

Product datasheet for **RG208097**

C2 (NM_000063) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C2 (NM_000063) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C2
Synonyms:	ARMD14; CO2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG208097 representing NM_000063
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCCACTGATGTTCTTTTTGCCTGCTGTTCTGTACCCAGGTCTGGCAGACTCGGCTCCCTCCT
 GCCCTCAGAACGTGAATATCTCGGGTGGCACCTTCACCCTCAGCCATGGCTGGGCTCCTGGGAGCCTTCT
 CACCTACTCTGCCCCAGGGCCTGTACCCATCCCAGCATCACGGCTGTGCAAGAGCAGCGGACAGTGG
 CAGACCCAGGAGCCACCCGGTCTCTGTCTAAGGCGGTCTGCAAACCTGTGCGTGTCCAGCCCCTGTCT
 CCTTTGAGAATGGCATTATACCCACGGCTGGGGTCTATCCCGTGGGTGGCAATGTGAGCTTCGAGTG
 TGAGGATGGTTCATATTGCGGGGCTCGCTGTGCGTCAGTGTGCCCCAACGGCATGTGGGATGGAGAA
 ACAGCTGTGTGATAATGGGGTGGCCACTGCCCAACCCAGGCATTTCACTGGGCGCAGTGGGACAG
 GCTTCCGCTTTGGTCATGGGACAAGTCCGCTATCGTGTCTCCTCGAATCTTGCTCACGGGGTCTTC
 GGAGCGGAGTGCCAGGGCAACGGGGTCTGGAGTGAACGGAGCCCATCTGCCCAACCCCTACTCTTAT
 GACTTCCCTGAGGACGTGGCCCTGCCCTGGGCACTTCTTCTCCACATGCTTGGGGCCACCAATCCCA
 CCCAGAAGACAAAGGAAAGCCTGGGCCGTAATAATCCAAATCCAGCGCTCTGGTACTCTGAACCTCTACCT
 GCTCCTGGACTGTTTCGAGAGTGTGTCGAAAAATGACTTCTCATCTTCAAGGAGAGCGCCTCCCTCATG
 GTGGACAGGATCTTCAGCTTTGAGATCAATGTGAGCGTTGCCATTATCACCTTTGCCTCAGAGCCCAAG
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 AACACCAAAATGCGACTCTCGGCATGGAACGATGGCTGGCAGGAAATCCGACATGCCATCATCTTTC
 TGACAGATGGAAGTCCAATATGGGTGGCTCTCCAAGACAGCTGTTGACCATATCAGAGAGATCCTGAA
 CATCAACCCAGAAGAGGAATGACTATCTGGACATCTATGCCATCGGGTGGGCAAGCTGGATGTGGACTGG
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 ACCTGCCGGGGGCCCTCATCTCCGACCAATGGGTCTGACAGCAGCTCATTGCTTCCGCGATGGCAACG
 ACCACTCCCTGTGGAGGGTCAATGTGGGAGACCCCAAATCCAGTGGGGCAAAGAATTCTTATTGAGAA
 GCGCGTGATCTCCCAGGGTTTGTGTCTTTGCCAAAAAGAACCCAGGGAATCCTGGAGTTCTATGGTGAT
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 ATGTCAGGGAGGTGGTGACAGACCAGTTCTATGCAGTGGGACCCAGGAGGATGAGAGTCCCTGCAAGGG
 AGAATCTGGGGGAGCAGTTTTCTTGAGCGGAGATTAGGTTTTTTAGGTGGTCTGGTGAGCTGGGGT
 CTTTACAACCCCTGCCTTGGCTCTGCTGACAAAAACTCCCGCAAAGGGCCCTCGTAGCAAGTCCCGC
 CGCCACGAGACTTTCACATCAATCTCTCCGCATGCAGCCCTGGCTGAGGCAGCACCTGGGGGATGTCCT
 GAATTTTTTACCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG208097 representing NM_000063
Red=Cloning site Green=Tags(s)

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MGPLMVLFCLLFLYPGLADSAPSCPQNVNISGGTFTLSHGWPAGSLLTYSQPQLYPSASRLCKSSGQW
QTPGATRSLSKAVCKPVRCPAPVSFENGIYTPRLGSPVGGNVSFECEDGFILRGSPPVRCRPNMGWDGE
TAVCDNGAGHCPNPGISLGAVRTGFRFGHGDKVRYRCSNLVLTGSSERECQNGVWSGTEPICRQPYSY
DFPEDVAPALGTSFSHMLGATNPTQKTKESSLGRKIQIQRSGHLNLYLLLDSCSQSVSENDFLIFKESASLM
VDRIFFSEINVSVAIITFASEPKVLSVLDNSRDMTEVISSLENANYKDHENGTNTYAALNSVYLMM
NNQMRLGEMETMAWQEIIRHAIILLTDGKSNMGGSPKTAVDHIREILNINQKRNDYLDIYAIGVGKLDVDW
RELNELGSKKDGERHAFILQDTKALHQVFEHMLDVSKLTDICGVGNMSANASDQERTPHVHTIKPKSQE
TCRGALISDQWVLTAAHCFRDGNDHSLWRVNVGDPKSQWGKEFLIEKAVISPGFDVFAKKNQGILEFYGD
DIALLLKLAQKVKMSTHARPICLPCTMEANLALRRPQGSTCRDHENELLNKQSVPAHFVALNGSKLNINLK
MGVEWTSCAEVVSQEKTMFPNLTDVREVVDQFLCSGTQEDESPCKGESGGAVFLERRFRFFQVGLVSWG
LYNPCLGSADKNSRKRAPRSKVPVPPRDFHINLFRMQPWLRLQHLGDVNLNLFPL
    
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000063

ORF Size: 2256 bp

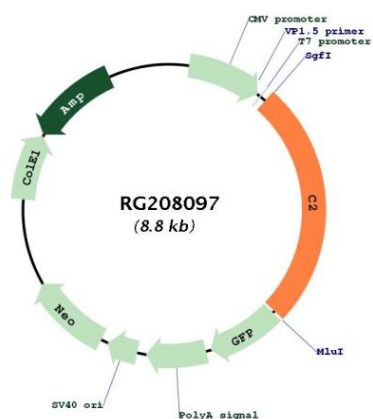
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<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:	NM_000063.6
RefSeq Size:	2609 bp
RefSeq ORF:	2259 bp
Locus ID:	717
UniProt ID:	P06681
Cytogenetics:	6p21.33
Domains:	CCP, Tryp_SPc, VWA
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>

Product images:



Circular map for RG208097