

## Product datasheet for **RR207982**

### Mybpc3 (NM\_001106490) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mybpc3 (NM_001106490) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mybpc3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR207982 representing NM_001106490 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCTGAGCCAGGGAAGAGACCAGTGTGAGCCTTCACCAAGAAGCCAGGTCAGTGGAGGTGACCGCAG  
GCAGTGTCTGTGTTTCGAGGCTGAGACGGAGCCGTCAGGCCTGAAGGTGCAGTGGCAGCGGGATGGCAG  
TGATATCGCTGCCAATGACAAGTATGGTTTGGCAGCAGAGGGCAAACGACACACTGACAGTGGGGAT  
GTGGCCCTGACGATCAGGGTTCCTATCGGTCATCGCAGGCTCCTCAAAGGTCAAGTTTGACCTTAAGG  
TCACAGAGCCAGCCCTCCAGAGAAGGCAGAGTCTGCAGTTGCTCCAACCTCTATGGAAGTCCAGAAAC  
TCCCAAAGAAGTTCCTGCTCTAGCCACTCAGTTGGAAGGAAATGTCTCAAGTCCTGAAGGGTCAGTCTCG  
GTAACCCAGGATGGCTCAGTCGACAGGGAGTCAGGGAGCCCTGACGACCTATTGGCCTCTTTCTGATGC  
GGCCACAGGATGGCGAGGTGACCGTGGCGGCAGCATCGTCTTCTCAGCCGAGTGGCGGGAGCCAGCCT  
CCTGAAACCGCTGTAGTCAAGTGGTTAAGGGCAAGTGGGTGGACCTGAGCAGCAAGGTGGCCAGCAC  
CTGCAGCTGCACGACAGCTACGACAGAGCCAGCAAGGTCTACTTGTGAGTTGCACATCACAGATGCGC  
AGGCCACTTCTGCTGGGGCTACCGCTGTGAGGTGTCTACCAAGGACAAATTTGACAGCTGCAACTTCAA  
CCTCACTGTACATGAGGCCATTGGTTCTGGAGACCTGGACCTCAGATCAGCTTCCGACGCACGAGCCTG  
GCTGGAACGGGTGGGAGAACAGTACAGCCATGAAGATGCTGGGACTCTGGACTTTAGCTCCCTGCTGA  
AGAAGAGCAGTTTCCGGAGGGACTCAAAGCTAGAAGCACCCGCTGAAGAAGATGTGTGGGAGATCCCTGAG  
ACAGGGCGCCACCGTCAGAATATGAGCGCATCGCCTTCCAGCAGGAGTCAAGACCTGCGAGGCATGCTG  
AAGAGGCTCAAGGGCATGAAGCAGATGAAAAGAAGAGCACAGCCTTTCAGAAGAAGCTGGAGCCTGCCCT  
ACCAGGTAACAAGGGCCACAAGATCCGGCTTACTGTGGAAGTGGCTGATCCAGACGCCGAAGTCAAGTG  
GCTTAAGAATGGACAGGAGATCCAGATGAGTGGCAGGTACATCTTTGAGTCCATCGGTGCCAAGCGTACC  
CTGACCATCAGCCAGTGTCTACTGGCTGACGATGCAGCCTACCAGTGTGTGGTGGGGGTGAGAAATGCA  
GCACAGAGCTCTTTGTCAAAGAACCCCGGTGCTGATCACTCGGTCCCTGGAAGACCAGCTAGTATGGT  
GGGTCAGCGGGTGGAGTTGAGTGTGAGGTCTCAGAAGAAGGGGCCAAAGTCAAATGGCTGAAGGATGGG  
GTTGAGTCACTCGGGAGGAGACCTTCAAATACCGGTTCAAGAAAGATGGACGGGAAGCACCATTGATCA  
TCAACGAAGCGACCCTGGAGGACGAGGACACTATGCAGTTCGCACAAGTGGGGCCAAGCACTGGCTGA



[View online »](#)

GCTCATTGTGCAAGAGAAGAAGCTGGAGGTCTACCAAAGCATCGCGGACCTGGCGTGGGAGCGAAGGAC  
CAGGCTGTGTTTAAAGTGTGAGGTTTCAGATGAGAACGTGCGTGGCGTGTGGCTGAAGAACGGGAAGGAAC  
TGGTGCCGGACAACCGCATAAAGGTGTCCCATATAGGCCGGTCCACAACTGACCATTGACGATGTCAC  
ACCTGCCGATGAGGCTGACTACAGTTTTGTGCCTGAAGGGTTTGCTGCAACCTGTCTGCCAAGCTCCAC  
TTCATGGAGGTCAAGATTGACTTTGTGCCTAGGCAGGAACCTCCAAGATCCACTGGACTGTCTGGCA  
GCACACCAGACACCATTGGTTGTTGCTGGGAACAAGTTACGCCTGGATGTCCCTATTTCTGGGGACCC  
TGCTCCCACTGTAATCTGGCAAAGACTATAACACAGGGGAAGAAGGCCCTCAGCTGGGCCACCCCTGGT  
GCCCCAGAAGATGCAGGTGCTGATGAGGAGTGGGTGTTTGATAAGAAGCTGTTGTGTGAGACGGAGGGCC  
GTGTCCGTGTGGAGACCACAAAGACCGAAGCGTCTTCACGGTCAAGGGGCGGAGAAGGAAGATGAGGG  
TGTCTACACTGTCACAGTAAAGAACCCCGTGGCGAGGACCAGGTCAACCTCACAGTCAAGGTCATTGAT  
GTGCCAGATGCTCCTGCAGCCCCAAGATCAGCAACGTGGGCGAGGACTCCTGCATTGTGCAAGTGGGAAC  
CACCTGCCTATGATGGTGGCAGCCGGTCTGGGATACATCCTGGAGCGCAAGAAGAAAAAGAGCTACAG  
GTGGATGAGGCTCAACTTCGATCTGCTGCGGGAGCTGAGCCACGAAGCCAGGCGCATGATTGAGGGTGA  
GCCTATGAGATGAGAGTCTACCGGTCAATGCTGTGGAAATGTCCAGGCCAGCCCTGCCTCTCAGCCCT  
TCATGCCTATTGGGCCCCCTGGTGAACCAACTCACCTGACTGTGGAGGATGTGTCGGACACCACAGTCTC  
ACTCAAGTGGCGGCCCCAGAGCGTGTGGGTGCAGGTGGCTGGACGGATACAGTGTGGAGTATTGCCAG  
GAGGGCTGCTCCGAGTGGGTGACTGCTCTGCAGGGTTGACAGAGCGCACTTCGCTGCTGGTGAAGGACC  
TACCCACTGGGGCACGGCTGCTGTTCCGAGTGGGGCACACAATGTGGCAGGTCCCTGGGGCCCTATCAT  
CACCAAGGAGCCTGTAACAGTGCAGGAGATACTGCAGCGACCACGGCTCCAACCTGCCAGACACCTGCGC  
CAGACCATCCAGAAGAAAGTTGGGGAGCCTGTGAACCTCCTCATCCCTTCCAGGGCAAACCCCGGCCTC  
AAGTGACCTGGACAAAAGAGGGGCAGCCACTGGCAGGCGAGGAGGTGAGCATCCGCAACAGCCCCACAGA  
CACAACTTGTTCATCCGAGCTGCCACCGCACTCACTCGGGCACCTACCAGGTGACAGTTCGCATTGAG  
AACATGGAGGACAAGGCAACGCTGGTCTGCAGATCGTGGACAAGCCAAGTCTCCCTGGATATCCGGG  
TCGTTGAGACTTGGGGCTTCAGTGTGGCTCTGGAGTGGAAAGCCACCCCAAGATGATGGCAATACAGAGAT  
CTGGGGTTATACTGTACAGAAAGCCGACAAGAAGACCATGGAGTGGTTCCTGTTTTGGAACATTACCGT  
CAGACTACTGTGTTGATCAGAGCTTATCATTGGCAATGGTACTACTTCCGGGTCTTCAGCCATAACA  
TGGTGGGCTCCAGTGACAGAGCTGCTGCCACCAAGGAGCCATCTTTATCCGAGACCAGGCATCACATA  
TGAGCCACCCAAATACAAGGCCCTGGACTTCTCTGAAGCCCCAAGCTTACCCAGCCCTTGACAAACCGC  
TCCATCATTGCAGGCTACAATGCCATCCTCTGCTGTGCTGTCCGGGTAGTCTAAGCCCAAGATTTCT  
GGTTCAAGAAATGGCTTGGACCTGGGAGAAGATGCTCGTTTTCGCATGTTCTGCAAGCAGGGAGTATTGAC  
CCTGGAGATCAGGAAGCCCTGTCCCTATGATGGGGGTGCTATGTCTGCAGAGCCACCAACTTGCAGGGT  
GAGGCACAGTGTGAGTGCCCGCTGGAGGTGCGAGTTCCTCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR207982 representing NM\_001106490  
 Red=Cloning site Green=Tags(s)

MPEPGKRPVSAFTKKPRSVEVTAGSAAVFEAETERSGLKVQWQRDGSIDIAANDKYGLAAEGKRHTLTVRD  
 VGPDDQGSYAVIAGSSKVKFDLKVTEPAPPEKAESAVAPTSMEAPETPKVEPALATQLEGNVSSPEGSVS  
 VTQDGSVAGSQGAPDDPIGLFLMRPQDGEVTVGGSIVFSARVAGASLLKPPVVKWFKGKWDLSKVKVQHL  
 LQLHDSYDRASKVYLFELHITDAQATSAGGYRCEVSTKDKFDSCNFNLTVHEAIGSGDLDLRSAFRRTSL  
 AGTGRRTSDSHEDAGTLDFSSLLKSSFRSDKLEAPAEEDVWEILRQAPPSEYERIAFQHGVTDLRGML  
 KRLKGMKHDEKKSTAFQKKLEPAYQVKNKGHKIRLTVELADPDAEVKWLKNGQEIQMSGRYIFESIGAKRT  
 LTISQCSLADDAAYQCVVGGKECSTELFVKEPPVLITRSLDQLVMVGQRVEFECEVSEEGAQVVKWKDGL  
 VELTREETFKYRFKDKGRKHHLIINEATLEDAGHYAVRTSGGQALAEIVQEKKLEVYQSIADLAVGAKD  
 QAVFKCEVSDENVRGVWLKNGKELVPDNRKIVSHIGRVHKLITDDVTPADEADYSFVPEGFACNLSAKLH  
 FMEVKIDFVPRQEPPIHLDCPGSTPDTIVVVAGNKLRLDVPISGDPAPTIVIQKTTITQGKKASAGPPPG  
 APEDAGADEEWFVKLLCETEGRVVETTKDRSVFTVEGAKEDEGVYTVTKNPVGEDQVNLTKVVID  
 VPDAPAAPKISNVGEDSCIVQWEPAYDGGQPVLGYILERKKKSYRWMRLNFDLLREL SHEARRMIEGV  
 AYEMRVYAVNAVMSRSPASQPFMPIGPPGEPHTLTVEDVSDTTVSLKWRPPERVAGAGGLDGSYVEYCG  
 EGCSEWWTALQGLTERTSLLVKDLP TGARLLFRVRAHNVAGPGGPIITKEPVTVQEILQRPRQLPRHLR  
 QTIQKKVGEVNNLLIPFQGKPRPQVTWTKEGQPLAGEEVSIRNSPTDTILFIRAAHRTHSGTYQVTVRIE  
 NMEDKATLVLQIVDKPSPLDIRVETWGFVVALEWKPPQDDGNTEIWGYTVQKADKKTMEWFTVLEHYR  
 QTHCVVSELIIGNGYFRVFSHNMVGSDDRAAAATKEPIFIPRPGITYEPPKYKALDFSEAPSFTQPLTNR  
 SIIAGYNAILCCA VRGSPKPKISWFKNGLDLGEDARFRMFCKQGVLTLEIRKPCPYDGGVYVCRATNLQG  
 EAQCECRLEVRVPQ

TRTRPLEQKLISEEDLAANDILDYKDDDDK

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

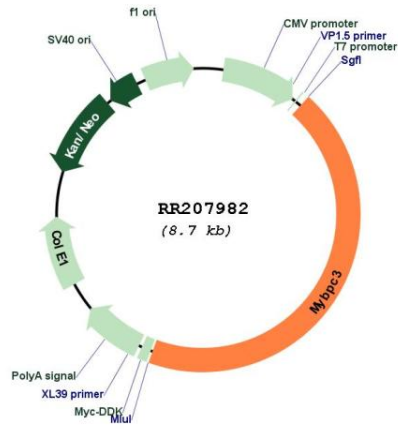


**ACCN:** NM\_001106490

**ORF Size:** 3822 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001106490.1</a> , <a href="#">NP_001099960.1</a>
<b>RefSeq Size:</b>	4165 bp
<b>RefSeq ORF:</b>	3825 bp
<b>Locus ID:</b>	295929
<b>UniProt ID:</b>	<a href="#">P56741</a>
<b>Cytogenetics:</b>	3q24
<b>MW:</b>	140.8 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for RR207982