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Product datasheet for RC208162

MYBPH (NM_004997) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYBPH (NM_004997) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MYBPH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC208162 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGGAAAAAAACACCTCCGAGGGCCCTGCCTGCAGTCCAGAGGAGACCGCATCTGAATCTGCCAAGG
TGCCCACAGCAGAGCCTCCCGGAGAAGTGGCAGTATCAGAGTCCACCAGAGAAGAGCAGGTGCCCAAGCC
GCAGGCCCCTGCCCCACAGGCCCCTACAGCCTCCACAGCCACTAAGCCTGCACCCCCAAGTGAAGATGTC
CCCAGTGCCCCACTGCTGCTGACCCTGGATGATGTGAGCAGCAGCTCTGTGACTGTGAGCTGGGAGCCCC
CAGAGAGGCTGGGGAGGCTGGGCCTCCAGGGCTATGTGCTGGAGCTCTGCAGAGAGGGAGCCTCGGAGTG
GGTGCCTGTGAGTGCCCGGCCCATGATGGTGACCCAGCAGACTGTGCGGAACCTGGCTCTGGGAGACAAG
TTCCTCCTGCGCGTGTCTGCAGTGAGTTCTGCAGGGGCTGGCCCGCCGGCCATGCTGGACCAGCCCATCC
ACATCCGAGAGAACATTGAGGCCCCCAAGATCCGTGTCCCCCGCCACCTCCGTCAGACCTACATCCGCCA
GGTGGGAGAGACGGTCAACCTGCAAATCCCCTTCCAGGGGAAGCCTAAGCCTCAGGCCACATGGACCCAC
AATGGCCATGCCCTGGACAGCCAGCGGGTGAGCATGCGCACCGGGGACCAGGACTCCATCCTCTTCATTC
GCTCGGCCCAGCGCTCCGACTCTGGCCGCTACGAGCTCACTGTGCGCGTGGAAGACCTGGAGGCCAAGGC
AGTCATTGACATCCTGGTGATTGAGAAACCTGGACCCCCCAGCAGCATCAGGCTCCTGGACGTCTGGGGC
TGCAATGCTGCTCTTCAGTGGACGCCACCCCAGGACACAGGCAACACAGAGCTCCTGGGCTACATGGTGC
AGAAGGCAGACAAAAAGACAGGGCAATGGTTCACAGTGCTGGAGCGCTACCACCCAACCACCTGCACCAT
CTCTGACCTCATCATCGGCAACTCGTACTCCTTCCGGGTCTTCTCAGAAAACCTGTGTGGACTCAGCACC
TCGGCCACCGTCACCAAGGAGCTCGCCCACATCCAGAAGGCAGATATTGCTGCCAAACCTAAAGGGTTTA
TTGAGCGAGACTTCTCAGAAGCCCCCTCATTCACCCAGCCCCTGGCTGACCACACCTCCACCCCTGGCTA
CAGCACCCAGTTGTTCTGCAGTGTCCGAGCTTCACCCAAGCCCAAGATCATCTGGATGAAAAACAAGATG
GAGATCCAGGGCAACCCCAAATACCGCGCCCTCTCTGAGCAAGGCGTCTGCACCCTAGAGATCCGGAAAC
CCAGCCCCTTTGATTCTGGGGTCTACACATGCAAGGCCATAAATGTGCTGGGGGAGGCATCTGTGGACTG
CCGGCTGGAGGTCAAAGCCTCAGCCGCACAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208162 protein sequence
Red=Cloning site Green=Tags(s)

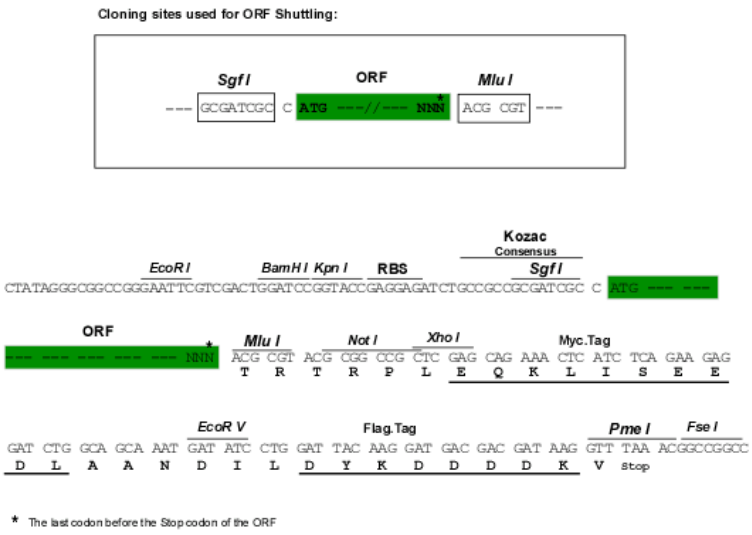
MMEKNTSEGPACSPEETASESAKVPTAEPPGEVAVSESTREEQVPKPQAPAPQAPTASTATKPAPPSEDV
PSAPLLLTLDDVSSSSVTVSWEPPERLGRLGLQGYVLELCREGASEWVPVSARPMMVTQQTVRNLALGDK
FLLRVSAVSSAGAGPPAMLDQPIHIRENIEAPKIRVPRHLRQTYIRQVGETVNLQIPFQGKPKPQATWTH
NGHALDSQRVSMRTGDQDSILFIRSAQRSDSGRYELTVRVEDLEAKAVIDILVIEKPGPPSSIRLLDVWG
CNAALQWTPPQDTGNTELLGYMVQKADKKTGQWFTVLERYHPTTCTISDLIIGNSYSFRVFSENLCGLST
SATVTKELAHIQKADIAAKPKGFIERDFSEAPSFTQPLADHTSTPGYSTQLFCSVRASPKPKIIWMKNKM
EIQGNPKYRALSEQGVCTLEIRKPSPFDSGVYTCKAINVLGEASVDCRLEVKASAAH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6347_d08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004997

ORF Size: 1431 bp

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_004997.3

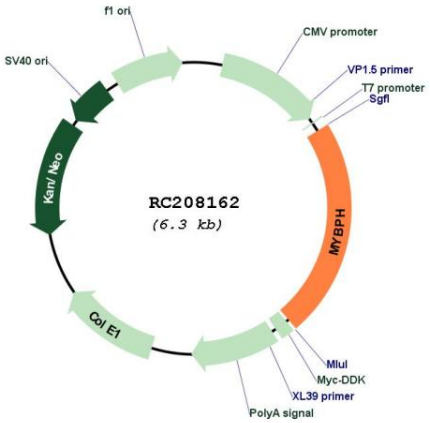
RefSeq Size: 1806 bp

RefSeq ORF: 1434 bp

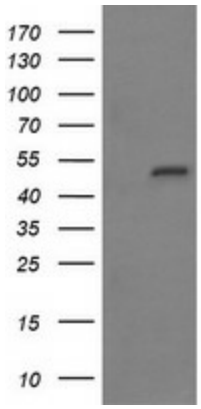
Locus ID: 4608

UniProt ID:	Q13203
Cytogenetics:	1q32.1
Domains:	ig, IGc2, IG, FN3
MW:	52.1 kDa
Gene Summary:	Binds to myosin; probably involved in interaction with thick myofilaments in the A-band. [UniProtKB/Swiss-Prot Function]

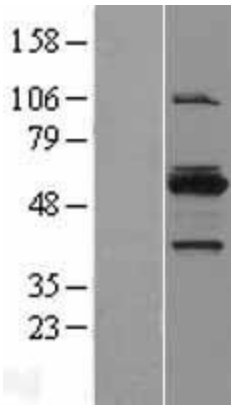
Product images:



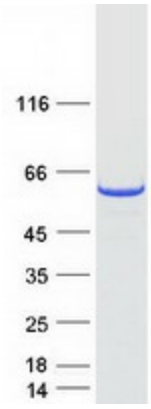
Circular map for RC208162



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MYBPH (Cat# RC208162, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MYBPH(Cat# [TA505664]). Positive lysates [LY417599] (100ug) and [LC417599] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY417599]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208162 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MYBPH protein (Cat# [TP308162]). The protein was produced from HEK293T cells transfected with MYBPH cDNA clone (Cat# RC208162) using MegaTran 2.0 (Cat# [TT210002]).