

Product datasheet for SC117324

MYBPC2 (NM_004533) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYBPC2 (NM_004533) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYBPC2
Synonyms:	fsMyBP-C; MYBPC; MYBPCF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117324 sequence for NM_004533 edited (data generated by NextGen Sequencing)

```

ATGCCTGAGGCAAACCAGCGGCCAAAAAGGCCCCCAAAGGCCAAAGATGCCCCCAAGGA
GCCCCCAAGGAGGCTCCCCCTAAGGAGGCTCCTGCAGAGGCCCCCAAGAAGCCCAACC
GAGGACCAAGTCCCCGACTGCAGAGGAGCCACCGCGTTTTCTGAAGAAGCCGACTCC
GTCTCAGTGGAGACTGGGAAGGACGCAGTGGTCGTGGCCAAGGTGAACGGGAAGGAGCTC
CCAGACAAACCGACCATCAAGTGGTTCAAGGGGAAGTGGCTGGAGCTGGGAGCAAGAGT
GGCGCCCGCTTCTCCTTCAAGGAGTCCCACAACCTCGCCAGCAATGTGTACACCGTGGAG
CTGCACATTGGGAAGGTGGTACTGGGGGACCGTGGGTATTACCGCCTCGAGGTCAAAGCC
AAGGACACCTGTGACAGCTGTGGCTTCAACATCGATGTGGAGGCACCCCGTCAGGATGCC
TCTGGGCAGAGTCTAGAAAGCTTCAAGCGTACGAGTGAAGAAGAAGTCGGATACTGCAGGT
GAGCTGGATTTCAAGTGGCCTGTTGAAGAAGAGGGAGGTGGTGGAGGAGGAGAAGAAGAAG
AAAAAGAAAGATGACGATGACCTAGGCATCCCCCGGAGATTTGGGAGCTCCTGAAAGGG
GCAAAGAAGAGCGAGTACGAGAAAATCGCCTTCCAGTATGGCATCACCGACCTCCGGGGC
ATGCTGAAGCGGCTGAAAAGGCTAAGGTGAGGTCAAGAAGAGTGCAGCATTCAAAGG
AAGCTGGATCCAGCCTACCAAGTGGACAGAGGCAACAAGATCAAGTTGATGGTAGAGATC
AGCGACCCAGACCTGACCCTCAAGTGGTCAAGAACGGCCAGGAGATCAAACCAAGCAGC
AAGTACGTGTTTGAGAACGTTGGTAAGAAGCGAATTCTTACCATCAACAAGTGCACGCTG
CGGGATGACGCTGCCTATGAAGTAGCTGTCAAGGATGAGAAGTGTTCACCGAGCTTTC
GTCAAAGAACCTCCAGTCTAATTGTACACCTCTTGAGGACCAGCAGGTGTTTGTGGGT
GACCGGGTGGAAATGGCAGTGGAGGTGTGAGAAGAGGGTGCCAGGTGATGTGGATGAAA
GATGGTGTGAACTGACTCGGGAGGATTCTTCAAGGCCCGGTACCGCTTCAAGAAGGAC
GGGAAGCGCCACATCCTCATCTTCTCAGACGTGGTCCAGGAGGACAGGGGTCGCTATCAG
GTCATAACCAATGGCGGCCAGTGTGAGGCCGAGCTGATTGTGGAAGAGAAAACAGCTGGAG
GTCCTGCAGGACATCGCGGATCTGACGGTGAAGGCCTCAGAACAAGCTGTGTTCAAGTGC
GAGGTGTCTGATGAGAAAGTACGGGCAAGTGGTATAAGAATGGGGTCGAGGTGCGGCCC
AGCAAGAGGATCACCATTTCCCATGTAGGCAGGTCCACAAGCTGGTGTGATGACGTC

```



[View online »](#)

CGCCCCGAGGATGAGGGAGACTACACGTTTGTGCCTGACGGCTACGCCCTGTCGCTCTCG
 GCCAAGCTCAACTTCTGGAAATCAAGGTGGAGTACGTTCCCAAGCAAGAGCCACCAAAG
 ATCCACTTGGATTGCTCGGGGAAGACCTCAGAGAATGCGATTGTGGTTGTGGCTGAAAC
 AAGCTGAGGCTTGACGTGTCCATCACAGGGGAGCCCCCTCCCGTCGCTACCTGGCTGAAG
 GGAGATGAGGTATTCACGACCACCGAGGGCAGGACCCGCATCGAGAAGCGGGTGGACTGC
 AGCAGCTTTGTGATTGAGAGTGCCGACGGGAAGACGAGGGCCGCTACACCATCAAGGTC
 ACCAACCCCGTCGGCGAGGACGTGGCTTCCATCTTCTGCAAGTTGTAGATGTCCAGAC
 CCCCCGAGGCTGTGCGCATCACCTCGGTTGGAGAGGATTGGGCCATCCTTGTCTGGGAG
 CCACCAATGTACGATGGGGGAAGCCAGTCACCGGTACCTCGTAGAGCGGAAGAAGAAG
 GGCTCTCAGCGCTGGATGAAGCTGAACCTTGTAGGCTTTCACAGAGACCACCTATGAGTCC
 ACCAAGATGATCGAGGGCATCCTCTATGAGATGCGTGTCTTCGCCGTCATGCTATAGGG
 GTCTCCCAGCCCAGCATGAACACCAAGCCTTTTATGCCTATTGCACCCACGAGTGAACCC
 CTGCACCTGATAGTGGAGGATGTGACAGACACCACCACCACTCAAGTGGAGGCCTCCG
 AACAGGATCGGGCAGGTGGCATCGATGGGTACCTGGTGGAGTACTGCCTGGAAGGCTCC
 GAGGAATGGGTCCCTGCCAACACCGAGCCCGTGGAGCGTGTGGCTTACCGTCAAGAAT
 CTCCCAGCCGAGCCAGAATCCTTCCGAGTAGTTGGGGTCAACATCGCGGGCCGACG
 GAGCCGGCCACCCTGGCCAGCCGGTCACCATCAGGGAGATTGCGGAGCCACCCAAGATC
 CGGCTTCCCCGCCATCTCCGCCAGACCTACATCCGAAAGTGGGCGAGCAGCTCAACCTT
 GTCGTCCCCTTCCAGGAAAGCCCCGGCCCCAGGTGGTGTGGACCAAGGGCGGGGCCCCG
 CTGGACACCTCCCGCGTGCACGTGCGGACCAGCGACTTCGACACCGTGTCTTCGTGCGC
 CAGGGCGCCCGCTCCGACTCCGGGGAGTACGAGCTGAGCGTGCAGATCGAGAATGAAG
 GACACCGCCACCATCCGCATCCGCTTGTGAAAAGGCTGGGCCCCCATAAACGTGATG
 GTGAAGGAGGTGTGGGGCACGAACGCGCTGGTGGAGTGGCAGGCCCCCAAGATGATGGG
 AACAGTGAGATCATGGGGTATTTTCGTCCAGAAAGCAGACAAAAAACCATGGAGTGGTTC
 AACGTCTATGAACGTAACAGGCACACTAGCTGTACTGTGTCGACCTTATCGTGGCAAT
 GAATACTATTTCCGAGTTTACACCGAGAACATCTGTGGGCTCAGTGACTCACCTGGTGT
 TCCAAGAACACGGCCCGCATCCTCAAGACAGGAATCACCTTCAAACCGTTCGAGTATAAG
 GAGCATGACTTCCGGATGGCTCCCAAGTTCCTGACACCTCTCATAGACCGCGTGGTCTG
 GCTGGGTACTCGGCAGCCCTCACTGTGCTGTGACAGGCCACCCGAAGCCGAAGGTGGT
 TGGATGAAGAACAAGATGAAATCCGTGAAGATCCCAAGTTCCTGATAACCAATTACCAA
 GGAGTCTGACGCTGAACATCCGTGCCCCCTCGCCCTTCGACGCTGGGACTTACACCTGC
 CGGGCCGTCAACGAGCTGGGCGAGGCGCTGGCTGAGTGAAGCTGGAGGTCCGAGTGCC
 CAGTGA

Clone variation with respect to NM_004533.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004533 unedited
 NTTGTTCAAATTTTGAATACGACTCACTATAGGGCGGCCCGCAATCGGCACGAGGCGC
 GGCTGCGGTGAGAGGAGCAGGAGGAGTCCCCGACATGCCTGAGGCAAAACCAGCGGCC
 AAAAAGGCCCCCAAGGCAAGATGCCCCAAAGGAGCCCAAGGAGGCTCCCCCTAAG
 GAGGCTCTGCAGAGGCCCCAAAGAAGCCCCACCCGAGGACAGTCCCCGACTGCAGAG
 GAGCCACCGCGCTTTTCTGAAGAAGCCCGACTCCGTCCTCAGTGGAGACTGGGAAGGAC
 GCAGTGGTCTGGCCAAGGTGAACGGGAAGGAGTCCCAGACAAACCGACCATCAAGTGG
 TTCAAGGGGAAGTGGCTGGAGCTGGGCAGCAAGAGTGGCGCCCGCTTCTCCTTCAAGGAG
 TCCCACAACTCCGCCAGCAATGTGTACACCGTGGAGCTGCACATTGGGAAGGTGGTACTG
 GGGACCGTGGGTATTACCGCTCGAGGTCAAAGCCAAGGACACCTGTGACAGCTGTGGC
 TTCAACATCGATGTGGAGGCACCCCGTCAAGGATGCCTCTGGGCAGAGTCTAGAAAGCTTC
 AAGCGTACGAGTAAAAGAAGTCCGATACTGCAGGTGAGCTGGATTTTCAAGTGGCCTGTTG
 AAAAAAGGGAGGTGGTGGAGGAGGAGAAAAAGAAGAAAAAGAAAGATGACGATGACCTA
 GGCATCCCCCGGAGATTTGGGAGCTCCTGAAAGGGGCANAGAAGAGCGAGTACGAGAAA
 ATCGCCTTNCAGTATGGCATCACCGACCTCNCGGGCATGCTGAAAGCGCTGAAAAGGCTA
 ANGTTTCGAGTCAAGAGAGTGCAGCATTCAAGAAGCTGGATCCACCTACCAGTGGNACA
 GAGCACAGA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004533 unedited
TACGCGGCCGCATTTTANAGTCGAGTT
TTTTTTTTTTTTTTTTTCCCAAACAACATTGTTTTGTTTTTCAGCAAAAACCCAAAAAAA
CACAGCCCTGGAAGGTTGGGGATTGGGGTCAGGACTCCACCACCAATTGTTTTGGCAGGT
AGGGAACAGGTTTAATTGGGGCACTGGGACCTCCAGTTTGCACTAAACCAGCGCCTCCCC
CATTTTGTAAACGGCCCGCAGGTGTAATCCCCACCGTCAAAGGGCAAGGGGCAACGGAT
TTTCACCGCCAGGACTCCTTGAAATGGGTTATAAGAACTTGGGATCTTCACGGATTTTC
CATTTTGTTTTAAATCCAACCACCTTCGGTTTGGGGGGCCTTTGACAGCACAGTTGAG
GGCTGCCGAGTACCCAGCCACAACCACGGGTTTATGAAAGGGGTCAGGAACTTGGAAACC
CATCCGGAAGTCATGCTCTTTATACTCAAACGGTTTGAAGGGGATTCTGTTTTGAGGAT
GCGGGCCCTGTTCTTGAAACCCAGGGGAGTCCTTGAGCCACAGATGTTTTCGGGGTA
AACTCGAAAATAATATTATTTGCCAAGATAAGGCCGGCACCACAACACCTAGTGTGCT
GTTACGTTAATAAACGTTGAACCCCTCCCTGGTTTTTTTTTGGCTTTTTTGCAAAAAAA
CACCCAGTGACCTCCCTGTCTCCATTATCTTTGGGGGGCCTGCCATTCCACCAGGGCG
TTTCGGCCCCCACTTTTTTAACATAAGGTTTATGGGGGCCACCTTTTCCAAAGCGGG
ATGCCGGAGTGGGCGGGTCTCTTATGTTTTTATTGGACCCTCAATTTGACTCCCCCGGA
TCCGAACCGGCCCTGGCCN

Restriction Sites:

NotI-NotI

ACCN:

NM_004533

Insert Size:

3600 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_004533.2](#), [NP_004524.2](#)

RefSeq Size: 3572 bp

RefSeq ORF: 3426 bp

Locus ID: 4606

UniProt ID: [Q14324](#)

Cytogenetics: 19q13.33

Domains: ig, IGc2, IG, FN3

Gene Summary: This gene encodes a member of the myosin-binding protein C family. This family includes the fast-, slow- and cardiac-type isoforms, each of which is a myosin-associated protein found in the cross-bridge-bearing zone (C region) of A bands in striated muscle. The protein encoded by this locus is referred to as the fast-type isoform. Mutations in the related but distinct genes encoding the slow-type and cardiac-type isoforms have been associated with distal arthrogyrosis, type 1 and hypertrophic cardiomyopathy, respectively. [provided by RefSeq, Jul 2012]