

Product datasheet for **SC105978**

Complement factor B (CFB) (AH001502) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Complement factor B (CFB) (AH001502) Human Untagged Clone
Tag:	Tag Free
Symbol:	CFB
Synonyms:	AHUS4; ARMD14; BF; BFD; CFAB; CFBD; FB; FBI12; GBG; H2-Bf; PBF2
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for AH001502, the custom clone sequence may differ by one or more nucleotides

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CAAATGATCGATGAAAGCCAGTCTCTGAGTCTCTGTGGCATGGTTTGGGAACACAGGAAGGGTACCGATT  
ACCACAAGCAACCATGGCAGGCCAAGATCTCAGTCATTCGCCCTCAAAGGGCCACGAGAGCTGTATGGG  
GGCTGTGGTGTCTGAGTACTTTGTGCTGACAGCAGCACATTGTTTCACTGTGGATGACAAGGAACACTCA  
ACTAAGGTCAGCGTAGGAGGGGAGAAGCGNNNNNNNNATAGAAGTAGTCTATTTACCCCAACTACA  
ACATTAATGGGAAAAAAGAAGCAGGAATCCCGAATTTATGACTATGACGTTGCCCTGATCAAGCTCAA  
GAATAAGCTGAAATATGGCCAGACCATCAGGCCATTCTGAAGGAGAACTCCAAGATGAGGATTTGGGT  
TTTCATTAAGGGGTTTTCTGCTGAACAGGGCGTGGGATTGAATAAAACAGCTGCGACAAC
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5' Read Nucleotide Sequence:

>OriGene 5' read for AH001502 unedited
 GGGGTTTANNATTAGNATACGACTCATATAGGCGGCCGCGAAATTCGCACGAGGAAAACC
 TGTTGCTCATTGTCTTTCTTGGAAAGCCAAAGCATTGATGTTCAAAGTTAAGGATATGGAA
 AACCTGGAAGATGTTTTCTACCAAATGATCGATGAAAGCCAGTCTCTGAGTCTCTGTGGC
 ATGTTTGGGAACACAGGAAGGGTACCGATTACCAACAAGCAACCATGGCAGGCCAAGATC
 TCAGTCATTCCGCCTTCAAAGGGACACGAGAGCTGTATGGGGGCTGTGGTGTCTGAGTAC
 TTTGTGCTGACAGCAGCACATTGTTTCACTGTGGATGACAAGGAACACTCAATCAAGGTC
 AGCGTAGGAGGGGAGAAGCGGGACCTGGAGATAGAAGTAGTCCTATTTACCCCAACTAC
 AACATTAATGGGAAAAAAGAAGCAGGAATTCCTGAATTTTATGACTATGACGTTGCCCTG
 ATCAAGCTCAAGAATAAGCTGAAATATGGCCAGACTATCAGGCCATTTGTCTCCCTGC
 ACCGAGGGAACTCGAGCTTTGAGGCTTCTCCAACACTACACTTGCCAGCAACAAAAG
 GAAGAGCTGCTCCCTGCACAGGATATCAAAGCTCTGTTTGTGTCTGAGGAGGAGAAAAAG
 CTGACTCGGAAGGAGGTACATCAAGAATGGGGATAAGAAAGGCAGCTGTGAGAGAGAT
 GCTCAATATGCCCAGGCTATGACAAAGTCAAGGACATCTCAGAGGTGGTCAACCCTCGG
 TTCCTTTGTACTGGAGGAGTGAGTCCCTATGCTGACCCCAATACTGCAAGGTGATTCTGC
 GGCCCTTGTAGTCACAGAGAGTCGTTATTCAGTTGTGTATCACTGGGAGTAGTGATGTCT
 CAAAACAGAGCGCAAGCAGTACTGTACGCGATATACT

3' Read Nucleotide Sequence:

>OriGene 3' read for AH001502 unedited
 GTTCAGCTATGNACCGCGCCGCAATCTAGNGATCGGTTTTTTTTTTTTTTTTTTTGTG
 TCGCAGCTGTTTTAATCAATCCCACGCCCTGTCCAGCAGGAAACCCCTTATAGAAAAC
 CCAAATCTCATCTTGGAGTTTCTCCTTCAGCCAGGGCAGCACTTGAAGAGGTTGATGT
 GAAAGTCTCGGGCGTGAGCAGGTACCTGCTTTTGCCGCTTCTGGTTTTTGCAGACATCCA
 TACTCCCGAGTGATTACCAACTTGAATGAAACGACTTCTCTGTGAACTATCAAGG
 GGCCGCCAGAATCACCTCTGCAAGTATTGGGGTCAGCATAGGGACTCACTCCTCCAGTAC
 AAAGGAACCGAGGGGTGACCACCTGAGATGTCCTTGACTTTGTCATAGCCTGGGGCAT
 ATTGAGCATCTCTCACAGCTGCCTTTCTTATCCCATCTTGATGTAGACCTCCTTCC
 GAGTCAGCTTTTTCTCCTCCTCAGACACAAACAGAGCTTTGATATCCTGTGCAGGGAGCA
 GCTCTTCTTTTGTGCTGGCAAGTGGTAGTTGGAGGAAGCCTCAAAGCTCGAGTTGTTT
 CCTCGGTGCAGGGGAGACAAATGGGCCTGATAGTCTGGCCATATTTACAGCTTATTTTGA
 GCTTGATCAGGGCAACGTATAGTCATAAAATTCAGGAATTCCTGCTTCTTTTTTCCCAT
 TAATGTTGAGTTGGGGTGAATANGACTACTTCTATCTNCAGGTCCCGCTTCTCCCTCC
 TACGCTGACCTTGATTGAGTGGTCTTGTATCCACAGTGGACCAATGTGCTGCTGTCAG
 CCAAGTACTCAGAACCACAGCCCCATACGCTCTCGTGTCCCTTTGAGGGCGATGACTG
 AGATCTTGGCCTGCCATGGNTGCTGTGGAAAN

Restriction Sites:

NotI-NotI

ACCN:

AH001502

Insert Size:

1150 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).

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:	AH001502.1 , AAA36219.1
RefSeq Size:	482 bp
RefSeq ORF:	482 bp
Locus ID:	629
Cytogenetics:	6p21.33
Protein Families:	Druggable Genome, Protease, Secreted Protein
Protein Pathways:	Complement and coagulation cascades
Gene Summary:	<p>This gene encodes complement factor B, a component of the alternative pathway of complement activation. Factor B circulates in the blood as a single chain polypeptide. Upon activation of the alternative pathway, it is cleaved by complement factor D yielding the noncatalytic chain Ba and the catalytic subunit Bb. The active subunit Bb is a serine protease which associates with C3b to form the alternative pathway C3 convertase. Bb is involved in the proliferation of preactivated B lymphocytes, while Ba inhibits their proliferation. This gene localizes to the major histocompatibility complex (MHC) class III region on chromosome 6. This cluster includes several genes involved in regulation of the immune reaction. Polymorphisms in this gene are associated with a reduced risk of age-related macular degeneration. The polyadenylation site of this gene is 421 bp from the 5' end of the gene for complement component 2. [provided by RefSeq, Jul 2008]</p>