

Product datasheet for MC225173

Myo7b (NM_032394) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myo7b (NM_032394) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Myo7b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC225173 representing NM_032394 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCGTGTTCCGGCTGGGTGACCATGTGTGGCTGGACCCTCCCTCCAGCAGCAAGACTGGTGTGGCCA
TTGGGGCATTGTCAAAGAAACAAAACCTGGGAAAGACCTTGATTGAGGATGACGAGGGCAAGGAACACTG
GGTCCATGCAGAAGACCTCAGCACCCCTCAGGCCTATGCACCCAACTCAGCCCAAGGAGTGGATGACATG
ATCCGCCTAGGGGACCTGAATGAGGCTGGTGTGGTGCACAACCTCCTGATCCGGTACCAGCAGCACAAGA
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GCAGGTACAAATCTACTACAGCCGCCACATGGGGGAGCTGCCTCCCACATCTTCGCCATTGCCAACAGC
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GCCGCTTCCCACAGGGGACAGATGTCACTATGCTGCAGAACTGAACAGTATCCATGCCAACAAACAGTC



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CTTCCTGAGCCCCAGGAGCATCCATGACACCCGATTTGGGATCGCACACTTCGCGGGCGATGTATACTAC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_032394
- Insert Size:** 6342 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_032394.3](#), [NP_115770.2](#)
- RefSeq Size:** 6591 bp
- RefSeq ORF:** 6342 bp
- Locus ID:** 17922
- UniProt ID:** [Q99MZ6](#)

Cytogenetics: 18 17.89 cM

Gene Summary: Myosins are actin-based motor molecules with ATPase activity. Their highly divergent tails are presumed to bind to membranous compartments, which would be moved relative to actin filaments. As part of the intermicrovillar adhesion complex/IMAC plays a role in epithelial brush border differentiation, controlling microvilli organization and length. May link the complex to the actin core bundle of microvilli.[UniProtKB/Swiss-Prot Function]