

## Product datasheet for **MG200454**

### Dynlt1b (NM\_009342) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dynlt1b (NM\_009342) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Dynlt1b  
**Synonyms:** AGS2; Dynlt1; Tctex-1; Tctex1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG200454 representing NM\_009342  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGC

ATGGAAGACTTCCAGGCCTCAGAGGAGACTGCATTTGTTGTTGATGAAGTGAGCAGCATTGTAAAGGAGG  
CTATAGAAAGCGCCATCGGTGGTAATGCCTACCAGCACAGCAAAGTCAACCAGTGGACCACTAATGTCCT  
AGAACAGACTTTGAGCCAACTACCAAAGTGGGAGACCATTAAATACATTGTGACCTGTGTGATCATG  
CAGAAGAACGGTGCTGGGTTACACTCCGCAAGTTCCTGCTTCTGGGACAGCTCCACAGACGGAAGCTGCA  
CAGTCCGATGGGAGAACAAGACCATGTACTGCATCGTCAGTACCTTCGGACTGTCCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG200454 representing NM\_009342  
Red=Cloning site Green=Tags(s)  
 MEDFQASEETAFFVVDEVSSIVKEAIESAIGGNAYQHSKVNQWTTNVLEQTLSQLTKLGRPFKYIVTCVIM  
 QKNGAGLHSASSCFWDSSTDGSCTVRWENKTMVICVSTFGLSI

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI


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## Cloning Scheme:



ACCN: NM\_009342

ORF Size: 339 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\\_009342.2](#), [NP\\_033368.1](#)

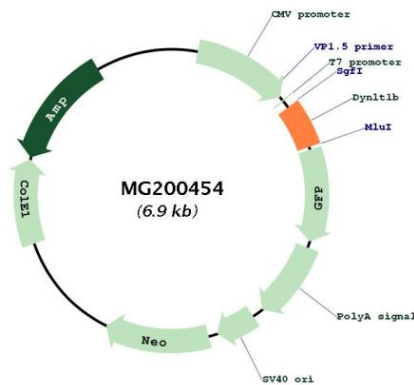
RefSeq Size: 791 bp

RefSeq ORF: 342 bp

Locus ID: 21648  
 UniProt ID: [P51807](#)  
 Cytogenetics: 17 3.97 cM

**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. Binds to transport cargos and is involved in apical cargo transport such as rhodopsin-bearing vesicles in polarized epithelia (By similarity). May also be a accessory component of axonemal dynein. Plays an important role in male germ cell development and function. Candidate for involvement in male sterility.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MG200454