

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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC215329 representing NM_001177470 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGCCAGAAGAAAGCTGCACTGTAAACTAATCCAGTTGAAACTGGGGAGTACAGAGGTGCAGGTCCTG
CCATGCCCGTTCATTGCTCCCGATGGTCTCGATCGCTGTGTCCCGCTGCTGCTGCTGTTGCCCG
CCTGGCCCGGCAGCACCTCCTGCCCTTGCTGCGCCGGCTGGCCCGCCGACTGAGCTCCCAAGACATGAGA
GAGGCTCTGCTGAGCTGTCTGCTTTGTCTCAGCCAGCAACAGCCACCGGATTCTGGAGAGGCCTCCA
GAGTGGACCACTCCAGAGGAAGGAGAGATTGGGCCCCAGAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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).



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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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001177470.1, NP_001170941.1</u>
RefSeq Size:	852 bp
RefSeq ORF:	327 bp
Locus ID:	653016
UniProt ID:	<u>Q2Q5T5</u>
Cytogenetics:	17 B3
Gene Summary:	<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>