

Product datasheet for MR231557

Myo1b (NM_001290982) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Myo1b (NM_001290982) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Myo1b
Synonyms: AA406997; MIH-L; MMIa
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR231557 representing NM_001290982
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCAAAATGGAGGTGAAATCCTCACTTCTGGACAATATGATCGGTGTTGGAGATATGGTTCTTTTAG
 AGCCGCTCAATGAGGAGACGTTTCATCGACAACCTGAAGAAGCGCTTCGACCACAATGAGATATATACATA
 CATTGGGAGCGTGGTTATATCTGTTAACCCCTACCGGTCCTTGCCCATATATTCGCCGGAGAAAGTGAA
 GATTACAGAAATAGAAACTTCTATGAACTGAGCCCTCACATCTTTGCTTTGTCGGATGAAGCATACAGAT
 CCCTCCGTGATCAAGATAAAGATCAATGCATTCTCATTACTGGGAGAGTGGAGCAGGAAAAACAGAGGC
 CAGCAAGCTCGTCATGTCTATGTCTGCTGCCGTGTGCGGAAAAGGAGCAGAAAGTCAATCAGGTCAAGGAA
 CAGCTTCTGCAGTCCAACCCTGTCTGGAAGCTTTTGGAAATGCCAAGACTGTGAGGAAATGACAACATCAT
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ATTATGCTGGCAAGGTGCTCTACCAGGTGGAAGGATTTGTTGACAAGAACAATGACCTTCTGTACCGGGA
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 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR231557 representing NM_001290982
 Red=Cloning site Green=Tags(s)

MAKMEVKSLLDNMIGVGMVLLLEPLNEETFIDNLKRFHDHNEIYTYIGSVVISVNPYRSLPIYSPEKVE
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 QLLQSNPVEAFGNAKTVRNDNSRFGKYMDIEFDKGDPLGGVISNYLLEKSRVVKQPRGERNFHFVYQ
 LLSGASELLYKLERDFSRYNLSDSAKVNVDAAANFRVVRNAMQIVGFLDHEAEAVLEVAAVLK
 LGNIEFKPESRVNGLDESKIKDKNELKEICELTSDQVLERAFSFRTEAKQEKVSTTLNVAQAYYARD
 ALAKNLYSRLFSWLVNRINESIKAQTKVRKVMGVLDIYGFEIFEDNSFEQFIINYNCKEKLQQIFIELTL
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 KQRLEDLATLIQIYRGWKRTHFLMKRSQVVAAWYRRYAQQKRYQQIKSSALVIQSYIRGWKARKIL
 RELKHQKRCKEAATTIAAYWHGTQVRREYRKFFRANAGKKIYEFTLQRIVQKYLLEMKNKMPSLSPIDKN
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 EINKNPKYKLLKDAIEEKIIIEVNVKINRANGKSTRIFLLTNNLLADQKSGQIKSEVPLVDVTKVS
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

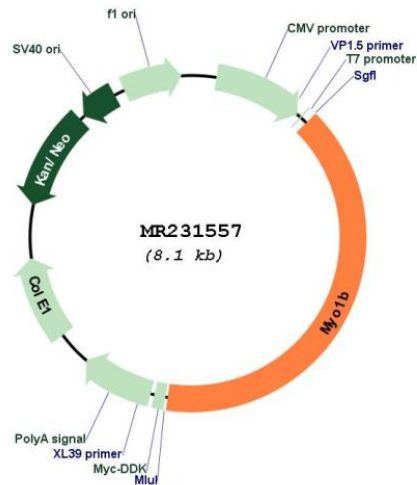
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001290982

ORF Size: 3234 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.

| | |
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| 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>NM_001290982.1, NP_001277911.1</u> |
| RefSeq Size: | 4879 bp |
| RefSeq ORF: | 3237 bp |
| Locus ID: | 17912 |
| Cytogenetics: | 1 26.58 cM |
| MW: | 125.5 kDa |
| Gene Summary: | Motor protein that may participate in process critical to neuronal development and function such as cell migration, neurite outgrowth and vesicular transport.[UniProtKB/Swiss-Prot Function] |