

Product datasheet for RN217723

Myo9b (NM_001271067) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Myo9b (NM_001271067) 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: >RN217723 representing NM_001271067
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGAGTGCTCACGAGGCTGGCAGCTCAGGCCGAAGCGGGCCGACCTCCACCTGCACATCTACCTC
 AGCTGCCAGTGGTGGGAGCCAGACCTCATGCCGTGTAACCGCCACCAAGGACAGCACAAACAGCGATG
 CATCCGAGACGTGGTGGCCAGTCTACACCTGGACGGCTCGAAGCACTATGTGCTGGTGGAGGTGAAGGAG
 TCGGGTGGGAGGAGTGGGTGCTGGATGCCAGCGACTCGCCTGTGCACCGAGTGTGCTGTGGCCTCGGC
 GAGCGCAGAAGGAGCACCTCGGAGGACGGCTACTACTTCTGTGCAGGAGCGCAACGCTGACGGCAG
 CATTACGTACCTGCACGTGCAGCTGCTGGCTCAGCCACAGCCGATGTCGCTGGTGGAGCGAGGGCTG
 CTGCCAAGGCCTCAAGCGGACTTCGACGACCTGTGCAACCTGCCGGAGCTGAACGAGGCCAACCTGCTGC
 AGAGCCTGAAGTGCCTTCGTGCAGCAGAAGATCTACACGTACGCGGGCAGCATCCTGGTGGCCATCAA
 CCCCTTCAAGTTCCTGCCATTTACAACCCCAAGTATGTGAAGATGTACGAGAACCAGCAGCTGGGAAAG
 CTGGAGCCGCACGTGTTGCTCTGGCCGATGTAGCCTACTACCCATGCTGCGCAAGCACGTGAACCAGT
 GCATCGTCATCTCTGGTGTGAGAGCGGGTCCGGCAAGACGCAAAAGCACCAACTTCTCATCCACTGCCTCAC
 AGCGCTCAGCCAGAAGGGCTACGCCAGCGCGTGCAGAGGACCATCCTGGGTGCAGGGCCTGTGCTGGAG
 GCTTTTGGGAACGCCAAGACAGCCACAACAACACTCCAGCCGCTTCGGGAAGTTCATCCAAGTCAACT
 ACCTGGAGAGTGGCATCGTGAGGGGAGCTGTTGTGAAAAATACCTTCTTGAAGTCTCGCCTGGTTTC
 CCAGGAGAAGGATGAGCGGAACCTACCATGTGTTTTATTCTGCTGCTGGGCGTCAGTGAGGAAGAGCGT
 CAGGAATTCAGCTGAAGCAGCCTCAAGACTATTTCTACCTCAACCAGCATAACTTGAATATTGAAGATG
 GAGAAGACCTCAAACATGACTTTGAAAGGCTTCAGCAGCCATGGAGATGGTGGGCTTCTACCTGCCAC
 GAAGAAGCAGATCTTCTGTCTCTCAGCCATCCTGTATCTTGGCAATGTCACCTATAAGAAGAGAGCC
 ACAGGCCGGGATGAAGGCCTGGAGTCCGGCCCCCGGAGGTATTGGACACACTATCCAGCTCCTGAAGG
 TAAAGCGGAGACCTTGGTGGAGTCTTAACCAAGAGAAAAACAATCACGGTCAATGACAAACTCATCCT
 GCCTTACAGCCTCAGTGAGGCTATCACTGCACGAGACTCCATGGCTAAGTCTCTGTACAGCGCCCTGTTT
 GACTGGATTGTGCTGAGGATCAACCACGCCCTCTCAACAAGAAGGACATGGAAGAGGCTGTTTCTGTCT
 TGTCCATTGGCGTCTGGACATATTCGGATTTGAGGACTTTGAACGGAACAGCTTCGAGCAGTTTTGCAT
 CAACTACGCCAACGAGCAGTTGCAGTACTTCAACCCAGCACATCTTCAAGCTGGAGCAGGAGGAGTAC



View online »

CAGGGTGAGGGTATCTCGTGGCACAACATTGACTACACCGACAACGTGGGCTGTATCCACCTCATCAGCA
 AGAAGCCCACTGGCCTCTTCTACCTGCTGGACGAGGAAAGCAACTTTCCCATGCCACAAGCCCACTCT
 GCTGGCCAAATCAAGCAGCAGCATGAGGACAACAAGTACTTCTGGGCACACCAGTCTGGAGCCCGCC
 TTCATCATCCAGCACTTCGCAGGCAGAGTAAAGTACCAGATCAAGGACTTCCGGGAGAAGAACATGGACT
 ACATGCGGCCTGACATCGTGGCACTGCTAAGGGCAGTACAGCTCCTATGTGCGCAACTCATCGGCAT
 GGACCCGGTAGCTGTGTTCCGCTGGGCTGTATTACGGGCAGCCATCAGGGCCATGGCTGTGCTGCGGGAG
 GCTGGGCGCCTGCGTGCAGAGAGAGCAGAAAAGCAGAAGCAGGTGTAAGTAGTCTGTCACTCGAAGTC
 ACGTGGAAAGAGCTGCCAAGAGGAGCCAAACCCCTTCAGAGAAAAGTGTACCGCTGCGCAGGGCTAGACTT
 CTCTTTGAGCGCTCTGAGGAGCTGGATGTTAACGCTTTTGAGGACATCATGGCTTTCTATGAGAGCAGG
 AACGATTTGCATAACCAAATCATCAAGAGCCTCAAAGGACTGCCATGGCAGGGGAGGACCCGCGGAGGC
 TTCTCCAGTCCCTCAGTCGGCTCCAGAAGCCCGCACCTTCTTCTGAAGAGTAAAGGTATCAAACAAA
 GCAGATCATTCCCAAGAACTGCTGGACTCTAAGTCCCTGAGGCTCATCATCAGCATGACGCTGCATGAC
 CGAACTACCAAGTCACTGCTGCACCTGCACAAGAAGAAGCCGCCAGCATCAGTGCACAGTTCAGAG
 CATCTCTTAACAAGCTGTTGGAGGCGCTGGGAAGGCTGAGCCCTTCTTCCATCCGCTGCATTCGCTCCAA
 TGCCGAGAAGAAGGAGCTCTGCTTTGATGATGAGCTGGTCTTACGCAACTGCGCTACACAGGCATGCTG
 GAGACCGTGGCATCCGCGCTCTGGCTACAGCGCAAGTACACCTTCCAGGACTTCACGGAGCAGTTC
 AGGTGCTGCTGCCAAGGATGTCCAGCCCTGTAGGGAGGCCATTGCTGCCTGTTGGAGAAGCTGCAGGT
 GGACAGGCAGAATAACCAGATCGGGAAGACGAAGTCTTCTGAAGGAGACAGAGCGGCAGGCCCTGCAG
 GAGAGGCTGCATGGTGGAGTCTTACGCAGGATCCTGCTGCTGCAGAGTTGGTCCGGATGGTGTGGAAC
 GCAGGCACTTTGTGCAGATGAAGCATGCTGCCCTGACCATCCAGGCTGCTGGCGGTCTTATCGTGTGCG
 CCGTACACTGGAGAGGACGCGGGCAGCTGTGTATCTTACGGCTGCCTGGAGAGGCTACCTGCAGAGACAG
 GCCTACCACCACCAGAGGCATAGCATCATCCGCTGCAGAGCCTTCCGCTGGCCACCTACAGCGCAGGA
 GCTTCAGCCAGATGATGTTAGAGAAGCAGAAGGCAGAGCAAGCCAGGGAGACTGCAGGACGAGATGTC
 AGAGGGAGAGCCAGCCCTGTGGCCGCTGGGGAGCAGCCGTCTGAGCACCTGTGGAGGACCTGAGAGC
 CTGGGTGTGGAGACTGAGACCTGGATGAACAGCAAGTCCCAAATGGCTTGTACCTAAGAAGGAGATCC
 CCAGCCCGGAGATGGAGACCCAGCCAAAAACAGTGCAGCTGAAAGTCATGAGAAAAGTCCCAAGTAG
 CCGGGAGAAGCGAGAGTACGCGCGCAGCGAGGGTTGGAGCATGTTGAACGACAGAACAAACACATCCAA
 TCCTGCAGGGAGGAGAATAGCACCTCCGAGAACCTCCAGAAAGGCAAGCCTGGAACAGGGGAGAGCT
 TCCCTGAGGACACAAAGGAGCCAGAGAAGATGGACTTGAGACATGGACTGAGACCGCAGCCCCCTCTTG
 TCCAAAGCAGGTCCGATTGTGGGAGATCCGCTAGGAGTCCCAGTCCCTGCAGAGGCCCGCCAGCCTG
 GACCTAGACAGCAGGGTTAGCCAGTGTCCCCAGCAGTCCCTGGAATCCCCCAGGATGAGGACAAGG
 GTGAGAACAGCACCAAGTTCAGGACAAGCCCGAGAGTCCAGTGGCTCCACCCAGATCCAACGGTACCA
 ACACCCGGACACAGAGCGGCTAGCCACTGCTGTGGAGATATGGCGAGGCAAGAAGCTCGCCAGTGCCATG
 CTGAGCCAATCCCTGGACCTGAGTGAGAAGCCCGGACTGCAGGGGCAGCCCTGACTCCCACAGAGGAGA
 GGCGCATCTCCTTCTCCACCAAGTGTCTCCAAGTGTCCCGGTCAAGACTTCAACTGAAGTCGATGG
 GGATCTGAGCGCCAAGAAGCCAGCCGGCCATAAGAAGAAGTCAGAAGACCCATCTGCTGGTCCCGATGCA
 GGCCTGCCACAGGCTCCAGGGTACTTAAATCTGCCTTTAAGCGACTTCTCTGCACAAAGCCAAGG
 ATAGAAGCCAGCCTGGAGGGTGTGGAGGAGACAGAGGGCAGTGGAGGGCAGGCTGCACAGGAGGCC
 GGCCAGGAAGACTCTAGATGTACCTTCTAGCCAGCAGCACCGCCACACCAGGCGAGAAGCCTTAAAA
 GGGAAAGAAGAACCGAAATCGTAAGGTCCGACAGATCACAGTGTCCGAGAAGTGGCGAGAGTCGGTGTCC
 GTAAGATCACTAATGCCAACGAGCTCAAGTTTCTGGATGAGTTCTGCTCAACAAGGTGAATGACCTTCG
 CTCACAGAAGACACCCATCGAGAGCTTGTTCATTGAGGCCACTGAGCGTTTTCAGGAGCAATATCAAGACC
 ATGATTTCTGTGCCTAACGGGAAGATCCATGTAGGCTACAAGGACTTGTGGAGAATAACCAGATCGTTG
 TCAGTAACCTGGCTGCCGAGCGTGGGAGAAGGACACCAACCTGGTCTCAATGTCTTCCAGTCACTGCT
 GGATGAATTCCTCGCAGCTACAACAAGACTGACTTTGAGCCGGTCAAGGGCAAAGCCAGAGAAGAAG
 AGGAAGCAGGAGCGTGTGTCCAGGAACACAATGGACATGTGTTGCCAGCTACCAAGTGAACATCCCGC
 AGTCGTGTGAGCAGTGTCTGTCTACATCTGGCTCATGGACAAGGCCCTGCTATGCAGTGTGTGCAAGAT
 GACCTGCCACAAGAAATGTGTGACAAGATTAGAGCTATTGCTCTACTGGACGGAGGAAGAGTGAG
 CTGGGTGCCGAACCAGGCCACTTCGCGCTGTGTGTAGACAGCCTGACCAGTGACAAGGCCTCCGTGCCCA
 TTGTGCTGGAGAAGCTTCTGGAACATGTAGAGATGCATGGCCTGTATACCGAGGGTCTTTACCGCAAGTC
 AGGCGCTGCCAACCGGACACGGGAATTACGCCAGGCTCTGCAGACAGACCCTGCTACAGTTAAGCTGGAG
 GACTTCCCATCCACGCCATCACCGGGTCTGAAGCAATGGCTGCGGGAGCTGCCTGAGCCACTCATGA

CTTTTGCCAGTATGGAGACTTCCTCAGGGCTGTTGAGCTTCCAGAGAAGCAGGAGCAGCTGGCTGCCAT
 CTATGCAGTCCTGGACCCTGCCTGAAGCCAACCACACCTCCCTGGAGAGGCTCATCTTCCACCTTGTC
 AAAGTGGCCCTGCTTGAAGATGTGAACCGCATGTCTCCGGGAGCTCTAGCTATCATCTTCGCGCCCTGCC
 TGCTTCGCTGCCCTGACAACCTCCGACCCCTGACCAGCATGAAGGACGTACTAAAGATTACCACGTGTGT
 GGAGATGCTCATCAAGGAACAGATGAGGAAATACAAGGTGAAGATGGAGGAGATCAACCACCTGGAGGCA
 GCTGAGAGCATTGCGTTCGCGAGGCTCTCCCTGCTGAGGCAGAATGCCCGTGGCCTCTCAAACCTGGGGT
 TTTGCTCCCTATGAGGGGGTCCGACCAAAAGCCCCAGGACCCAGTGGTCCAAGACTTGGAGGAGCT
 GGGGGCTCTCCCGAGGAGCGGCAGGTGGTACGAGGACCGGGAAAAGGAGATTCTCATGGAGAGGATT
 CAGTCCATCAAAGAAGAGAAGGAGGACATCACATATCGACTGCCGGAGCTGGACCCACGGGGTTCTGACG
 AGGAGAACCTTGACTCAGAGACATCAGCCAGCACTGAGAGCCTGCTGGAGGAGAGGGCCGTGCGGGGGGC
 CGCAGAAGGTCACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001271067
Insert Size:	6036 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:	<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_001271067.1, NP_001257996.1</u>
RefSeq Size:	7077 bp
RefSeq ORF:	6036 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 (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but lacks an alternate internal segment compared to 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 AJ888905.1 is chimeric. Only the Myo9b sequence region was propagated into this RefSeq record.