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Product datasheet for SC326647

MYH14 (NM_001145809) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: MYH14 (NM_001145809) Human Untagged Clone

Tag: Tag Free

Symbol: MYH14

Synonyms: DFNA4; DFNA4A; FP17425; MHC16; MYH17; myosin; NMHC-II-C; NMHC II-C; PNMHH

Vector: pCMV6 series

Fully Sequenced ORF:

>NCBI ORF sequence for NM_001145809, the custom clone sequence may differ by one or more nucleotides

ATGGCAGCCGTGACCATGTCGGTGCCCGGGCGGAAGGCGCCCCCCAGGCCGGGCCCAGTG
CCCGAGGCGGCCCAGCCGTTCCTGTTCACGCCCCGCGGGCCCAGCGCGGGTGGCGGGCCT
GGCTCGGGCACCTCCCCGCAGGTGGAGTGGACGGCCCGGCGTCTCGTGTGGGTGCCTTCG
GAGCTTCACGGGTTCGAGGCGGCGGCGCTGCGGGACGAAGGCGAGGAGGAGGCGGAGGTG
GAGCTGGCGGAGAGCGGGAGGCGGCTGCGACTGCCGCGGGACCAGATCCAGCGCATGAAC
CCGCCCAAGTTCAGCAAGGCCGAGGACATGGCCGAGCTGACCTGCCTCAACGAGGCCTCG
GTCCTGCACAACCTCCGGGAGCGGTACTACTCCGGCCTCATCTACACGTACTCCGGCCTT
TTCTGTGTGGTCATCAACCCGTACAAGCAGCTTCCCATCTACACAGAAGCCATTGTGGAG
ATGTACCGGGGCAAGAAGCGCCACGAGGTGCCACCCCACGTGTACGCAGTGACCGAGGGG
GCCTATCGGAGCATGCTGCAGGATCGTGAGGACCAGTCCATTCTCTGCACTGGAGAGTCT
GGAGCTGGGAAGACGGAAAACACCAAGAAGGTCATCCAGTACCTCGCCCACGTGGCGTCG
TCTCCAAAGGGCAGGAAGGAGCCGGGTGTCCCCGCCTCCGTCAGCACCGTGTCTTATGGT
GAGCTGGAGCGGCAGCTGCTTCAGGCCAACCCCATCCTAGAGGCCTTTGGCAATGCCAAG
ACAGTGAAGAATGACAACTCCTCCCGATTCGGCAAATTCATCCGCATCAACTTTGATGTT
GCCGGGTACATCGTGGGCGCCAACATTGAGACCTACCTGCTGGAGAAGTCGCGGGCCATC
CGCCAGGCCAAGGACGAGTGCAGCTTCCACATCTTCTACCAGCTGCTGGGGGGCGCTGGA
GAGCAGCTCAAAGCCGACCTCCTCCTCGAGCCCTGCTCCCACTACCGGTTCCTGACCAAC
GGGCCGTCATCCTCTCCCGGCCAGGAGCGGGAACTCTTCCAGGAGACGCTGGAGTCGCTG
CGGGTCCTGGGATTCAGCCACGAGGAAATCATCTCCATGCTGCGGATGGTCTCAGCAGTT
CTCCAGTTTGGCAACATTGCCTTGAAGAGAGAACGGAACACCGATCAAGCCACCATGCCT
GACAACACAGCTGCACAGAAGCTCTGCCGCCTCTTGGGACTGGGGGTGACGGATTTCTCC
CGAGCCTTGCTCACCCCTCGCATCAAAGTTGGCCGAGACTATGTGCAGAAAGCCCAGACT
AAGGAACAGGCTGACTTCGCGCTGGAGGCCCTGGCCAAGGCCACCTACGAGCGCCTCTTC
CGCTGGCTGGTTCTGCGCCTCAACCGGGCCTTGGACCGCAGCCCCCGCCAAGGCGCCTCC
TTCCTGGGCATCCTGGACATCGCGGGCTTTGAGATCTTCCAGCTGAACTCCTTCGAGCAG
CTCTGCATCAACTACACCAACGAGAAGCTGCAGCAGCTCTTCAACCACACCATGTTCGTG
CTGGAGCAGGAGGAGTACCAGCGTGAGGGCATCCCCTGGACCTTCCTCGACTTTGGCCTC
GACCTGCAGCCCTGCATCGACCTCATCGAGCGGCCGGCCAACCCCCCTGGACTCCTGGCC
CTGCTGGATGAGGAGTGCTGGTTCCCGAAGGCCACAGACAAGTCGTTTGTGGAGAAGGTA

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GCCCAGGAGCAGGGCGGCCACCCCAAGTTCCAGCGGCCGAGGCACCTGCGGGATCAGGCC
GACTTCAGTGTTCTCCACTACGCGGGCAAGGTCGACTACAAGGCCAACGAGTGGCTGATG
AAAAACATGGACCCTCTGAATGACAACGTCGCAGCCTTGCTCCACCAGAGCACAGACCGG
CTGACGGCAGAGATCTGGAAAGACGAACATGGGGGCTTCCAGCAGTTCTCTTTCCTTGGC
TCCTTCCCACCGTCGCCCCCAGGATCTGCAGAGAGGTGCAGCTCTGCTATTTCTCCGCCA
GGGGTGGAGGGCATCGTGGGGCTGGAACAGGTGAGCAGCCTGGGCGACGGCCCACCAGGT
GGCCGCCCCCGTCGGGGTATGTTCCGGACAGTGGGACAGCTCTACAAGGAGTCCCTGAGC
CGCCTCATGGCCACACTCAGCAACACCAACCCCAGTTTTGTCCGCTGCATTGTCCCCAAC
CACGAGAAGAGGGCCGGGAAGCTGGAGCCACGGCTGGTGCTGGACCAGCTTCGCTGCAAC
GGGGTCCTGGAGGGCATCCGCATCTGTCGCCAGGGCTTCCCCAACCGCATCCTCTTCCAG
GAGTTCCGGCAGCGATACGAGATCCTGACACCCAATGCCATCCCCAAGGGCTTCATGGAT
GGGAAGCAGGCCTGTGAAAAGATGATCCAGGCGCTGGAACTGGACCCCAACCTCTACCGC
GTGGGACAGAGCAAGATCTTCTTCCGGGCTGGGGTCCTGGCCCAGCTGGAAGAGGAGCGA
GACCTGAAGGTCACCGACATCATCGTCTCCTTCCAGGCAGCTGCCCGGGGATACCTGGCT
CGCAGGGCCTTCCAGAAGCGCCAGCAGCAGCAGAGCGCCCTGAGGGTGATGCAGCGGAAC
TGCGCGGCCTACCTCAAGCTGAGACACTGGCAGTGGTGGCGGCTGTTTACCAAGGTGAAG
CCACTGCTGCAGGTGACGCGGCAGGATGAGGTGCTGCAGGCACGGGCCCAGGAGCTGCAG
AAAGTGCAGGAGCTACAGCAGCAGAGCGCCCGCGAAGTTGGGGAGCTCCAGGGCCGAGTG
GCACAGCTGGAAGAGGAGCGCGCCCGCCTGGCAGAGCAATTGCGAGCAGAGGCAGAACTG
TGTGCAGAGGCCGAGGAGACGCGGGGGAGGCTGGCAGCCCGCAAGCAGGAGCTGGAGCTG
GTGGTGTCAGAGCTGGAGGCTCGCGTGGGCGAGGAGGAGGAGTGCAGCCGTCAAATGCAA
ACCGAGAAGAAGAGGCTGCAGCAGCACATACAGGAGCTAGAGGCCCACCTTGAGGCTGAG
GAGGGTGCGCGGCAGAAGCTGCAGCTGGAGAAGGTGACGACAGAGGCAAAAATGAAGAAA
TTTGAAGAGGACCTGCTGCTCCTGGAAGACCAGAATTCCAAGCTGAGCAAGGAGCGGAAG
CTGCTGGAAGATCGTCTGGCCGAGTTCTCATCCCAGGCAGCTGAGGAGGAGGAGAAGGTC
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GAGAGCTCAGAGCTGCAGGAGCAGATGGTGGAGCAGCAACAGCGGGCAGAGGAGCTGCGG
GCCCAGCTGGGCCGGAAGGAGGAGGAGCTGCAGGCTGCCCTGGCCAGGGCAGAAGACGAG
GGTGGGGCCCGGGCCCAGCTGCTGAAATCCCTGCGGGAGGCTCAAGCAGCCCTGGCCGAG
GCCCAGGAGGACCTGGAGTCTGAGCGTGTGGCCAGGACCAAGGCGGAGAAGCAGCGCCGG
GACCTGGGCGAGGAGCTGGAGGCGCTGCGGGGCGAGCTGGAGGACACGCTGGACTCCACC
AACGCACAGCAGGAGCTCCGGTCCAAGAGGGAACAGGAGGTGACGGAGCTGAAGAAGACT
CTGGAGGAGGAGACTCGCATCCACGAGGCGGCAGTGCAGGAGCTGAGGCAGCGCCACGGC
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CTGCAGACTGCACGTCAGGAGGGTGAGCAGCGGAGGCGCCGCCTGGAGTTACAGCTGCAG
GAGGTGCAGGGCCGGGCTGGTGATGGGGAGAGGGCACGAGCGGAGGCTGCTGAGAAGCTG
CAGCGAGCCCAGGCTGAACTGGAGAATGTGTCTGGGGCGCTGAACGAGGCTGAGTCCAAA
ACCATCCGTCTTAGCAAGGAGCTGAGCAGCACAGAAGCCCAGCTGCACGATGCCCAGGAG
CTGCTGCAGGAGGAGACCAGGGCGAAATTGGCCTTGGGGTCCCGGGTGCGAGCCATGGAG
GCTGAGGCAGCCGGGCTGCGTGAGCAGCTGGAGGAGGAGGCAGCTGCCAGGGAACGGGCG
GGCCGTGAACTGCAGACTGCCCAGGCCCAGCTTTCCGAGTGGCGGCGGCGCCAGGAGGAG
GAGGCAGGGGCACTGGAGGCAGGGGAGGAGGCACGGCGCCGGGCAGCCCGGGAGGCCGAG
GCCCTGACCCAGCGCCTGGCAGAAAAGACAGAGACCGTGGATCGGCTGGAGCGGGGCCGC
CGCCGGCTGCAGCAGGAGCTGGACGACGCCACCATGGACCTGGAGCAGCAGCGGCAGCTT
GTGAGCACCCTGGAGAAGAAGCAGCGCAAGTTTGACCAGCTTCTGGCAGAGGAGAAGGCA
GCTGTACTTCGGGCAGTGGAGGAACGTGAGCGGGCCGAGGCAGAGGGCCGGGAGCGTGAG
GCTCGGGCCCTGTCACTGACACGGGCACTGGAGGAGGAGCAGGAGGCACGTGAGGAGCTG
GAGCGGCAGAACCGGGCCCTGCGGGCTGAGCTGGAGGCACTGCTGAGCAGCAAGGATGAC
GTCGGCAAGAGCGTGCATGAGCTGGAACGAGCCTGCCGGGTAGCAGAACAGGCAGCCAAT
GATCTGCGAGCACAGGTGACAGAACTGGAGGATGAGCTGACAGCGGCCGAGGATGCCAAG

CTGCGTCTGGAGGTGACTGTGCAGGCTCTCAAGACTCAGCATGAGCGTGACCTGCAGGGC
CGTGATGAGGCTGGTGAAGAGAGGCGGAGGCAGCTGGCCAAGCAGCTGAGAGATGCAGAG
GTGGAGCGGGATGAGGAGCGGAAGCAGCGCACTCTGGCCGTGGCTGCCCGCAAGAAGCTG
GAGGGAGAGCTGGAGGAGCTGAAGGCTCAGATGGCCTCTGCCGGCCAGGGCAAGGAGGAG
GCGGTGAAGCAGCTTCGCAAGATGCAGGCCCAGATGAAGGAGCTATGGCGGGAGGTGGAG
GAGACACGCACCTCCCGGGAGGAGATCTTCTCCCAGAATCGGGAAAGTGAAAAGCGCCTC
AAGGGCCTGGAGGCTGAGGTGCTGCGGCTGCAGGAGGAACTGGCCGCCTCGGACCGTGCT
CGGCGGCAGGCCCAGCAGGACCGGGATGAGATGGCAGATGAGGTGGCCAATGGTAACCTT
AGCAAGGCAGCCATTCTGGAGGAGAAGCGTCAGCTGGAGGGGCGCCTGGGGCAGTTGGAG
GAAGAGCTGGAGGAGGAGCAGAGCAACTCGGAGCTGCTCAATGACCGCTACCGCAAGCTG
CTCCTGCAGGTAGAGTCACTGACCACAGAGCTGTCAGCTGAGCGCAGTTTCTCAGCCAAG
GCAGAGAGCGGGCGGCAGCAGCTGGAACGGCAGATCCAGGAGCTACGGGGACGCCTGGGT
GAGGAGGATGCTGGGGCCCGTGCCCGCCACAAGATGACCATTGCTGCCCTTGAGTCTAAG
TTGGCCCAGGCTGAGGAGCAGCTAGAGCAAGAGACCAGAGAGCGCATCCTCTCTGGAAAG
CTGGTGCGCAGAGCTGAGAAGCGGCTTAAAGAGGTGGTGCTCCAGGTGGAGGAGGAGCGG
AGGGTGGCTGACCAGCTCCGGGACCAGCTGGAGAAGGGAAACCTTCGAGTCAAGCAGCTG
AAGCGGCAGCTGGAGGAGGCCGAGGAGGAGGCATCCCGGGCTCAGGCCGGCCGCCGGAGG
CTGCAGCGTGAGCTGGAAGATGTCACAGAGTCGGCCGAGTCCATGAACCGTGAAGTGACC
ACACTGAGGAACCGGCTTCGACGCGGCCCCCTCACCTTCACCACCCGCACGGTGCGCCAG
GTCTTCCGACTAGAGGAGGGCGTGGCATCCGACGAGGAGGCAGAGGAAGCACAGCCTGGG
TCTGGGCCATCCCCGGAGCCTGAGGGGTCCCCACCAGCCCACCCCCAG

Restriction Sites: Please inquire

ACCN: NM_001145809

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001145809.1, NP_001139281.1
RefSeq Size:	6930 bp
RefSeq ORF:	6111 bp
Locus ID:	79784
UniProt ID:	Q7Z406
Cytogenetics:	19q13.33
Protein Pathways:	Regulation of actin cytoskeleton, Tight junction, Viral myocarditis
Gene Summary:	This gene encodes a member of the myosin superfamily. The protein represents a conventional non-muscle myosin; it should not be confused with the unconventional myosin-14 (MYO14). Myosins are actin-dependent motor proteins with diverse functions including regulation of cytokinesis, cell motility, and cell polarity. Mutations in this gene result in one form of autosomal dominant hearing impairment. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011] Transcript Variant: This variant (3) represents the longest transcript and encodes the longest isoform (3).