

Product datasheet for **SC123997**

myosin heavy chain 3 (MYH3) (NM_002470) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	myosin heavy chain 3 (MYH3) (NM_002470) Human Untagged Clone
Tag:	Tag Free
Symbol:	myosin heavy chain 3
Synonyms:	CPSFS1A; CPSFS1B; CPSKF1A; CPSKF1B; DA2A; DA2B; DA2B3; DA8; HEMHC; MYHC-EMB; MYHSE1; SMHCE
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002470, the custom clone sequence may differ by one or more nucleotides

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ATGAGTAGTGACTGAAATGGAAGTGTTCGGCATAGCTGCTCCTTCCCGGAAGTCAGAAAAGGAGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002470 unedited
TACGACTCACTATAGGGCGCCGGAATTCGGCACCAGCTTGATTTTTGCCTTCCAAGCT
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TAGCAAGCTAATACAATAGCCTGTTCTTAATAACAACACTGCAAGATTTAGTTTATAGAA
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CAGGTGGGACTCTCAGCTGACACCATGAGTAGTGACACTGAAATGGGAAGTGTTCGCATA
GCTTGCTCTTTTCTCGGAAGTAG

Restriction Sites:

NotI-NotI

ACCN:

NM_002470

Insert Size:

8000 bp

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).

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_002470.1, NP_002461.1

RefSeq Size:

6061 bp

RefSeq ORF:

5823 bp

Locus ID: 4621

UniProt ID: [P11055](#)

Cytogenetics: 17p13.1

Protein Pathways: Tight junction, Viral myocarditis

Gene Summary: Myosin is a major contractile protein which converts chemical energy into mechanical energy through the hydrolysis of ATP. Myosin is a hexameric protein composed of a pair of myosin heavy chains (MYH) and two pairs of nonidentical light chains. This gene is a member of the MYH family and encodes a protein with an IQ domain and a myosin head-like domain. Mutations in this gene have been associated with two congenital contracture (arthrogryposis) syndromes, Freeman-Sheldon syndrome and Sheldon-Hall syndrome. [provided by RefSeq, Jul 2008]