

Product datasheet for **MG203494**

Myoz2 (NM_021503) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myoz2 (NM_021503) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Myoz2
Synonyms:	1110012I24Rik; Fatz-2; Myozl2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203494 representing NM_021503 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTATCACATAGCGCCATGGTGAAGCAAAGGAAACAGCAAGCATCAGCCATCACGAAGGAAATCCATG
GACATGATGTTGACGGCATGGACCTGGGCAAAAAGTTAGCATCCCCAGAGACATCATGATAGAAGAATT
GTCCCATTTAGTAATCGTGGGGCCAGGCTGTTTAAGATGCGTCAAAGAAGATCTGACAAATACACCTTT
GAAAATTTCCAGTATGAATCTAGAGCACAATAAATCACAATATCGCCATGCAGAATGGGAGAGTTGATG
GAAGCAACCTGGAAGGTGGCTCACAGCAAGGCCCTCAACTCCGCCAACACCCCGATCCACGAAGCCC
CCCAAATCCAGAGAACATCGCACCAGGATATTCTGGACCACTGAAGGAAATTCCTCCTGAAAGGTTTAAC
ACGACGGCCGTTCCCTAAGTACTACCGGTCTCCATGGGAGCAGGCGATTGGCAGCGATCCGGAGCTCCTGG
AGGCTTTGTACCCAAAATTTTCAAGCCTGAAGGAAAAGCAGAACTGCGGGATTACAGGAGCTTTAACAG
GGTTGCCACTCCATTTGGAGTTTTGAAAAGCATCAAAAATGGTCAAATTCAAAGTTCCAGATTTTGAA
CTACTGCTGCTGACAGATCCCAGTTCTTGCCCTTTGCCAATCCTCTTTCGGGCAGACGATGCTTTAACA
GGGCGCAAAGGGGTGGTATCTGAGAATATCCCGTCGTGATCACAACCTGAGCCTACAGAAGACGCCAC
TGTACCGGAATCAGATGACCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203494 representing NM_021503
Red=Cloning site Green=Tags(s)

MLSHSAMVKQRKQQASAITKEIHGHDVDGMDLGKVKVSIIPRDIMIEELSHFSNRGARLFKMRQRRSDKYTF
 ENFOYESRAQINHNIAMQNGRVDGSNLGGSSQQGPSTPNTDPDRSPNPENIAPGYSGLKEIPPERFN
 TTAVPKYYRSPWEQAIGSDPELLEALYPKLFKPEGKAEIRDYRSFNRVATPFGGFKASKMKVKFVPDFE
 LLLLTDPRFLAFANPLSGRRCFNRAPKGWYSENIPVVITTEPTEDATVPESDDL

TRTRPLE - GFP Tag - V

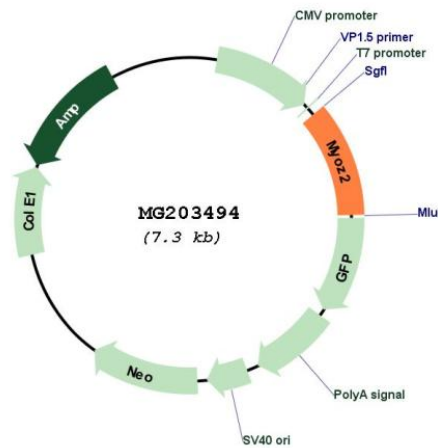
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_021503

ORF Size: 792 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_021503.1 , NP_067478.1
RefSeq Size:	1111 bp
RefSeq ORF:	795 bp
Locus ID:	59006
UniProt ID:	Q9JW5
Cytogenetics:	3 G1
Gene Summary:	Myozenins may serve as intracellular binding proteins involved in linking Z line 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]