

## Product datasheet for **MC215329**

### Mymx (NM\_001177470) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mymx (NM\_001177470) 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:** >MC215329 representing NM\_001177470  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

**ATGCCAGAAGAAAGCTGCACTGTAAAATAATCCAGTTGAAAAGTGGGGAGTACAGAGGTGCAGGTCTG**  
**CCATGCCCGTTCCATTGCTCCCGATGGTGTTCGATCGCTGCTGTCCCGCTGCTGCTGCTGTTGCCCG**  
**CCTGGCCCGGCAGCACCTCTGCCCTTGTGCGCCGGCTGGCCCGCCGACTGAGCTCCCAAGACATGAGA**  
**GAGGCTCTGCTGAGCTGTCTGCTTTGTCTCAGCCAGCAACAGCCACCGGATTCTGGAGAGGCCTCCA**  
**GAGTGGACCCTCCAGAGGAAGGAGAGATTGGGCCCCAGAAAGTGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001177470  
**Insert Size:** 327 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).



<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001177470.1, NP_001170941.1</u>
<b>RefSeq Size:</b>	852 bp
<b>RefSeq ORF:</b>	327 bp
<b>Locus ID:</b>	653016
<b>UniProt ID:</b>	<u>Q2Q5T5</u>
<b>Cytogenetics:</b>	17 B3
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) contains an alternate 5' terminal exon compared to variant 1, resulting in translation initiation from an in-frame upstream AUG and a longer isoform (2) with a distinct N-terminus compared to isoform 1.</p>