

Product datasheet for **SC112943**

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112943 sequence for NM_021245 edited (data generated by NextGen Sequencing)

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ATGCCGCTCTCAGGAACCCCGGCCCTAATAAGAAGAGGAAATCCAGCAAGCTGATCATG
GAACTCACTGGAGGTGGACAGGAGAGCTCAGGCTTGAACCTGGGCAAAAAGATCAGTGTC
CCAAGGGATGTGATGTTGGAGGAACTGTCGCTGCTTACCAACCGGGGCTCCAAGATGTTT
AAACTGCGGCAGATGAGGGTGGAGAAGTTATTTATGAGAACCACCCTGATGTTTTCTCT
GACAGCTCAATGGATCACTTCCAGAAGTTCCTTCCAACAGTGGGGGACAGCTGGGCACA
GCTGGTCAGGGATTCTCATACAGCAAGAGCAACGGCAGAGGGCAGCCAGGCAGGGGGC
AGTGGCTCTGCCGACAGTATGGCTCTGATCAGCAGCACCATCTGGGCTCTGGGTCTGGA
GCTGGGGGTACAGGTGGTCCCAGGGCCAGGCTGGCAGAGGAGGAGCTGCTGGCACAGCA
GGGGTTGGTGAGACAGGATCAGGAGACCAGGCAGGCGGAGAAGGAAAACATATCACTGTG
TTCAAGACCTATATTTCCCATGGGAGCGAGCCATGGGGGTTGACCCCAAGCAAAAATG
GAACTTGGCATTGACCTGCTGGCCTATGGGGCCAAAGCTGAACTTCCCAATATAAGTCC
TTCAACAGGACGGCAATGCCCTATGGTGGATATGAGAAGGCCTCCAAACGCATGACCTTC
CAGATGCCAAGTTTACCTGGGGCCCTTGCTGAGTGAACCCCTGGTCTCTACAACAA
AACCTCTCCAACAGGCCTTCTTTCAATCGAACCCCTATTCCCTGGCTGAGCTCTGGGGAG
CCTGTAGACTACAACGTGGATATTGGCATCCCCTTGGATGGAGAAACAGAGGAGCTGTGA

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Clone variation with respect to NM_021245.2



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_021245 unedited</p> <pre> ATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCAAAGCTGCTGGACCCAGG AGAGCTGACCACTGCCCGAGCAGCCGGCTGAATCCACCTCCACAATGCCGCTCTCAGGAA CCCCGGCCCTAATAAGAAGAGGAAATCCAGCAAGCTGATCATGGAACCTACTGGAGGTG GACAGGAGAGCTCAGGCTTGAACCTGCGCAAAAAGATCAGTGTCCCAAGGGATGTGATGT TGGAGGAACTGTCGCTGCTTACCAACCCGGGGCTCCAAGATGTTCAAACCTGCGGCAGATGA GGGTGGAGAAGTTTATTTATGAGAACCACCTGATGTTTTCTCTGACAGCTCAATGGATC ACTTCCAGAAGTTCCTTCCAACAGTGGGGGACAGCTGGGCACAGCTGGTCAGGGATTCT CATAACAGCAAGAGCAACGGCAGAGGCGGAGCCAGGCAGGGGGCAGTGGCTCTGCCGGAC AGTATGGCTCTGATCAGCAGCACCATCTGGGCTCTGGGCTCGGAGCTGGGGGTACAGGTG GTCCCGCGGGCCAGGCTGGCAGAGGAGGAGCTGCTGGCACAGCAGGGGTTGGTGAGACAG GATCAGGAGACCAGGCAGGCGGAGAAGGAAAACATCACTGTGTTCAAGACCTATATTC CCCATGGGAGCGACCCATGGNGGTTGACCCCCAGCAAAAATGGAACCTGGCATTGACCT GCTGGCCTATGGNGCCAAAGCTGAACTTCCCCAATATAGTCCCTCACAGGACGGGCATGC CTATGGTTNATATGAGAAGGCCTCCAACGCATGACCTTTCAAATGCCAAGTTTGACTGG GGCCCTTGCTGATTGAACCCCTGCTCTACACCAAACTTCTCAACAGCCTTCTCCAT CGAACCTATTCTGGCTGAGCTCTGGGNAGCCTGAAACTACACCGTGGAAATGGNCTCCN </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_021245 unedited</p> <pre> AGTTTGNCCGCGGCCGAATCNANGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTCATTTTCTTGAAGTTTATTGACTGTTACTGGGGCAAAGCAAATCCATAAA CGAGCAGGTTCCATTATGGAGCAAGTAAAAGGGGACCTCTGATTTGGTGAGGAAGGATGCG TGGAGTGGGACTTGGAGTAAAGGATGGAAGGTAATTTTTTCTTTTTCCCTCCATTCC CATAAGGATACTGGATTAACAATGGGGCTATCTGCTCAGCATTCCCTCTCCAAATTGGA GCCAAAGAGGGGAAATGATGCAAATCAAAGGAGGAAACACCTCACAGCTCCTTTGTTTCT CCATCCAAGGGGATGCCAATATCCACGTTGTAGTCTACAGGCTCCCCAAAGCTCAGCCAG GGAATAGGGGTTGATTGAAAAAGGCCTGTTGAAAAGTTTTGGTTGTAAGGACCAGG GGTTCCTCAGCAAGGGCCCCAGGTCAAACCTGGGCATCTGGAAGGTCATGCGTTTGGAG GCCTTCTCATATCCACATAGGGCATTGCCGCTGTTGAAGGACTTATATTTGGGAAGT TCAGCTTTGGCCCCATAGCCAGCAGGTCAATGCCAAGTCCATTTTTGCTGGGGTCA ACCCCCATGGCTCGCTCCATGGGGGAAATATNNGTCTTGAACCCGTGAATATGTTTTT CCTTCTCGCCTGCCTTGGTCTCCTTGATCTGTCTCACCAACCCCTGCTGTGGCAGNAGN TTCTCCTCTGCCAGCCTGGCCCGGGGAACACCTTGTAACCCAACTTCAAACCCAGAGCA AGATGGTGTGTTGATAAAAAGCCTTCTGTCCGAAAACCCCTGGCCCTTGCCCTGTTGGCG CCTTGGCGTTGTTTTGCTGTTGAAAATCCTGACAACCTGGGCCATTTGCCCCACTGTTGA AGGACTTT </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_021245
Insert Size:	1340 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_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]