

Product datasheet for **RG239419**

C2 (NM_001282458) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C2 (NM_001282458) 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:**

>RG239419 representing NM_001282458.
 Blue=ORF Red=Cloning site Green=Tag(s)

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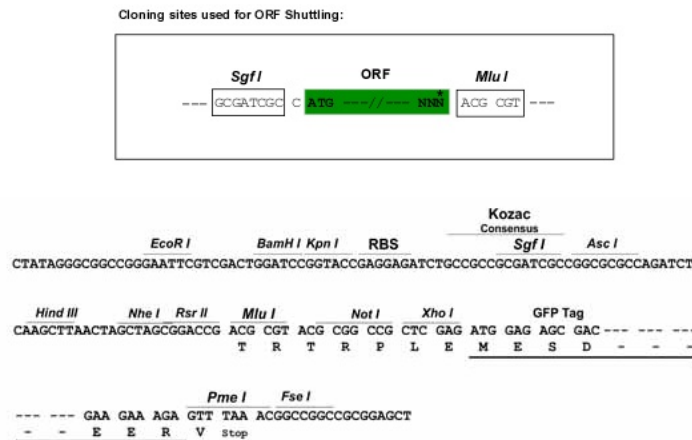
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ACCGGTACGCGGCCGCTCGAG – GFP Tag – GTTAAAC
  
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Protein Sequence: >Peptide sequence encoded by RG239419
 Blue=ORF Red=Cloning site Green=Tag(s)

MAGLLGAFSPTPAPRACTHPQHHCARAADSGRPQEPPLCLRRSANVRLPVGFAQAVRCPAPVSFENG
 IYTPRLGSYPVGGNVSFECEDGFI LRGSVPVRCRPNMGWDGETAVCDNGAGHCPNPGISLGAVRTGFRF
 GHGDKVRYRCCSNLVL TGSSERECQNGVWSGTEPICRQPYSYDFPEDVAPALGTFSHMLGATNPTQK
 TKESSLGRKIQIQRSGHLNLYLLLDSCQSVSSENDFLIFKESASLMVDRIFFSFEINVSVAIITFASEP
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 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVFSYRYEAGRVIGDFKVMGTGF
 PEDSVIFTDKIIRSNAIVEHLHPMGDNDLGSFTRTFLSRDGGYSSVVD SHMHFKSAIHP
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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001282458

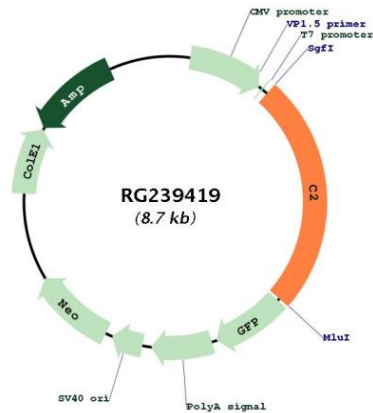
ORF Size: 2169 bp

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).
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:	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]

Product images:



Circular map for RG239419