

Product datasheet for **MR203494**

Myoz2 (NM_021503) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myoz2 (NM_021503) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Myoz2
Synonyms:	1110012I24Rik; Fatz-2; Myozl2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203494 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTATCACATAGCGCCATGGTGAAGCAAAGGAAACAGCAAGCATCAGCCATCACGAAGGAAATCCATG
GACATGATGTTGACGGCATGGACCTGGGCAAAAAGTTAGCATCCCCAGAGACATCATGATAGAAGAATT
GTCCATTTTCAGTAATCGTGGGGCCAGGCTGTTTAAGATGCGTCAAAGAAGATCTGACAAATACACCTTT
GAAAATTTCCAGTATGAATCTAGAGCACAATAAATCACAATATCGCCATGCAGAATGGGAGAGTTGATG
GAAGCAACCTGGAAGGTGGCTCACAGCAAGGCCCTCAACTCCGCCAACACCCCGATCCACGAAGCCC
CCCAAATCCAGAGAACATCGCACCAGGATATTCTGGACCACTGAAGGAAATTCCTCCTGAAAGGTTTAAAC
ACGACGGCCGTTCCCTAAGTACTACCGGTCTCCATGGGAGCAGGCGATTGGCAGCGATCCGGAGCTCCTGG
AGGCTTTGTACCCAAAATTTTCAAGCCTGAAGGAAAAGCAGAACTGCGGGATTACAGGAGCTTTAACAG
GGTTGCCACTCCATTTGGAGTTTTGAAAAGCATCAAAAATGGTCAAATTCAAAGTTCCAGATTTTGAA
CTACTGCTGCTGACAGATCCCAGTTCTTGCCCTTTGCCAATCCTCTTTCGGGCAGACGATGCTTTAAC
GGGCGCAAAGGGGTGGGTATCTGAGAATATCCCCGTCGTGATCACAACCTAGCCTACAGAAGACGCCAC
TGTACCGGAATCAGATGACCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203494 protein sequence
 Red=Cloning site Green=Tags(s)

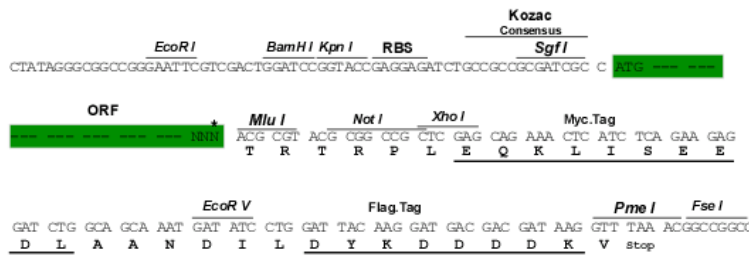
MLSHSAMVKQRKQQAASAITKEIHGHDVDGMDLGKKVSIIPRDMIEELSHFSNRGARLFKMRQRSDKYTF
 ENFOYESRAQINHNIAMQNGRVDGSNLLEGGSQGPSTPNTDPDRSPNPENIAPGYSGLKEIPPERFN
 TTAVPKYYRSPWEQAIGSDPELLEALYPKLFKPEGKALRDYRSFNRVATPFGGFEKASKMVKFKVPDFE
 LLLLTPRFLAFANPLSGRRCFNRAPKGWVSENIIPVVITTEPTEDATVPESDDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_021503

ORF Size: 795 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_021503.1](#), [NM_021503.2](#), [NP_067478.1](#)

RefSeq Size: 1153 bp

RefSeq ORF: 795 bp

Locus ID: 59006

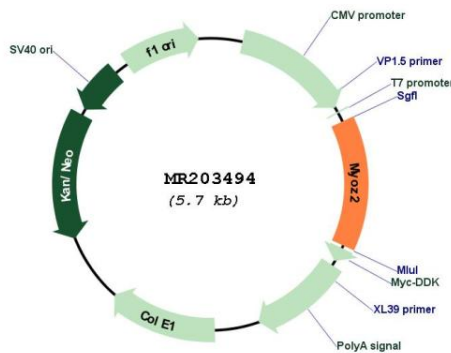
UniProt ID: [Q9JJW5](#)

Cytogenetics: 3 G1

MW: 29.8 kDa

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]

Product images:



Circular map for MR203494