

Product datasheet for RC214776L3

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OriGene Technologies, Inc.

MYBPC1 (NM_206821) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: MYBPC1 (NM_206821) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: MYBPC1

Synonyms: LCCS4; MYBPCC; MYBPCS; MYOTREM; ssMyBP-C

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC214776).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_206821

ORF Size: 3369 bp





MYBPC1 (NM_206821) Human Tagged Lenti ORF Clone - RC214776L3

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

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: <u>NM 206821.1, NP 996557.1</u>

 RefSeq Size:
 3860 bp

 RefSeq ORF:
 3372 bp

 Locus ID:
 4604

 UniProt ID:
 000872

Cytogenetics: 12q23.2

MW: 126.5 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]