

## Product datasheet for **RC206448**

### Myozenin 1 (MYOZ1) (NM\_021245) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Myozenin 1 (MYOZ1) (NM_021245) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Myozenin 1
Synonyms:	CS-2; FATZ; MYOZ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206448 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGCTCTCAGGAACCCCGGCCCTAATAAGAAGAGGAAATCCAGCAAGCTGATCATGGAACCTACTG  
GAGGTGGACAGGAGAGCTCAGGCTTGAACCTGGGCAAAAAGATCAGTGTCCCAAGGGATGTGATGTTGGA  
GGAAGTGTGCTGCTTACCAACCGGGCTCCAAGATGTTCAAACCTGCGGCAGATGAGGGTGGAGAAGTTT  
ATTTATGAGAACCACCCTGATGTTTTCTCTGACAGCTCAATGGATCACTTCCAGAAGTTCCTTCCAACAG  
TGGGGGACAGCTGGGCACAGCTGGTCAGGGATTCTCATACAGCAAGAGCAACGGCAGAGCGGCAGCCA  
GGCAGGGGGCAGTGGCTCTGCCGACAGTATGGCTCTGATCAGCAGCACCATCTGGGCTCTGGGTCTGGA  
GCTGGGGGTACAGGTGGTCCCAGCGGCCAGGCTGGCAGAGGAGGAGCTGCTGGCACAGCAGGGGTTGGTG  
AGACAGGATCAGGAGACCAGGCAGGCGGAGAAGGAAAACATATCACTGTGTTCAAGACCTATATTTCCCC  
ATGGGAGCGAGCCATGGGGTTGACCCCAAGCAAAAAATGGAACCTGGCATTGACCTGCTGGCCTATGGG  
GCCAAAGCTGAACCTCCAAATATAAGTCCTTCAACAGGACGGCAATGCCCTATGGTGGATATGAGAAGG  
CCTCCAACGCATGACCTTCCAGATGCCAAGTTTACCTGGGGCCCTTGCTGAGTGAACCCCTGGTCTCT  
CTACAACAAAACCTCTCCAACAGGCCTCTTTCAATCGAACCCCTATTCCTGGCTGAGCTCTGGGGAG  
CCTGTAGACTACAACGTGGATATTGGCATCCCCTTGGATGGAGAAACAGAGGAGCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**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\\_021245.4](#)

**RefSeq Size:** 1583 bp

**RefSeq ORF:** 900 bp

**Locus ID:** 58529

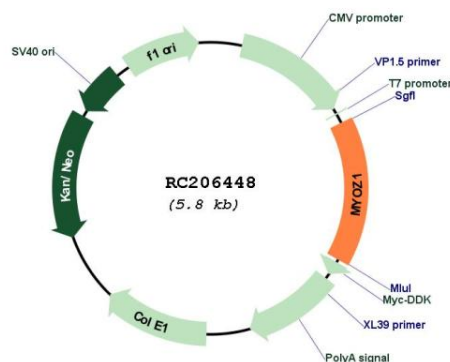
**UniProt ID:** [Q9NP98](#)

**Cytogenetics:** 10q22.2

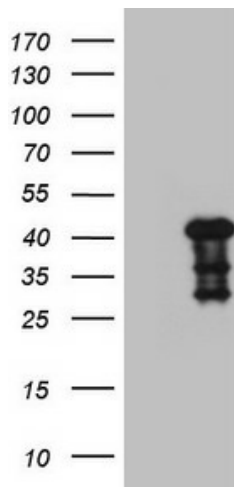
**MW:** 31.7 kDa

**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]

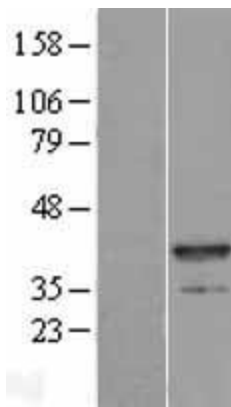
## Product images:



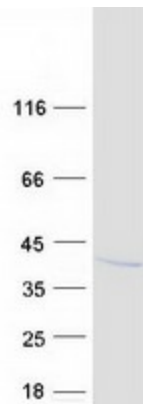
Circular map for RC206448



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MYOZ1 (Cat# RC206448, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MYOZ1 (Cat# [TA808910])(1:2000). Positive lysates [LY411997] (100ug) and [LC411997] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY411997]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206448 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MYOZ1 protein (Cat# [TP306448]). The protein was produced from HEK293T cells transfected with MYOZ1 cDNA clone (Cat# RC206448) using MegaTran 2.0 (Cat# [TT210002]).