

Product datasheet for **SC322546**

Myozenin 1 (MYOZ1) (NM_021245) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myozenin 1 (MYOZ1) (NM_021245) Human Untagged Clone
Tag:	Tag Free
Symbol:	Myozenin 1
Synonyms:	CS-2; FATZ; MYOZ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322546
 GTTTCTCCCTAAGTGCTTCTTTGGATCTCAGGCTCTAGGTGCAATGTGAAGGGGAGTCCC
 TGGGCAGACTGATCCCTGGCTCAGACAGTTCAAGTGGGAGAATCCCAAAGGCCTTTTCCCT
 CCTTCCTGAGCCTCCGGGCAAGGAGGGAGGGATCTTGGTTCCAGGGTCTCAGTACCCCT
 GTGCCATTTGAGCTGCTTGCCTCATCTCTATTAATAACCAACTTCCCTCCCCACT
 GCCAGTCTGCCCCACGCCTGCCAGCTCGTGTCTCCGGTACAGCAGCTCAGTCCCTC
 CAAAGCTGTGGACCCAGGGAGAGCTGACCACTGCCCGAGCAGCCGGCTGAATCCACT
 CCACAATGCCGCTCTCAGGAACCCGGCCCTAATAAGAAGAGGAAATCCAGCAAGCTGA
 TCATGGAACCTCACTGGAGGTGGACAGGAGCTCAGGCTTGAACCTGGGCAAAAAGATCA
 GTGTCCCAAGGGATGTGATGTTGGAGGAACTGTCGCTGCTTACCAACCGGGGCTCCAAGA
 TGTTCAAACCTGCGGCAGATGAGGGTGGAGAAGTTATTTATGAGAACCACCCTGATGTTT
 TCTCTGACAGCTCAATGGATCACTTCCAGAAGTTCCTTCAACAGTGGGGGACAGCTGG
 GCACAGCTGGTCAGGGATTCTCATACAGCAAGAGCAACGGCAGAGGGCGCAGCCAGGCAG
 GGGCAGTGGCTCTGCCGACAGTATGGCTCTGATCAGCAGCACCATCTGGGCTCTGGGT
 CTGGAGCTGGGGTACAGGTGGTCCCGGGCCAGGCTGGCAGAGGAGGAGCTGTGGCA
 CAGCAGGGGTTGGTGAGACAGGATCAGGAGACCAGGCAGGCGGAGAAGGAAAACATATCA
 CTGTGTTCAAGACCTATATTTCCCATGGGAGCGAGCCATGGGGGTTGACCCCCAGCAAA
 AAATGGAACCTGGCATTGACCTGCTGGCCTATGGGGCCAAAGCTGAACTTCCAAATATA
 AGTCTTCAACAGGACGGCAATGCCCTATGGTGGATATGAGAAGGCCTCCAAACGCATGA
 CCTTCCAGATGCCAAGTTTGACCTGGGGCCCTTGCTGAGTGAACCCCTGGTCTCTACA
 ACCAAAACCTCTCAACAGGCCTTCTTTCAATCGAACCCTATTCCCTGGCTGAGCTCTG
 GGGAGCCTGTAGACTACAACGTGGATATTGGCATCCCCTTGGATGGAGAAACAGAGGAGC
 TGTGAGGTGTTTCTCTCTGATTTGCATATTTCCCCTCTCTGGCTCCAATTTGGAGAG
 GGAATGCTGAGCAGATAGCCCCATTGTTAATCCAGTATCCTTATGGGAATGGAGGGAAA
 AAGGAGAGATCTACCTTTCCATCCTTTACTCCAAGTCCCCACTCCACGCATCCTTCTCA
 CCAACTCAGAGCTCCCCTTCTACTTGCTCCATATGGAACCTGCTCGTTTATGGAATTTGC
 TCTGCCACCAGTAACAGTCAATAAACTTCAAGGAAAATGAAAAAAAAAAAAAAAAAAAAAA
 AAA
 AAA

- Restriction Sites:** Please inquire
- ACCN:** NM_021245
- 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_021245.2](#), [NP_067068.1](#)

RefSeq Size: 1661 bp

RefSeq ORF: 900 bp

Locus ID: 58529

UniProt ID: [Q9NP98](#)

Cytogenetics: 10q22.2

Gene Summary: The protein encoded by this gene is primarily expressed in the skeletal muscle, and belongs to the myozenin family. Members of this family function as calcineurin-interacting proteins that help tether calcineurin to the sarcomere of cardiac and skeletal muscle. They play an important role in modulation of calcineurin signaling. [provided by RefSeq, Apr 2012]