

## Product datasheet for **RC235173**

### MYBPC1 (NM\_001254722) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MYBPC1 (NM\_001254722) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** MYBPC1  
**Synonyms:** LCCS4; MYBPCC; MYBPCS; MYOTREM; ssMyBP-C  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC235173 representing NM\_001254722  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCCAGAACCCTAAGAAAGAGGACTGGACCCTTGTGAACTCCTCCTGGGGAGGAACAAGCCAAGC  
AGAATGCCAACTCCAGCTGTCCATCTTGTTCATTGAAAACTCAAGGAGGAACAGTGAAGTTGGTGA  
AGATATCACCTTCATAGCCAAAGTCAAGGCTGAAGATCTTCTGAGAAAACCCACTATCAAATGGTTCAA  
GGAAAATGGATGGACCTGGCCAGCAAAGCCGGGAAGCACCTTCAGCTGAAAGGAACTTTGAGAGGCACA  
GTCGGGTGTACACATTTGAGATGACATCAAGGCCAAAGATAACTTTGCAGGAAATTACAGATGCGA  
GGTCACCTATAAGGATAAGTTTACAGCTGTTCAATTTGATCTTGAAGTGCACGAATCTACTGGGACTACT  
CCAAACATTGACATCAGATCTGCTTTCAAGAGAAGTGGAGAAGTCAAGAGGATGCAGGAGAAGTACTGACT  
TTAGTGGTCTCCTGAAACGTAGGGAGGTGAAGCAGCAGGAGGAAGAACCAGGTGGACGTATGGGAGTT  
GCTGAAGAACGCGAAACCCAGTGAGTACGAGAAGATCGCCTTCCAGTATGGAATCACCGACCTGCGCGGC  
ATGCTCAAGCGACTCAAGCGCATGCGCAGAGAGGAGAAGAAGAGCGCAGCTTTTGCAAAAATTTGATC  
CTGCATATCAGGTTGACAAAGGAGCAGAGTGAGTTTGTGTGGAGCTGGCAGATCCAAAAGTTGGAGGT  
GAAATGGTATAAAAATGGTCAAGAAAATTCGACCCAGTACCAAATACATCTTTGAACACAAAAGGATGCCAG  
AGAATCCTGTTTATCAATAACTGTCAGATGACAGATGATTCAGAGTATTATGTGACAGCCGGTGATGAGA  
AATGTTCCACTGAGCTCTTCGTAAGAGAGCCTCCAATTATGGTGACCAAACAGCTGGAAGATACAAGTGC  
TTATTGTGGGGAGAGAGTGAATTAGAATGTGAGGTGTCTGAAGATGATGCCAATGTAAGTTGGTTAAG  
AATGGTGAAGAGATTATCCCTGGTCCAAAATCAAGATACCGAATTAGAGTTGAGGGTAAAAACACATCT  
TGATCATAGAGGGAGCAACAAAGGCTGATGCTGCAGAATATTCAGTAATGACAACAGGAGGACAATCATC  
TGCTAAACTTAGTGTGACTTGAACCTCTGAAGATTTTACACCTCTGACTGATCAGACTGTAATCTT  
GGAAAAGAAATCTGCCTGAAGTGTGAAATCTCTGAAAACATACCAGGAAAATGGACTAAAAATGGCCTAC  
CTGTTCCAGGAGAGTGACCGTCTAAAGGTGGTTCAAGGGGAAGGATCCACAAGTTAGTGATAGCCAATGC  
CCTCACTGAAGATGAAGGTGATTATGTATTTGCACCTGATGCCTACAATGTTACTCTGCCTGCCAAGTT  
CATGTTATTGATCCTCCTAAGATCATCCTGGATGGTCTTGATGCTGACAACACAGTGACAGTGATTGCGA



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GAAACAAGCTTCGTCTTGAGATCCCCATCAGCGGAGAACCACCTCCTAAAGCCATGTGGAGCCGGGAGATAAGGCTATTATGGAAGGCAGTGGCCGGATAAAGACAGAACTTACCCTGATAGCAGCACTCTGGTCATTGATATAGCTGAAAGAGATGACTCTGGTGTTTACCACATCAATCTGAAAAACGAAGCTGGAGAGGCACATGCAAGCATCAAGGTTAAAGTTGTGGACTTCCCTGATCCTCCAGTGGCACCAGCTGTGACAGAGGTGGGAGATGACTGGTGTATCATGAACTGGGAGCCTCCTGCCTACGACGGAGGCTCTCCAATCCTAGGATATTTATTGAGAGGAAGAAGAAACAAAGCTCCAGGTGGATGAGGCTGAATTTGATCTCTGCAAGAAACAACATTTGAGCCCAAGAAGATGATTGAAGGTGTGGCCTATGAGGTCGCATCTTGCAGTCAATGCCATTGGCATCTCCAAGCCCAGTATGCCCTCCAGGCCTTTTGTCTTTGGCTGTAACAAGCCCTCCTACTCTTCTGACTGTGACTCTGTCACTGACACGACTGTCACGATGAGGTGGCGCCCCCAGACCACATTGGTGCAGCAGGTTTAGATGGCTATGTGCTAGAGTATTGCTTTGAAGGAAGTGGAGTGGATAGTTGCAAAACAAAGATCTGATTGACAAGACGAAGTTCACCATCACAGGTCTGCCAACAGATGCAAAGATCTTTGTGCGTGTGAAGGCTGTTAATGCAGCTGGTGCCAGCGAGCCCAAGTACTATTCTCAGCCCATTCTCGTGAAGGAAATCATAGAACCTCCAAAGATTGCGATTCCAAGACACCTGAAGCAAACCTATATCCGAGAGTTGGAGAAGCTGTCAATCTGGTTATACCTTTCCAGGGAAAACCAAGACCAGAATTAACCTGGAAGAAGGATGGTGCAGAAATTGATAAGAATCAAATAAACATTCGCAACTCTGAGACTGATACAATCATATTTATTAGAAAAGCAGAGAGGCCACTCTGGGAATATGATCTGCAAGTCAAAGTGGACAAATTCGTGGAGACCGCATCAATTGACATCCAGATCATTGACCCGCCAGGTCACCCCAAATTTGTAAGATTGAGGATGTCTGGGGAGAAAATGTCGCTCTCACATGGACTCCACAAAGGATGATGAAATGCTGCTATCACAGGCTATACCATTGAGAAGGCTGACAAGAAGAGCATGGAATGGTTTACTGTCAATTGAGCATTATCATCGAACCAAGTCCACCATTACTGAATTGGTCATAGGGAAATGAATACTACTCCGGGTCTTTCTGAAAACATGTGTGGCCTCAGTGGAGTCCACCATGACTAAAGAGAGTGCAGTGATCGCCAGGGATGGTAAAATCTACAAAATCCAGTGTATGAAGACTTTGATTCTCAGAGGCACCCATGTTTACTCAGCCTTTGGTTAACACCTATGCCATAGCTGGTTACAATGCCACCCTAAACTGCAGTGTGAGAGGAAATCCTAAGCCTAAAATAACCTGGATGAAAAACAAAGTTGCTATTGTGGATGATCCAAGATACAGGATGTTTCAGCAACCAGGGAGTCTGTACCCTGGAATTCGCAAGCCAGCCCTATGATGGAGGCACCTACTGCTGCAAAGCAGTCAATGACCTTGGGACAGTGGAGATTGAATGCAAAGTGGAGGTGAAAGTGATATACAGGAGTAAATACCCTGGACAACCAAGTCTTCTGGAGGGCAGCAACAGTCATTGCACAATAAGGATTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC235173 representing NM\_001254722  
**Red**=Cloning site **Green**=Tags(s)

MPEPTKKEDWTLVETPPGEEQAKQNANSQLSILFIEKPQGGTVKVGEDITFIAKVKAE DLLRKPTIKWFKGKWM DLASKAGHLQLKETFERHSRVYTFEMQIIKAKDNFAGNYRCEVYKDKFDFSCSFDLEVHSTGTPNIDIRSAFKRSFEGQEDAGELDFSGLLKRREVKQEEEPQVDVWELLKNAKPSEYEKIAFYQGITDLRGLMLKRLKMRREKKSAFAKILDPAYQVDKGGVRFVVELADPKLEVWKYKNGQEI RPSTKYIFEHKGCRILFINNCQMTDDSEYYVTAGDEKSTELFVREPPIMVTKQLEDTTAYCGERVELECEVSEDDANVKWFKNGEEIIPGPKSRYRIRVEGKKHILIEGATKADAAEYSVMTTGGQSSAKLSVDLKLPLKIL TPLTDQTVNLGKEICLKCEISENIPGKWTKNGLPVQESDRLKVVHKGRIHKLVIANALTEDEGDYVFPADAYNVTLPKVVHVIDPPKIILDGLDADNTVTVIAGNKLRLIPIISGEPPPAMWSRGDKAIMEGSGRIRTESYPDSSTLVIDIAERDDSGVYHINLKNEAGEAHASIKVKVDFPDPVAVTVTEVGDDWCIMNWEPPAYDGGSPILGYFIERKKKQSSRWMLNFDLCKETTFEPKMIIEGVAYEVRIFAVNAIGISKPSMPSRPFVPLAVTSPPTLLTVDSVTDTTVMRWRPPDHIGAAGLDGYVLEYCFEGTEDWIVANKDLIDKTKFTITGLPTDAKIFVRVKAVNAAGASEPKYYSQPILVKEIIEPPKIRIPRHLKQTYIRRVGEAVNLVIPFQGKPRPEL TWKKDGAEDKNQINIRNSETDTIIFIRKAERSHSGKYDLQVKVDFVETASIDIQIIDRPGPPQIVKIEDVWGENVALTWTPPKDDGNAAITGYTIQKADKKSMEWFTVIEHYHRTSATITELVIGNEYFRVFSENMCGLEDATMTKESAVIARDGKIYKNPYEDDFSEAPMFTQPLVNTYAIAGYNATLNC SVRGNPKPKITWMKNKVAIVDDPRYRMFSNQGVCTLEIRKPSPYDGGTYCCKAVNDLGTVEIECKLEVKVIYQGVNTPGQPVFLEGQQQLSHNKDF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI



<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>	<u>NM_001254722.1, NP_001241651.1</u>
<b>RefSeq Size:</b>	3841 bp
<b>RefSeq ORF:</b>	3363 bp
<b>Locus ID:</b>	4604
<b>UniProt ID:</b>	<u>Q00872</u>
<b>Cytogenetics:</b>	12q23.2
<b>MW:</b>	126.8 kDa
<b>Gene Summary:</b>	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]