

Product datasheet for **MG210516**

C2 (NM_013484) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C2 (NM_013484) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210516 representing NM_013484
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCCCCTGTGGCTCTCTTCTACCTGCTGCAGCTGGGCCAGGCCTGGCTGCTCTCTTCTGCAACC
 AGAATGTCAATATCACCGGTGGTAATTTACCCTCAGCCATGGCTGGGCCCTGGGAGCCTCCTCATCTA
 CTCTGCCCCCTGGGAGGTACCCGTCCCCAGCCTGGAGGAAATGTCAGAGCAACGGACAGTGGCTGACA
 CCAAGGCTAGCTCACATCACACCCTGCGATCCTCTCGGATGGTTAAAGCAGTCTGCAAACCGGTTTCGAT
 GCCTAGCTCCTTCATCCTTTGAAAATGGCATCTATTTCCCTCGGCTGGTGTCTACCCTGTGGGTAGCAA
 CGTGAGCTTTGAGTGTGAGCAAGACTTCACCTTGGGGGCTCACCTGTGCGGTACTGTGCCCAACGGC
 CTGTGGGATGGAGAGACGGCTGTGTGTGACAATGGGGTAGCCACTGCCCAACCCTGGCATCTCAGTGG
 GCACAGCTCGGACAGGCTTGAACCTTTGACCTTGGGGACAAGGTCAGGTACCGCTGCTCCTCTCAAATAT
 GGTATTGACTGGCTCTGCAGAGCGGGAGTGTGAGCAATGGAGTGTGGAGTGGGTGGAAACCCATTTGC
 CGACAGCCTTACTCTTACGACTTCCCTGAGGATGTAGCATCTGCCCTAGACACCTCCCTACCAACCTGC
 TTGGAGCCACCAATCCCACCCAGAACCTTCTGACAAAAAGTTTGGGCCGTAAGATCATAATCCAGCGCTC
 GGGTCACTGAACCTCTATTTGCTGCTTGTGCTTCTCAGAGTGTGACAGAAAAAGACTTTGACATCTTC
 AAGAAGAGTGGCAACTCATGGTGGAGAGGATCTTCAGCTTTGAGGTAATGTCAGCGTAGCTATCATCA
 CCTTTGCCTCTCAGCCAAAACCATCATGTGATCCTGAGTGAGAGATCCCAGGATGTGACGGAGGTGAT
 CACCAGTCTGGACTCTGCCAGCTACAAAGATCACGAAAATGCCACTGGCACTAACCTTATGAGGTTCTC
 ATCCGCGTTTACTCCATGATGCAAAGCCAGATGGATCGCTGGGCATGGAGACCTCTGCCTGGAAGGAAA
 TCCGTACACCATCATCCTTCTGACTGACGGAAGTCCAACATGGGTGACTCTCCAAGAAAGCAGTAC
 CAGAATCAGAGAGCTCCTGAGCATCGAACAGAACAGAGATGACTACCTGGACATCTATGCTATTGGGGTG
 GGCAAGCTGGATGTGGACTGGAAGAAGTGAATGAGCTGGGTTCCAAGAAGGATGGCGAGAGGCATGCCT
 TCATCTTGAGGATGCAAAGGCCTTGAACAGATCTTTGAGCACATGTTGGATGTCTCTAAGCTCACAGA
 TACCATCTGTGGGGTGGGAACATGTCCGCCAATGCCTCTGACCAGGAGAGGACACCTTGGCAAGTCACC
 TTTAAGCCCAAGAGCAAGGAACTTGCAGGGATCACTCATCTCTGATCAGTGGGTGCTGACAGCAGCTC
 ACTGCTTCCATGACATTCAGATGGAGGACCACCACCTGTGGAGGGTCAATGTAGGTGATCCCACCTCTCA
 GCATGGCAAAGAATTTCTTGTGGAGGACGTGATAATTGCCCCAGGGTTAATGTCCATGCAAAGCGGAAG
 CAGGGCATCTCAGAGTTCTATGCTGATGACATTGCCTTGTGAAGCTATCTCGGAAAGTAAAATGTCCA
 CCCATGCCAGACCCATCTGCCTTCTTGCATGTGGGAGCCAACATGGCTCTGCGGAGATCCCAGGTAG
 TACCTGTAAGATCATGAGACAGAACTTCTGTACAGCAGAAAAGTTCTGCACATTTTGTAGCTTTGAAT
 GGGAACAGACTCAACATCAACCTCAGGACAGGACCTGAGTGGACAAGGTGTATCCAGGCTGTCTCCAAA
 ACAAAAACATCTTCCCAGCTTGACAAACGTTAGCGAGGTGGTGACAGACCAGTTCTATGCAAGTGGGAT
 GGAGGAGGAAGATGACAATCCTTGAAGGAGAATCTGGGGGAGCCGTTTTCTTGGACGGAGATACAGG
 TTCTTCCAGGTGGGCCTGGTGGTGGGTTCTTTTACCCTTGTGATGGTTCTCCAACAAAAAATTGC
 GCAAGAAACCTCCAGTGGTGTCTGCCAAGGACTTCCACATTAGTCTTTTCCGCTGCAGCCCTGGCT
 GAGGCAGCACCTGGATGGTGTCTGGACTTTCTGCCACTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210516 representing NM_013484
 Red=Cloning site Green=Tags(s)

MAPLLALFYLLQLGPGLAALFCNQVNIITGGNFTLSHGWPAGSLLIYSCPLGRYPSPAWRKCQSNQWLT
 PRSSSHHTLRSSRMVKAVCKPVRCLAPSSFENGIYFPRLVSYVGSNVSFCEQDFTLRGSVRYCRPNG
 LWDGETAVCDNGASHCPNPGISVGTARTGLNFDLGDVKVRYRCSNMVL TGAERECQSNVWSGSEPIC
 RQPYSDFPEDVASALDTSLTNLLGATNPTQNLTKSLGRKIIIQRSGLNLYLLLDASQSVTEKDFDIF
 KKSaelMVERIFSFevNVsvaiITfASQPKTImSILSERsQDVTEVITSLDSASyKDHENATGTNTYEVL
 IRVYSMMQsQMDRLGMETSAWKEIRHTIILLTDGKSNMGDspKkAVTRIRELLSIEQNRDDYLDIYAIGV
 GKLDVDWKELNELGSKKdGERHAFILQDAKALQQIFEHMLDVSKLTDITCGVGNMSANASDQERTPWQVT
 FKPKSKETCQGSLSIDQWVLTAAHCFHDIQMEDHHLWRVNVGDPTSQHGKEFLVEDVIIAPGFNVHAKRK
 QGISEFYADDIALLLSRKVKMSTHARPICLPCTVGANMALRRSPGSTCKDHETELLsQQKVPahFVALN
 GNRLNINLRTGPewTRCIQAVSQNKNIFFSLTNVSEVVDQFLCSGMEEEDNPCKGESGGAVFLGRRYR
 FFQVGLVSWGLFDPCHGSSNKnlRKKPPRGVLPDFHISLFRlQPWLRQHLDGVLDFLPL

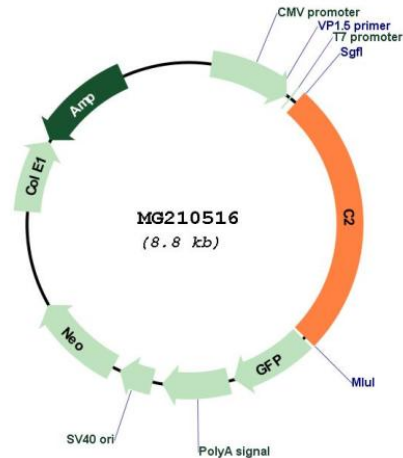
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_013484

ORF Size: 2280 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_013484.2](#)

RefSeq Size: 2587 bp

RefSeq ORF: 2283 bp

Locus ID: 12263

UniProt ID: [P21180](#)

Cytogenetics: 17 18.41 cM

Gene Summary: This gene encodes component C2 of the classical pathway of the complement system. The encoded protein undergoes proteolytic processing mediated by component C1 resulting in C2a and C2b fragments. C2a fragment, in turn, selectively cleaves components C3 and C5 of the complement system. Mice lacking the encoded protein are found to be more susceptible to bacterial infections. Mutations in the human homolog of this gene are associated with disorders such as systemic lupus erythematosus, Henoch-Schonlein purpura, or polymyositis. [provided by RefSeq, Mar 2015]