

## Product datasheet for RN217436

### Myo1a (NM\_019324) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Myo1a (NM_019324) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Myo1a
Synonyms:	BBMI; MIHC; Myh1; Myhl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN217436 representing NM_019324 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTCTCCTGGAAGGTTCCGTGGGGTGGAGGATCTCATCCTCCTGGAGCCTCTGGATGAGGAGTCTC  
TGATCAAGAACCTCCAACCTCGTTATGAGAAAAAGAGATTTATACGTACATTGGGAATGTGGTATCTC  
CATGAACCCCTACCAGCAGCTTCTATCTATGGCCAGAGTTTATTGCCAAATACCGGGACTATACCTTC  
TATGAGCTGAAGCCCCACATCTATGCTTTGGCAAACGTGGCCTACCAGTCGCTGAAGGATCGGGACCGGG  
ACCAGTGTATCCTGATCACTGGCGAGAGTGGAGCTGGCAAGACTGAGGCTAGTAAGCTAGTGATGCCTA  
TGTGGCTGCTGTCTGTGGAAAGGGGAGCAGGTGAACTCGGTGAAGGAGCAGCTGCTTCAGTCAAACCCA  
GTGCTGGAAGCATTGGCAATGCCAAGACCATCCGCAATGACAACCTCCTCTCGATTTGAAAAATACATGG  
ACATCGAGTTTGACTTCAAAGGGTCCCCCTTGGAGGTGTCATTACCAACTATCTGCTTGAGAAGTCCAG  
AGTGGTGAAGCAACTCAAAGGGGAAAGGAATTCCATATCTTCTATCAGCTGCTGGCTGGAGCAGACACA  
CAGCTGCTGAAGGCCCTAAAGCTTGAGGAAGATGCACGTGGCTATGCCTACCTAATGGGGAGGTGCCA  
GGGTGAACGGTATGGATGATGCCTCCAACCTCAGGGCTGTGCAGAACGCAATGGCAGTGATTGGGTTCTC  
AGAGGAGGAGATTAGACAAGTGTGGAGGTGACAGCCCTGGTACTGAAGCTGGCAATGTGAAGCTGGCA  
GATGAATTCAGGCCAACGGGCTTCCAGCCAGTGGTGTCTGTGATGGGAAAGGATTCAGGAGATTGGGG  
AGATGATGGGTTTGAACCTGCAGAACTAGAGAAAGCTTTGTGCTCAAGAACCATGGAGACAGGCAAGA  
GAAGGTGGTCACGGTGTGAACGTCATCCAGGCTCAGTATGCTCGGGATGCCCTGGCCAAGAATATTTAC  
AGCCGCTCTTCGACTGGATAGTGAATCGCATCAACGAGAGCATCAAGGTGGGCACTGGGGAGAAGAGGA  
AGGTTATGGGGTCTGGATATCTACGGCTTTGAGATACTGGAGGATAACAGCTTTGAGCAGTTCGTGAT  
CAACTACTGCAATGAAAACTACAGCAGGTGTTTATAGAAGTACCTTGAAGGAAGAAGCAGGAGGAATAT  
AAGAGAGAAGGCATACCATGGACAAAGGTGGAGTACTTTGACAACGGCATCATCTGTGACCTCATTGAAC  
ATAGTCAGCGAGGCATCCTGGCCATGCTGGATGAGGAGTGCCTGAGACCTGGGGTGGTCACTGACACCAC  
TTTTCTAGCAAAGTTGAACCAGCTTTTCTCCAAGCACAGTCACTACGAGAGTAAAGTCACCCAGAATGCT



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CAGCGCCAATACGACCGCACCATGGGCCTCAGCTGCTTCCGCATCTGCCACTATGCGGGCAAGGTGACAT  
 ACAACGTGACCAGTTTCATCGACAAGAATAACGACCTACTCTCCGAGACCTATCCCAGACAATGTGGAA  
 GGCCAGCATCCCCTCCTCCACTCCCTGTTCCAGAGGGGAATCCAAGGAAGCATCTCTCAAACGGCCC  
 CCGACTGCTGGGACCCAGTTTAAAGAATTCGGTGGCCATACTCATGAAGAACCTGTATTCTAAGAACCCGA  
 ACTACATCAGGTGCATAAAGCCCAATGACCAGCAGCAGCAAGGCAGGTTACCTCAGAAGTGGTTATGGT  
 CCAGGCTCGATACCTGGGGCTGCTGGAGAATGTTCCGGTGCCAGGGCTGGCTACGCCTCCGCCAGGCC  
 TATAAGCCTTTCCCTGGAGAGGTACCGATTGCTGAGCCGGAGCAGTGGCCGCGCTGGAATGGGGAAGACC  
 GGAAGGTGTGGAGAAGTCTGGGGTCTCTGATTTTGTATCAGAGGAGCTGGCCTATGGGAGGACAAA  
 GATCTTCATCAGAAGCCCAAGACTCTTTTCTACCTGGAAGAACAAGGCGCCTGAGGCTTCAGCAGCTG  
 GCCACCCTCATCCAGAAGGTTTACCGGGCTGGCGTTGTCGGACCCACTACCAGCAGATGCGGAAGAGTC  
 AGATCCTCATCTCGGCTTGGTTTCGGGGCAACAAGCAAAAAGCACTATGGGAAGATCCGGTCATCAGT  
 ACTGCTGATCCAGGCTTTCGTGAGGGGCTGGAAGGCCCGCAAGAATACTCGAAAATACTCCGGTCAAGC  
 GCCCCATCACTTTGGCAAATTTATCTACCAGAGCATAACCCAGAAATCCTCTGAATCTGAAGAAGA  
 ATTTGCCATCCACAAAGTGTGGACAACACGTGGCCAGCTGCCCTTACAGGTGCTTCAACACAGCCAA  
 TCAGAACTGCAGCACCTTCTACCAGTGAAGTGAAGAAGTACCGAGATCAGCTGTCCCGAAGCAG  
 GTGCAGACACTGAGGGAAAAGCTCTGTGCCAGCGAACTGTTAAGGGCAAGAAGGCTTCTACCTCCAGA  
 GCGTGCCTGTCCCTTTCGTGGTGATTACGTCCGCTGCAGGGGAACCCAAAGCTGCAGAGACTGAAGGG  
 CAGGGAGGAAGGGCTGTCTGGTGGCAGACACCGTGAAGAAGTCAACCGTGGCAATGGCAAGACTTCT  
 TCACGGATTCTCCTCTGACCAAGGGGCATGTGATTCTCACAGATGCCAAGAAGTCCCAGGCCAAATTTG  
 TCATTAAGCTGGAGGATGTGGCTGGGGTGTGAGTACCAGCCTCGAGGACGGGCTCTTGTAGCTTGCATCT  
 GAGTGAGATGTCGTCGGCAGCCTCAAGGGGACATCTGCTAATCAGCGACCACCTGGTTGAAGTGTCT  
 ACAAAAATGTACCAAGCAGTGTGGATGCCACACAGAGGCAGCTTCTGTCACTGTGACTGAGAAGTTCT  
 CAGTGAGGTTCAAGGAGGCAGTGTGGCTGTCAAGGTTACCCAGGCCCCAGGGGAGTGGGAACAGAAA  
 GCTGACTTGCAAGAAGAAGGGGAGTAGTTCTATGGAGGTGACTGTGCGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_019324
- Insert Size:** 3132 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\\_019324.1](#), [NP\\_062197.1](#)  
RefSeq Size: 3332 bp  
RefSeq ORF: 3132 bp  
Locus ID: 299509  
Cytogenetics: 7q22  
Gene Summary: myosin isoform that connects actin filaments to the membrane in intestinal microvilli [RGD, Feb 2006]