

Product datasheet for **MC224219**

Mypn (NM_182992) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mypn (NM_182992) Mouse Untagged Clone
Tag: Tag Free
Symbol: Mypn
Synonyms: 1110056A04Rik; 9830112J03; AI853556; mKIAA4170
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224219 representing NM_182992
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCAAGAAGACAGCATAGAGGCATCCACTTCCATCTCTCAACTCCTGAGAGAAAGTTACCTGGCTGAAA
CCAGACATCGTGGGACAACGAGCGAAGTCGAGCTGAGCCCTCTCCAACCTTTCCATTTCAAGTGGTCC
TGGGGCTGCAGAGGGAGGAGGCCAGAGGACCTCCGGACCTTTCTGCCTTCTGAGCCAAGAGGAGTTA
GATGAAAGTGCAATCTGGCGAGGCTGGCCATCAACCACGACCCCTTGGAGAGAGTGATGAAGCTCAAG
CCAGGAAGCGTCTGTCTCCGACCAGACGAAGCATGCATCCAAGCCAAGCTTCAACCTGCCCTCCACCA
GGACAGCTCCCGAGGTCCGGCCAGTCTAAAGACAGCCCGCCAGAGACCAAGAGGCCGAGTACAGTTCT
GAAACCCAGTCCAAGAAAGTTTTCTGAACAAGGCTGCCGATTTTCATCGAAGAACTTTCTCCCTTTTCA
AGGCTCACAGCTCCAAGAGGATCAGACCTCGGGCTGCAAAAACCACAAGAGCAAGACGGAATCCAAAA
CAAAGTTCTGCAGGAAAACAGCCCCACTTTCTCAGATCTAACAGAAAGGCGAGAGAGCATCGGTCCCC
ATTCCATCCCTGCGGACAGCAGGGATAACGAGCTGAACCACGCTATTGAACAGCGAGAAGCCAAGAGGA
GGGAAGCCGAGTTGGCTGCGGGGGAGGCTGCGGCTGGAGACAGCACCCCTGGCTCTTCGCTTTCATCCCT
ATACTACGAAGAGCCTCTGGGGCAGCCTCCCGCTTACACAAAAGTTACGGAGCCGAGAAGTTCCGGAA
GGCAGCCGAGTCCAGTTGGATTGTATAGTGGTAGGAATCCACCGCCCAAGTAAGGTGGTATTGTGAAG
GCAAGGAGCTTGAAACTCTCCAGATATCCACATTGTGCAGGCAGGAAACCTTCACTCACTGACCATCGC
CGAGGCCCTCGAAGAGGACACAGGACGATACTCATGCTTTGCTTCCAACATTTATGGGACAGATTCAACT
TCCGCTGAGATTTACATAGAAGGAGTCTCTTCTGACTCAGAAGGGGACCCTAACAAAGAAGAGATGA
ATCGAATCCAGAAGCCAAATGAGGTGTCCTCACCTCCCACCACCTCTGCAGCCATTCCTCCAGCAGCAGA
AGCCCAGCCTTTGGCGGCCAGCCAGAGTGTCCACCGTCCAGCAGTGTCCAGAGTCTACCAACTATTTG
CAAGGCCTGAACGGGAAGCCCATATTGCAGCGCCAGTGTTCGAAGATGCTGCAGAATTGTCAGCCT
CTGAGGGGACAGTGGTTGTCTTTGAGTGCAGAGTGAAAGGGGCCCATCTCCGAAAGTCCAGTGGTACAG
AGAAGGGACATTAATAGAAGACTCTCCGACTTCAAGATCTTACAGAAGAAACCTCGATCCATGGCAGAA
CCAGAGGAGATCTGCACGTTAGTCATTGCTGAGGTGTTTTCGGAAGACTCGGGATGCTTACAGTGCACCG



CAAGCACAAATATGGCACCGTGTCTAGCATCGCACAGTTAGACGTGAGAGGAAATGAAGACATCAGTGA
 TAATGGAGCTCTTCACTCAGCAAATTAACCACCAACCCGGCTGTGGCTGAGCACCAGCCTTCCCCACTC
 AACCCACAGCCTCTTTCAGAGGAGCAGCCCCAAAACCCAACTGAAGGGGTTCTGGTGAACCATAATG
 AGCCCCGGTCCAGCTCCAGGATTGGGCTACGGGTGCACTTCAACCTACCGGAAGACGACAAAAGATATGGA
 GGCATCCTCTGGGAGCGGTGCGGCAATACCAGCCAGACTAGACCGAATTCCTCCCCGAGAGGTTCAAT
 GGACAGGAAGCCAGAATCCAGAGCCTTCTCACATCAAGGAGCCCCCTCCGGTCTGGCCAAACCCA
 AACTTGACTCCACTCAGTTACAACAGTTCATAACCAAGTGTACTGGAACAGCAGCAACTGCAAAACAC
 ATCTCCTTCATCACCCAAGGAGTCTTTCACATGAGTGCCTTGAACCTCGGCTCCCCGGCAGTGACCATC
 TCCAGCAAGCAGGTGAAGGGTCTGCGCCTCAGATGTTCAACCTGGCCCCGCCGAAGCACTTCTCCCCG
 CTTCAAGCACTTCCACAGCAACCGTGTCCCATCCAGCTCCCCGGTGTTCACCTTGAACAACTCCTCA
 AACAAATCAGAGGACAGTCAGCAAGAAAGCCTCTTAATGGCCACCCCTCCACACAAGGCAGATCTCT
 GCGGGCTCTCCATCCAAAATGAGCCAGCTCTCAAGCCAGCAGGCCAGCAGCGCCACACAGCCG
 CCTATTCCATCCCTAGCGAAACCAGTTTCAGCCTCACTGCGTATCCCCACTCCTGTCTCCCTACCGG
 TCGGATTGAGAACCCGGTGGCTTTTCTAGCTCTGTTCTGCCTTCTCCTTCCATTCCACCCACCAAC
 GCCATGGGGCTGCCTAAAAGCGCACCATCTGTACCATCCAGGGTCTAATGAAGAAAACCACAAAGGCC
 CTAGGCAGTGAGTGACGACTACATCCGAGAGACGAAGAAGTCAAGTATTCTAGACTTGGGGAAGAAAGT
 GAATTTCCGGTGACGTGAGTACACACCAGCAGGAATATAAAATTTCCAGCTTTGAGCAGAGGCTGATGAAC
 GAGATAGAGTTCCGCCTGGAGCGGACTCCTGTTGACGAATCTGATGACGAGATAGAACACGACGAAATCC
 CCACGGGCAAGTGCATCGCGCCATCTTGGACAAAAGGCTCAAGCACTTCCGGGTTACCGAAGGCTCACC
 AGTCACCTTCACTGCAAAATGTTGGGATACCTGTTCCAAGGTTTATTGGTTCAAAGACGGGAAGCAG
 ATTTCTAAGAGAAATGAGCACTGTAATAAGAGGAGAGAGGGGATGGGACCTGCTCACTACACATTGAGT
 CCACCCACGGCGATGATGACGGCAACTACCATCATGGCCGCAACCCAGGGGAGAATCAGCTGTTT
 TGCCATTTGATGGTACAGGGTTTGCCATTGCAAGCCGACTCAGCCCTGCTGTCTCACAGAGGAAGG
 TCCAGAATGCAGGAAAGAGACAAAGAGCCGCTACAGGAACGCTTTTTCCGACCACATTTCTGCAGGCC
 CTGGGGATATGGTGGCTCACGAGGGCCGCTCTGTGCGCTGGACTGTAAGGTGAGTGGCTTACCACCCC
 GGAGCTGACATGGCTACTCAATGGGCAACCTGTGCTACCCGACGCTCCCAAGATGCTGGTCCAGAGAG
 ACGGGAGTCCACTCTGCTCATCGACCCGCTCACCAACGAGACGAGGGACCTACACGTGCGTGGCTA
 CCAACAAAACCGGGCAGAATTCCTTTAGTCTGGAGCTCACTGTGGTAGCCAAAGAGGTAAGAAGGGCC
 AGTGATCTGGAGAACTCCAGAACAGCGGCTCCCTGAGGGCCACCCGGTGGACTGGAGGGCCGGGT
 ATAGGCATGCCCCGCTGTGTTCTACTGGAAGAAAGACAACGAGACCATCCCGTCACTAGAGAGAGGA
 TCAGCATGCACCAGGATACAACAGGCTATGTCTGCCTCCTCATCCAGCCAGCCAAGAAGTCCGACGCTGG
 GTGGTACACACTGTGAGCAAGAACGAAGCCGGCATCGTATCGTGACAGCTAGGTTGGATATATGCT
 CAGTGGCACCAAGCAATCCCAACACCCATATCTATCCGGCCAGCGGCAGCCGCTACGGGTCTCTACCA
 GCAAAGGCCTCGACATCTTTCTGCCTTCTCCTCCGTGAAAGCAGGATGCTGTATTCTGTACTTCTCG
 GAGTGTAGTGGAGAGCGATGAACTTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_182992
- Insert Size:** 3948 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_182992.2](#), [NP_892037.2](#)

RefSeq Size: 5246 bp

RefSeq ORF: 3948 bp

Locus ID: 68802

UniProt ID: [Q5DTJ9](#)

Cytogenetics: 10 B4

Gene Summary: Component of the sarcomere that tethers together nebulin (skeletal muscle) and nebulin (cardiac muscle) to alpha-actinin, at the Z lines.[UniProtKB/Swiss-Prot Function]