

Product datasheet for **RC235408**

DYNC2H1 (NM_001377) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DYNC2H1 (NM_001377) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DYNC2H1
Synonyms:	ATD3; DHC1b; DHC2; DNCH2; DYH1B; hdhc11; SRPS2B; SRTD3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC235408 representing NM_001377 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**GCGATCGCC**

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Protein Sequence:

>RC235408 representing NM_001377
Red=Cloning site Green=Tags(s)

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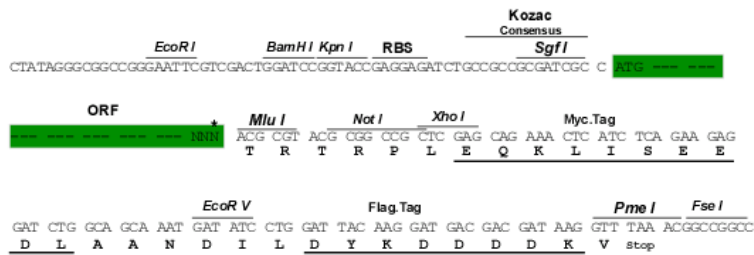
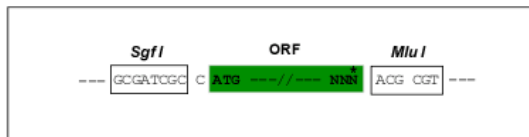
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 RYMTFLHVYSAISSSSKKKELLKRQSHLQAGVSKLNEAKALVDELNRKAGEQSVLLKTKQDEADAALQMIT
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 LLENAIYGGRIDNYFDLRLVLSYLKQFFNSSVIDVFNQRNKSIFPYSVSLPQSCSILDYRAVIEKIPED
 DKPSFFGLPANIARSSQRMIS SQVISQLRILGRSITAGSKFDREIWSNELSPVLNLWKKLNQNSNLIHQK
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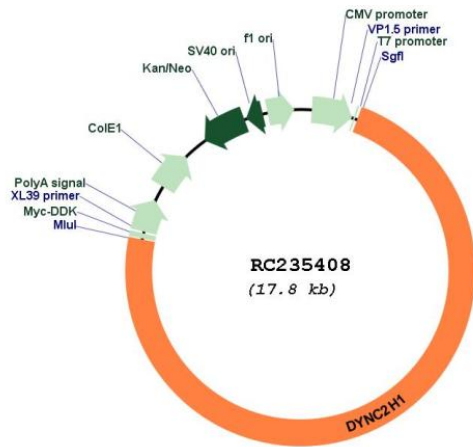
Restriction Sites:
 Cloning Scheme:

SgfI-MluI

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001377

ORF Size: 12921 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001377.3
RefSeq Size:	13678 bp
RefSeq ORF:	12924 bp
Locus ID:	79659
UniProt ID:	Q8NCM8
Cytogenetics:	11q22.3
MW:	493.1 kDa
Gene Summary:	This gene encodes a large cytoplasmic dynein protein that is involved in retrograde transport in the cilium and has a role in intraflagellar transport, a process required for ciliary/flagellar assembly. Mutations in this gene cause a heterogeneous spectrum of conditions related to altered primary cilium function and often involve polydactyly, abnormal skeletogenesis, and polycystic kidneys. Alternative splicing results in multiple transcript variants encoding distinct proteins. [provided by RefSeq, Jan 2010]