

## Product datasheet for MC215330

### Mymx (NM\_001177469) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mymx (NM\_001177469) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Mymx  
**Synonyms:** EG653016; Esgp; Gm7325; minion; myomerges  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC215330 representing NM\_001177469  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGCCCGTTCCATTGCTCCCGATGGTGCTTCGATCGCTGCTGTCCCGCTGCTGCTGCTGTTGCCCGCC  
 TGGCCCGGCAGCACCTCCTGCCCTTGTGCGCCGGCTGGCCCGCGACTGAGCTCCAAGACATGAGAGA  
 GGCTCTGCTGAGCTGTCTGCTCTTTGTCTCAGCCAGCAACAGCCACCGATTCTGGAGAGGCCTCCAGA  
 GTGGACCACTCCCAGAGGAAGGAGAGATTGGGCCCCAGAAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001177469  
**Insert Size:** 255 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).



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**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\\_001177469.1](#), [NP\\_001170940.1](#)

**RefSeq Size:** 811 bp

**RefSeq ORF:** 255 bp

**Locus ID:** 653016

**UniProt ID:** [Q2Q5T5](#)

**Cytogenetics:** 17 B3

**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]

Transcript Variant: This variant (2) uses an alternate donor splice site at 5' non-coding exon compared to variant 1. Variants 1 and 2 encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.