

Product datasheet for **RG226881**

DYNCIII (NM_001135556) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	DYNCIII
Synonyms:	DNCII; DNCIC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence: >RG226881 representing NM_001135556
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTCTGACAAAAGTGACTTAAAGCTGAGCTAGAGCGCAAAAAGCAGCGCTTAGCACAGATAAGAGAAG
 AGAAGAAACGGAAGGAAGAGGAGAGGAAAAAGAGGCTGATATGCAGCAGAAGAAAGAACCCGTTCA
 GGACGACTCTGATCTGGATCGCAACGACGAGAGACAGAGGCTTTGCTGCAAGCATTGGTATCTCACCG
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 GCTGCAGTCAGACTCAGAAGTTGGAAGAAGACTGCATAAACTGGGCGTGTCAAAGGTCAACCAAGTGGAT
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 GTATTTGGGTCTATGACGTTGGAGAGCTTGCAAGTCCCCACAATGATGAATGGACCCGATTGTCAGGAC
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

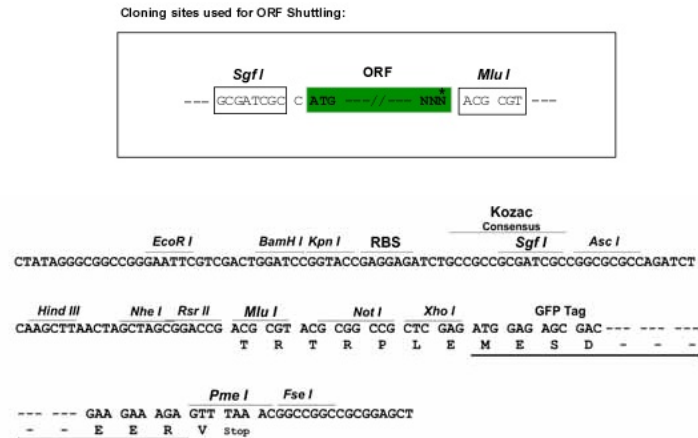
Protein Sequence: >RG226881 representing NM_001135556
 Red=Cloning site Green=Tags(s)

MSDKSDLKAELEKKQRLAQIREKKRKEEERKKKEADMQQKKEPVQDDSDLDKRKRETEALLQSIGISP
 EPPLVPTMSPSSKSVSTPSEAGSQDSDLGPLTRTLQWDTDPVLQLQSDSELGRRLHKLGVSKVTQVD
 FLPREVVSYSKETQTPATHQSEDEEDEEMVESKVGQDSELENQDKKQEVKEAPPRELTEEEKQIIHS
 EEFLIFFDRTIRVIERALAEDSDIFFDYSGRELEEKDGDVQAGANLSFNRQFYDEHCSKHRVVTMDWSL
 QYPELMVASYNNDAPHEPDGVALVWNMKFKTTPEYVFHCQSSVMSVCFARFHPNLVVGTYSGQIVL
 WDNRSRRTPVQRTPLSAAATHPVYCVNVVGTQNAHNLITVSTDGKMCSWSLDMLSTPQESMELVYNKS
 KPVAVTGMAFPTGDVNNFVVGSEEGTVYACRHGSKAGIGEVFEHGHQGPVTGINCHMAVGPIDFSLHFLT
 SSFDWTVKLWTTKHKNPLYSFEDNADYVYDVMWSPVHPALFACVDGMGRDLWNLNNDTEVPTASVAIEG
 ASALNRVWAQAGKEVAVGDSEGRIVVYDVGELAVPHNDEWTRFARTLVEIRANRADSEEGTVELSA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001135556

ORF Size: 1884 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.

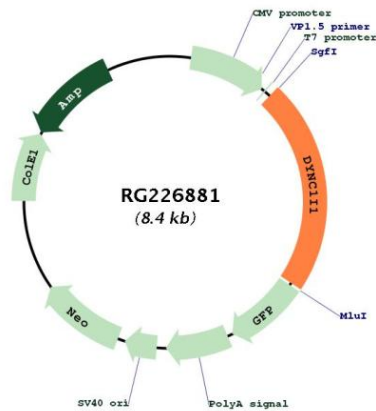
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001135556.1](#), [NP_001129028.1](#)

RefSeq Size: 3010 bp
RefSeq ORF: 1887 bp
Locus ID: 1780
UniProt ID: [Q14576](#)
Cytogenetics: 7q21.3

Gene Summary: Acts as one of several non-catalytic accessory components of the cytoplasmic dynein 1 complex that are thought to be involved in linking dynein to cargos and to adapter proteins that regulate dynein function. Cytoplasmic dynein 1 acts as a motor for the intracellular retrograde motility of vesicles and organelles along microtubules. The intermediate chains mediate the binding of dynein to dynactin via its 150 kDa component (p150-glued) DCNT1. May play a role in mediating the interaction of cytoplasmic dynein with membranous organelles and kinetochores.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG226881