

## Product datasheet for RC219216

### C4BPB (NM\_001017367) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	C4BPB (NM_001017367) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C4BPB
Synonyms:	C4BP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219216 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTTTTTGGTGTGCGTGCTGTCTTATGGTTGCGTGGCGAGTTTCTGCTTCAGATGAGCACTGTCCAG  
AGCTTCTCCAGTGGACAATAGCATATTTGTCGCAAAGGAGGTGGAAGGACAGATTCTGGGGACTTACGT  
TTGTATCAAGGGCTACCACCTGGTAGGAAAGAAGACCCTTTTTGCAATGCCTCTAAGGAGTGGGATAAC  
ACCACTACTGAGTGCCGCTTGGCCACTGCTGATCCTGTGCTGGTGAATGGAGAGTTCAGTTCCTCAG  
GGCCTGTGAATGTAAGTGACAAAATCACGTTTATGTGCAATGACCACTACATCCTCAAGGGCAGCAATCG  
GAGCCAGTGTCTAGAGGACCACACTGGGCACCTCCCTTTCCCATCTGCAAAAGTAGGGACTGTGACCCT  
CCTGGGAATCCAGTTCATGGCTATTTGAAGGAAATAACTTCACCTTAGGATCCACCATTAGTTATTACT  
GTGAAGACAGGTACTACTTAGTGGCGTGCAGGAGCAGCAATGCGTTGATGGGGAGTGGAGCAGTGCCT  
TCCAGTCTGCAAGTTGATCCAGGAAGCTCCAAACCAGAGTGTGAGAAGGCACTTCTTGCCTTTCAGGAG  
AGTAAGAACCTCTGCGAAGCCATGGAGAAGCTTTATGCAACAATTAAGGAAAAGTGGCATGACAATGGAGG  
AGCTAAAATATTCTCTGGAGCTGAAGAAAGCTGAGTTGAAGGCAAATTTGTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC219216 protein sequence  
Red=Cloning site Green=Tags(s)

MFFWCACCLMVAWRVVSASDEHCPPELPPVDNSIFVAKEVEGQILGTYVCIKGYHLVGKKTLCFNASKEDWN  
 TTTECRGLGHCPDPVLVNGEFSSSGPVNVSDKITFMCNDHYILKGSNRSQCLEDHTWAPPFPICKSRDCDP  
 PGNPVGHYFEGNNFTLGSTISYYCEDRYLVGVQEQQCVDGEWSSALPVCKLIQEAPKPECEKALLAFQE  
 SKNLCEAMENFMQQLKESGMTMEELKYSLELKKAEKAKLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6628\\_c09.zip](https://cdn.origene.com/chromatograms/mk6628_c09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001017367

**ORF Size:** 812 bp

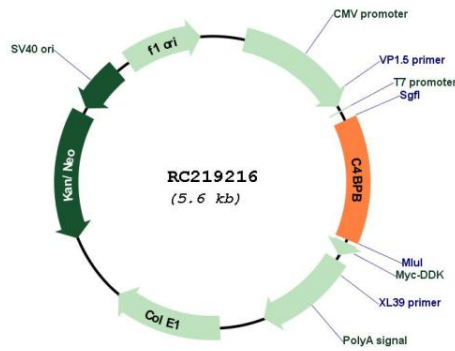
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

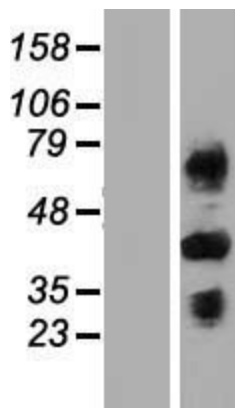
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<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><a href="#">NM_001017367.1</a></u> , <u><a href="#">NP_001017367.1</a></u>
<b>RefSeq Size:</b>	967 bp
<b>RefSeq ORF:</b>	759 bp
<b>Locus ID:</b>	725
<b>UniProt ID:</b>	<u><a href="#">P20851</a></u>
<b>Cytogenetics:</b>	1q32.1
<b>Protein Pathways:</b>	Complement and coagulation cascades
<b>MW:</b>	28.3 kDa
<b>Gene Summary:</b>	<p>This gene encodes a member of a superfamily of proteins composed predominantly of tandemly arrayed short consensus repeats of approximately 60 amino acids. A single, unique beta-chain encoded by this gene assembles with seven identical alpha-chains into the predominant isoform of C4b-binding protein, a multimeric protein that controls activation of the complement cascade through the classical pathway. C4b-binding protein has a regulatory role in the coagulation system also, mediated through the beta-chain binding of protein S, a vitamin K-dependent protein that serves as a cofactor of activated protein C. The genes encoding both alpha and beta chains are located adjacent to each other on human chromosome 1 in the regulator of complement activation gene cluster. Alternative splicing gives rise to multiple transcript variants. [provided by RefSeq, Jul 2008]</p>

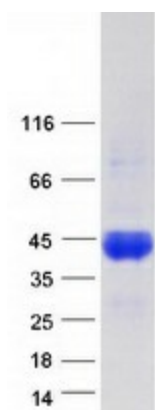
Product images:



Circular map for RC219216



Western blot validation of overexpression lysate (Cat# [LY422641]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219216 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified C4BPB protein (Cat# [TP319216]). The protein was produced from HEK293T cells transfected with C4BPB cDNA clone (Cat# RC219216) using MegaTran 2.0 (Cat# [TT210002]).