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Product datasheet for RG219822

DYNLL1 (NM_001037494) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DYNLL1 (NM_001037494) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DYNLL1
Synonyms:	DLC1; DLC8; DNCL1; DNCLC1; hdlc1; LC8; LC8a; PIN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219822 representing NM_001037494 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTGCGACCGAAAGGCCGTGATCAAAAATGCGGACATGTCGGAAGAGATGCAACAGGACTCGGTGGAGT GCGCTACTCAGGCGCTGGAGAAATACAACATAGAGAAGGACATTGCGGCTCATATCAAGAAGGAATTTGA CAAGAAGTACAATCCCACCTGGCATTGCATCGTGGGGAGGAACTTCGGTAGTTATGTGACACATGAAACC AAACACTTCATCTACTTCTACCTGGGCCAAGTGGCCATTCTTCTGTTCAAATCTGGT ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
Protein Sequence:	>RG219822 representing NM_001037494 Red=Cloning site Green=Tags(s) MCDRKAVIKNADMSEEMQQDSVECATQALEKYNIEKDIAAHIKKEFDKKYNPTWHCIVGRNFGSYVTHET KHFIYFYLGQVAILLFKSG TRTRPLE - GFP Tag - V
Chromatograms:	https://cdn.origene.com/chromatograms/ja1776_e11.zip
Restriction Sites:	SgfI-MluI

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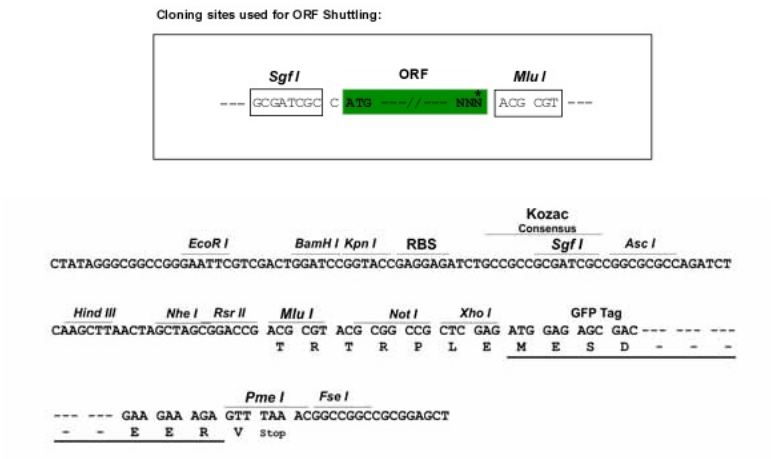
Cloning Scheme:



ACCN: NM_001037494

ORF Size: 267 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).

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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_001037494.2

RefSeq Size: 820 bp

RefSeq ORF: 270 bp

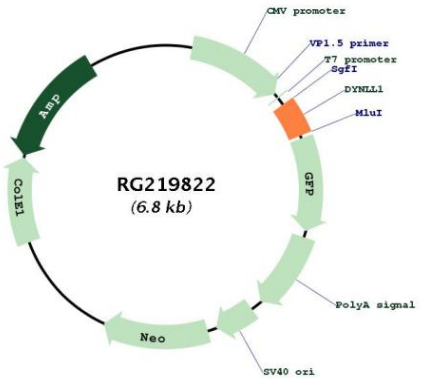
Locus ID: 8655

UniProt ID: P63167

Cytogenetics: 12q24.31

Gene Summary: Cytoplasmic dyneins are large enzyme complexes with a molecular mass of about 1,200 kD. They contain two force-producing heads formed primarily from dynein heavy chains, and stalks linking the heads to a basal domain, which contains a varying number of accessory intermediate chains. The complex is involved in intracellular transport and motility. The protein described in this record is a light chain and exists as part of this complex but also physically interacts with and inhibits the activity of neuronal nitric oxide synthase. Binding of this protein destabilizes the neuronal nitric oxide synthase dimer, a conformation necessary for activity, and it may regulate numerous biologic processes through its effects on nitric oxide synthase activity. Alternate transcriptional splice variants have been characterized. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG219822

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