

Product datasheet for SC114152

Myozenin 2 (MYOZ2) (NM_016599) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Myozenin 2 (MYOZ2) (NM_016599) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Myozenin 2 |
| Synonyms: | C4orf5; CMH16; CS-1; FATZ-2 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC114152 sequence for NM_016599 edited (data generated by NextGen Sequencing) |

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ATGCTATCACATAAATACTATGATGAAGCAGAGAAAACAGCAAGCAACAGCCATCATGAAG
GAAGTCCATGGAAATGATGTTGATGGCATGGACCTGGGCAAAAAGTTCAGCATCCCCAGA
GACATCATGTTGGAAGAATTATCCCATCTCAGTAACCGTGGTCCAGGCTATTTAAGATG
CGTCAAAGAAGATCTGACAAATACACATTTGAAAATTTCCAGTATCAATCTAGAGCACAA
ATAAATCACAGTATTGCTATGCAGAATGGGAAAGTGGATGGAAGTAACTTGAAGGTGGT
TCGCAGCAAGCCCCCTTGACTCCTCCCAACACCCCAGATCCACGAAGCCCTCCAAATCCA
GACAACATTGCTCCAGGATATTCTGGACCACTGAAGGAAATTCCTCTGAAAAATTCAC
ACCACAGCTGTCCCTAAGTACTATCAATCTCCCTGGGAACAAGCCATTAGCAATGATCCG
GAGCTTTTAGAGGCTTTATATCCTAAACTTTTCAAGCCTGAAGGAAAGGCAGAAGTGCCT
GATTACAGGAGCTTTAACAGGGTTGCCACACCATTTGGAGGTTTTGAAAAGCATCAAGA
ATGGTTAAATTTAAAGTTCCAGATTTTGAGCTACTATTGCTAACAGATCCCAGGTTTATG
TCCTTTGTCAATCCCCTTTCTGGCAGACGGTCCTTTAATAGGACTCCTAAGGGATGGATA
TCTGAGAAATTCCTATAGTGATAACAACCGAACCTACAGATGATACCACTGTACCAGAA
TCAGAAGACCTATGA

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Clone variation with respect to NM_016599.4



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_016599 unedited
 AGAATTATGTAATACGACTCACTATAGGGGCGGCCGGAATCGGCACGAGGCCAGAGTCT
 TCCTCCACAACTGGGATTCATCCCCGCTGAAAAACACAATCTAACAGCAAGGGAACAAA
 AAAACCATGCTATCACATAACTATGATGAAGCAGAGAAAACAGCAAGCAACAGCCATC
 ATGAAGGAAGTCCATGGAATGATGTTGATGGCATGGACCTGGGCAAAAAGGTGAGCATC
 CCCAGAGACATCATGTTGGAAGAATTATCCCATCTCAGTAACCGTGGTGCCAGGCTATTT
 AAGATGCGTCAAAGAAGATCTGACAAATACACATTTGAAAAATTTCCAGTATCAATCTAGA
 GCACAAAATAACACAGTATTGCTATGCAGAATGGGAAAAGTGGATGGAAGTAACTTGAA
 GGTGGTTCGCAGCAAGCCCCCTTGACTCCTCCCAACACCCAGATCCACGAAGCCCTCCA
 AATCCAGACAACATTGCTCCAGGATATTCTGGACCACTGAAGGAAATTCCTCCTGAAAA
 TTCAACACCACAGCTGTCCCTAAGTACTATCAATCTCCCTGGGAACAAGCCATTAGCAAT
 GATCCGGAGCTTTTAGAGGCTNTATATCCTAACTTTTCAAGCCTGAAGGAAAGGCAGAA
 CTGCTGATTACAGGAGCTTTAACAGGTTGCCACACCATTTGGAGGNTNNTGAAAAGCA
 TCAAGAATGGTTAATTTAAGNTNCAGATTTTGAGCTACTATTGCTAACAGATCCCCAG
 TTTATGCTCTTTGTCAATCCCCTTCTGGCAGACCGTCTTTTATAGGACTCCTAAGGGA
 TGGATATCTGAGAATATTCCTATAGTGATACCAACCGACCTACAGATGATACCACTGTNC
 CAGAATCGAAGACCTATGAAAAGAAAGNTGTATGTGCCACATAAACTCTGAATATAAA
 GNTGCTGTNCTACTTATTTACTACTGGCAGCCCATGCTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_016599 unedited
 CTTCTTGGCCGCGCCGCAATCTANGATCGAGTTTTTTTTTTTTTTTTTTTTAAATGCCTAA
 TTTTTTTTTTTAAAGATAAAAATGAACAAAAATGGCATGATGGGAGCCTCATTGATAGT
 TTATCACAGATGCCAACATTATCATTAAAACAGGTAACACCAAACTTATAAATAAA
 ATTAAGATATCTTAAGACATCTTAAAAATATACAAATCTCTACAATAATATATATAAA
 TATAACTTTTGTCATTGTTACTTTCTGGGGTTATATTTTCATAAGCAAATTTTTAAAA
 TTTTCTACTTAACAAGTCTAGATGATGATTAACAGTCACCAACTCCACACTACAAA
 CACAGATTTTTTTTTGTAACATGTAATGTTGCAACTGGTATTTTCACTACTACACACA
 GTCCTTCTCCTATCTCCTAACTTTATCTGATAGTTTTCTATTGATGAGACATTTCTTC
 TCTGCTATAAACATCTATCACAGAAGTCTAACTGAATTGAAATGGGAGGAATTGATACT
 GATTTCTATAAGTTATATGTCATATGCTTCTTCAATTATATTTAAGATATAACTATAAC
 TTTATATTAGTTGTGCTTTTATGTCAATATATTACATATATTACGATAGATATGTGCT
 ACATTGCTTTTCAGATACTTCATGCCCTTTGGTTTTGGTTGTGCCCTAAAGCATGTACTCT
 CCAAGTACTTGAAGATCTTANCAGAATTTAAAGATTTAGCANAGAAAGCTGCCAATTCAA
 ATACTTACTCTTCTCCCTCACCAACTGATGATTTATATGGATATTACGGGNACTTT
 AATTGGTCTACTCTCCTAGGAATGCCACCTAAGTTGAACTATTTCATGCCAGCTTGGGGAT
 TGGGAACTTGATTCTGGCACACCCTGGCCTTAACTTG

Restriction Sites:

NotI-NotI

ACCN:

NM_016599

Insert Size:

2380 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_016599.2](#), [NP_057683.1](#)

RefSeq Size: 2532 bp

RefSeq ORF: 795 bp

Locus ID: 51778

UniProt ID: [Q9NPC6](#)

Cytogenetics: 4q26

Gene Summary: The protein encoded by this gene belongs to a family of sarcomeric proteins that bind to calcineurin, a phosphatase involved in calcium-dependent signal transduction in diverse cell types. These family members tether calcineurin to alpha-actinin at the z-line of the sarcomere of cardiac and skeletal muscle cells, and thus they are important for calcineurin signaling. Mutations in this gene cause cardiomyopathy familial hypertrophic type 16, a hereditary heart disorder. [provided by RefSeq, Aug 2011]