

Product datasheet for **SC115997**

Complement factor 8 beta (C8B) (NM_000066) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Complement factor 8 beta (C8B) (NM_000066) Human Untagged Clone
Tag:	Tag Free
Symbol:	Complement factor 8 beta
Synonyms:	C82
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC115997 sequence for NM_000066 edited (data generated by NextGen Sequencing)

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ATGAAGAATTCCAGGACATGGGCTTGGAGGGCGCCGGTGGAGCTATTTCTTCTCTGTGCT
GCCCTGGGCTGTCTCAGTTTGCCTGGCTCCAGAGGTGAAAGGCCACATTCCTTTGGGTCA
AATGCAGTCAACAAGAGCTTTGCTAAGAGCAGACAGATGCGGAGTGTGGATGTTACCCCTG
ATGCCCATTTGATTGTGAGCTGTCTAGTTGGTCCCTTTGGACCACATGTGACCCCTGTGAG
AAGAAAAGGTACAGGTATGCCTACTTGTCCAGCCCTCTCAGTTCCATGGGGAACCGTGC
AACTTCTCTGACAAGGAAGTCAAGACTGTGTTACCAACAGACCATGCAGAAGTCAAGTG
CGATGTGAAGGCTTTGTGTGTGCACAGACAGGAAGGTGTGTAACCCGCACTTCTTTGC
AATGGGGACAATGACTGTGGAGACCAGTCAGATGAAGCAAAGTGTAGAAGGATTTATAAA
AAATGTCAGCATGAAATGGACCAATACTGGGGAATTGGCAGTCTGGCCAGTGGGATAAAT
TTGTTCAAAACAGTTTTGAGGGCCAGTTCTTGATCACAGGTATTATGCAGGTGGATGC
TCCCCGATTACATCCTGAACACGAGGTTTAGGAAGCCCTACAATGTGAAAAGCTACACG
CCACAGACCCAAGCAAATACGAATTCATATTAAGAGATGAATCATACTCAGATTTT
GAACGCAATGTCACAGAGAAAATGGCAAGCAAGTCTGGTTTCAGTTTTGGTTTTAAATA
CCTGGAATATTTGAACCTGGCATCAGTAGTCAAAGTGATCGAGGCAAACTATATTAGG
AGAACCAACGATTCTCTCATACTAAAAGCGTATTTCTGCATGCACGCTCTGACCTTGAA
GTAGCACATTACAAGCTGAAACCCAGAAGCCTCATGCTCCATTACGAGTTCCTTCAGAGA
GTTAAGCGGCTGCCCTGGAGTACAGCTACGGGGAATACAGAGATCTCTTCCGTGATTTT
GGGACCCACTACATCACAGAGGCTGTGCTTGGGGGCATTTATGAATACACCCTCGTTATG
AACAAAGAGGCCATGGAGAGAGGAGATTACTCTTAACAACGTCCATGCCTGTGCCAAA
AATGATTTTAAAATTGGTGGTCCATTGAAGAGTCTACGTGAGTCTGGTGTGTCTGTA
GGCAAATGCAGAGGTATTCTGAATGAAATAAAAGACAGAAAACAAGAGGGACACCATGGT
GAGGACTTGGTGTCTGGTACGAGGAGGGCAAGTGAGCACATACCACCCTGGCATAAC
CAGGAGCTGCCGACGGGACCTGATGCAGGAGTGGGAGACGCTGTGCAGTACAACCCA
GCCATCATCAAAGTTAAGGTGGAGCCTCTGTATGAACTAGTGACAGCCACAGATTTTGC
TATTCAGCACAGTGAGGCAGAACATGAAGCAGGCACTGGAGGAGTTCAGAAAGGAGTT
AGTTCTGCCACTGTGCTCCCTGCCAAGGAAATGGAGTCCCTGTCTGAAAGGATCACGC
TGTGACTGCATCTGTCTGTTGGATCCCAAGGCCTAGCCTGTGAGGTCTCCTATCGGAAG
AATACCCCATTTGATGGGAAGTGAATTGCTGGTCAAATTTGGTCTTCATGCTCTGGAAGA
CGTAAGACAAGACAAGGCAGTGAACAATCCACCTCCTCAAAATGGGGGTAGCCCTGT
TCAGGCCCTGCTCAGAAACACTTGACTGCTCCTAG
    
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Clone variation with respect to NM_000066.2
349 g=>a

5' Read Nucleotide Sequence: >OriGene 5' read for NM_000066 unedited

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NNNNNGGTTTCAGATTTGTATACGACTCCTATAGGCGGCCGCGTTTACTTTGCAGAGCT
ATTTGCTCTTGGGGACAGAAGCTGACAGTGGCACTCACAGCACAGGCTTGTATGGGTCT
AGCAGCCTCTGTGGCATCTCCTGTACATTGGGAAAATGAAGAATTCCAGGACATGGGCT
TGGAGGGCGCCGGTGGAGCTATTTCTTCTGTGCTGCCCTGGGCTGTCTCAGTTTGCCT
GGCTCCAGAGGTGAAAGGCCACATTCCTTTGGTCAAATGCAGTCAACAAGAGCTTTGCT
AAGAGCAGACAGATGCGGAGTGTGGATGTTACCCTGATGCCATTGATTGTGAGCTGTCT
AGTTGGTCTCTTGGACCACATGTGACCCCTGTCAGAAGAAAAGGTACAGGTATGCCTAC
TTGCTCCAGCCCTCTCAGTTCCATGGGGAACCGTGAACCTCTCTGACAAGGAAGTCGAA
GACTGTGTTACCAACAGACCATGCAGAAGTCAAGTGCATGTGAAGGCTNTGTGTGTGCA
CAGACAGGAAGGTGTGTAACCCGCACTTCTTTGNCATGGGGACAATGACTGTGGAGAC
CAGTCAGATGAAGCAAAGTGTAGAAGGATTTATAAAAAATGTCAGCATGAAATGGACAA
TACTGNGGAAATGGCAGTCTGGCCAGTGGGATAAATTTGTTACAACAGTTTTGAGGGC
CCCAGTCTTGATCACAGGTATTAATNGCAGGNTGGATGCTCCCCGATTACATNCTGACAA
CGAGGNTTANGAAGCCCTACNNATGTGAAAGCTACACGCCACAGACCCAGGCAATACG
AATTCTATTAAGAGTNTGAATCTACTCAGATTTGAACGCATGTCCANAGAATGGCAGC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000066 unedited NTTTTTGACTTGNACNCGCGCCGCATNCTANGATCGAGTTTTTTTTTTTTTTTTTTTTTTTT TAAGCCTTTAACTCAGTATTTATTTAAATCAACTTGCATTTTACAAGGTAACATCTTTAT TTTAAACAGCTTGCATGGCACTGCCTTTTGGCCTTGCATGAACTCCAGGTGAAACTGGT GTAGGGCTGAGCTGGCATGAGTCTTGAGGGCTCAGGGCTCTCATTGTATGTAGCCCACT GCTGTATCATCTGCTAGGAGCAGTCAAGTGTCTGAAGCAGGGCCTGAACAGGGGCTAC CCCCATTTGAGGAGGTGATTGTTACACTGCCTTTGTCTTGTCTTACGTCTTCCAGAGC ATGAAGACCAATTTGACCAGCAATTCACCTTCCCATCAATGGGGTATTCTTCCGATAGG AGACCTCACAGGCTAGGCCTTGGGATCCAAACAGGACAGATGCAGTCACAGCGTGATCCTT TCAGGACAGGGACTCCATTTCTTGGCAGGGAGCACAGTGGCAGGAACTAACTTCTTCT GGAACCTCTCCAGTGCCTGCTTCATGTTCTGCCTCACTGTGCTGGAATAGGCAAAATCTG TGGCTGCACTAGTTCATACAGAGGCTCCACCTTAACTTTGATGATGGCTGGGGTTGAC TGCACAGCGTCTCCCACTCCTGCATCAGGTCCGCCGTCGGCAGCTCCTGGTATGCCAGG GGTGGTGTGTGCTCACTTGGCCCTCCTCGTACAGGACCACCAAGTCTCCCATGGNGN NCCTCNTGNTTCTGGCTTTTATTTCAATCAGAATACCTCTGCATTTGCCTACAGACACCC CAGACTGACGTAGACCTTTCATGGCACCCATTTAAAANTCATTTTGGCACNNNGCA TGAACGTGAAAAGNATATCTCCTCTCATGCCCTCTTGTATAACCCAG
Restriction Sites:	NotI-NotI
ACCN:	NM_000066
Insert Size:	2150 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:	<u>NM_000066.2</u> , <u>NP_000057.1</u>
RefSeq Size:	2053 bp
RefSeq ORF:	1776 bp
Locus ID:	732
UniProt ID:	<u>P07358</u>
Cytogenetics:	1p32.2
Domains:	tsp_1, MACPF, ldl_recept_a

Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways:	Complement and coagulation cascades, Prion diseases, Systemic lupus erythematosus
Gene Summary:	<p>This gene encodes one of the three subunits of the complement component 8 (C8) protein. C8 is composed of equimolar amounts of alpha, beta and gamma subunits, which are encoded by three separate genes. C8 is one component of the membrane attack complex, which mediates cell lysis, and it initiates membrane penetration of the complex. This protein mediates the interaction of C8 with the C5b-7 membrane attack complex precursor. In humans deficiency of this protein is associated with increased risk of meningococcal infections. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2013]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p>