

Product datasheet for **SC308795**

MYH14 (NM_024729) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: MYH14 (NM_024729) 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_024729, the custom clone sequence may differ by one or more nucleotides

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 GGGCCATCCCGGAGCCTGAGGGGTCCACCAGCCACCCCAAGTGA

- Restriction Sites:** Please inquire
- ACCN:** NM_024729
- 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_024729.2](#), [NP_079005.2](#)
- RefSeq Size:** 6786 bp
- RefSeq ORF:** 5988 bp
- Locus ID:** 79784
- UniProt ID:** [Q7Z406](#)

Cytogenetics:	19q13.33
Domains:	Myosin_tail, M
Protein Pathways:	Regulation of actin cytoskeleton, Tight junction, Viral myocarditis
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks two alternate in-frame exons in the 5' coding region, compared to variant 3. The resulting isoform (2) lacks two separate segments in the motor domain, compared to isoform 3.</p>