

Product datasheet for **RN207982**

Mybpc3 (NM_001106490) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mybpc3 (NM_001106490) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mybpc3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN207982 representing NM_001106490 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTGAGCCAGGGAAGAGACCAGTGTGAGCCTTCACCAAGAAGCCCAGGTCAGTGGAGGTGACCCGAG
GCAGTGTCTGTGTTTCGAGGCTGAGACGGAGCCGTCAGGCCTGAAGGTGCAGTGGCAGCGGGATGGCAG
TGATATCGCTGCCAATGACAAGTATGGTTTGGCAGCAGAGGGCAAACGACACACTGACAGTGCAGGAT
GTGGCCCTGACGATCAGGGTTCCTATCGGGTCATCGCAGGTCCTCAAAGGTCAAGTTTGACCTTAAGG
TCACAGAGCCAGCCCCTCCAGAGAAGGCAGAGTCTGCAGTTGCTCCAACCTCTATGGAAGTCCAGAAAC
TCCCAAAGAAGTTCTGTCTAGCCACTCAGTTGGAAGGAAATGTCTCAAGTCTGAAGGGTCAGTCTCG
GTAACCCAGGATGGCTCAGTCGACAGGGAGTCAGGGAGCCCTGACGACCTATTGGCCTCTTTCTGATGC
GGCCACAGGATGGCGAGGTGACCGTGGCGGCAGCATCGTCTTCTCAGCCGAGTGGCGGGAGCCAGCCT
CCTGAAACCGCTGTAGTCAAGTGGTTAAGGGCAAGTGGGTGGACCTGAGCAGCAAGGTGGCCAGCAC
CTGCAGCTGCACGACAGCTACGACAGAGCCAGCAAGGTCTACTTGTGAGTTGCACATCACAGATGCGC
AGGCCACTTCTGCTGGGGCTACCGCTGTGAGGTGTCTACCAAGGACAAATTTGACAGCTGCAACTTCAA
CCTCACTGTACATGAGGCCATTGGTTCTGGAGACCTGGACCTCAGATCAGCTTCCGACGCACGAGCCTG
GCTGGAACGGGTGGGAGAACAGTACAGCCATGAAGATGCTGGGACTCTGGACTTAGCTCCCTGCTGA
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ACAGGGCGCCACCGTCAGAATATGAGCGCATCGCCTTCCAGCAGGAGTCAAGACCTGCGAGGCATGCTG
AAGAGGCTCAAGGGCATGAAGCAGATGAAAAGAAGAGCACAGCCTTTCAGAAGAAGCTGGAGCCTGCCT
ACCAGGTAACAAGGGCCACAAGATCCGGCTTACTGTGGAAGTGGCTGATCCAGACGCCGAAGTCAAGTG
GCTTAAGAATGGACAGGAGATCCAGATGAGTGGCAGGTACATCTTTGAGTCCATCGGTGCCAAGCGTACC
CTGACCATCAGCCAGTGTCTACTGGCTGACGATGCAGCCTACCAGTGTGTGGTGGGGGTGAGAAATGCA
GCACAGAGCTCTTTGTCAAAGAACCCCGGTGCTGATCACTCGGTCCCTGGAAGACCAGCTAGTATGGT
GGGTCAGCGGGTGGAGTTGAGTGTGAGGTCTCAGAAGAAGGGGCCCAAGTCAAATGGCTGAAGGATGGG
GTTGAGCTGACTCGGGAGGAGACCTTCAAATACCGGTTCAAGAAAGATGGACGGAAGCACCACTTATCA
TCAACGAAGCGACCCTGGAGGACGAGGACACTATGCAGTTCGCACAAGTGGGGGCCAAGCACTGGCTGA



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GCTCATTGTGCAAGAGAAGAAGCTGGAGGTCTACCAAAGCATCGCGGACCTGGCGTGGGAGCGAAGGAC
 CAGGCTGTGTTAAGTGTGAGGTTTCAGATGAGAACGTGCGTGGCGTGTGGCTGAAGAACGGGAAGGAAC
 TGGTGCCGGACAACCGCATAAAGGTGTCCCATATAGGCCGGTCCACAACTGACCATTGACGATGTCAC
 ACCTGCCGATGAGGCTGACTACAGTTTTGTGCCTGAAGGGTTTGCTGCAACCTGTCTGCCAAGCTCCAC
 TTCATGGAGGTCAAGATTGACTTTGTGCCTAGGCAGGAACCTCCAAGATCCACTGGACTGTCTGGCA
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 GCCCCAGAAGATGCAGGTGCTGATGAGGAGTGGGTGTTTGATAAGAAGCTGTTGTGTGAGACGGAGGCC
 GTGTCCGTGTGGAGACCACAAAGACCGAAGCGTCTTCACGGTCAAGGGGCGGAGAAGGAAGATGAGGG
 TGTCTACACTGTCACAGTAAAGAACCCCGTGGCGGAGGACCAGGTCAACCTCACAGTCAAGGTCATTGAT
 GTGCCAGATGCTCCTGCAGCCCCAAGATCAGCAACGTGGGCGAGGACTCCTGCATTGTGCAAGTGGGAAC
 CACCTGCCTATGATGGTGGCAGCCGCTCCTGGGATACATCCTGGAGCGCAAGAAGAAAAAGAGCTACAG
 GTGGATGAGGCTCAACTTCGATCTGCTGCGGGAGCTGAGCCACGAAGCCAGGCGCATGATTGAGGGTGA
 GCCTATGAGATGAGAGTCTACCGGTCAATGCTGTGGAAATGTCCAGGCCAGCCCTGCCTCTCAGCCCT
 TCATGCCTATTGGCCCCCTGGTGAACCAACTCACCTGACTGTGGAGGATGTGTCGGACACCACAGTCTC
 ACTCAAGTGGCGGCCCCAGAGCGTGTGGGTGCAGGTGGCTGGACGGATACAGTGTGGAGTATTGCCAG
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 TACCCACTGGGGCACGGCTGCTGTTCCGAGTGGGGCACACAATGTGGCAGGTCCTGGGGCCCTATCAT
 CACCAAGGAGCCTGTAACAGTGCAGGAGATACTGCAGCGACCACGGCTCCAAGTCCCCAGACACCTGCGC
 CAGACCATCCAGAAGAAAGTTGGGGAGCCTGTGAACCTCCTCATCCCTTCCAGGGCAAACCCCGGCCCTC
 AAGTGACCTGGACAAAAGAGGGGAGCCACTGGCAGGCGAGGAGGTGAGCATCCGCAACAGCCCCACAGA
 CACAATCTTGTTCATCCGAGCTGCCACCGCACTCACTCGGCACCTACCAGGTGACAGTTCGCATTGAG
 AACATGGAGGACAAGCAACGCTGGTCTGCAGATCGTGGACAAGCCAAGTCTCCCTGGATATCCGGG
 TCGTTGAGACTTGGGGCTTCAGTGTGGCTCTGGAGTGGAAAGCCACCCCAAGATGATGGCAATACAGAGAT
 CTGGGGTTATACTGTACAGAAAGCCGACAAGAAGACCATGGAGTGGTTCAGTGTGTTTGAACATTACCGT
 CAGACTACTGTGTTGATCAGAGCTTATCATTGGCAATGGTACTACTTCCGGGTCTTCAGCCATAACA
 TGGTGGGCTCCAGTGACAGAGCTGCTGCCACCAAGGAGCCATCTTTATCCGAGACCAGGCATCACATA
 TGAGCCACCCAAATACAAGGCCCTGGACTTCTCTGAAGCCCCAAGCTTACCCAGCCCTTGACAAACCGC
 TCCATCATTGCAGGCTACAATGCCATCCTCTGCTGTGCTGTCCGGGTAGTCTAAGCCCAAGATTTCT
 GGTCAAGAATGGCTTGGACCTGGGAGAAGATGCTCGTTTTCGCATGTTCTGCAAGCAGGGAGTATTGAC
 CCTGGAGATCAGGAAGCCCTGTCCCTATGATGGGGGTGCTATGTCTGCAGAGCCACCAACTGCAGGGT
 GAGGCACAGTGTGAGTGGCCCTGGAGGTGCGAGTTCCTCAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1567_a04.zip

Restriction Sites: SgfI-MluI

ACCN: NM_001106490

Insert Size: 3825 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_001106490.1](#), [NP_001099960.1](#)

RefSeq Size: 4165 bp

RefSeq ORF: 3825 bp

Locus ID: 295929

UniProt ID: [P56741](#)

Cytogenetics: 3q24

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.[UniProtKB/Swiss-Prot Function]