

Product datasheet for **MR215788**

Myo7b (NM_032394) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myo7b (NM_032394) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Myo7b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR215788 representing NM_032394 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >MR215788 representing NM_032394
 Red=Cloning site Green=Tags(s)

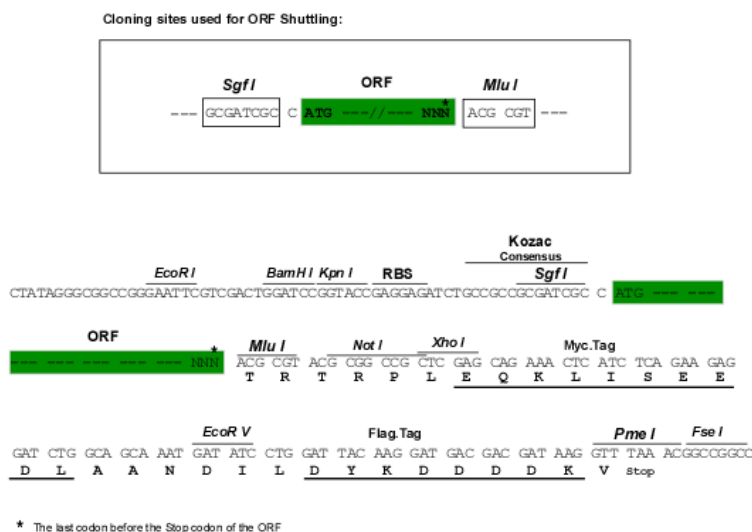
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9107_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM 032394

ORF Size: 6339 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.

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

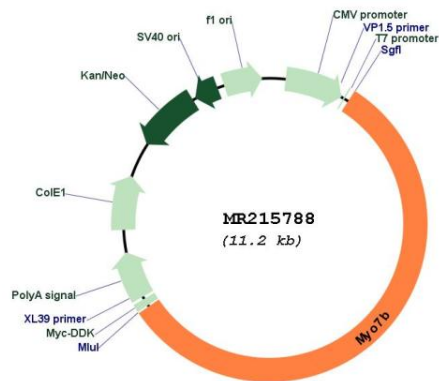
UniProt ID: [Q99MZ6](#)

Cytogenetics: 18 17.89 cM

MW: 240.9 kDa

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]

Product images:



Circular map for MR215788