

Product datasheet for **SC119051**

Complement factor B (CFB) (NM_001710) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Complement factor B (CFB) (NM_001710) Human Untagged Clone
Tag:	Tag Free
Symbol:	Complement factor B
Synonyms:	AHUS4; ARMD14; BF; BFD; CFAB; CFBD; FB; FBI12; GBG; H2-Bf; PBF2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC119051 sequence for NM_001710 edited (data generated by NextGen Sequencing)

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ATGGGGAGCAATCTCAGCCCCAACTCTGCCTGATGCCCTTTATCTTGGGCCTCTGTCT
GGAGGTGTGACCACCACTCCATGGTCTTTGGCCCGGCCCCAGGGATCCTGCTCTCTGGAG
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ATCCACTGTCCAAGACCACGACTTCGAGAACGGGGAATACTGGCCCCGGTCTCCCTAC
TACAATGTGAGTGATGAGATCTCTTTCCACTGCTATGACGGTTAACTCTCCGGGGCTCT
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GAGCTGCTCCCTGCACAGGATATCAAAGCTCTGTTTGTGTCTGAGGAGGAGAAAAAGCTG
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CAATATGCCCCAGGCTATGACAAAGTCAAGGACATCTCAGAGGTGGTCACCCCTCGGTTT
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GTAGTGGATGTCTGCAAAAACCAAGCGGCAAAAGCAGGTACCTGCTCACGCCCCGAGAC
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TTGGGTTTTCTATAA
    
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Clone variation with respect to NM_001710.5
 450 a=>g;1355 t=>c

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001710 unedited</p> <pre>AACCTCGAGATTTGTA AACCCACCTCTATAGGCGGAAAAACACTTCGCACGAGGTCTAG GTCTGGAGTTTCAGCTTGGACACTGAGCCAAGCAGACAAGCAAAGCAAGCCAGGACACAC CATCTGCCCCAGGCCAGCTTCTCTCTGCCTTCCAACGCCATGGGGAGCAATCTCAGC CCCCAACTCTGCCTGATGCCCTTATCTTGGGCCTTCTGTTTGGAGGTGTGACCACCACT CCATGGTCTTTGGCCCCGCCAGGGATCTGCTCTCTGGAGGGGTAGAGATCAAAGGC GGCTCTTCCGACTTCTCCAAGAGGGCCAGGCACTGGAGTACGTGTGCTTCTGGCTTC TACCCGTACCCTGTGCAGACACGTACCTGCAGATCTACGGGGTCTGGAGCACCTGAAG ACTCAAGACCAAAAGACTGTGAGAAAGGAGAGTGCAGAGCAATCCACTGTCCAAGACCA CACGACTTCGAGAACGGGAATACTGGCCCCGGTCTCCCTACTACAATGTGAGTGATGAG ATCTCTTCCACTGCTATGACGGTTACTCTCCGGGGCTCTGCCAATCGCACCTGCCAA GTGAATGGCCGGTGGAGTGGGCAGACAGCGATCTGTGACAACGGAGCGGGTACTGCTCC AACCCGGGCATCCCCATTGGCACAAGGAAAGTGGGCAGCCAGTACCGCTTGAAGACAGC GTCACCTACCACTGCAGCCGGAGGCTTACCCTGCGTGGCTCCCCAGCGCAACGTGTCAA GAAGGTGGCTCTGNAGCGGGACAGAGCCTTCTGCCAAGACTCCTTCATGTACGACACC CCTCAAGAGTGGCCGAACTTTTCTGTCTTCCCTGACAGAGACATT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001710 unedited</p> <pre>TTGGACCGCGNGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTGTGTCGCAGCT GTTTTAATTCAATCCCACGCCCCGTCCAGCAGGAAACCCCTTATAGAAAACCCAAATCC TCATCTTGGAGTTTCTCCTTTCAGCCAGGGCAGCACTTAAAAGAGGTTGATGTGAAAGTCT CGGGCGTGAGCAGGTACCTGCTTTTGGCCGCTTCTGGTTTTTGCAGACATCCACTACTCCC CAGCTGATTACACCAACTTGAATGAAACGACTTCTCTTGTGAACTATCAAGGGGCCGCCA GAATCACCTCTGCAAGTATTGGGGTCAAGATAGGGACTCACTCCTCCAGTACAAAGGAAC CGAGGGGTGACCACCTCTGAGATGTCCTTGACTTTGTCATAGCCTGGGGCATATTGAGCA TCTCTCTCACAGTGCCTTTCTTATCCCCATTCTTGATGTAGACCTCCTCCGAGTCAGC TTTTTCTCCTCCTCAGACACAAACAGAGCTTTGATATCCTGTGCAGGGAGCAGCTTTCC TTTTGTTGCTGGCAAGTGGTAGTTGGAGGAAGCCTCAAAGCTCGAGTTGTTCCCTCGGTG CAGGGGAGACAAAATGGCCTGATAGTCTGGCCATATTTTCAGCTTATTCTTGAGCTTGATC AGGGCAACGTCATAGTCATAAAAATTCAGGAATTCCTGCTTTTTTTTTCCCATTAATGNTG TAGTTGGGGTGAAATAGGACTACTTCTATCTNCAAGTCCCGCTTCTCCCTCCTACGCT GACCTTTGATGAGTGTTCTTGTGCATCACAGTGAACAATGTGCTGCTGTGAGCACAAGT ACTCAGACACCACANCCCCATACAGCTCTCGTGCCTTTTGGGGCGATGACTGANATCT CGCCTGCCATGGTGCCTGNGGTAATCGNACCTTCTTGGTTCCAAACATGCCCAAAGACT TAAAAGTCTTCATGATCATTGTAGAAAATCT</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_001710
Insert Size:	2800 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:	NM_001710.4 , NP_001701.2
RefSeq Size:	2574 bp
RefSeq ORF:	2295 bp
Locus ID:	629
UniProt ID:	P00751
Cytogenetics:	6p21.33
Domains:	CCP, Tryp_SPC, VWA
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>