

Product datasheet for **RG206448**

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:	TurboGFP
Symbol:	Myozenin 1
Synonyms:	CS-2; FATZ; MYOZ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206448 representing NM_021245 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGCTCAGGAACCCCGGCCCTAATAAGAAGAGGAAATCCAGCAAGCTGATCATGGAACCTACTG
GAGGTGGACAGGAGAGCTCAGGCTTGAACCTGGGCAAAAAGATCAGTGTCCCAAGGGATGTGATGTTGGA
GGAAGTGTGCTGCTTACCAACCGGGCTCCAAGATGTTCAAACCTGCGGCAGATGAGGGTGGAGAAGTTT
ATTTATGAGAACCACCCTGATGTTTTCTCTGACAGCTCAATGGATCACTCCAGAAGTTCCTTCCAACAG
TGGGGGGACAGCTGGGCACAGCTGGTCAGGGATTCTCATACAGCAAGAGCAACGGCAGAGCGGCAGCCA
GGCAGGGGGCAGTGGCTCTGCCGACAGTATGGCTCTGATCAGCAGCACCATCTGGGCTCTGGGTCTGGA
GCTGGGGGTACAGGTGGTCCCAGCGGCCAGGCTGGCAGAGGAGGAGCTGCTGGCACAGCAGGGGTTGGT
AGACAGGATCAGGAGACCAGGCAGGCGGAGAAGGAAAACATATCACTGTGTTCAAGACCTATATTTCCC
ATGGGAGCGAGCCATGGGGTTGACCCAGCAAAAAATGGAACCTGGCATTGACCTGCTGGCCTATGGG
GCCAAAGCTGAACCTCCAAATAAAGTCTTCAACAGGACGGCAATGCCCTATGGTGGATATGAGAAGG
CCTCCAACGCATGACCTTCCAGATGCCAAGTTGACCTGGGGCCCTTGCTGAGTGAACCCCTGGTCT
CTACAACAAAACCTCTCAACAGGCCTTCTTTCAATCGAACCCCTATTCCTGGCTGAGCTCTGGGGAG
CCTGTAGACTACAACGTGGATATTGGCATCCCCTTGGATGGAGAAACAGAGGAGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206448 representing NM_021245
 Red=Cloning site Green=Tags(s)

MPLSGTPAPNKKRKSSKLIMELTGGGQESSGLNLGKKISVPRDVMLEELSLLTNRGSKMFKLRQMRVEKF
 IYENHPDVFSDDSSMDHFQKFLPTVGGQLGTAGQGFYSKSNRGGSSQAGGSGSAGQYGSDDQHHLGSGSG
 AGGTGGPAGQAGRGAAGTAGVGETGSGDQAGGEGKHITVFKTYISPWERAMGVDPQQMELGIDLLAYG
 AKAELPKYKSFNRTAMPYGGYEKASKRMTFQMPKFDLGPLLSEPLVLVYNQLSNRPSFNRTPIPWLSSEGE
 PVDYNVDIGIPLDGETEEL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_021245

ORF Size: 897 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_021245.4](#)

RefSeq Size: 1661 bp

RefSeq ORF: 900 bp

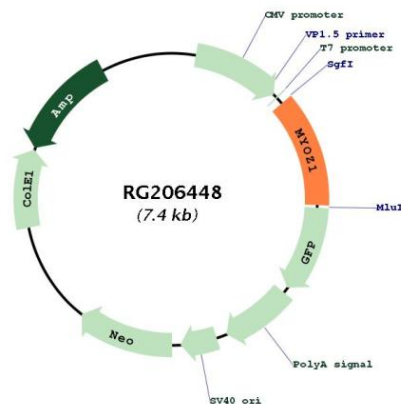
Locus ID: 58529

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]

Product images:



Circular map for RG206448