAAGCAGCTACCCGAATACCTGCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

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

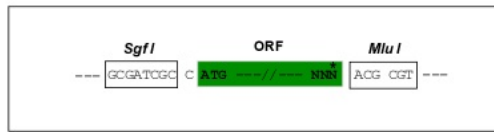
MSDKSELKAELEKQRLAQIREKKRKEEERKKKETDQKKEAVAPVQEEESDLEKKRREAEALLQSMGLT
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 SMELVHKQSKAVVTSMSFPVGDVNNFVVGSEEGSVYTACRHGSKAGISEMFEGHQGPITGIHCHAAVGA
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 PTASISVEGNPALNRVRWTHSGREIAVGDSGQIYIVDVGQIAVPRNDEWARFGRTLAEINANRADAEE
 EAATRIPA

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI
 CTATAGGCGCGCGGAATTCGCTGACTGGATCCGGTACCGAGAGATCTGCCGCCGATCGCCGCCGCGCAGATCT
 HindIII NheI RsrII MluI NotI XhoI GFP Tag
 CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC - - - -
 T R T R P L E M E S D - - -
 PmeI FseI
 - - - GAA GAA AGA GTT TAA ACGGCCGCCGCGGAGCT
 - - - E E R V Stop

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: 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

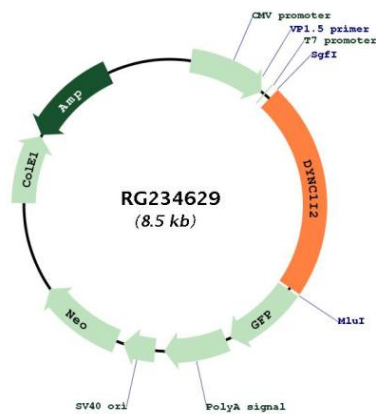
Locus ID: 1781

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]

Product images:



Circular map for RG234629