

## Product datasheet for **MC203786**

### **C2 (NM\_013484) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	C2 (NM_013484) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	C2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC011086  
 TTCCGATCTCGGGGAAGTCAGATGACTTTTCTCTCCCCTAGCTCTCCGTTCTACTGTCCTGGAGACCAT  
 GGCCCCTCTGCTGGCTCTTCTACCTGCTGCAGCTGGGCCAGGCTGGCTGCTCTTTCTGCAACCAG  
 AATGTCAATATCACCGGTGGTAATTTACCCTCAGCCATGGCTGGGCCCTGGGAGCCTCCTCATCTACT  
 CCTGCCCCCTGGGCAGGTACCCGTCCCCAGCCTGGAGGAAATGTCAGAGCAACGGACAGTGGCTGACACC  
 AAGTCTAGCTCACATCACACCTGCGATCCTCTCGGATGGTTAAAGCAGTCTGCAAACCGGTTGATGC  
 CTAGCTCTTTCATCCTTTGAAAATGGCATCTATTTCCCTCGGCTGGTGTCTACCCTGTGGGTAGCAACG  
 TGAGCTTTGAGTGTGAGCAAGACTTACCTTGGGGGCTACCTGTGCGTACTGTGCCCCAACGGCT  
 GTGGGATGGAGAGACGGCTGTGTGTGACAAATGGGCTAGCCACTGCCCAACCCTGGCATCTCAGTGGG  
 ACAGCTCGGACAGGCTTGAACCTTGACCTTGGGACAAGGTGAGTACCCTGCTCCTCAAATATGG  
 TATTGACTGGCTCTGCAGAGCGGAGTGTGAGCAATGGAGTGTGGAGTGGTGGGACCCATTGCGG  
 ACAGCCTTACTCTTACGACTTCCCTGAGGATGTAGCATCTGCCCTAGACACCTCCCTCACCACTGCTT  
 GGAGCCACCAATCCCACCAGAACCTTCTGACAAAAGTTTGGGCGTAAGATCATAATCCAGCGCTCGG  
 GTCACCTGAACCTCTATTTGCTGCTTGATGCTTCTCAGAGTGTGACAGAAAAAGACTTTGACATCTTCAA  
 GAAGAGTCCGAACCTCATGGTGGAGAGGATCTTACGCTTTGAGGTAATGTCAGCGTAGCTATCATACC  
 TTTGCCTCTCAGCCAAAACCATCATGTGATCCTGAGTGTGAGAGATCCCAGGATGTGACGGAGGTGATCA  
 CAGTCTGGACTCTGCCAGCTACAAAGATCACGAAAATGCCACTGGCACTAACACTTATGAGTTTCTCAT  
 CCGCGTTTACTCCATGATGCAAAGCCAGATGGATCGCCTGGGATGGAGACCTCTGCCTGGAAGGAAATC  
 CGTCACACCATCATCCTTCTGACTGACGGAAAAGTCCAACATGGGTGACTCTCCAAGAAAGCAGTACCA  
 GAATCAGAGAGCTCCTGAGCATCGAACGAGAACAGAGATGACTACCTGGACATCTATGCTATTGGGGTGGG  
 CAAGCTGGATGTGGACTGAAAGAACTGAATGAGCTGGTTCCAAGAAGGATGGCGAGAGGCATGCCTTC  
 ATCTTGCAGGATGCAAAGCCTTGAACAGATCTTTGAGCACATGTTGGATGTCTAAGCTCACAGATA  
 CCATCTGTGGGTGGGAAACATGTCGCCAATGCCTCTGACCAGGAGAGGACACCTTGGCAAGTCACTT  
 TAAGCCCAAGAGCAAGGAAACTTCCAGGGATCACTCATCTGATCAGTGGGTGCTGACAGCAGCTCAC  
 TGCTTCCATGACATTCAGATGGAGGACCACCCTGTGGAGGGTCAATGTAGGTGATCCCACCTCTCAGC  
 ATGGCAAAGAATTTCTTGTGGAGGACGTGATAATTGCCCCAGGGTTAATGTCCATGCAAAGCGGAAGCA  
 GGGCATCTCAGAGTTCTATGCTGATGACATTGCCCTTGCTGAAGCTATCTCGGAAAGTAAAAATGTCCACC  
 CATGCCAGACCCATCTGCCTTCCCTGACTGTGGGAGCCAACATGGCTCTGCGGAGATCCCAGGTAGTA  
 CCTGTAAGATCATGAGACAGAACTTCTGTACAGCAGAAAAGTCTGTCACATTTTGTAGCTTTGAATGG  
 GAACAGACTCAACATCAACCTCAGGACAGGACCTGAGTGGACAAGGTGTATCCAGGCTGTCTCCAAAAAC  
 AAAACATCTTCCCAGCTTGAACAACTTAGCGAGGTGGTGTGACAGACCAGTTCTATGAGTGGGATGG  
 AGGAGGAAGATGACAATCCTTGAAGGAGAATCTGGGGAGCCGTTTTCTTGGACGGAGATACAGGTT  
 CTTCAGGTGGCCTGGTGTGAGTTGGGGTCTTTTACCCTTGTATGGTTCTCCAAACAAAAACTTGCGC  
 AAGAACTCCACGTGGTGTCTGCCAAGGGACTTCCACATTAGTCTTTCCGCCTGCAGCCCTGGCTGA  
 GGCAGCACCTGGATGGTGTCTGGACTTTCTGCCACTTAAACATGGTCACTGACTCCTTTATTAGTCTGA  
 ACTTCTGTCTAATACCTCTGAGCGTCTCACTCCTGGATACATAAATCTTGGGCCCCGGGAGCCAGAG  
 ACAGTGGCAAAAGCTAGGGAATCCCAGGATTGTGCCGGACCTCTGTGCCACCTGTGAAGCAAGTCTCT  
 CTCTAGTGTGGATGACCCGTGCTCCTTTGCTTTCACACGGAAATTTCCAGTTATGTAATTAATAAAAAAT  
 CAATGATTTCAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_013484

**Insert Size:** 2283 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:**

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:** [BC011086](#), [AAH11086](#)

**RefSeq Size:** 2618 bp

**RefSeq ORF:** 2283 bp

**Locus ID:** 12263

**UniProt ID:** [P21180](#)

**Cytogenetics:** 17 18.41 cM

**Gene Summary:** This gene encodes component C2 of the classical pathway of the complement system. The encoded protein undergoes proteolytic processing mediated by component C1 resulting in C2a and C2b fragments. C2a fragment, in turn, selectively cleaves components C3 and C5 of the complement system. Mice lacking the encoded protein are found to be more susceptible to bacterial infections. Mutations in the human homolog of this gene are associated with disorders such as systemic lupus erythematosus, Henoch-Schonlein purpura, or polymyositis. [provided by RefSeq, Mar 2015]