**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for SC336508

## C2 (NM_001282457) Human Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | C2 (NM_001282457) 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 »

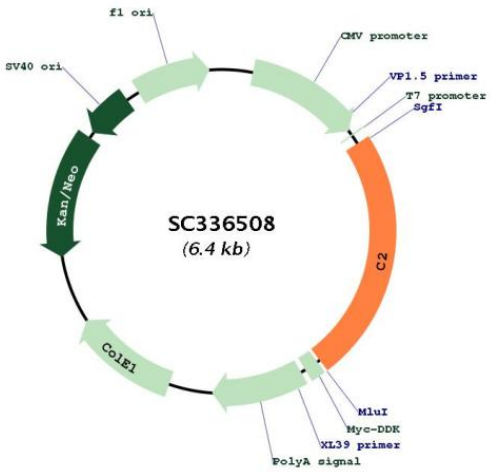
**Fully Sequenced ORF:**

>SC336508 representing NM_001282457.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGGACAAGGTCCGCTATCGCTGCTCCTCGAATCTTGTGCTCACGGGGTCTTCGGAGCGGGAGTGCC
AGGGCAACGGGGTCTGGAGTGGAACGGAGCCCATCTGCCGCCATCTTCAGCTTTGAGATCAATGTGAGC
GTTGCCATTATCACCTTTGCCTCAGAGCCCAAAGTCCTCATGTCTGTCCTGAACGACAACTCCCGGGAT
ATGACTGAGGTGATCAGCAGCCTGGAAAATGCCAACTATAAAGATCATGAAAATGGAACTGGGACTAAC
ACCTATGCGGCCTTAAACAGTGTCTATCTCATGATGAACAACCAAATGCGACTCCTCGGCATGGAAACG
ATGGCCTGGCAGGAAATCCGACATGCCATCATCCTTCTGACAGATGGAAAGTCCAATATGGGTGGCTCT
CCCAAGACAGCTGTTGACCATATCAGAGAGATCCTGAACATCAACCAGAAGAGGAATGACTATCTGGAC
ATCTATGCCATCGGGGTGGGCAAGCTGGATGTGGACTGGAGAGAACTGAATGAGCTAGGGTCCAAGAAG
GATGGTGAGAGGCATGCCTTCATTCTGCAGGACACAAAGGCTCTGCACCAGGTCTTTGAACATATGCTG
GATGTCTCCAAGCTCACAGACACCATCTGCGGGGTGGGGAACATGTCAGCAAACGCCTCTGACCAGGAG
AGGACACCCTGGCATGTCACTATTAAGCCCAAGAGCCAAGAGACCTGCCGGGGGGCCCTCATCTCCGAC
CAATGGGTCCTGACAGCAGCTCATTGCTTCCGCGATGGCAACGACCACTCCCTGTGGAGGGTCAATGTG
GGAGACCCCAAATCCCAGTGGGGCAAAGAATTCCTTATTGAGAAGGCGGTGATCTCCCCAGGGTTTGAT
GTCTTTGCCAAAAAGAACCAGGGAATCCTGGAGTTCTATGGTGATGACATAGCTCTGCTGAAGCTGGCC
CAGAAAGTAAAGATGTCCACCCATGCCAGGCCCATCTGCCTTCCCTGCACGATGGAGGCCAATCTGGCT
CTGCGGAGACCTCAAGGCAGCACCTGTAGGGACCATGAGAATGAACTGCTGAACAAACAGAGTGTTCCT
GCTCATTTTGTCGCCTTGAATGGGAGCAAACTGAACATTAACCTTAAGATGGGAGTGGAGTGGACAAGC
TGTGCCGAGGTTGTCTCCCAAGAAAAAACCATGTTCCCCAACTTGACAGATGTCAGGGAGGTGGTGACA
GACCAGTTCCTATGCAGTGGGACCCAGGAGGATGAGAGTCCCTGCAAGGGAGAATCTGGGGGAGCAGTT
TTCCTTGAGCGGAGATTCAGGTTTTTTCAGGTGGGTCTGGTGAGCTGGGGTCTTTACAACCCCTGCCTT
GGCTCTGCTGACAAAAACTCCCGCAAAAGGGCCCCTCGTAGCAAGGTCCCGCCGCCACGAGACTTTCAC
ATCAATCTCTTCCGCATGCAGCCCTGGCTGAGGCAGCACCTGGGGGATGTCCTGAATTTTTTACCCCTC
TAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

**Restriction Sites:** SgfI-MluI

**Plasmid Map:**




**ACCN:** NM_001282457

| | |
|---|---|
| **Insert Size:** | 1521 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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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:** | NM_001282457.1 |
| **RefSeq Size:** | 2069 bp |
| **RefSeq ORF:** | 1521 bp |
| **Locus ID:** | 717 |
| **Cytogenetics:** | 6p21.33 |
| **Protein Families:** | Druggable Genome, Protease, Secreted Protein |
| **Protein Pathways:** | Complement and coagulation cascades, Systemic lupus erythematosus |
| **MW:** | 56.5 kDa |
| **Gene Summary:** | 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]<br>Transcript Variant: This variant (4) represents use of an alternate promoter and has multiple differences in the coding region compared to variant 1. The resulting protein (isoform 4) has a distinct N-terminus and is shorter than isoform 1. |