

Product datasheet for **RG209252**

MYO1A (NM_005379) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYO1A (NM_005379) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MYO1A
Synonyms:	BBMI; DFNA48; MIHC; MYHL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209252 representing NM_005379 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTCTCCTGGAAGGTTCTGTGGGGTGGAGGATCTTGTCTCCTGGAACCTTGGTGGAGGAGTCAC
TGCTCAAGAATCTTCAGCTTCGCTATGAAAACAAGGAGATTTATACCTACATTGGGAATGTGGTATCTC
AGTGAATCCCTATCAACAGCTTCCCATCTATGGCCAGAGTTCATTGCCAAATATCAAGACTATACTTTC
TATGAGCTGAAGCCCATATCTACGCATTGGCAAATGTGGCGTACCAGTCACTGAGGGACAGGGACCGAG
ACCAGTGTATCCTCATCACAGGCGAGAGTGGATCAGGGAAGACTGAGGCCAGCAAGCTGGTGATGTCTTA
TGTGGCTGCCGTCTGTGGAAAGGAGAGCAGGTGAACTCTGTGAAGGAGCAGCTGCTACAGTCTAACCCA
GTGCTGGAGGCTTTTGGCAATGCCAAGACCATTGCAACAACAATTCTCCCGATTTGAAAATACATGG
ATATTGAATTTGACTTCAAGGGATCCCCCTCGGTGGTGTATCACAACATCTGCTTGAGAAATCCCG
ATTAGTGAAGCAGCTCAAAGGAGAAAGGAATCCACATCTTCTATCAGCTGCTGGCTGGAGCAGATGAA
CAGCTGCTGAAGGCCCTGAAGCTTGAGCGGGATACAACCTGGCTATGCCTATCTGAATCATGAAGTATCCA
GAGTGGATGGCATGGACGACGCCCTCCAGCTTCAGGGCTGTACAGAGTGAATGGCAGTGATTGGGTTCTC
GGAGGAGGAGATTCGACAAGTGTAGAGGTGACATCCATGGTGTAAAGCTGGGAACGTGTTGGTGGCT
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AGATGGTGGGCTTGAATTCAGAAGAAGTAGAGAGAGCTTTGTGCTCGAGGACCATGGAAACAGCCAAGGA
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AGCCGCCCTCTTTGACTGGATAGTGAATCGAATCAATGAGAGCATCAAGGTGGGCATCGGGGAAAAGAAGA
AGGTAATGGGAGTCCTTGATATCTACGGTTTTGAGATATTAGAGGATAATAGCTTTGAGCAATTTGTGAT
CAACTACTGCAATGAGAAGCTGCAGCAGGTGTTTCATAGAGATGACCCTGAAAGAAGCAAGAGGAATAT
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TTTCTAGCAAAGCTGAACCAGCTTTCTCCAAGCATGGCCACTACGAGAGCAAAGTCAACCAGAATGCC



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CAGCGTCAGTATGACCACACCATGGGCCTCAGCTGCTTCCGCATCTGCCACTATGCGGGCAAGGTGACAT
 ACAACGTGACCAGCTTTATTGACAAGAATAATGACCTACTCTCCGAGACCTGTTGCAGGCCATGTGGAA
 GGCCAGCACCCCTCCTTCGGTCTTGTTCCTGAGGGCAATCCTAAGCAGGCATCTCTCAAACGCCCC
 CCGACTGCTGGGGCCAGTTCAAGAGTTCTGTGGCCATCTCATGAAGAACTGTATTCCAAGAGCCCCA
 ACTACATCAGGTGCATAAAGCCCAATGAGCATCAGCAGCGAGGTGAGTCTCTTCAGACCTGGTGGCAAC
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 GGAAGGTGTTGAGAAGGTCTGGGGGAGCTGAGCATGTCTCGGGGAGCTGGCCTTGGCAAGACAAA
 GATCTTCATTAGAAGCCCAAGACTCTTTTCTACCTCGAAGAACAGAGGCGCCTGAGACTCCAGCAGCTG
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 GAGTGAGATGTATCGGTGGGCTCAAGGGGACTTCTGCTGGTCAGCGAGCATGTGATTGAACTGCTG
 ACCAAAATGTACGGGCTGTGCTGGATGCCACGCAGAGGCAGCTTACAGTCACCGTGACTGAGAAGTCT
 CAGTGAGGTTCAAGGAGAACAGTGTGGCTGTCAAGGTCGTCCAGGGCCCTGCAGGTGGTACAACAGCAA
 GCTACGCTACAAAAAAGGGGAGTCATTGCTTGGAGGTGACTGTGCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG209252 representing NM_005379
 Red=Cloning site Green=Tags(s)

MPLLEGSVGVEDLVLLEPLVEESLLKLNQLRYENKEIYTYIGNVVISVNPYQQLPIYGPEFIAKYQDYTF
 YELKPHIYALANVAYQSLRDRDRDQCILITGESGSKTEASKLVMSYVAAVCGKGEQVNSVKEQLLQSNP
 VLEAFGNAKTIRNNSSRFKGYMDIEFDKGSPLGGVITNYLLEKSRLVKQLKGERNFHIFYQLLAGADE
 QLLKALKLERDITGYAYLNHEVSRVDGMDDASSFRAVQSAMAVIGFSEEEIRQVLEVTSMVLKGNLVA
 DEFQASGIPASGIRDGRGVREIGEMVGLNSEEVERALCSRTMETAKEKVVVALNVMQAQYARDALAKNIY
 SRLFDWIVNRINESIKVIGIEKKVMGVLDIYGFIELEDNSFEQFVINYCNEKLQVFIEMTLKEEQEY
 KREGIPWTKVDYFDNGIICKLIEHNQRGILAMLDEECLRPGVSDSTFLAKLNQLFSKHGHYESKVTQNA
 QRQYDHTMGLSCFRICHYAGKVTYNVTSFIDKNNDLLFRDLLQAMWKAQHPLLRSLFPEGNPKQASLKR
 PTAGAQFKSSVAILMKNLYSKSPNYIRCIKPNHQQRGQFSSDLVATQARYLGLLENVRRRAGYAHRQG
 YGPFLERYRLLSRSTWPHWNGDREGVEKVLGELSMSSGELAFGKTKIFIRSPKTLFYLEEQRRLRLQQL
 ATLIQKIYRGWRCRTHYQLMRKSQILISSWFRGNMQKKCYGKIKASVLLIQAFVIRGWKARKNYRKYFRSE
 AALTLADFIYKSMVQKFLGLKNNLPSTNVLDKTWPAAPYKCLSTANQELQQLFYQWKCKRFRDQLSPKQ
 VEILREKLCASELFGKKAQYQSVPIPCGDYIGLQGNPKLQKLKGEEGPVLMAEAVKKVNRNGKTS
 SRILLLTKGHVILTDTKKQAKIVIGLDNVAGVSVTSLKDGLFSLHLEMSVSVGSKGDFLLVSEHVIELL
 TKMYRAVLDAQRQLTVTVEKFSVRFKENSVAVKVQGPAGGDNKSLRYKKKGSKHCLEVTVQ

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_005379

ORF Size: 3129 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.

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_005379.4](#)

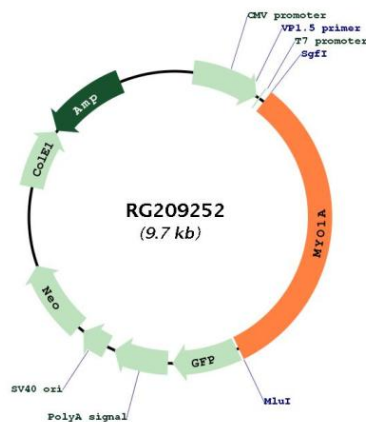
RefSeq Size: 3624 bp

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]

Product images:



Circular map for RG209252