

Product datasheet for SC303712

Myosin Heavy chain 1 (MYH1) (NM_005963) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Myosin Heavy chain 1 (MYH1) (NM_005963) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | MYH1 |
| Synonyms: | HEL71; MYHa; MyHC-2x; MyHC-2X/D; MYHSA1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Fully Sequenced ORF: | >SC303712 representing NM_005963. Blue=Insert sequence Red=Cloning site Green=Tag(s) |

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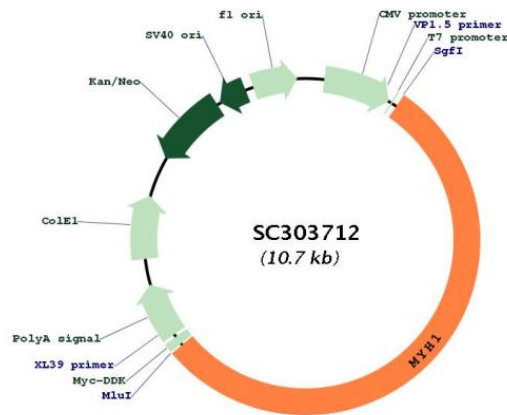
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Restriction Sites:

SgfI-MluI

Plasmid Map:



ACCN:

NM_005963

Insert Size:

5820 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).

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_005963.3](#)

RefSeq Size: 6038 bp

RefSeq ORF: 5820 bp

Locus ID: 4619

UniProt ID: [P12882](#)

Cytogenetics: 17p13.1

Protein Pathways: Tight junction, Viral myocarditis

MW: 223.1 kDa

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. Myosin heavy chains are encoded by a multigene family. In mammals at least 10 different myosin heavy chain (MYH) isoforms have been described from striated, smooth, and nonmuscle cells. These isoforms show expression that is spatially and temporally regulated during development. [provided by RefSeq, Jul 2008]