

Product datasheet for MG201775

Myo3b (BC034907) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Myo3b (BC034907) Mouse Tagged ORF Clone

Tag: TurboGFP Symbol: Myo3b

Synonyms: A430065P19Rik

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG201775 representing BC034907

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

CATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201775 representing BC034907

Red=Cloning site Green=Tags(s)

MDEEIEAEYNILQFLPSHPNVVKFYGMFYKADRCVGGQLWLVLELCNGGSVTELVKGLLRCGKRLDEAVI SYILYGALLGLQHLHCHRIIHRDVKGNNILLTTEGGVKLVDFGVSAQLTSTRLRRNTSVGTPFWMAPEVI

ACEQQYDSSYDARCDVWSLGITAIELGDGDPPLFEMHPVKMLFKIPSI

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



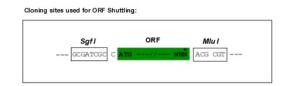
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

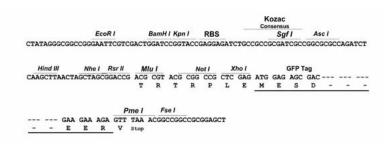
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Cloning Scheme:





ACCN: BC034907 **ORF Size:** 564 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:
 BC034907.1

 RefSeq Size:
 1363 bp

 RefSeq ORF:
 566 bp

 Locus ID:
 329421

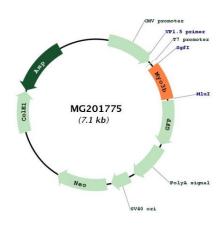
 Cytogenetics:
 2 C2



Gene Summary:

Probable actin-based motor with a protein kinase activity (By similarity). Required for normal cochlear hair bundle development and hearing. Plays an important role in the early steps of cochlear hair bundle morphogenesis. Influences the number and lengths of stereocilia to be produced and limits the growth of microvilli within the forming auditory hair bundles thereby contributing to the architecture of the hair bundle, including its staircase pattern (PubMed:26754646). Involved in the elongation of actin in stereocilia tips by transporting the actin regulatory factor ESPN to the plus ends of actin filaments (PubMed:22264607). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG201775