

Product datasheet for **MC225147**

Myof (NM_001099634) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myof (NM_001099634) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Myof
Synonyms:	2310004N10Rik; 2310051D19Rik; E030042N20Rik; Fer1; Fer1l3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC225147 representing NM_001099634 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTTCGAGTGATTGTGGAATCTGCCACTAACATCCCTAAAACAAAATTTGGGAAGCCGGATCCTATCG
TTTCTGTCATTTTAAGGATGAGAAAAAGAAAACAAAGAAAGTTGATAATGAACTCAACCCTGTCTGGAA
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CCAGGCATGGGAGAAGAAGGAAGAAGATCAAGGAGATGAAGACAGGGTAGATGGCATAGTCAGAGGCC
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CAGCCGAAGGATGCTGTCCAACAAGCCACAGGATTTCCAGATCCGTGTGAGAGTATCGAGGGCCGTCAG
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AGGGAGAAGGGGTGGCCTACAGAGGCAGGATCTTCGTGGAACCTGAACACGTTCCCTGAAAAGAAACCACC
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GCACGTGGAGACAAGGACTTTGCACAGCACCTTCAGCCCAATATTTCCAGGGGAACTTCAGATGTGG
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 AGTACTACCTGCGTGTGATCATCTGGAATACCAAGGACGTTATCTTGGATGAGAAGGCATCACTGGGGA
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 ACCCACAAACCGACCGGAAACCTCCTTCTCTGGTTCACGAACCCTTGAAGACCATGCGCTTCATCGT
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001099634
- Insert Size:** 6147 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).
- 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_001099634.1](#), [NP_001093104.1](#)
- RefSeq Size:** 7094 bp
- RefSeq ORF:** 6147 bp
- Locus ID:** 226101
- UniProt ID:** [Q69ZN7](#)
- Cytogenetics:** 19 C2

Gene Summary:

The protein encoded by this gene is a member of the ferlin family of proteins, which have been implicated in fusion events in muscle tissue. Members of this family have a carboxy-terminal single pass transmembrane domain and multiple C2 domains, which bind negatively charged phospholipids in the presence of calcium ions. This gene is expressed at high levels in myoblasts and upregulated in damaged skeletal muscle. Mice deficient in this protein display defects in myoblast fusion, muscle regeneration, and angiogenesis. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Oct 2014]

Transcript Variant: This variant (2) lacks an in-frame exon in the coding region compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.