

Product datasheet for **SC303631**

MYO1A (NM_005379) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYO1A (NM_005379) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYO1A
Synonyms:	BBMI; DFNA48; MIHC; MYHL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_005379 edited
 GACTGGCACAGGGAGCCTGGGCTGGAAGAGGCAGCAAAAGGGAAAATCAGAAGAGTGGAC
 ACTGGCAAGAGGAGGGCAGCCTTTTTCCAGCTTCCTTGACCATGGACAGCTCCCATT
 AGCCACCTCTCCATCCTGGGGCCAGGACTTTATGCCCCATTCCGTCAAATTGAGATTT
 CATCCACCATTCTCCAAGGACAGTGAAGTTATACCCTAGTTCCAGTGTTGGGATCAGTGG
 CCCCTCTGGACATGCCTCTCCTGGAAGTTCTGTGGGGTGGAGGATCTGTCTCTCTGG
 AACCTTGGTGGAGGAGTCACTGCTCAAGAATCTTCAGCTTCGCTATGAAAACAAGGAGA
 TTTATACCTACATTGGGAATGTGGTGATCTCAGTGAATCCCTATCAACAGCTTCCCATCT
 ATGGGCCAGAGTTCATTGCCAAATATCAAGACTATACTTTCTATGAGCTGAAGCCCATA
 TCTACGCATTGGCAAATGTGGCGTACCAGTCACTGAGGGACAGGGACCGAGACCAGTGA
 TCCTCATCACAGGCGAGAGTGGATCAGGGAAGACTGAGGCCAGCAAGCTGGTGATGTCTT
 ATGTGGCTGCCGTCTGTGGGAAAGGAGAGCAGGTGAACTCTGTGAAGGAGCAGCTGCTAC
 AGTCTAACCCAGTGCTGGAGGCTTTTGGCAATGCCAAGACCATTTCGCAACAACAATTCCT
 CCCGATTTGGAAAATACATGGATATTGAATTTGACTTCAAGGGATCCCCCTCGGTGGT
 TCATCACAAACTATCTGCTTGAGAAATCCCGATTAGTGAAGCAGCTCAAAGGAGAAAGGA
 ACTTCCACATCTTCTATCAGCTGCTGGCTGGAGCAGATGAACAGCTGCTGAAGGCCCTGA
 AGCTTGAGCGGGATACTGCTATGCCTATCTGAATCATGAAGTATCCAGAGTGGATG
 GCATGGACGACGCTCCAGCTTCAGGGCTGTACAGAGTGAATGGCAGTGATTGGGTTCT
 CGGAGGAGGAGATTCGACAAGTGTAGAGGTGACATCCATGGTGTAAAGCTGGGGAACG
 TGTTGGTGGCTGATGAGTTCCAGGCCAGTGGGATACCAGCAAGTGGCATCCGTGATGGGA
 GAGGTGTTCTGGGAGATTGGGAGATGGTGGCTTGAATTCAGAAGAAGTAGAGAGAGCTT
 TGTGCTCGAGGACCATGGAAACAGCCAAGGAAAAGGTGGTCACTGCACTGAATGTTATGC
 AGGCTCAGTATGCTCGGGACGCCCTGGCTAAGAACATCTACAGCCGCTCTTTGACTGGA
 TAGTGAATCGAATCAATGAGAGCATCAAGGTGGGCATCGGGGAAAAGAAGGTAATGG
 GAGTCCTTGATATCTACGGTTTTGAGATATTAGAGGATAATAGCTTTGAGCAATTTGTA
 TCAACTACTGCAATGAGAAGCTGCAGCAGGTGTTATAGAGATGACCCTGAAAGAAGAGC
 AAGAGGAATATAAGAGAGAAGGCATACCGTGGACAAAGGTGGACTACTTTGATAATGGCA



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TCATTTGTAAGCTCATTGAGCATAATCAGCGAGGTATCCTGGCCATGTTGGATGAGGAGT
 GCCTGCGGCTGGGGTGGTCACTGACTCCACTTTCCTAGCAAAGCTGAACCAGCTCTTCT
 CCAAGCATGGCCACTACGAGAGCAAAGTCACCCAGAATGCCAGCGTCAGTATGACCACA
 CCATGGGCTCAGCTGCTCCGCATCTGCCACTATGCGGGCAAGGTGACATACAACGTGA
 CCAGCTTTATTGACAAGAATAATGACCTACTCTCCGAGACCTGTTGCAGGCCATGTGGA
 AGGCCAGCACCCCTCCTTCGGTCTTGTTCCTGAGGGCAATCCTAAGCAGGCATCTC
 TCAAACGCCCCCGACTGCTGGGGCCAGTTCAAGAGTTCTGTGGCCATCCTCATGAAGA
 ATCTGTATTCCAAGAGCCCAACTACATCAGGTGCATAAAGCCCAATGAGCATCAGCAGC
 GAGGTCAGTTCTTTCAGACCTGGTGGCAACCCAGGCTCGGTACCTGGGACTGCTGGAGA
 ACGTACGGGTGCGACGGGAGGCTATGCCACCCAGGTTATGGGCCCTTCTGGAAA
 GGTACCGATTGCTGAGCCGAGCACCTGGCCTCACTGGAATGGGGGAGACCGGGAAGGTG
 TTGAGAAGGTCCTGGGGAGCTGAGCATGTCTCGGGGAGCTGGCCTTTGGCAAGACAA
 AGATCTTCATTAGAAGCCCAAGACTCTTTTCTACCTCGAAGAACAGAGGCGCTGAGAC
 TCCAGCAGCTGGCCACACTCATAACAGAAGATTTACCGAGGCTGGCCTGCCGACCCACT
 ACCAACTGATGCGAAAGAGTCAGATCCTCATCTCTCTTGGTTTCGGGAAACATGCAAA
 AGAAATGCTATGGGAAGATAAAGGCATCCGTGTTATTGATCCAGGCTTTTGTGAGAGGGT
 GGAAGGCCGAAAGAATTATCGCAAATATTTCCGGTCAGAGGCTGCCCTCACCTTGGCAG
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 CCACAAACGTCTTAGACAAGACATGGCCAGCCGCCCTACAAGTGCCTCAGCACAGCAA
 ATCAGGAGCTGCAGCAGCTCTTCTACCAGTGGAAGTGCAAGAGGTTCCGGGATCAGCTGT
 CCCCAGCAGGTAGAGATCCTGAGGGAAAAGCTCTGTGCCAGTGAAGTGTCAAGGGCA
 AGAAGGCTTCATATCCCAGAGTGTCCCATTCCATTCTGTGGTGACTACATTGGGCTGC
 AAGGGAACCCCAAGCTGCAGAAGCTGAAAGCGGGGAGGAGGGCCTGTTCTGATGGCAG
 AGGCCGTGAAGAAGGTCAATCGTGGCAATGGCAAGACTTCTTCTCGGATTCTCCTCTGA
 CCAAGGGCCATGTGATTCTCACAGACACCAAGAAGTCCCAGGCCAAAATTGTCATTGGGC
 TAGACAATGTGGCTGGGGTGTGAGTACCCAGCCTCAAGGATGGGCTCTTAGCTTGCATC
 TGAGTGAGATGTCATCGGTGGGCTCCAAGGGGACTTCTGCTGGTCAGCGAGCATGTGA
 TTGAACTGCTGACCAAAATGTACCGGGCTGTGCTGGATGCCACGCAGAGGCAGCTTACAG
 TCACCGTACTGAGAAGTTCTCAGTGAGGTTCAAGGAGAACAGTGTGGCTGTCAAGGTGC
 TCCAGGGCCCTGCAGGTGGTACAACAGCAAGCTACGCTACAAAAAAGGGGAGTCATT
 GCTTGGAGGTGACTGTGAGTGTGAGGAGGGGACCATGCAGAGATGGCAGTTGCTTCTCT
 CTGAACCAAGCACTAATCCCTCTGCCCTCTGTGTGGGAGGATCTTAACCCCTCTGAT
 CGTGGCGCATGGCTTGGGGATTAACCTACCCCTGAAGAAGAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_005379
- Insert Size:** 3500 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:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM_005379.2.
- 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_005379.2](#), [NP_005370.1](#)

RefSeq Size: 3624 bp

RefSeq ORF: 3132 bp

Locus ID: 4640

UniProt ID: [Q9UBC5](#)

Cytogenetics: 12q13.3

Gene Summary: This gene encodes a member of the myosin superfamily. The protein represents an unconventional myosin; it should not be confused with the conventional skeletal muscle myosin-1 (MYH1). Unconventional myosins contain the basic domains characteristic of conventional myosins and are further distinguished from class members by their tail domains. They function as actin-based molecular motors. Mutations in this gene have been associated with autosomal dominant deafness. Alternatively spliced variants have been found for this gene. [provided by RefSeq, Dec 2011]
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein.