

Product datasheet for **MC207189**

Myo3b (BC034907) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myo3b (BC034907) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Myo3b
Synonyms:	A430065P19Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC207189 representing BC034907 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGAGGAGATTGAGGCTGAATACAACATTCTGCAGTTTCTCCCAGCCATCCCAACGTTGTAAGT
TTTATGGGATGTTTTACAAAGCCGATCGCTGTGTGGGAGGACAGCTATGGCTGGTTCTGGAGCTGTGTA
TGGGGCTCTGCACTGAGCTTGTCAAGGGCCTCTGAGGTGCGGCAAGAGGCTGGACGAAGCTGTGATT
TCCTACATTCTGTATGGAGCCCTCTGGGCCTCAGCATTGCACTGCCACCGAATCATCCACCGAGATG
TGAAGGGGAATAACATTCTCTGACGACAGAAGGAGGAGTTAAGCTCGTTGACTTTGGTGTCTCTGCTCA
ACTTACAAGCACACGGCTGCGGAGAAACATCAGTTGGGACCCATTCTGGATGGCTCCTGAGGTCATT
GCTTGCAGCAGCAGTATGACTCGTCTATGACGCTCGTTGTGACGTCTGGTCCCTGGGCATCACAGCCA
TTGAGCTGGGAGATGGAGACCCTCCCCTCTTTGAAATGCATCCTGTGAAAATGCTCTTTAAGATACCAAG
CATTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	BC034907
Insert Size:	567 bp



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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:	<ol style="list-style-type: none">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:	<u>BC034907.1</u>
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]