

Product datasheet for **SC309960**

MYBPC1 (NM_002465) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYBPC1 (NM_002465) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYBPC1
Synonyms:	LCCS4; MYBPCC; MYBPCS; MYOTREM; ssMyBP-C
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002465, the custom clone sequence may differ by one or more nucleotides

```

ATGCCAGAACCCTAAGAAAGAGGAAAATGAAGTGCCAGCCCCAGCCCCACCCCGGAA
GAACCAAGTAAAGAGAAGGAGGCCGGAACCTACCCAGCAAAGATGAAGAGGAAGTCTCC
CCGCCTAGCGCCTTGCCTCCAGGTTTGGGTAGTCGGGCCCTGGAGAGAAAAGATTCAGAC
TGGACCCTTGTGAAACTCCTCTGGGGAGGAACAAGCCAAGCAGAAATGCCAACTCCCAG
CTGTCCATCTTGTTCATTGAAAACTCAAGGAGGAACAGTGAAAGTTGGTGAAGATATC
ACCTTCATAGCCAAAGTCAAGGCTGAAGATCTTCTGAGAAAACCCACTATCAAATGGTTC
AAAGAAAATGGATGGACCTGGCCAGCAAAGCCGGGAAGCACCTTCAGCTGAAGGAAACC
TTTGAGAGGCACAGTCGGGTGTACACATTTGAGATGCAGATCATCAAGGCCAAAGATAAC
TTTGCAGGAAATTACAGATGCGAGGTCACCTATAAGGATAAGTTTGACAGCTGTTCAATTT
GATCTTGAAGTGCACGAATCTACTGGGACTACTCCAAACATTGACATCAGATCTGCTTTC
AAGAGAAGTGGAGAAGGTCAAGAGGATGCAGGAGAAGTACTTGTAGTGGTCTCCTGAAA
CGTAGGGAGGTGAAGCAGCAGGAGGAAGAACCAGGTGGACGTATGGGAGTTGCTGAAG
AACGCGAAACCCAGTGAGTACGAGAAGATCGCCTTCCAGTATGGAATCACCGACCTGCGC
GGCATGCTCAAGCGACTCAAGCGCATGCGCAGAGAGGAGAAGAAGAGCGCAGCTTTTGA
AAAATTTGATCCTGCATATCAGTTGACAAAGGAGGCAGAGTGAGTTTGTGTGGAG
CTGGCAGATCCAAAGTTGGAGGTGAAATGGTATAAAAATGGTCAAGAAATTCGACCCAGT
ACCAAATACATCTTTGAACACAAAGGATGCCAGAGAATCCTGTTTATCAATAACTGTCAG
ATGACAGATGATTCAGAGTATTATGTGACAGCCGGTGATGAGAAATGTTCCACTGAGCTC
TTCGTAAGAGAGCCTCCAATTATGGTGACCAAACAGCTGGAAGATACAACCTGCTTATTGT
GGGAGAGAGTGGAAATTAGAATGTGAGGTGTCTGAAGATGATGCCAATGTAATGGTTT
AAGAATGGTGAAGAGATTATCCCTGGTCCAAAATCAAGATACCGAATTAGAGTTGAGGGT
AAAAAACACATCTTGATCATAGAGGGAGCAACAAAGGCTGATGCTGCAGAATATTCAGTA
ATGACAACAGGAGACAATCATCTGCTAAACTTAGTGTGACTTGAACCTCTGAAGATT
TTGACACCTCTGACTGATCAGACTGTAATCTTGGAAAAGAAATCTGCCTGAAGTGTGAA
ATCTCTGAAAACATACCAGGAAAATGGACTAAAATGGCCTACCTGTTCCAGGAGAGTGAC
CGTCTAAAGGTGGTTCAAGGGGAAGGATCCACAAGTTAGTGATAGCCAATGCCCTCACT
GAAGATGAAGGTGATTATGTATTTGCACCTGATGCCTACAATGTTACTCTGCCTGCCAAA
GTTTCATGTTATTGATCCTCCTAAGATCATCCTGGATGGTCTTGTGCTGACAACACAGTG
ACAGTGATTGCAGGAAACAAGCTTCGTCTTGAGATCCCCATCAGCGGAGAACCACCTCCT

```



[View online »](#)

```

AAAGCCATGTGGAGCCGGGGAGATAAGGCTATTATGGAAGGCAGTGGCCGGATAAGAACA
GAATCTTACCCTGATAGCAGCACTCTGGTCATTGATATAGCTGAAAGAGATGACTCTGGT
GTTTACCACATCAATCTGAAAAACGAAGCTGGAGAGGCACATGCAAGCATCAAGGTTAAA
GTTGTGGACTTCCCTGATCCTCCAGTGGCACCGACTGTGACAGAGGTGGGAGATGACTGG
TGTATCATGAAC TGGGAGCCTCTGCCTACGACGGAGGCTCTCCAATCCTAGGATATTTT
ATTGAGAGGAAGAAGAAACAAAGCTCCAGGTGGATGAGGCTGAATTTTGTCTCTGCAAA
GAAACAAC TTTTGGAGCCCAAGAAGATGATTGAAGGTGTGGCCTATGAGGTCGCCATCTTT
GCAGTCAATGCCATTGGCATCTCCAAGCCAGTATGCCCTCCAGGCCTTTTGTTCCTTTG
GCTGTAACAAGCCCTCTACTCTTCTGACTGTGGACTCTGTCACTGACACGACTGTCACG
ATGAGGTGGCGCCCCCAGACCACATTGGTGCAGCAGGTTTAGATGGCTATGTGTAGAG
TATTGCTTTGAAGGAACTGAGGACTGGATAGTTGCAAACAAGATCTGATTGACAAGACG
AAGTTCACCATCACAGGTCTGCCAACAGATGCAAAGATCTTTGTGCGTGTGAAGGCTGTT
AATGCAGTGGTGCCAGCGAGCCCAAGTACTATTCTCAGCCATTCTCGTGAAGGAAATC
ATAGAACCTCAAAGATTCGCATTCCAAGACACCTGAAGCAAACCTATATCCGCAGAGTT
GGAGAAGCTGTCAATCTGGTTATACCTTTCCAGGGAAAACCAAGACCAGAATTAACCTGG
AAGAAGGATGGTGCGAGAAATTGATAAGAATCAAATAAACATTCCGCAACTCTGAGACTGAT
ACAATCATATTTATTAGAAAAGCAGAGAGGAGCCACTCTGGGAAATATGATCTGCAAGTC
AAAGTGGACAAATTCGTGGAGACCGCATCAATTGACATCCAGATCATTGACCGTCCAGGT
CCACCCAAATTTGTGAAGATTGAGGATGTCTGGGGAGAAAATGTCGCTCTCACATGGACT
CCACCAAAGGATGATGGAATGTCTGCTATCACAGGCTATACCATTGAGAGGCTGACAAG
AAGAGCATGGAATGGTTTACTGTCTATTGAGCATTATCATCGAACCAGTCCACCATTACT
GAATTGGTCATAGGGAATGAATATTACTTCCGGTCTTTTCTGAAAACATGTGTGGCCTC
AGTGAGGATGCCACCATGACTAAAGAGAGTGCAGTGATCGCCAGGGATGGTAAAAATCTAC
AAAAATCCAGTGTATGAAGACTTTGATTTCTCAGAGGCACCCATGTTTACTCAGCCTTTG
GTTAACACCTATGCCATAGCTGGTTACAATGCCACCCTAAACTGCAGTGTGAGAGGAAAT
CCTAAGCCTAAAAAACCTGGATGAAAAACAAAGTTGCTATTGTGGATGATCCAAGATAC
AGGATGTTTCCAGCAACCAGGGAGTCTGTACCCTGGAAATTCGCAAGCCAGCCCTATGAT
GGAGGCACTTACTGCTGCAAAGCAGTCAATGACCTTGGGACAGTGGAGATTGAATGCAAA
CTGGAGGTGAAAGTGATATATCAAGGAGTAAATACCCCTGGACAACCAGTCTTCTGGAG
GGGCAGCAACAGTCATTGCACAATAAGGATTTTGA
    
```

- Restriction Sites:** Please inquire
- ACCN:** NM_002465
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_002465.2](#), [NP_002456.2](#)

RefSeq Size: 3938 bp

RefSeq ORF: 3516 bp

Locus ID: 4604

UniProt ID: [Q00872](#)

Cytogenetics: 12q23.2

Domains: ig, IGc2, IG, FN3

Gene Summary: This gene encodes a member of the myosin-binding protein C family. Myosin-binding protein C family members are myosin-associated proteins found in the cross-bridge-bearing zone (C region) of A bands in striated muscle. The encoded protein is the slow skeletal muscle isoform of myosin-binding protein C and plays an important role in muscle contraction by recruiting muscle-type creatine kinase to myosin filaments. Mutations in this gene are associated with distal arthrogryposis type I. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]
Transcript Variant: This variant (1) represents the longest transcript and encodes isoform 1.