

## Product datasheet for **SC123815**

### **C2 (BC029781) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	C2 (BC029781) Human Untagged Clone
Tag:	Tag Free
Symbol:	C2
Synonyms:	C3/C5 convertase; CO2; complement C2; complement component 2; complement component C2; DKFZp779M0311; OTTHUMP00000029277; OTTHUMP00000062690
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 sequence for BC029781 edited  
 CTTTTCCCTCCCGCGGCTCTACTCTCGCCGCCCTAGGGAGGACACCATGGGCCAC  
 TGATGGTTCTTTTTGCCTGCTGTTCTGTACCCAGGTCTGGCAGACTCGGCTCCCTCT  
 GCCCTCAGAACGTGAATATCTCGGGTGGCACCTTACCCTCAGCCATGGCTGGGCTCCTG  
 GGAGCCTTCTCACCTACTCTGCCCCAGGGCCTGTACCCATCCCAGCATCACGGCTGT  
 GCAAGAGCAGCGGACAGTGGCAGACCCAGGAGCCACCCGGTCTGTCTAAGGCGGTCT  
 GCAAACCTGTGCGCTGTCCAGCCCTGTCTCTTTGAGAATGGCATTATACCCACGGC  
 TGGGGTCCATCCCGTGGGTGGCAATGTGAGCTTCGAGTGTGAGGATGGCTTCATATTGC  
 GGGGCTCGCTGTGCGTCACTGTGCGCCCAACGGCATGTGGGATGGAGAAACAGCTGTGT  
 GTGATAATGGGGCTGGCCACTGCCCAACCCAGGCATTTCACTGGGCGCAGTGGGACAG  
 GCTTCCGCTTTGGTCATGGGGACAAGGTCGCTATCGCTGCTCCTCGAATCTTGTGCTCA  
 CGGGGTCTTCGGAGCGGGAGTGGCAGGGCAACGGGGTCTGGAGTGGAACGGAGCCCATCT  
 GCCGCAACCCCTACTCTTATGACTTCCCTGAGGACGTGGCCCTGCCCTGGGCACCTCCT  
 TCTCCACATGCTTGGGGCCACCAATCCCACCCAGAAGACAAAGGAAAGCCTGGGCCGTA  
 AAATCCAAATCCAGCGCTCTGGTCATCTGAACCTCTACCTGCTCCTGGACTGTTCCGAGA  
 GTGTGTCGAAAAATGACTTTCTCATCTTCAAGGAGAGCGCTCCCTCATGGTGGACAGGG  
 TCAGGAATCAGGAGTCTGCCTGCAGCAGAGGCCTTCTGTGCTCACTATCTCTCTGTCT  
 TCCTTCCCTCCTCAGAACCCCACTCACAGCCACCTCCTCCAAGAAGTCTTCTCAGATT  
 ATACTCATGCCATGTAGGAATCATGAATTCAATTTATAACAATCATAATTTTTATTCCACA  
 AGCACTGTTGGGACACTGTGCTGGGGCTGGGCGACAGCAAAGTGGAAAGGCTGAGGTCT  
 TACTTCCAGGAATTCATCATCTAGAACAGTGGTCTCCACAGAAAGGTAGTGAGATAACC  
 CACAGGAGTGAAGCAGAAAAATACTGGTGCCCTGTGGAATAATTTAAATCAGATTAATA  
 ATTTAATATTTAATAATTTCTTTTAAACTTCAACATTTTGTGACAGGCTTTAAATGATA  
 TGTGATAGACTGGGCATGGTGGCTAGTGCCTGTAAATCCCAACACTTTGGGAGGCCGAGGC  
 AGGTGGATCACTTGGAGTCAAGGAGTTGAGACCCCTGACCAACATGATGAAACCTGT  
 CTATACTAAAAATACAAAATTAGCCACATGTGATGGCGCACGCCTGTAACCCAGTACTT  
 GGGAGGATGAGGCAGGAGAAATCGCTTGGATCCGGGAGGTGGAGGTTGAGTGGGCTGAGA  
 TCACGCCATTGCACTCCAGCCTGGGCAACTAGAGCAAACTCTGTCTCAAAAAAATAAA  
 TAAAAATAAAATAAAATAAAATATGTGTGATAGAAAAAAAAAAAAAAAAAAAAAAAAA  
 AAAAAAAAAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for BC029781 unedited  
 NCCGTTAAATTTGTATACGACTCATATAGGCGGCCGNAATTCAAATCTGGTACCGGTC  
 CGGAATCCCGGGATCTTTCCCTCCCGGGCTCTACTCTCGCCGCCCTAGGGAGG  
 ACACCATGGGCCCACTGATGTTCTTTTTGCCTGCTGTTCTGTACCCAGGTCTGGCAG  
 ACTCGGCTCCCTCCTGCCCTCAGAACGTGAATATCTCGGGTGGCACCTTACCCTCAGCC  
 ATGGCTGGGCTCCTGGGAGCCTTCTCACCTACTCTGCCCCAGGGCCTGTACCCATCCC  
 CAGCATCACGGCTGTGCAAGAGCAGCGGACAGTGGCAGACCCAGGAGCCACCCGGTCTC  
 TGTCTAAGGCGGTCTGCAAACCTGTGCGCTGTCCAGCCCTGTCTCTTTGAGAATGGCA  
 TTTATAACCCACGGCTGGGGTCTATCCCGTGGGTGGCAATGTGAGCTTCGAGTGTGAGG  
 ATGGCTTCATATTGCGGGCTCGCTGTGCGTCAGTGTGCCCCAACGGCATGTGGGATG  
 GAGAAACAGCTGTGTGATAATGGGGCTGGCCACTGCCCAACCCAGGCATTTCACTGG  
 GCGCAGTGGGACAGGCTTCCGCTTTGGTCATGGGGACAAGTCCGCTATCGCTGCTCCT  
 CGAATCTTGTGCTCACGNGTCTTCGGAGCGGGAGTGCCAGGGCAACGGGGTCTGGAGTG  
 GAACGGAGCCCATCTGCCGCAACCCCTACTCTTATGACTTCCCTGAGGACGTGGCCNCTG  
 CCCTGNGCACTTCTTCCACATGCTTGNNGCCACCAATCCCACCCAGAAAAACAAGAA  
 AGCCTGGGCCGTAATAATCAAATCCAGCGCTCTGGTCATCTGAACCTCTACCTGCTCCTGG  
 ACCTGTCCANAGTGTGTCGGAC

**Restriction Sites:** Please inquire

**ACCN:** BC029781

<b>Insert Size:</b>	2000 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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="#">BC029781.1</a> , <a href="#">AAH29781.1</a>
<b>RefSeq Size:</b>	1691 bp
<b>Locus ID:</b>	717
<b>Cytogenetics:</b>	6p21.33
<b>Protein Families:</b>	Druggable Genome, Protease, Secreted Protein
<b>Protein Pathways:</b>	Complement and coagulation cascades, Systemic lupus erythematosus
<b>Gene Summary:</b>	Component C2 is a serum glycoprotein that functions as part of the classical pathway of the complement system. Activated C1 cleaves C2 into C2a and C2b. The serine proteinase C2a then combines with complement factor 4b to create the C3 or C5 convertase. Deficiency of C2 has been reported to associated with certain autoimmune diseases and SNPs in this gene have been associated with altered susceptibility to age-related macular degeneration. This gene localizes within the class III region of the MHC on the short arm of chromosome 6. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Additional transcript variants have been described in publications but their full-length sequence has not been determined.[provided by RefSeq, Mar 2009]