

Product datasheet for **RG227665**

C2 (NM_001145903) Human Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RG227665 representing NM_001145903
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCCACTGATGTTCTTTTTGCCTGCTGTTCTGTACCCAGCTGGCCACTGCCCCAACCCAGGCA
 TTTCAGTGGGCGCAGTGCAGGACAGGCTTCGCTTTGGTCATGGGACAAGGTCGGCTATCGCTGCTCCTC
 GAATCTTGTGCTCAGGGGTCTTCGAGCGGGAGTGCCAGGGCAACGGGTCTGGAGTGGAAACGGAGCCC
 ATCTGCCCAACCCACTCTTATGACTTCCCTGAGGACGTGGCCCTGCCCTGGGCACTTCTTCTCCC
 ACATGCTTGGGGCCACCAATCCCACCCAGAAGACAAAGGAAAGCCTGGGCCGTAAATCCAAATCCAGCG
 CTCTGGTCATCTGAACCTCTACCTGCTCCTGGACTGTTTCGAGAGTGTGTCGAAATGACTTTCTCATC
 TTCAAGGAGAGCGCTCCCTCATGGTGGACAGGATCTTCAGCTTTGAGATCAATGTGAGCGTTGCCATTA
 TCACCTTTGCCTCAGAGCCAAAGTCTCATGTCTGCTGCTGAACGACAACCTCCGGGATATGACTGAGGT
 GATCAGCAGCCTGAAAATGCCAACTATAAAGATCATGAAAATGGAAGTGGGACTAACACCTATGCGGCC
 TTAACAGTGTCTATCTCATGATGAACAACCAATGCGACTCCTCGGCATGGAAACGATGGCCTGGCAGG
 AAATCCGACATGCCATCATCCTTCTGACAGATGAAAAGTCCAATATGGGTGGCTCTCCAAAGACAGCTGT
 TGACCATATCAGAGAGATCCTGAACATCAACCAGAAGAGGAATGACTATCTGGACATCTATGCCATCGGG
 GTGGGCAAGCTGGATGTGGACTGGAGAGAACTGAATGAGCTAGGGTCCAAGAAGGATGGTGGAGGCATG
 CCTTATTCTGCAGGACAAAAGGCTCTGCACCAGGTCTTTGAACATATGCTGGATGTCTCCAAGCTCAC
 AGACACCATCTGCGGGTGGGAAACATGTCAGCAAACGCTCTGACCAGGAGAGGACACCCTGGCATGTC
 ACTATTAAGCCAAAGAGCAAGAGACCTGCCGGGGCCCTCATCTCCGACCAATGGGTCTGACAGCAG
 CTCATTGCTTCCGCGATGGCAACGACCCTCCCTGTGGAGGGTCAATGTGGGAGACCCCAATCCAGTG
 GGGCAAAGAATTCCCTATTGAGAAGGCGGTGATCTCCCAAGGGTTTATGATGCTTTGCCAAAAGAACCAG
 GGAATCCTGGAGTTCTATGGTGTGACATAGCTCTGCTGAAGCTGGCCAGAAAAGTAAAGATGTCCACCC
 ATGCCAGGCCATCTGCCTTCCCTGCACGATGGAGGCAATCTGGCTCTGCGGAGACCTCAAGGCAGCAC
 CTGTAGGGACCATGAGAATGAACTGCTGAACAAACAGAGTGTTCCTGCTCATTGCTGCGCTTGAATGGG
 AGCAAAGTGAACATTAACCTTAAGATGGGAGTGGAGTGGACAAGCTGTCCGAGGTTGTCTCCAAAGAAA
 AAACCATGTTCCCAACTGACAGATGTCAGGGAGGTGGTACAGACCAGTTCCTATGCAGTGGGACCCA
 GGAGGATGAGAGTCCCTGCAAGGAGAATCTGGGGGAGCAGTTTTCTTGAGCGGAGATTAGGTTTTTT
 CAGGTGGGTCTGGTGGAGTGGGCTTTTACAACCCTGCCTTGGCTCTGCTGACAAAACTCCCGAAAA
 GGGCCCTCGTAGCAAGTCCCGCCGCCACGAGACTTTCATCAATCTCTCCGATGCAGCCCTGGCT
 GAGGCAGCACCTGGGGATGTCCTGAATTTTTTACCCCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG227665 representing NM_001145903
 Red=Cloning site Green=Tags(s)

MGPLMVLFCLLFLYPAGHCPNPGISLGAVRTGFRFGHGDKVRYRCSSNLVLTGSSERECQNGVWSGTEP
 ICRQPYSYDFPEDVAPALGTSFSLMLGATNPTQKTKEKSLGRKIQIQRSGHLNLYLLLDSCQSSENDFLI
 FKESASLMVDRIFSFEINVSVAIITFASEPKVLSVLNDNSRDMTEVISSLENANYKDHENGTGNTYAA
 LNSVYLLMNNQMRLLGMETMAWQEIRHAIILLTDGKSNMGGSPKTAVDHIREILNINQKRNDYLDIYAIG
 VGKLDVDWRELNELGSKKDGERHAFILQDTKALHQVFEHMLDVSKLTDITCGVGNMSANASDQERTPWVH
 TIKPKSQETCRGALISDQWVLTAAHCFRDGNDHSLWRVNVGDPKSQWGKEFLIEKAVISPGFDVFAKKNQ
 GILEFYGDDIALKLAQKVKMSTHARPICLPCTMEANLALRRPQGSTCRDHENELLNKQSVPAHFVALNG
 SKLNINLKMGEVWTSCEVVSQEKTMFPNLTDVREVVTDQFLCSGTQEDESPCKGESGGAVFLERRFRFF
 QVGLVSWGLYNPCLGSADKNSRKRAPRSKVPPPRDFHINLFRMQPWLRLQHLGDVNLFLPL

TRTRPLE – GFP Tag – V

Restriction Sites:

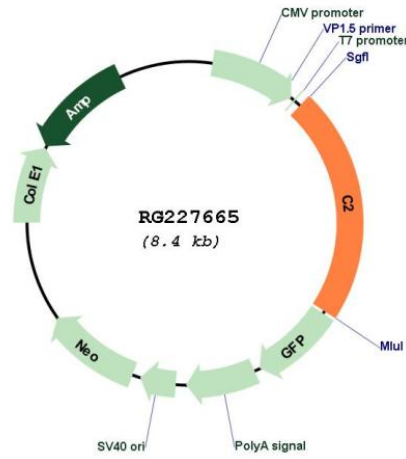
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001145903
 ORF Size: 1860 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_001145903.3
RefSeq Size:	2471 bp
RefSeq ORF:	1863 bp
Locus ID:	717
UniProt ID:	P06681
Cytogenetics:	6p21.33
Protein Families:	Druggable Genome, Protease, Secreted Protein
Protein Pathways:	Complement and coagulation cascades, Systemic lupus erythematosus
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]