

## Product datasheet for **SC119808**

### Complement C7 (C7) (NM\_000587) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Complement C7 (C7) (NM_000587) Human Untagged Clone
Tag:	Tag Free
Symbol:	Complement C7
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC119808 sequence for NM\_000587 edited (data generated by NextGen Sequencing)

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ATGAAGGTGATAAGCTTATTCATTTTGGTGGGATTTATAGGAGAGTTCCAAAGTTTTTCA
AGTGCCTCCTCTCCAGTCAACTGCCAGTGGGACTTCTATGCCCTTGGTCAGAATGCAAT
GGCTGTACCAAGACTCAGACTCGCAGCGGTTCAGTTGCTGTGTATGGGCAGTATGGAGGC
CAGCCTTGTGTTGGAAATGCTTTTGAACACAGTCCTGTGAACCTACAAGAGGATGTCCA
ACAGAGGAGGGATGTGGAGAGCGTTTCAGGTGCTTTTCAGGTCAGTGCATCAGCAAATCA
TTGTTTTGCAATGGGGATTCTGACTGTGATGAAGACAGTGTGATGAAGACAGATGTGAG
GACTCAGAAAGGAGACCTTCTGTGATATCGATAAACCTCCTCCTAACATAGAACTTACT
GGAAATGGTTACAATGAACTCACTGGCCAGTTTAGGAACAGAGTCATCAATANCAAAAAGT
TTTGGTGGTCAATGTAGAAAGGTGTTTAGTGGGGATGGAAAAGATTTCTACAGGCTGAGT
GGAAATGTCCTGTCTATACATTCCAGGTGAAAATAAATAATGATTTTAATTATGAATTT
TACAATAGTACTTGGTCTTATGTAAAACATACGTCGACAGAACACACATCATCTAGTCGG
AAGCGCTCCTTTTTTAGATCTTCATCATCTTCTCACGCAGTTTAACTTACATAACCAAT
GAAATCCATAAAGGAAAGAGTTACCAACTGCTGGTTGTTGAGAAGACTGTTGAAGTGGCT
CAGTTTCAATAAACAATCCAGAATTTTTACAACCTGCTGAGCCATTCTGGAAGGAGCTT
TCCCACCTCCCCTCTGTATGACTACAGTGCCTACCGAAGATTAATCGACCAGTACGGG
ACACATTATCTGCAATCTGGGTCGTTAGGAGGAGAATACAGAGTTCTATTTTATGTGGAC
TCAGAAAAATTAACAAAAATGATTTTAAATTCAGTCGAAGAAAAGAAATGTAATCCTCA
GGTTGGCATTTTGTGCTTAAATTTTCAAGTCATGGATGCAAGGAACTGGAAAACGCTTTA
AAAGCTGCTTCAGGAACCCAGAACAATGTATTGCGAGGAGAACCCTTTCATCAGAGGGGA
GGTGCAGGCTTCATATCTGGCCTTACTTACCTAGAGCTGGACAATCCTGCTGGAAACAAA
AGGCGATATTCTGCCTGGCAGAACTCTGTGACTAATCTTCTCAAGTCATAAAAACAAAAG
CTGACACCTTTATATGAGCTGGTAAAGGAAGTACCTTGTGCCTCTGTGAAAAAACTATAC
CTGAAATGGGCTCTTGAAGAGTATCTGGATGAATTTGACCCCTGTCTTGCCTGCTTGT
CAAAATGGTGGTTGGCTACTGTTGAGGGGACCCATTGTCTGTGCCATTGCAAACCGTAC
ACATTTGGTGGCGGTGTGAGCAAGGAGTCTCGTAGGGAATCAAGCAGGAGGGGTTGAT
GGAGGTTGGAGTTGCTGGTCTCTTGGAGCCCCTGTGTCCAAGGGAAGAAAAACAAGAAGC
CGTGAATGCAATAACCCACCTCCAGTGGGGTGGGAGATCCTGCGTTGGAGAAACGACA
GAAAGCACACAATGCCAAGATGAGGAGCTGGAGCACTTGAAGTTGCTTGAACCACATTGC
TTTCCTTTGCTCTTGGTTCCAACAGAATTCTGTCCATCACCTCCTGCCTTGAAGATGGA
TTTGTTCAAGATGAAGGTACAATGTTTCTGTGGGGAAAAATGTAGTGTACACTTGAAT
GAAGGATACTCTTATTGGAAACCCAGTGGCCAGATGTGGAGAAGATTTACGGTGGCTT
GTTGGGAAAATGCATTGTGAGAAAATGCCTGTGTTCTACCTGTACTGATGGATGGCATA
CAGAGTACCCCCAAAAACCTTTCTACACAGTTGGTGAGAAGGTGACTGTTTCTGTTCA
GGTGGCATGTCCTTAGAAGGTCTTCAGCATTCTCTGTGGCTCCAGCCTTAAAGTGGAGT
CCTGAGATGAAGAATGCCCGCTGTGTACAAAAAGAAAAATCCGTTAACACAGGCAGTGCCT
AAATGTCAGCGCTGGGAGAACTGCAGAATCAAGATGTGTTTGTAAAATGCCCTACGAA
TGTGGACCTTCTTGGATGTATGTGCTCAAGATGAGAGAAGCAAAAGGATACTGCCTCTG
ACAGTTTGCAAGATGCATGTTCTCCACTGTCAGGGTAGAAATTACACCCTTACTGGTAGG
GACAGCTGTAATCTGCCTGCCTCAGCTGAGAAAGCTTGTGGTGCCTGCCACTGTGGGGA
AAATGTGATGCTGAGAGCAGCAATGTGTCTGCCGAGAAGCATCGGAGTGCAGGGAAGAA
GGGTTTAGCATTGTGTGGAAGTGAACGGCAAGGAGCAGACGATGTCTGAGTGTGAGGCG
GGCGCTCTGAGATGCAGAGGGCAGAGCATCTCTGTACCAGCATAAGGCCTTGTGCTGCC
GAAACCCAGTAG

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Clone variation with respect to NM\_000587.2  
473 c=>n;1166 g=>c;1692 t=>c

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_000587 unedited  
 NAAGCGTTCAAATATAGTCATACGACTCATATAGGCGGCCGCGAAATTCGCACGAGGAGA  
 GAGGCAGGCAGCCTGCTGGGCTCTTCTGCTGTTGAAAATTACCCGGCCCTTACAGAGG  
 AAATCTTCTCTCTCTTCTGCCCTGAATGTTTTCCCAAACATGAAGGTGATAAGCTTAT  
 TCATTTTGGTGGGATTTATAGGAGAGTTCCAAAGTTTTTCAAGTGCCTCCTCTCCAGTCA  
 ACTGCCAGTGGGACTTCTATGCCCTTGGTCAGAATGCAATGGCTGTACCAAGACTCAGA  
 CTGCGAGGCGGTCAAGTTGCTGTGTATGGGCAGTATGGAGGCCAGCCTTGTGTTGAAATG  
 CTTTTGAAACACAGTCTGTGAACCTACAAGAGGATGTCCAACAGAGGAGGGATGTGGAG  
 AGCGTTTTCAGGTGCTTTTCAGGTCAGTGCATCAGCAAATCATTGTTTTGCAATGGGGATT  
 CTGACTGTGATGAAGACAGTGTGATGAAGACAGATGTGAGGACTCAGAAAGGAGACCTT  
 CCTGTGATATCGATAAACCTCCTCCTAACATAGAAGTACTGGAAATGGTTACAATGAAC  
 TCACTGGCCAGTTTAGGAACAGAGTCATCAATACCAAAGTTTTTGGTGGTCAATGTAGAA  
 AGGTGTTTAGTNGGATGGAAAAGATTTCTACAGGCTGAGTGGAAATGCCTGCCTATA  
 CATTCCANGTAAAAATAAATAATGATTTTAATTATGAATNNTACAATAGTACTTGGTCTT  
 ATGTAAAACATACGTCGACAGAACACATCANTCTAGTCGAAGCGCTCCCTTNTAGAT  
 CTTTCATCATCTTCTTACGCAGTATACTTCACATACCAATGAAATCCCATAGGAAAGAG  
 TNACCCACTGNNCTGGTGTG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_000587 unedited  
 ACCGCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGAAGAAAGCATCTTTA  
 ATGAGTGTCTAATCCTTGTCTCATCTGAAGTTTTGAAATATATTTACCAGGGTCAGAACAA  
 TACAGAGATAGTATTTGTATAATATAGCTTATTTTAAATTTTCAATTAAGCCCTCTCATT  
 CTCTCCACAGCTGCTGTTTTGTTTTGATGAAAGAGAAATAAGGAATAAATAAAAGGTC  
 AATGCTTCAAACCTAATCTACCTGTGTAATCCCTGAAAACCTCTGGGACTGTATCCACAGAA  
 TAGGGAAAATATTCTCAAATGCACAGTCACTCATGCCTCAGGCATGAACTGATGTTCTT  
 TCAAAAAGAAAAAGAACAGGGGCAAACTTCCAGTCCTATGTTTGACACATACTAAAACCC  
 CAAAGAGAAGACTGAATTGTATTTGTTCTCAGACAAGACACCCCTGTGACCACAGCATAA  
 TGAATTTGCTCTAACATTTTAGTGGCTCAATCTCCGACAAGAGTAAGTATCCAGCCA  
 GGCGTGGTGGTTCATGTCTGTAATCCCACCCTTGGGAGGCCAATGCAGGCGGATTACC  
 TGAGGCCAGGAGTTGGAGACCAACGTGGCCAACATGGTGAAACCCCTTTCTACTAAAAA  
 TGCAAACAATAACCCGGGCGTGGGGCGGCACCTTGTATCCCCCTGCTGTTGGACTCA  
 CGCCACACAACCCCTTGACCCCCGAAAGCCGAAGCTTGCACGGACAACCAATAACCCCC  
 TTGCCCTCCCCCTGGGCCACACACGGGCAACTCTCGTTCTAAAAACATCCAAAAAAT  
 TAGCCCCCTCCATCTGCGCCGCCCCCCCTCAAGAACCACTCTCCCTCTCCTTCGGCAC  
 CACAGTTCGTCGCCGTCCTTTTTCCAGTCCCTCTCCTCTGCCCCCCTCACCCC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_000587

**Insert Size:**

4000 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).

<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>	<a href="#">NM_000587.2</a> , <a href="#">NP_000578.2</a>
<b>RefSeq Size:</b>	4034 bp
<b>RefSeq ORF:</b>	2532 bp
<b>Locus ID:</b>	730
<b>UniProt ID:</b>	<a href="#">P10643</a>
<b>Cytogenetics:</b>	5p13.1
<b>Domains:</b>	CCP, tsp_1, MACPF, IdI_recept_a, FIMAC
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	Complement and coagulation cascades, Prion diseases, Systemic lupus erythematosus
<b>Gene Summary:</b>	This gene encodes a serum glycoprotein that forms a membrane attack complex together with complement components C5b, C6, C8, and C9 as part of the terminal complement pathway of the innate immune system. The protein encoded by this gene contains a cholesterol-dependent cytolysin/membrane attack complex/perforin-like (CDC/MACPF) domain and belongs to a large family of structurally related molecules that form pores involved in host immunity and bacterial pathogenesis. This protein initiates membrane attack complex formation by binding the C5b-C6 subcomplex and inserts into the phospholipid bilayer, serving as a membrane anchor. Mutations in this gene are associated with a rare disorder called C7 deficiency. [provided by RefSeq, Nov 2016]