

## Product datasheet for **SC332263**

### MYBPC1 (NM\_001254723) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MYBPC1 (NM\_001254723) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** MYBPC1  
**Synonyms:** LCCS4; MYBPCC; MYBPCS; MYOTREM; ssMyBP-C  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC332263 representing NM\_001254723.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
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AGGAAGAAGAAACAAAGCTCCAGGTGGATGAGGCTGAATTTTGATCTCTGCAAAGAAACAACTTTTGAG
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CTGCGAGACTTACTCAAGCAATCCTGAGGAATCTGA
    
```

**Restriction Sites:**

Sgfl-Mlul

**ACCN:**

NM\_001254723

**Insert Size:**

3420 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\\_001254723.1](#)
**RefSeq Size:**

3778 bp

**RefSeq ORF:**

3420 bp

**Locus ID:**

4604

**UniProt ID:**
[Q00872](#)

**Cytogenetics:** 12q23.2

**MW:** 128.4 kDa

**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 (10) lacks five exons in the coding region, compared to variant 1. The encoded isoform (10) is shorter and has a distinct C-terminus, compared to isoform 1.