

Product datasheet for **SC316882**

Myosin (MYH2) (NM_001100112) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myosin (MYH2) (NM_001100112) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYH2
Synonyms:	IBM3; MYH2A; MYHas8; MyHC-2A; MyHC-IIa; MYHSA2; MYPOP
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001100112, the custom clone sequence may differ by one or more nucleotides

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 TCCCAGGTGAACAACTGCGGGTGAAGAGCCGGAGGTTACACAAAAGTCATAAGTGAA
 GAG

Restriction Sites:	Please inquire
ACCN:	NM_001100112
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:	<ol style="list-style-type: none"> 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:	<u>NM_001100112.1</u> , <u>NP_001093582.1</u>
RefSeq Size:	6163 bp
RefSeq ORF:	5826 bp
Locus ID:	4620
UniProt ID:	<u>Q9UKX2</u>
Cytogenetics:	17p13.1
Protein Pathways:	Tight junction, Viral myocarditis

Gene Summary:

Myosins are actin-based motor proteins that function in the generation of mechanical force in eukaryotic cells. Muscle myosins are heterohexamers composed of 2 myosin heavy chains and 2 pairs of nonidentical myosin light chains. This gene encodes a member of the class II or conventional myosin heavy chains, and functions in skeletal muscle contraction. This gene is found in a cluster of myosin heavy chain genes on chromosome 17. A mutation in this gene results in inclusion body myopathy-3. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Sep 2009]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants encode the same protein.