

Product datasheet for **SC127268**

MYBPC1 (AL832456) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYBPC1 (AL832456) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYBPC1
Synonyms:	LCCS4; MYBPCC; MYBPCS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for AL832456, the custom clone sequence may differ by one or more nucleotides

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ATGCCAGAACCCTAAGAAAGAGGAAAATGAAGTGCCAGCCCCAGCCCCACCCCGGAAGAACCAAGTA
AAGAGAAGGAGGCCGGAACCTACACCAGCAAAAGATGAAGAGGAAGTCTCCCCGCCTAGCGCCTTGCTCC
AGGTTTGGGTAGTCGGGCCCTGGAGAGAAAAGATTCAAGTGGACCCCTGTGCGAACTCCTCTGGGGAG
GAACAAGCCAAGCAGAATGCCAACTCCCAGCTGTCCATCTTGTTTCATTGAAAAACCTCAAGGAGGAACAG
TGAAAGTTGGTGAAGATACACCTTCATAGCCAAAGTCAAGGCTGAAGATCTTCTGAGAAAACCACTAT
CAAATGGTTCAAAGGAAAATGGATGGACCTGGCCAGCAAAGCCGGAAGCACCTTCAGCTGAAGGAAACC
TTTGAGAGGCACAGTCGGGTGTACACATTTGAGATGCAGATCATCAAGGCCAAAGATAACTTTGCAGGAA
ATTACAGATGCGAGGTCACCTATAAGGATAAGTTTGACAGCTGTTCAATTTGATCTTGAAGTGCACGAATC
TACTGGGACTACTCCAAACATTGACATCAGATCTGCTTTCAAGAGAAGTGGAGAAGTCAAGAGGATGCA
GGAGAACTTGACTTTAGTGGTCTCCTGAAACGTAGGGAGGTGAAGCAGCAGGAGGAAGAACCCAGGTGG
ACGTATGGGAGTTGCTGAAGAACGCGAAACCCAGTGAGTACGAGAAGATCGCCTTCCAGTATGGAATCAC
CGACCTGCGCGGCATGCTCAAGCGACTCAAGCGCATGCGCAGAGAGGAGAAGAAGAGCGCAGCTTTTGCA
AAAATTCCTGATCCTGCATATCAGGTTGACAAAGGAGGCAGAGTGAGGTTTGTGGAGCTGGCAGATC
CAAAGTTGGAGGTGAAATGGTATAAAAAATGGTCAAGAAAATTCGACCCAGTACCAAATACATCTTTGAACA
CAAAGGATGCCAGAGAATCCTGTTTATCAATAACTGTCAGATGACAGATGATTGAGATATTATGTGACA
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GACTGTAAATCTTGAAAAGAAATCTGCCTGAAGTGTGAAATCTCTGAAAACATACCAGGAAAATGGACT
AAAAATGGCCTACCTGTTCCAGGAGAGTGACCGTCTAAAGGTGGTTCACAAGGGAAGGATCCACAAGTTAG
TGATAGCCAATGCCCTCACTGAAGATGAAGGTGATTATGTATTTGCACCTGATGCCTACAATGTTACTCT
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GCCTGCCAAAGTTCATGTTATTGATCCTCCTAAGATCATCCTGGATGGTCTTGATGCTGACAACACAGTG
ACAGTGATTGCAGGAAACAAGCTTCGTCTTGAGATCCCCATCAGCGGAGAACCACCTCCTAAAGCCATGT
GGAGCCGGGGAGATAAGGCTATTATGGAAGGCAGTGGCCGGATAAGAACAAGAATCTTACCCTGATAGCAG
CACTCTGGTCATTGATATAGCTGAAAGAGATGACTCTGGTGTTTACCACATCAATCTGAAAAACGAAGCT
GGAGAGGCACATGCAAGCATCAAGGTTAAAGTTGTGGACTTCCCTGATCCTCCAGTGGCACCAGCTGTGA
CAGAGTGGGAGATGACTGGTGTATCATGAATGGGAGCCTCTGCCTACGACGGAGGCTCTCCAATCCT
AGGATATTTTATTGAGAGGAAGAAGAAACAAGCTCCAGGTGGATGAGGCTGAATTTTGATCTCTGCAAA
GAAACAACCTTTTGGAGCCCAAGAAGATGATTGAAGGTGTGGCCTATGAGGTCCGCATCTTTGCAAGTCAATG
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ATAGAACCTCAAAGATTCGCATCCAAGACACCTGAAGCAAACCTATATCCGCAGAGTTGGAGAAGCTG
TCAATCTGGTTATACCTTCCAGGGAAAACCAAGACCAGAATTAACCTGGAAGGAGGATGGTGCAGAAAT
TGATAAGAATCAAATAAACATTCGCAACTCTGAGACTGATACAATCATATTTATTAGAAAAGCAGAGAGG
AGCCACTCTGGGAAATATGATCCGCAAGTCAAAGTGGACAAATTCGTGGAGACCCGATCAATTGACATCC
AGATCATTGACCGTCCAGGTCCACCCCAAATTTGTGAAGATTGAGGATGTCTGGGGAGAAAATGTCGCTCT
CACATGGACTCCACCAAAGGATGATGAAATGTGCTATCACAGGCTATACCATTCAGAAGGCTGACAAG
AAGAGCATGGAATGGTTTACTGTCTTACTGAGCATTATCATCGAACCAGTCCACCATTACTGAATCGGTCA
TAGGGAATGAATATTACTTCCGGTCTTTTCTGAAAACATGTGTGGCCTCAGTGAGGATGCCACCATGAC
TAAAGAGAGTGCAGTATCGCCAGGGATGGTAAAATCTACAAAAATCCAGTGTATGAAGACTTTGATTTT
TCAGAGGCACCCATGTTTACTCAGCCTTTGGTTAACACCTATGCCATAGCTGGTTACAATGCCACCCTAA
ACTGCAGTGTGAGAGGAAATCCTAAGCCTAAAATAACCTGGATGAAAAACAAGTTGCTATTGTGGATGA
TCCAAGATACAGGATGTTTACGCAACCAGGGAGTCTGTACCCTGGAATTCGCAAGCCAGCCCTATGAT
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AAGTGATATATCAAGGAGTAAATACCCCTGGACAACCAGTCTTCTGGAGGGGCAGCAACAGTCATTGCA
CAATAAGGATTTTGA
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**5' Read Nucleotide
Sequence:**

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>OriGene 5' read for AL832456 unedited
TGTAATACGACTCACTATAGGGCGCGCAATTCGGCACGAGGCACCATCTCTCGCCTG
CCTGTGGGGTTTCTGTCAACTAGTCTGTGGAGGGAAGGAGACTCTTTAAAGAATAACATCT
TATTGTGGCCATGCCAGAACCCACTAAGAAAGAGGAAAAATGAAGTGCCAGCCCCAGCCCC
ACCCCGGAAGAACCAAGTAAAGAGAAGGAGGCCGGAACACACCAGCAAAAGATGAAGA
GGAAGTCTCCCCGCTAGCGCCTTGCTCCAGGTTTGGTAGTCGGGCCCTGGAGAGAAA
AGATTCAGACTGGACCTTGTGAAACTCCTCCTGGGGAGGAACAAGCCAAGCAGAAATGC
CAACTCCCAGCTGTCCATCTTGTTCATTGAAAAACCTCAAGGAGGAACAGTGAAAGTTGG
TGAAGATATCACCTTCATAGCCAAAGTCAAGGCTGAAGATCTTCTGAGAAAACCCACTAT
CAAATGGTTCAAAGGAAAATGGATGGACCTGGCCAGCAAAGCCGGGAAGCACCTTCAGCT
GAAGGAAACCTTTGAGAGGCACAGTCCGGTGTACACATTTGAGATGCAGATCATCAAGGC
CAAAGATAACTTTGCAGGAAATTACAGATGCGAGGTCACTATAAAGGATAAGTTTGACAG
CTGTTCAATTTGATCTTGAAGTGCACGAATCTACTGGGACTACTCCAAACATTGACATCAG
ATCTGCTNTCAAGAGAAGTGGAGAATGTCAAGAAGATGCNAGGAGAACTTGACTTTAGTG
GTCTNCTGAACGTAGGGAGGTGAAGCAGCAGGAGGAANAACCCCAAGTGGACGTATGGG
GAGTGTGAAAACCGCAACCCAGTGTGAGTCGAGAAGATCNCTTTTCAAGTATGGATCACCGA
CCTGCGCGGATGCTCAGCGACTCAAGCCATGCGCANAGAGAAAAAANNAGCGCNCT
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3' Read Nucleotide Sequence:	>OriGene 3' read for AL832456 unedited ACGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTGGAGATTTTGTTCGAATTTTAAAT TAAGCAATCTGGGCAAACTTTTTTTTTTTTTTTTTTTTTTTCTTCAACATTAGGAGGAAAGAAAA AGACCACACTTGGGGGCTGGGGGAAAACAGAAAATGCTTTTTTCTCATTTCACCCAGAT TTCAAAGCAGCAGAGTGCAGAGACAGTAGCCAGGCCCTCCCTCAGTATTCCTCAGGAT TGCTTGAGTGAAGTCTCGCAGATACGAATCAATTATGTTTGGAGGTACGCCCTTGAAGA GGAGCTGCAAAAAGGAGAGCCACCTTAAATGATATTATACATTCAAAAATCCTTATTGT GCAATGACTTTACCTCCAGTTTGCATTCAATCTCCACTGTCCCAAGGTCATTGACTGCT TTGCAGCAGTAAGTGCCTCCATCATAAGGGCTGGGCTTGCGAATTTCCAGGGTACAGACT CCCTGGTTGCTGAACATCCTGTATCTTGGATCATCCACAATAGCAACTTTGTTTTTCATC CAGGTTATTTTAGGCTTAAGATTTCTCTCACACTGCAGTTTAAAGGTGGCTTTGAACC AGCTTTGGCATAGGTGTTAACCCAAGGCTGAATAAACATGGGCGCCTCTGAGAAATTAAG TCTCATACCCTGAATTTTGAATTTTACCTCCCTGGGGATCCCTGCACTCTCTTGTAGTA ATGGCGGCTCCCTCCCGGAGCCACACATGNTTAAAAAAAACCCCGGAAGTATTTTCT TCCCTATGACCATTCAACAGTGGGGCCCTGGTCCAAGATAATGCTTATGGACATTTAAC CCTCCACTCCTCTTCTGCACACCTTTGAAAGGTTACCCTGCGAAACACCTTCCCTCCTC CTTTGTGGAAGTGGGAAAAGAGTTTTTCTCCCAACCCCTATTCTCCACTTGGGGGTGCT TGACGCATTTTTTGTGTTCTCGCCGCCCC
Restriction Sites:	NotI-NotI
ACCN:	AL832456
Insert Size:	4000 bp
OTI Disclaimer:	The sequence of an 'OriGene Unique Variant' differs significantly from the associated reference. It represents a novel splice variant from the same gene locus of the reference. Although such variants are true transcripts and present opportunity for discoveries, they are not yet curated by NCBI and should not be used if the exact reference accession sequence is required.
OTI Annotation:	This TrueClone was found to represent an alternative form of the specific reference to which it is associated. Its Open Reading Frame (ORF) may represent a novel form or alternative splice variant. By virtue of it being a true transcript (cDNA clone not PCR product), it provides a biologically relevant copy of its mRNA template. For more details, please evaluate the sequence information provided on this website or contact our customer care specialists.
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:	<ol style="list-style-type: none"> 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:	AL832456.2 , CAD89927.1
RefSeq Size:	3908 bp

RefSeq ORF: 3908 bp

Locus ID: 4604

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]