

## Product datasheet for **SC326602**

### **C2 (NM\_001145903) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	C2 (NM_001145903) 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)



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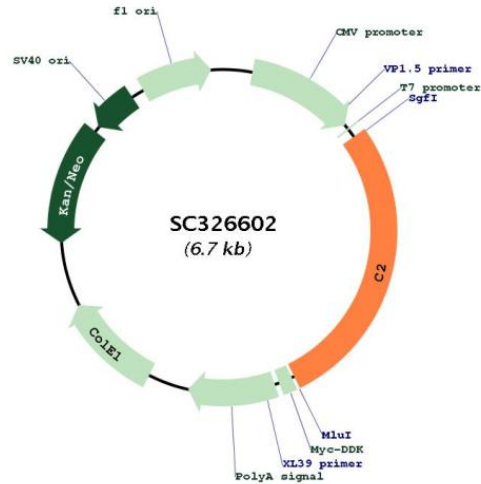
**Fully Sequenced ORF:** >SC326602 representing NM\_001145903.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGGCCCACTGATGGTCTTTTTTGCCTGCTGTTCTGTACCCAGCTGGCCACTGCCCCAACCCAGGC
ATTTCACTGGGCGCAGTGGGACAGGCTTCCGCTTTGGTCATGGGGACAAGGTCCGCTATCGCTGCTCC
TCGAATCTTGTGCTCACGGGTCTTCGGAGCGGAGTGCCAGGGCAACGGGTCTGGAGTGAACGGAG
CCCATCTGCCGCAACCTACTCTTATGACTTCCCTGAGGACGTGGCCCTGCCCTGGGCACTTCTTC
TCCCACATGCTTGGGCGCACCAATCCCACCCAGAAGACAAAGAAAGCCTGGGCGTAAAAATCCAAATC
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CTCATCTTCAAGGAGAGCGCTCCCTCATGGTGGACAGGATCTTCAGCTTTGAGATCAATGTGAGCGTT
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TATGCGGCCTTAAACAGTGTCTATCTCATGATGAACAACCAAATGCGACTCCTCGGCATGGAACGATG
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CAGTTCCTATGCAGTGGGACCCAGGAGGATGAGAGTCCCTGCAAGGGAGAATCTGGGGGAGCAGTTTTC
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TCTGCTGACAAAACCTCCGCAAAAGGGCCCTCGTAGCAAGTCCCGCCGCCACGAGACTTTCACATC
AATCTCTTCCGCATGCAGCCCTGGCTGAGGCAGCACCTGGGGATGTCCTGAATTTTTTACCCCTCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

**Restriction Sites:** SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_001145903

**Insert Size:** 1863 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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:** [NM\\_001145903.2](#)

**RefSeq Size:** 2466 bp

**RefSeq ORF:** 1863 bp

**Locus ID:** 717

**UniProt ID:** [P06681](#)

<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>MW:</b>	69.4 kDa
<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 (2) lacks two in-frame exons in the 5' coding region, compared to variant 1, that results in an isoform (2) with a shorter N-terminus that lacks one of two SUSH1 repeat domains, compared to isoform 1.</p>