

Product datasheet for **MR224234**

Mymx (NM_001177470) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mymx (NM_001177470) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mymx
Synonyms: EG653016; Esgp; Gm7325; minion; myomerges
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR224234 representing NM_001177470
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAGAAGAAAGCTGCACTGTAAACTAATCCAGTTGAAACTGGGGAGTACAGAGGTGCAGGTCCTG
CCATGCCCGTTCCATTGCTCCCGATGGTCTCGATCGCTGTGTCCCGCTGCTGCTGCTGTTGCCCG
CCTGGCCCGGCAGCACCTCCTGCCCTTGTGCGCCGGCTGGCCCGCCGACTGAGCTCCAAGACATGAGA
GAGGCTCTGCTGAGCTGTCTGCTTTGTCTCAGCCAGCAACAGCCACCGGATTCTGGAGAGCCCTCCA
GAGTGGACCACTCCAGAGGAAGGAGAGATTGGGCCCCAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR224234 representing NM_001177470
Red=Cloning site Green=Tags(s)
MPEESCTVKLIQLKTGEYRGAGPAMPVPLLPMLRSLLSRLLLPVARLARQHLLPLLRRLARRLSSQDMR
EALLSCLLFVLSQQPPDSGEASRVDHSQRKERLGPQK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9056_b04.zip

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_001177470

ORF Size: 324 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_001177470.1](#), [NP_001170941.1](#)

RefSeq Size: 852 bp

RefSeq ORF: 327 bp

Locus ID: 653016

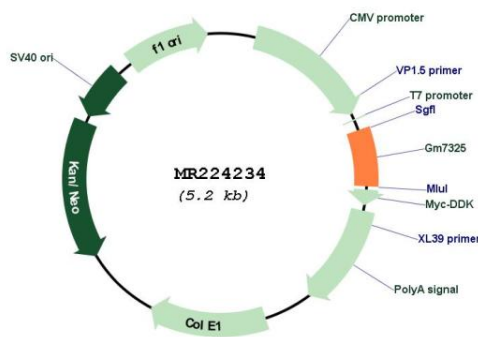
UniProt ID: [Q2Q5T5](#)

Cytogenetics: 17 B3

MW: 12.2 kDa

Gene Summary: Myoblast-specific protein that mediates myoblast fusion, an essential step for the formation of multi-nucleated muscle fibers (PubMed:28386024, PubMed:28569745, PubMed:28569755, PubMed:30197239). Involved in membrane fusion downstream of the lipid mixing step mediated by MYMK (PubMed:30197239). Acts by generating membrane stresses via its extracellular C-terminus, leading to drive fusion pore formation (PubMed:30197239). Acts independently of MYMK (PubMed:30197239). Involved in skeletal muscle regeneration in response to injury by mediating the fusion of satellite cells, a population of muscle stem cells, with injured myofibers (PubMed:29581287).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224234