

Product datasheet for **RC239419**

C2 (NM_001282458) Human Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>RC239419 representing NM_001282458
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGGGCTCCTGGGAGCCTTCTCACCTACTCTGCCCCAGGGCCTGTACCCATCCCCAGCATCAGG
 GCTGTGCAAGAGCAGCGGACAGTGGCAGACCCAGGAGCCACCCGGTCTCTGTCTAAGGCGGTCTGCAAA
 CGTGAGGCTCCCTGTGGGCTTTGCTCAGGCTGTGCGCTGTCCAGCCCTGTCTCCTTTGAGAATGGCATT
 TATACCCACGGCTGGGGTCTATCCCCTGGTGGCAATGTGAGCTTCGAGTGTGAGGATGGCTTCATAT
 TGCGGGGCTCGCCTGTGCGTCAGTGTGCCCAACGGCATGTGGGATGGAGAAACAGCTGTGTGTGATAA
 TGGGGCTGGCCACTGCCCAACCCAGGCATTTCACTGGGCGCAGTGGGACAGGCTTCGGCTTTGGTCAT
 GGGGACAAGTCCGCTATCGCTGCTCCTCGAATCTTGTGCTCACGGGTCTTCGGAGCGGAGTGCCAGG
 GCAACGGGGTCTGGAGTGAACGGAGCCCATCTGCCCAACCCACTCTTATGACTTCCCTGAGGACGT
 GGCCCTGCCCTGGGCACTTCTTCTCCACATGCTTGGGGCCACCAATCCCACCCAGAAGACAAAGGAA
 AGCTGGGCCGTAAAATCCAAATCCAGCGCTCTGGTCATCTGAACCTCTACCTGCTCCTGGACTGTTCCG
 AGAGTGTGTCCGAAAATGACTTTCTCATCTTCAAGGAGAGCGCCTCCCTCATGGTGGACAGGATCTTCAG
 CTTTGAGATCAATGTGAGCGTTGCCATTATCACCTTTGCCTCAGAGCCCAAAGTCCCTCATGTCTGTCCCTG
 AACGACAACTCCCGGATATGACTGAGGTGATCAGCAGCTGGAAAATGCCAACTATAAAGATCATGAAA
 ATGGAAGTGGGACTAACACCTATGCGGCCTTAAACAGTGTCTATCTCATGATGAACAACCAATGCGACT
 CCTCGGCATGAAACGATGGCCTGGCAGGAAATCCGACATGCCATCATCCTTCTGACAGATGAAAGTCC
 AATATGGTGGCTCTCCCAAGACAGCTGTTGACCATATCAGAGAGATCCTGAACATCAACCAGAAGAGGA
 ATGACTATCTGGACATCTATGCCATCGGGTGGCAAGCTGGATGTGGACTGGAGAGAAGTGAATGAGCT
 AGGGTCCAAGAAGGATGGTGGAGGCATGCCTTCACTTCTGCAGGACACAAAGGCTCTGCACCGGCTTT
 GAACATATGCTGGATGTCTCAAGCTCACAGACCCATCTGCGGGTGGGGAACATGTCAGCAAACGCCCT
 CTGACCAGGAGAGGACCCCTGGCATGTCACTATTAAGCCCAAGAGCCAAGAGACCTGCCGGGGGCCCT
 CATCTCCGACCAATGGTCTGACAGCAGCTCATTGCTCCGCGATGGCAACGACCACTCCCTGTGGAGG
 GTCAATGTGGGAGACCCAAATCCAGTGGGGCAAAGAATTCCTTATTGAGAAGGCGGTGATCTCCCGAG
 GGTTTGTGTCTTTGCCAAAAGAACCAGGGAATCCTGGAGTTCTATGGTGTGACATAGCTCTGCTGAA
 GCTGGCCAGAAAGTAAAGATGTCCACCCATGCCAGGCCATCTGCCTTCCCTGCAGATGGAGGCCAAT
 CTGGCTCTGCGGAGACCTCAAGGCAGCACCTGTAGGGACCATGAGAATGAACTGCTGAACAAACAGAGTG
 TTCTGCTCATTTTGTGCGCTTGAATGGGAGCAAACCTGAACATTAACCTTAAAGATGGGAGTGGAGTGGAC
 AAGCTGTGCCGAGGTTGTCTCCCAAGAAAAACCATGTTCCCAACTTGACAGATGTCAGGGAGGTGGTG
 ACAGACCAGTTCTATGCAAGTGGGACCCAGGAGGATGAGAGTCCCTGCAAGGGAGAACTGGGGGAGCAG
 TTTTCTTGTAGCGGAGATTAGGTTTTTTCAGGTGGGTCTGGTGGAGTGGGGTCTTTACAACCCCTGCC
 TGGCTCTGCTGACAAAACCTCCCGCAAAGGGCCCTCGTAGCAAGTCCCGCCGCCACGAGACTTTCAC
 ATCAATCTTCCGCATGCAGCCCTGGCTGAGGCAGCACCTGGGGGATGTCTGAATTTTTTACCCCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239419 representing NM_001282458
 Red=Cloning site Green=Tags(s)

MAGLLGAFSPTPAPRACTHPQHHCARAADSGRPQEPPLCLRRSANVRLPVGFAQAVRCPAPVSFENGI
 YTPRLGSYPVGGNVSFECEDGFILRGSPVRQCRPNGMWDGETAVCDNGAGHCPNPGISLGAVRTGFRFGH
 GDKVRYRCSSNLVLTGSSERECQNGVWSGTEPICRQPYSYDFPEDVAPALGTSF SHMLGATNPTQKTKE
 SLGRKIQIQRSGLNLVLLLDSCSQSVSENFLLIFKESASLMVDRIFSFEINVSVAITFASEPVLMSVL
 NDNSRDMEVIVSSLENANYKDHEGTGTNTYAALNSVYLMNMQMRLGEMTMAWQEIRHAIILLTDGKS
 NMGGSPKTAVDHIREILNINQKRNDYLDIYAIGVGKLDVDWRELNELGSKKDGGERHAFILQDTKALHQVF
 EHMLDVSKLTDITCGVGNMSANASDQERTPWHVTIKPKSQETCRGALISDQWVLTAAHCFRDGNDHSLWR
 VNVGDPKSQWGKEFLIEKAVISPGFDVFAKKNQGI LEFYGDDIALKLAQVKMSTHARPICLPCTMEAN
 LALRRPQGSTCRDHENELLNKQSVPAHFVALNGSKLNINLKMGEVWTSCAEVVSQEKTMFNLTDVREV
 TDQFLCSGTQEDESPCKGESGGAVFLERRFRFFQVGLVSWGLYNPCLGSADKNSRKRAPRSKVPPPRDFH
 INLFRMQPWLRLQHLGDVNLFLPL

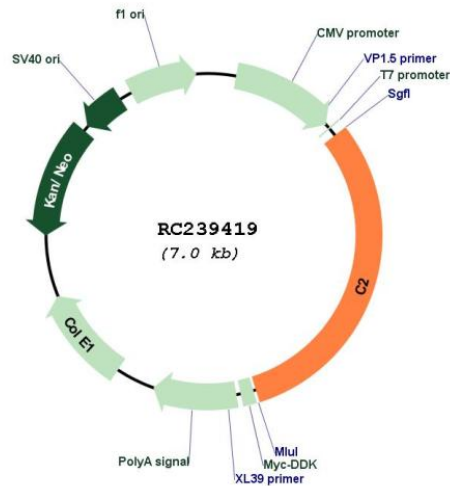
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001282458

ORF Size: 2169 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001282458.2](#)

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
MW:	80.6 kDa
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>