

Product datasheet for **MR225058**

Mymx (NM_001177468) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mymx (NM_001177468) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mymx
Synonyms: EG653016; Esgp; Gm7325; minion; myomerge
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR225058 representing NM_001177468
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCCGTTCCATTGCTCCCGATGGTGCTTCGATCGCTGCTGTCCCGCTGCTGCTGCTGTTGCCCGCC
TGGCCCGGCAGCACCTCCTGCCCTTGTGCGCCGGCTGGCCCGCGACTGAGCTCCAAGACATGAGAGA
GGCTCTGCTGAGCTGTCTGCTCTTTGTCTCAGCCAGCAACAGCCACCGATTCTGGAGAGGCCTCCAGA
GTGGACCACTCCAGAGGAAGGAGAGATTGGGCCCCAGAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225058 representing NM_001177468
Red=Cloning site Green=Tags(s)

MPVPLLPMVLRSLLSRLLLPVARLARQHLLPLLRRLARRLSSQDMREALLSCLLFVLSQQQPPDSGEASR
VDHSQRKERLGPQK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

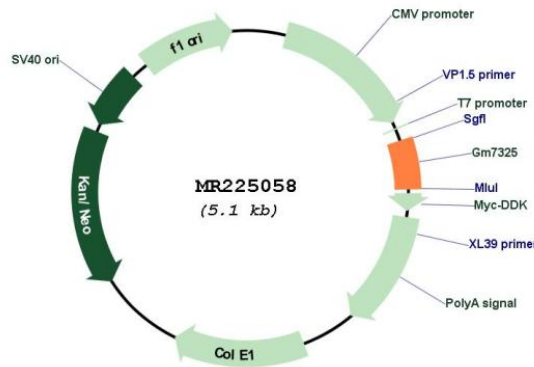


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001177468

ORF Size: 252 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:	<u>NM_001177468.1</u> , <u>NP_001170939.1</u>
RefSeq Size:	808 bp
RefSeq ORF:	255 bp
Locus ID:	653016
UniProt ID:	<u>Q2Q5T5</u>
Cytogenetics:	17 B3
MW:	10 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]