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Product datasheet for SC315657

MYH14 (NM_001077186) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: MYH14 (NM_001077186) 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_001077186, 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
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CTGGAGCAGGAGGAGTACCAGCGTGAGGGCATCCCCTGGACCTTCCTCGACTTTGGCCTC
GACCTGCAGCCCTGCATCGACCTCATCGAGCGGCCGGCCAACCCCCCTGGACTCCTGGCC
CTGCTGGATGAGGAGTGCTGGTTCCCGAAGGCCACAGACAAGTCGTTTGTGGAGAAGGTA

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GCCCAGGAGCAGGGCGGCCACCCCAAGTTCCAGCGGCCGAGGCACCTGCGGGATCAGGCC
GACTTCAGTGTTCTCCACTACGCGGGCAAGGTCGACTACAAGGCCAACGAGTGGCTGATG
AAAAACATGGACCCTCTGAATGACAACGTCGCAGCCTTGCTCCACCAGAGCACAGACCGG
CTGACGGCAGAGATCTGGAAAGACGTGGAGGGCATCGTGGGGCTGGAACAGGTGAGCAGC
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CTGGACCAGCTTCGCTGCAACGGGGTCCTGGAGGGCATCCGCATCTGTCGCCAGGGCTTC
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CTGAGGGTGATGCAGCGGAACTGCGCGGCCTACCTCAAGCTGAGACACTGGCAGTGGTGG
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TTGCGAGCAGAGGCAGAACTGTGTGCAGAGGCCGAGGAGACGCGGGGGAGGCTGGCAGCC
CGCAAGCAGGAGCTGGAGCTGGTGGTGTCAGAGCTGGAGGCTCGCGTGGGCGAGGAGGAG
GAGTGCAGCCGTCAAATGCAAACCGAGAAGAAGAGGCTGCAGCAGCACATACAGGAGCTA
GAGGCCCACCTTGAGGCTGAGGAGGGTGCGCGGCAGAAGCTGCAGCTGGAGAAGGTGACG
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CTGAAGCGGAGGCTGGATGGGGAGAGCTCAGAGCTGCAGGAGCAGATGGTGGAGCAGCAA
CAGCGGGCAGAGGAGCTGCGGGCCCAGCTGGGCCGGAAGGAGGAGGAGCTGCAGGCTGCC
CTGGCCAGGGCAGAAGACGAGGGTGGGGCCCGGGCCCAGCTGCTGAAATCCCTGCGGGAG
GCTCAAGCAGCCCTGGCCGAGGCCCAGGAGGACCTGGAGTCTGAGCGTGTGGCCAGGACC
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CTGAACGAGGCTGAGTCCAAAACCATCCGTCTTAGCAAGGAGCTGAGCAGCACAGAAGCC
CAGCTGCACGATGCCCAGGAGCTGCTGCAGGAGGAGACCAGGGCGAAATTGGCCTTGGGG
TCCCGGGTGCGAGCCATGGAGGCTGAGGCAGCCGGGCTGCGTGAGCAGCTGGAGGAGGAG
GCAGCTGCCAGGGAACGGGCGGGCCGTGAACTGCAGACTGCCCAGGCCCAGCTTTCCGAG
TGGCGGCGGCGCCAGGAGGAGGAGGCAGGGGCACTGGAGGCAGGGGAGGAGGCACGGCGC
CGGGCAGCCCGGGAGGCCGAGGCCCTGACCCAGCGCCTGGCAGAAAAGACAGAGACCGTG
GATCGGCTGGAGCGGGGCCGCCGCCGGCTGCAGCAGGAGCTGGACGACGCCACCATGGAC
CTGGAGCAGCAGCGGCAGCTTGTGAGCACCCTGGAGAAGAAGCAGCGCAAGTTTGACCAG
CTTCTGGCAGAGGAGAAGGCAGCTGTACTTCGGGCAGTGGAGGAACGTGAGCGGGCCGAG
GCAGAGGGCCGGGAGCGTGAGGCTCGGGCCCTGTCACTGACACGGGCACTGGAGGAGGAG
CAGGAGGCACGTGAGGAGCTGGAGCGGCAGAACCGGGCCCTGCGGGCTGAGCTGGAGGCA
CTGCTGAGCAGCAAGGATGACGTCGGCAAGAGCGTGCATGAGCTGGAACGAGCCTGCCGG
GTAGCAGAACAGGCAGCCAATGATCTGCGAGCACAGGTGACAGAACTGGAGGATGAGCTG
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CATGAGCGTGACCTGCAGGGCCGTGATGAGGCTGGTGAAGAGAGGCGGAGGCAGCTGGCC

AAGCAGCTGAGAGATGCAGAGGTGGAGCGGGATGAGGAGCGGAAGCAGCGCACTCTGGCC
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GCCGGCCAGGGCAAGGAGGAGGCGGTGAAGCAGCTTCGCAAGATGCAGGCCCAGATGAAG
GAGCTATGGCGGGAGGTGGAGGAGACACGCACCTCCCGGGAGGAGATCTTCTCCCAGAAT
CGGGAAAGTGAAAAGCGCCTCAAGGGCCTGGAGGCTGAGGTGCTGCGGCTGCAGGAGGAA
CTGGCCGCCTCGGACCGTGCTCGGCGGCAGGCCCAGCAGGACCGGGATGAGATGGCAGAT
GAGGTGGCCAATGGTAACCTTAGCAAGGCAGCCATTCTGGAGGAGAAGCGTCAGCTGGAG
GGGCGCCTGGGGCAGTTGGAGGAAGAGCTGGAGGAGGAGCAGAGCAACTCGGAGCTGCTC
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GAGCTACGGGGACGCCTGGGTGAGGAGGATGCTGGGGCCCGTGCCCGCCACAAGATGACC
ATTGCTGCCCTTGAGTCTAAGTTGGCCCAGGCTGAGGAGCAGCTAGAGCAAGAGACCAGA
GAGCGCATCCTCTCTGGAAAGCTGGTGCGCAGAGCTGAGAAGCGGCTTAAAGAGGTGGTG
CTCCAGGTGGAGGAGGAGCGGAGGGTGGCTGACCAGCTCCGGGACCAGCTGGAGAAGGGA
AACCTTCGAGTCAAGCAGCTGAAGCGGCAGCTGGAGGAGGCCGAGGAGGAGGCATCCCGG
GCTCAGGCCGGCCGCCGGAGGCTGCAGCGTGAGCTGGAAGATGTCACAGAGTCGGCCGAG
TCCATGAACCGTGAAGTGACCACACTGAGGAACCGGCTTCGACGCGGCCCCCTCACCTTC
ACCACCCGCACGGTGCGCCAGGTCTTCCGACTAGAGGAGGGCGTGGCATCCGACGAGGAG
GCAGAGGAAGCACAGCCTGGGTCTGGGCCATCCCCGGAGCCTGAGGGGTCCCCACCAGCC
CACCCCCAG

Restriction Sites: Please inquire

ACCN: NM_001077186

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: 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_001077186.1, NP_001070654.1

RefSeq Size: 6831 bp

RefSeq ORF: 6012 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 (1) lacks an alternate in-frame exon in the 5' coding region, compared to variant 3. The resulting isoform (1) lacks an internal segment in the motor domain, compared to isoform 3.