

## Product datasheet for **SC115664**

### **C2 (NM\_000063) Human Untagged Clone**

#### **Product data:**

|                           |                                     |
|---------------------------|-------------------------------------|
| Product Type:             | Expression Plasmids                 |
| Product Name:             | C2 (NM_000063) Human Untagged Clone |
| Tag:                      | Tag Free                            |
| Symbol:                   | C2                                  |
| Synonyms:                 | ARMD14; CO2                         |
| Mammalian Cell Selection: | None                                |
| Vector:                   | <u><a href="#">pCMV6-XL4</a></u>    |
| E. coli Selection:        | Ampicillin (100 ug/mL)              |



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Fully Sequenced ORF: >OriGene ORF within SC115664 sequence for NM\_000063 edited (data generated by NextGen Sequencing)

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ATGGGCCCACTGATGGTTCTTTTTGCCTGCTGTTCTGTACCCAGGTCTGGCAGACTCG
GCTCCCTCCTGCCCTCAGAACGTGAATATCTCGGGTGGCACCTTCACCCTCAGCCATGGC
TGGGCTCCTGGGAGCCTTCTACCTACTCTGCCCCAGGGCCTGTACCCATCCCCAGCA
TCACGGCTGTGCAAGAGCAGCGGACAGTGGCAGACCCAGGAGCCACCCGGTCTGTCT
AAGGCGGTCTGCAAACCTGTGCGCTGTCCAGCCCCTGTCTCCTTTGAGAATGGCATTAT
ACCCACGGCTGGGGTCCATCCCGTGGGTGGCAATGTGAGCTTCGAGTGTGAGGATGGC
TTCATATTGCGGGGCTCGCCTGTGCGTCAGTGTGCCCCAACGGCATGTGGGATGGAGAA
ACAGCTGTGTGATAATGGGGCTGGCCACTGCCCAACCCAGGCATTTCACTGGGCGCA
GTGCGGACAGGCTTCCGCTTTGGTCATGGGGACAAGGTCCGCTATCGCTGCTCCTCGAAT
CTTGTGCTCACGGGGTCTTCGGAGCGGGAGTGCCAGGGCAACGGGGTCTGGAGTGGAAACG
GAGCCCATCTGCCCAACCCCTACTCTTATGACTTCCCTGAGGACGTGGCCCTGCCCTG
GGCACTTCTTCTCCACATGCTTGGGGCCACCAATCCCACCCAGAAGACAAAGGAAAGC
CTGGGCCGTAATAAATCCAAATCCAGCGCTCTGGTCACTGAACTTACCTGCTCCTGGAC
TGTTTCGACAGAGTGTGCGGAAAATGACTTCTCATCTTCAAGGAGAGCGCCTCCCTCATG
GTGGACAGGATCTTCAGCTTTGAGATCAATGTGAGCGTTGCCATTATCACCTTTGCCTCA
GAGCCAAAGTCTCATGTCTGTCTGAAACGAACTCCCGGGATATGACTGAGGTGATC
AGCAGCCTGGAATAATGCCAACTATAAGATCATGAAAATGGAAGTGGGACTAACACCTAT
GCGGCCTTAAACAGTGTCTATCTCATGATGAACAACCAATGCGACTCCTCGGCATGGAA
ACGATGGCCTGGCAGGAAATCCGACATGCCATCATCTTCTGACAGATGGAAAGTCCAAT
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AAGAGGAATGACTATCTGGACATCTATGCCATCGGGGTGGGCAAGCTGGATGTGGCTGG
AGAGAATGAATGAGCTAGGGTCCAAGAAGGATGGTGAGAGGCATGCCTTATTCTGCAG
GACACAAAGGCTCTGCACCAGGTCTTTGAACATATGCTGGATGTCTCAAAGCTCACAGAC
ACCATCTGCGGGGTGGGGAACATGTGAGCAACGCCTCTGACCAGGAGAGGACACCCTGG
CATGTCACTATTAAGCCCAAGAGCCAAGAGACCTGCCGGGGGGCCCTCATCTCCGACCAA
TGGGTCTGACAGCAGCTCATTGCTTCCGCGATGGCAACGACCACTCCCTGTGGAGGGTC
AATGTGGGAGACCCAAATCCCAGTGGGGCAAAGAATTCCTTATTGAGAAGGCGGTGATC
TCCCCAGGTTTGTATGTCTTTGCCAAAAAGAACAGGGAATCCTGGAGTTCTATGGTGAT
GACATAGCTCTGCTGAAGCTGGCCAGAAAGTAAAGATGTCCACCCATGCCAGGCCATC
TGCTTCCCTGCACGATGGAGGCCAATCTGGCTCTGCGGAGACCTCAAGGCAGCACCTGT
AGGGACCATGAGAATGAACTGCTGAACAAACAGAGTGTTCTGCTCATTTTGTGCGCTTG
AATGGGAGCAAATGAACATTAACCTTAAGATGGGAGTGGAGTGGACAAGCTGTGCCGAG
GTTGTCTCCCAAGAAAAACCATGTTCCCAACTTGACAGATGTGAGGGAGGTGGTGACA
GACCAGTTCTATGCAGTGGGACCCAGGAGGATGAGAGTCCCTGCAAGGGGAGAATCTGGG
GGAGCAGTTTTCTTGTAGCGGAGATTAGGTTTTTTCAGGTGGGTCTGGTGAGCTGGGGT
CTTTACAACCCCTGCCTTGGCTCTGCTGACAAAAACTCCCGCAAAAGGGCCCTCGTAGC
AAGGTCCCGCCGCCACGAGACTTTCACATCAATCTTCCGCATGCAGCCCTGGCTGAGG
CAGCACCTGGGGATGTCTGAATTTTTTACCCCTCTAG
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Clone variation with respect to NM\_000063.4

|                                     |   |
|-------------------------------------|---|
| <b>5' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 5' read for NM_000063 unedited<br/>           NGTTTCAATTTGTATACGACTCCTATAGGGCGGCCGGAATTCGCACGAGCTAACANAAG<br/>           ACCATCCCCCTTGCCACTCCCTGGTTTTTCTTCTCTGGCAGCAATGAAGCAGCTGCTGAC<br/>           CCAGCTCTAGTTTTCGGGAAGTCAGATGACTTTTCCCTCCCGGGCTCTCTACCTCTCG<br/>           CCGCCCCTAGGGAGGACACCATGGGCCACTGATGGTTCTTTTTGCCTGCTGTTCTGT<br/>           ACCCAGGTCTGGCAGACTCGGCTCCCTCCTGCCCTCAGAACGTGAATATCTCGGGTGGA<br/>           CCTTACCCTCAGCCATGGCTGGGCTCCTGGGAGCCTTTCACCTACTCCTGCCCCAGG<br/>           GCCTGTACCCATCCCCAGCATCACGGCTGTGCAAGAGCAGCGGACAGTGGCAGACCCAG<br/>           GAGCCACCCGGTCTGTGCTAAGCGGTCTGCAAACCTGTGCGCTGCCAGCCCCGTCT<br/>           CCTTTGAGAATGGCATTATACCCACGGCTGGGGTCTATCCCGTGGGTGGCAATGTGA<br/>           GCTTCGAGTGTGAGGATGGCTTCATATTGCGGGGCTCGCCTGTGCGTCAGTGTGCCCCA<br/>           ACGGCATGTGGGATGGAGAAACAGCTGTGTGTGATAATGGGGCTGGCCACTGCCCAACC<br/>           CAGGCATTTCACTGGGCGCAGTGGGACAGGCTCCGCTNTGGTCATGGGACAAGGTCC<br/>           GCTATCGTCTCCTCGAATCTTGTGCTCACGGNGTCTTCGGAGCGGNAGTCCAGGGCA<br/>           ACGGGGCTGGAGTGGAAACGGAGCCCATCTGCCGNAACCCTACTTTATGACTTNCCTG<br/>           NAGGACGTGGGCCCTGNCCTGGGCACTTNTTCTCCACATGCTGGNNGCCACCATCCCA<br/>           CCCAAAGACAAAGGAAAGCT</p>   |
| <b>3' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 3' read for NM_000063 unedited<br/>           CCCCCATTCTTGCCCGCGCCGAATCTACAGTCGACTTTTTTTTTTTTTTTTTTTTGTG<br/>           GAAACCATTGATTTTTTAAATTTTATAACTGGGAAATTCATGTGAAAGTGAAACAAGC<br/>           ATGAGTCAAGTCAACCAGGGAAGGAATCTGGGGACAGGCCACGGAGCGGGAGGTGGGCA<br/>           GCGAGGCAGTCCCTGCTGTTAGGAGCCCTGAGGATTTCCAGCTTGTGTGCGCTGCCTCTG<br/>           GCATCCTAGAGACCCGGATTTACTCAGCTAGGAGAGAGGATGGATCACAGGGTCTAAGGG<br/>           TGGCCATTAGAGGTAGAAGATGGAGGGGCGGCAGATTCTGGCAGGGCAGCAGAGGGCTC<br/>           AGTGGCCATGGCTAGAGGGGTAAAAATTCAGGACATCCCCAGGTGCTGCCTCAGCCAG<br/>           GGCTGCATGCGGAAGAGATTGATGTGAAAGTCTCGTGGCGGCGGGACCTTGCTACGAGGG<br/>           GCCTTTTGCGGGAGTTTTTGTGTCAGCAGAGCCAGGCAGGGGTTGTAAGACCCAGCTC<br/>           ACCAGACCCACCTGACAAAACCTGAATCTCCGATCAAGGAAAACCTGCTCCCCAGATTCT<br/>           CCCTTGCAAGGACTCTCATCCTCCTGGTCCCCTGATAGGAACTGGCCCGCCACCACC<br/>           TCCTTGACATCTGTCAAGCTGGGCGAACACGGCCTTTTTTTTTTCTAGACTCCCTCGGCC<br/>           CAAGCTTCGTACCATCCTTCCCTCCTCAGGGCCCCGCCTACACCTTGTCCCAATTCGG<br/>           CCCCCTCCCCTCCATCCCTACATCTTCCCTCACACACCCCTTCCATCCCCACCCCTC<br/>           CTCCCCCTCTCCCGCTCATCACTGCCCTTCCCTGTGCGCGCTCTCCCCCCCC<br/>           CTCGCGCGCCCCACCCCG</p> |
| <b>Restriction Sites:</b>           | NotI-NotI   |
| <b>ACCN:</b>                        | NM_000063   |
| <b>Insert Size:</b>                 | 2740 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="#">NM_000063.3</a> , <a href="#">NP_000054.2</a>  |
| <b>RefSeq Size:</b>           | 2609 bp  |
| <b>RefSeq ORF:</b>            | 2259 bp  |
| <b>Locus ID:</b>              | 717  |
| <b>UniProt ID:</b>            | <a href="#">P06681</a>   |
| <b>Cytogenetics:</b>          | 6p21.33  |
| <b>Domains:</b>               | CCP, Tryp_SPc, VWA   |
| <b>Protein Families:</b>      | Druggable Genome, Protease, Secreted Protein   |
| <b>Protein Pathways:</b>      | Complement and coagulation cascades, Systemic lupus erythematosus  |
| <b>Gene Summary:</b>          | <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 (1) encodes the longest isoform (1).</p> |