

Product datasheet for **MC223146**

Mybpc2 (NM_178067) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mybpc2 (NM_178067) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mybpc2
Synonyms:	MGC28149
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223146 representing NM_178067 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGAGGCTAAACCAGCGGCCAAAAAGGCCTCCAAGGCCAAAGATGCCCAAAGGAAGCCCCTGCAA
AGCAGACTCCTGAAGAGCCCCCAAAGAGGCCACCTGAGGACCAATCCCCAAGTGGGAGGAGCCAC
AGGCATCTTCTGAAAAAGCCGGACTCTGTGTCAGTGGAGACTGGGAAAGACGCGGTGATTCTGGCCAAG
GTGAACGGGAAGGAGCTCCAGGCAAGCCGACCATCAAGTGGTCAAGGGGAAGTGGCAGGAGCTGGCA
GCAAGAGCGGAGCCGGTTCATCTTCAAGGAATCTCATGACTCTACCAGCAATGTGTACACCGTGGAGCT
CCACATTGGGAAGGTGGTCTAGGGGACCGCGGGATTACCGTCTAGAGATCAAAGCCAAGGATGTCTGC
GACAGCTGCTCGTTCAACGTGGATGTGGAGGCACCCCGTCAGGACTCATCCGGTCAGAGCCTCGAGAGCT
TCAAGCGTTCCGGGTGACGGGAAGTCAAGAAGATGCAGGCGAGCTGGATTTCAAGTGGCTTGTGAAGAAGAG
GGAAGTAGTTGAGGAGGAGAAGAAGAAGAAGATGATGATGATCTGGGTATACCTCCGGAGATTTGG
GAGCTCCTGAAAGGGGCCAAGAAGAGCGAGTACGAGAAGATCGCCTTCCAGTACGGCATCACTGACCTCC
GTGGCATGCTGAAGCGGCTCAAGAAGGCCAAGGTGGAGGTCAAGAAGAGTGCAGCCTTCACTAAGAAGTT
GGACCCAGCCTACCAAGTAGACAGGGGCAACAAGATCAAGCTGGTGGTGGAGATCAGTGACCCAGACCTT
CCTCTCAAGTGGTCAAGAAATGGCCAGGAGATCAAACCAAGCAGCAAGTATGTGTTGAGAACGTTGGGA
AGAAACGAATTCTTACCATCAACAAGTGCACGCTGGCGGATGATGCTGCATACGAGGTGGCAGTCCAAGA
TGAGAAGTGTTCCTGAACTCTTTGTCAAAGAGCCCCAGTCTTGATTGTCACCCCACTGGAGGACCAG
CAGGTATTCGTAGGTGACCGAGTGGAAATGTCGGTAGAGGTGTCAGAAGAGGGTGCACAGGTTATGTGGA
TGAAAGATGGTGTGGAGATGACTCGGGAGGATTCTACAAGGCGCGCTACCGCTTCAAGAAGGACGGGAA
ACGGCACATCCTCATCTACTCTGATGTGGCCAGGAGGATGGGGCCGCTACCAGTCTAACAATGGT
GGCCAGTGTGAGGCTGAACTCATTGTGGAAGAGAAGCAACTGGAGGTCTGCAGGACATTGCTGACCTGA
CAGTGAAGGCTGCAGAGCAGGCTGTGTTCAAGTGTGAAGTGTCTGATGAGAAGGTGACAGGCAAATGGTA
CAAGAACGGCTGGAGGTACGACCCAGCAAGAGGATCACCATCTCCCATGTGGCAGATTCCACAAGCTG



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GTGATTGATGACGTCCGCCCTGAGGATGAGGGAGACTACACATTCGTGCCCGATGGCTATGCCCTATCCC
TCTCAGCCAAGCTCAACTTTTTGGAAATCAAAGTGAGTATGTACCTAAGCAAGAGCCCCGAAGATCCA
CCTGGACTGCTCAGGGAAGACCTCAGATAACTCAATTGTTGTGGTGGCTGGAAACAAGCTGCGGCTGGAT
GTGGCCATCACAGGGGAACCACCTCCCCTGCTACCTGGCTAAGGGGAGATGAGGTGTTACAGCCACAG
AAGGCAGGACACACATCGAGCAGAGGCCAGACTGCAGCAGCTTTGTGATCGAGAGTGGGAGCGGTGGA
TGAGGGCCGCTACACCATCAAAGTACCAATCCTGTGGGCGAGGACGTGGCCCTCCATTTTCTCGGGTT
GTGGATGTTCTGATCCTCCAGAGGCTGTCCTGTCACCTCAGTTGGAGAAAATGGGCCATTCTGGTCT
GGGAGCCACCCAAGTATGATGGAGGACAGCCAGTACTGGTACTTGATGGAGCGGAAGAAGAAAGGCTC
CCAGCGCTGGATGAAGATCAACTTTGAGGTCTTCACTGACACCACCTACGAGTCCACAAAGATGATCGAG
GGCGTCTTTATGAGATGCGGGTCTTCGCTGTCAACGCCATTGGGGTCTCACAGCCAGCATGAACACCA
AGCCCTTCATGCCATTGCTCCCAGAGTGCACCACAACCTCACCGTGGAGGATGTGACGGACACCAC
CACCACACTTAAGTGGAGACCTCCAGATCGATTGGTGTGGTGGCATTGATGGTACCTGGTGGAGTAC
TGCCTGGAGGGCTCTGAGGAATGGGTACCAGCTAACAAGGAGCCAGTGAACGCTGTGGCTTCACTGTCA
AGGATCTCCCACTGGAGCCAGGATCCTCTTCCGGTTGTTGGGGTCAACATCGCAGGGCGCAGTGAACC
AGCCACCTCCTTCAGCCAGTCACTATCAGGGAGATTGTGGAGCAACCTAAGATCCGCTTCCCCGCCAT
CTTCGTACAGACTTATATCCGAAAAGTTGGGGAGGCCCTCAACCTCGTCATCCCCTTCCAGGGCAAGCCCC
GGCCTCAGGTGGTGTGGACCAAGGGTGGGGCTCCCTTGGATACCTCCCCTGTGAATGTGCGGACTAGTGA
CTTCGACACAGTGTCTTCGTGCGACAGGGCCCGCACTGACTCCGGAGAGTATGAGCTGAGTGTGCGAG
ATTGAAAACATGAAGGACACTGTACCATACGCATCCGGGTCTGGAAAAGGCAGGGCCAGCAGAGAATG
TGATGGTGAAGGAGGTGTGGGGCACAATGCTCTGGTGGAGTGGCAGCCGCCAAGGATGACGGGAACAG
TGAGATCACAGGCTACTTTGTCCAGAAGGCTGACAAAAAGACCATGGAGTGGTTCATGTCTACGAACAC
AATCGCCACACCAGCTGTACGGTGTCTGACCTCATTGTGGTAAATGAGTACTACTCCGTATCTTCAGCG
AGAACATCTGCGGTCTCAGTACTGCCAGGTGTCTCAAGAACACAGCTCGAATTCTCAAGACAGGAAT
CACCTTAAAACCACTGGAGTACAAGGAGCATGATTTCCGGACGGCTCCCAAGTTCCTGACCCCGTATG
GACCGGGTCTGTTGGGGGATATACCGAGCTCTCAACTGTGCCGTGAGGACCCTAAGCCAAAGG
TGGTGTGGATGAAGAACAAGATGGAAATCCATGAAGATCCCAAATTCCTCATAACCAACTACCAGGGCAT
CCTGACACTGAACATCCGCCGACCGTACCCTTTGATGCAGGGACCTATTCTGCCGCGCTTCAATGAG
CTGGGGGAAGCCCTGGCTGAATGCAAACTGGATGTCCGAGTGCCACAGTGA

ACGGCTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_178067

Insert Size:

3411 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_178067.3](#), [NP_835168.1](#)

RefSeq Size: 3609 bp

RefSeq ORF: 3411 bp

Locus ID: 233199

Cytogenetics: 7 B3

Gene Summary: Thick filament-associated protein located in the crossbridge region of vertebrate striated muscle a bands. In vitro it binds MHC, F-actin and native thin filaments, and modifies the activity of actin-activated myosin ATPase. It may modulate muscle contraction or may play a more structural role (By similarity).[UniProtKB/Swiss-Prot Function]