

Product datasheet for SC302017

C4BPB (NM_001017364) Human Untagged Clone

Product data:

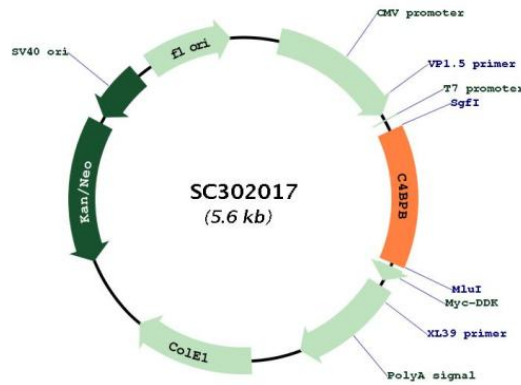
Product Type:	Expression Plasmids
Product Name:	C4BPB (NM_001017364) Human Untagged Clone
Tag:	Tag Free
Symbol:	C4BPB
Synonyms:	C4BP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC302017 representing NM_001017364. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTTTTTTGGTGTGCGTGCTGTCTTATGGTTGCGTGGCGAGTTTCTGCTTCAGATGAGCACTGTCCA
GAGCTTCCTCCAGTGGACAATAGCATATTTGTCGCAAAGGAGGTGGAAGGACAGATTCTGGGACTTAC
GTTTGTATCAAGGGCTACCACCTGGTAGGAAAGAAGACCCTTTTTGCAATGCCTCTAAGGAGTGGGAT
AACACCACTACTGAGTGCCGCTGGGCCACTGTCCTGATCCTGTGCTGGTGAATGGAGAGTTCAGTTCT
TCAGGGCCTGTGAATGTAAGTGACAAAATCACGTTTATGTGCAATGACCACTACATCCTCAAGGGCAGC
AATCGGAGCCAGTGTCTAGAGGACCACCTGGGCACCTCCCTTTCCCATCTGCAAAAGTAGGGACTGT
GACCTCCTGGGAATCCAGTTCATGGCTATTTGAAGGAAATAACTTCACCTTAGGATCCACCATTAGT
TATTACTGTGAAGACAGTACTACTTAGTGGGCGTGCAGGAGCAGCAATGCGTTGATGGGGAGTGGAGC
AGTGCCTTCCAGTCTGCAAGTTGATCCAGGAAGCTCCCAAACCAGAGTGTGAGAAGGCACCTTCTTGCC
TTTCAGGAGAGTAAGAACCTCTGCGAAGCCATGGAGAACTTATGCAACAATTAAGGAAAGTGGCATG
ACAATGGAGGAGCTAAAATATTCTCTGGAGCTGAAGAAAGCTGAGTTGAAGGCAAAATGTTGTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-MluI



[View online »](#)

Plasmid Map:


ACCN: NM_001017364

Insert Size: 756 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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: [NM_001017364.1](#)

RefSeq Size:	1128 bp
RefSeq ORF:	756 bp
Locus ID:	725
UniProt ID:	P20851
Cytogenetics:	1q32.1
Protein Pathways:	Complement and coagulation cascades
MW:	28.3 kDa

Gene Summary: 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]

Transcript Variant: This variant (2) uses an alternate, in-frame splice site in the 5' coding region, compared to variant 1. Variants 2 and 4 encode isoform 2, which has a shorter N-terminus, compared to isoform 1.