

Product datasheet for **MG204094**

Myoz1 (NM_021508) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myoz1 (NM_021508) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Myoz1
Synonyms:	2310001N11Rik; AV090278; FATZ; Myoz
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204094 representing NM_021508 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCACTCTCAGGAACCCCGGCCCTAACAAGAGGAGGAAGTCAAGCAAAGTATTATGGAGCTCACTG
GAGGTGGCCGGGAGAGCTCAGGCCTGAACCTGGCAAGAAGATCAGTGTCCCAAGGGATGTGATGTTGGA
GGAGCTGTCCCTTCTTACCAACCGAGGCTCCAAGATGTTCAAGCTACGGCAGATGCGGGTGGAGAAATTT
ATCTATGAGAATCACCCGATGTTTTCTCTGACAGCTCAATGGATCACTTCCAGAAGTTTCTTCCCACAG
TGGGAGGACAGCTGGAGACAGCTGGTCAAGGCTTCTCATATGGCAAGGGCAGCAGTGGAGGCCAGGCTGG
CAGCAGTGGCTCTGCTGGACAGTATGGCTCTGACCGTCATCAGCAGGGCTCTGGGTTTGGAGCTGGGGT
TCAGGTGGTCTGGGGCCAGGCTGGTGGAGGAGGAGCTCCTGGCACAGTAGGGCTTGGAGAGCCCGGAT
CAGGTGACCAGGCAGGTGGAGATGGAAAACATGCACTGTGTTCAAGACTTATATTTCCCATGGGATCG
GGCCATGGGGTGTATCCTCAGCAAAAAGTGAACTTGGCATTGACCTACTGGCATAACGGTCCAAAGCT
GAACTCCCAAAATATAAGTCCTTCAACAGGACAGCAATGCCCTACGGTGGATATGAGAAGGCCTCCAAAC
GCATGACCTTCCAGATGCCCAAGTTTGACCTGGGGCTCTGCTGAGTGAACCCCTGGTCTCTACAACCA
GAACTCTCCAACAGGCCTTCTTCAATCGAACCCCTATCCCTGGTTGAGCTCTGGGGAGCATGTAGAC
TACAACGTGGATGTTGGTATCCCTTGGATGGAGAGACAGAGGAGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204094 representing NM_021508
 Red=Cloning site Green=Tags(s)

MPLSGTPAPNKRKSSKLI MEL TGGRESSGLNLGKKISVPRDVMLEEL SLL TNRGSKMFKLRQMRVEKF
 IYENHPDVFS DSSMDHFQKFLPTVGGQLETAGQGF SYGKGS SGGQAGSSGSAGQY GSDRHQQGSGFGAGG
 SGGPGGQAGGGGAPGTVL GEPGSGDQAGDGKHVTVFKTYI SPWDRAMGVDPQQKVELGIDLLAYGAKA
 ELPKYKSFNRTAMPYGGYEKASKRMTFQMPKFDLGPLLSEPLVL YNQNL SNRPSFNRTPI PWLSSGEHVD
 YNVDVGIPLDGETEEL

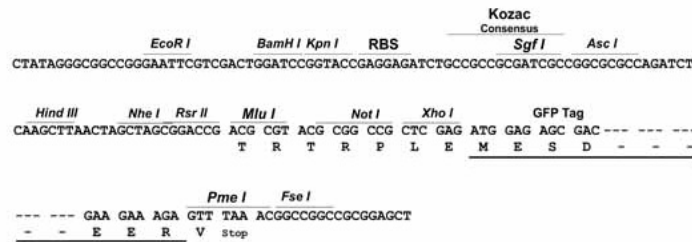
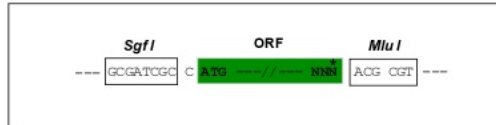
TRTRPLE - GFP Tag - V

Restriction Sites:

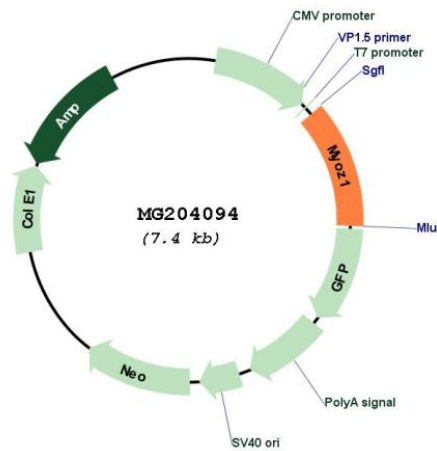
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_021508

ORF Size: 888 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:	<ol style="list-style-type: none">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_021508.3 , NP_067483.1
RefSeq Size:	1294 bp
RefSeq ORF:	891 bp
Locus ID:	59011
UniProt ID:	Q9JK37
Cytogenetics:	14 A3
Gene Summary:	Myozenins may serve as intracellular binding proteins involved in linking Z-disk proteins such as alpha-actinin, gamma-filamin, TCAP/telethonin, LDB3/ZASP and localizing calcineurin signaling to the sarcomere. Plays an important role in the modulation of calcineurin signaling. May play a role in myofibrillogenesis.[UniProtKB/Swiss-Prot Function]