

Product datasheet for **SC337313**

C2 (NM_001282458) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C2 (NM_001282458) Human Untagged Clone
Tag:	Tag Free
Symbol:	C2
Synonyms:	ARMD14; CO2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_001282458, the custom clone sequence may differ by one or more nucleotides

```

ATGGCTGGGCTCCTGGGAGCCTTCTCACCTACTCTGCCCCAGGGCCTGTACCCATCCCCAGCATCAG
GCTGTGCAAGAGCAGCGGACAGTGGCAGACCCAGGAGCCACCCGGTCTCTGTCTAAGCGGTCTGCAA
CGTGAGGCTCCCTGTGGCTTTGCTCAGGCTGTGCGCTGTCCAGCCCTGTCTCCTTTGAGAAATGGCATT
TATACCCACGGCTGGGGTCTATCCCGTGGGTGGCAATGTGAGCTTCGAGTGTGAGGATGGCTTCATAT
TGCGGGGCTCGCCTGTGCGTCAGTGTGCGCCCAACGGCATGTGGGATGGAGAAACAGCTGTGTGTATAA
TGGGGCTGGCCACTGCCCAACCCAGGCATTTCACTGGGCGCAGTGGGACAGGCTTCCGCTTTGGTCAT
GGGGACAAGTCCGCTATCGCTGCTCCTCGAATCTTGTGCTCACGGGTCTTCGGAGCGGGAGTGCCAGG
GCAACGGGGTCTGGAGTGAACGGAGCCCATCTGCCGCAACCCACTCTTATGACTTCCCTGAGGACGT
GGCCCTGCCCTGGGCACTTCTTCTCCACATGCTTGGGGCCACCAATCCCACCCAGAAGACAAAGGAA
AGCCTGGGCCGTAAAATCCAAATCCAGCGCTCTGGTCATCTGAACCTCTACCTGCTCCTGGACTGTTCCG
AGAGTGTGTCGGAATGACTTTCTCATCTTCAAGGAGAGCGCCTCCCTCATGGTGGACAGGATCTTCAG
CTTTGAGATCAATGTGAGCGTTGCCATTATCACCTTTGCCTCAGAGCCCAAAGTCCCTCATGTCTGTCTG
AACGACAACCTCCCGGATATGACTGAGGTGATCAGCAGCCTGGAAAATGCCAACTATAAAGATCATGAAA
ATGAACTGGGACTAACACCTATGCGGCCTTAAACAGTGTCTATCTCATGATGAACAACCAATGCGACT
CCTCGGCATGAAACGATGGCCTGGCAGGAAATCCGACATGCCATCATCCTTCTGACAGATGAAAGTCC
AATATGGGTGGCTCTCCAAGACAGCTGTTGACCATATCAGAGAGATCCTGAACATCAACCAGAAGAGGA
ATGACTATCTGGACATCTATGCCATCGGGTGGCAAGCTGGATGTGGACTGGAGAGAACTGAATGAGCT
AGGGTCCAAGAAGGATGGTGAGAGGCATGCCTTCACTTGCAGGACACAAAGGCTCTGCACCAGGCTTTT
GAACATATGCTGGATGTCTCAAGCTCACAGACCCATCTGCGGGTGGGGAACATGTCAGCAAACGCCT
CTGACCAGGAGAGACCCCTGGCATGTACTATTAAGCCAAGAGCCAAGAGACCTGCCGGGGGGCCCT
CATCTCCGACCAATGGGTCTGACAGCAGCTCATTGCTTCCGCGATGGCAACGACCACTCCCTGTGGAGG
GTCAATGTGGGAGACCCAAATCCAGTGGGGCAAGAATTCCTTATTGAGAAAGCGGTGATCTCCCCAG
GGTTTGTGTCTTTGCCAAAAGAACCAGGGAATCCTGGAGTTCTATGGTGATGACATAGCTCTGCTGAA
GCTGGCCAGAAAGTAAAGATGTCCACCCATGCCAGGCCATCTGCCTTCCCTGCACGATGGAGGCCAAT
CTGGCTCTGCGGAGACCTCAAGGCAGCACCTGTAGGGACCATGAGAATGAACTGCTGAACAAACAGAGTG
TTCTGCTCATTTTGTGCTTGAATGGGAGCAAACCTGAACATTAACCTTAAAGTGGGAGTGGAGTGGAC
AAGCTGTGCCGAGTTGTCTCCAAGAAAAACCATGTTCCCAACTTGACAGATGTCAGGGAGGTGGTG
ACAGACCAGTTCCATGCAAGTGGGACCCAGGAGGATGAGAGTCCCTGCAAGGGAGAATCTGGGGGAGCAG
TTTTCTTGAGCGGAGATTCAAGTTTTTTCAGGTGGGTCTGGTGAGCTGGGGTCTTTACAACCCCTGCCT
TGGCTCTGCTGACAAAACCTCCCGCAAAAGGGCCCTCGTAGCAAGGTCCCGCCGCCACGAGACTTTCAC
ATCAATCTTCCGCATGCAGCCCTGGCTGAGGCAGCACCTGGGGGATGCTCTGAATTTTTTACCCTCT
AG
    
```

Restriction Sites: SgfI-MluI

ACCN: NM_001282458

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_001282458.1, NP_001269387.1</u>
RefSeq Size:	2890 bp
RefSeq ORF:	2172 bp
Locus ID:	717
Cytogenetics:	6p21.33
Protein Families:	Druggable Genome, Protease, Secreted Protein
Protein Pathways:	Complement and coagulation cascades, Systemic lupus erythematosus
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (5) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (5) has a shorter and distinct N-terminus compared to isoform 1.</p>