

Product datasheet for RN217725

Myo9b (NM_001271066) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Myo9b (NM_001271066) Rat Untagged Clone
Tag: Tag Free
Symbol: Myo9b
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN217725 representing NM_001271066
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGAGTGCTCACGAGGCTGGCAGCTCAGGCCGAAGCGGGCCGACCTCCACCTGCACATCTACCTC
 AGCTGCCAGTGGTGGGAGCCAGACCTCATGCCGTGTAACCGCCACCAAGGACAGCACAAACAGCGATG
 CATCCGAGACGTGGTGGCCAGTCTACACCTGGACGGCTCGAAGCACTATGTGCTGGTGGAGGTGAAGGAG
 TCGGGTGGGAGGAGTGGGTGCTGGATGCCAGCGACTCGCTGTGCACCGAGTGTGCTGTGGCCTCGGC
 GAGCGCAGAAGGAGCACCTCGGAGGACGGCTACTACTTCTGTGTCAGGAGCGCAACGCTGACGGCAG
 CATTACGTACCTGCACGTGCAGCTGCTGGCTCAGCCCACAGCCGATGTCGCTGGTGGAGCGAGGGCTG
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 AGAGCCTGAAGTGCCTTCGTGCAGCAGAAGATCTACACGTACGCGGCAGCATCCTGGTGGCCATCAA
 CCCCTCAAGTTCCTGCCATTTACAACCCCAAGTATGTGAAGATGTACGAGAACCAGCAGCTGGGAAAG
 CTGGAGCCGCACGTGTTGCTCTGGCCGATGTAGCCTACTACCCATGCTGCGCAAGCACGTGAACCAGT
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 AGCGCTCAGCCAGAAGGGCTACGCCAGCGCGTGCAGAGGACCATCCTGGGTGCAGGGCCTGTGCTGGAG
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 CCAGGAGAAGGATGAGCGGAACCTACCATGTGTTTTATTCTGCTGCTGGGCGTCAGTGAGGAAGAGCGT
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 GAGAAGACCTCAAACATGACTTTGAAAGGCTTCAGCAGCCATGGAGATGGTGGGCTTCTACCTGCCAC
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 TGTCCATTGGCGTCTGGACATATTCGGATTTGAGGACTTTGAACGGAACAGCTTCGAGCAGTTTTGCAT
 CAACTACGCCAACGAGCAGTTGCAGTACTTCAACCAGCACATCTTCAAGCTGGAGCAGGAGGAGTAC



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CAGGGTGAGGGTATCTCGTGGCACAACATTGACTACACCGACAACGTGGGCTGTATCCACCTCATCAGCA
 AGAAGCCCACTGGCCTCTTCTACCTGCTGGACGAGGAAAGCAACTTTCCCATGCCACAAGCCCACTCT
 GCTGGCCAAATCAAGCAGCAGCATGAGGACAACAAGTACTTCTGGGCACACCAAGTCTGGAGCCCGCC
 TTCATCATCCAGCACTTCGCAGGCAGAGTAAAGTACCAGATCAAGGACTTCCGGGAGAAGAACATGGACT
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 AGGCCCGCCAGCCTGACCTAGACAGCAGGGTTAGCCAGTGTCCCCAGCAGCTCCCTGGAATCCCCC
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 GATCCAACGGTACCAACACCCGGACACAGAGCGGCTAGCCACTGCTGTGGAGATATGGCGAGGCAAGAAG
 CTCGCCAGTGCCATGCTGAGCCAATCCCTGGACCTGAGTGAGAAGCCCGGACTGCAGGGGCAGCCCTGA
 CTCCCACAGAGGAGAGGCGCATCTCTTCTCCACCAGTGTGCTCCAAGCTGTCCCCGGTCAAGACTTC
 AACTGAAGTCGATGGGGATCTGAGCGCCAAGAAGCCAGCCGGCCATAAGAAGAAGTCAGAAGACCCATCT
 GCTGGTCCCGATGACGGCCTGCCACAGGCTCCAGGGTACTCTAAATCGCTTTAAGCGACTTCTCC
 TGCACAAAAGCAAGGATAAGAAGCCAGCCTGGAGGGTGTGGAGGAGACAGAGGGCAGTGGAGGGCAGGC
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 GAGAAGCCTCTAAAAGGGAAGAAGAACCAGAAATCGTAAGGTCCGACAGATCACAGTGTCCGAGAAGTGGC
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 GGTGAATGACCTTCGCTCACAGAAGACACCCATCGAGAGCTTGTTCATTGAGGCCACTGAGCGTTTCAGG
 AGCAATATCAAGACCATGTATTCTGTGCCTAACGGGAAGATCCATGTAGGCTACAAGGACTTGATGGAGA
 ACTACCAGATCGTTGTCAGTAACTGGCTGCCAGCGTGGGGAGAAGGACACCAACTGGTCTCAATGT
 CTTCCAGTCACTGCTGGATGAATCACTCGCAGCTACAACAAGACTGACTTTGAGCCGGTCAAGGGCAA
 GCCCAGAAGAAGAAGAGGAAGCAGGAGCGTGTGTCCAGGAACACAATGGACATGTTTTGCCAGCTACC
 AAGTGAACATCCCGCAGTCGTGTGAGCAGTGTCTGTCTACATCTGGCTCATGGACAAGGCCCTGCTATG
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 CGGAGGAAGAGTGAAGTGGGTGCCGAACCAAGGCCACTTCGGCGTGTGTGTAGACAGCCTGACCAGTGACA
 AGGCCTCCGTGCCATTGTGCTGGAGAAGCTTCTGGAACATGTAGAGATGCATGGCTGTATACCGAGGG
 TCTTTACCGCAAGTCAGGCGCTGCCAACCGGACACGGGAATTACGCCAGGCTCTGCAGACAGACCCTGCT
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CTGAGCCACTCATGACTTTTGCCAGTATGGAGACTTCCTCAGGGCTGTTGAGCTTCCAGAGAAGCAGGA
 GCAGCTGGCTGCCATCTATGCAGTCTGGACCCTGCCTGAAGCCAACCACACCTCCCTGGAGAGGCTC
 ATCTTCCACCTTGTCAAAGTGGCCCTGCTTGAAGATGTGAACCGCATGTCTCCGGGAGCTTAGCTATCA
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 GATTACCACGTGTGTGGAGATGCTCATCAAGGAACAGATGAGGAAATACAAGGTGAAGATGGAGGAGATC
 AACCACCTGGAGGCAGCTGAGAGCATTGCGTTCGCGAGGCTCTCCCTGCTGAGGCAGAATGCCCGTGCC
 CTCTCAAACCTGGGGTTTTTCGCTCCCTATGAGGGGGTCCGACCAAAGCCCAAGGACCCAGTGGTCCA
 AGACTTGAGGAGCTGGGGGCTCTCCCCGAGGAGCGGCAGGTGGTGACGAGGACCGGGAAAAGGAGATT
 CTCATGGAGAGGATTCAGTCCATCAAAGAAGAGAAGGAGGACATCACATATCGACTGCCGGAGCTGGACC
 CACGGGGTTCTGACGAGGAGAACCTTGACTCAGAGACATCAGCCAGCACTGAGAGCCTGCTGGAGGAGAG
 GGCCGTGCGGGGGCCGCGAGAAGGTCAC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001271066
- Insert Size:** 6051 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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:** NM_001271066.1, NP_001257995.1
- RefSeq Size:** 7092 bp
- RefSeq ORF:** 6051 bp
- Locus ID:** 25486
- Cytogenetics:** 16p14

Gene Summary:

displays ATP-dependent binding to actin: binds members of the rho family of GTPases; may play a role in formation of the actin cytoskeleton [RGD, Feb 2006]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments. Note that the sequence AJ888904.1 is chimeric. Only the Myo9b sequence region was propagated into this RefSeq record.