

Product datasheet for **MR210516**

C2 (NM_013484) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C2 (NM_013484) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR210516 representing NM_013484.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGCCCTCTGCTGGCTCTTCTACCTGCTGCAGCTGGGCCAGGCCCTGGCTGCTCTTCTGCAAC
CAGAATGTCAATATCACCGGTGGAATTTACCCCTCAGCCATGGCTGGGCCCTGGGAGCCTCCTCATC
TACTCTGCCCCCTGGGCAGGTACCCGTCCCAGCCTGGAGGAAATGTCAGAGCAACGGACAGTGGCTG
ACACCAAGGTCTAGCTCACATCACACCCTGCGATCCTCTCGGATGGTTAAAGCAGTCTGCAAACCGTT
CGATGCCTAGCTCCTTCATCCTTTGAAAATGGCATCTATTTCCCTCGGCTGGTGTCTACCTGTGGGT
AGCAACGTGAGCTTTGAGTGTGAGCAAGACTTCACCTTGGGGGCTCACCTGTGCGGACTGTGCCCCC
AACGGCCTGTGGGATGGAGAGACGGCTGTGTGACAATGGGGCTAGCCACTGCCCAACCTGGCATT
TCAGTGGGCACAGCTCGGACAGGCTTGAACCTTGGACCTGGGGACAAGGTGAGTACCGTCTCTCTCC
TCAAATATGGTATTGACTGGCTCTGCAGAGCGGGAGTGTGAGAGCAATGGAGTGTGGAGTGGGTGCGAA
CCCATTTGCCGACAGCCTTACTTTACGACTTCCCTGAGGATGTAGCATCTGCCCTAGACACCTCCCTC
ACCAACCTGCTTGGAGCCACCAATCCCACCCAGAACCTTCTGACAAAAAGTTGGGCCGTAAAGATCATA
ATCCAGCGCTCGGGTCACTGAACCTCTATTTGCTGCTTGTGCTTCTCAGAGTGTGACAGAAAAAGAC
TTTGACATCTTCAAGAAGAGTGGCAACTCATGGTGGAGAGGATCTTCAGCTTTGAGGTAATGTGAGC
GTAGCTATCATCACATTTGCCTCTCAGCCAAAACCATCATGTGATCCTGAGTGTGAGAGATCCCAGGAT
GTGACGGAGGTGATCACCACTCTGGACTCTGCCAGCTACAAGATCACGAAAATGCCACTGGCACTAAC
ACTTATGAGGTTCTCATCCGCTTTACTCCATGATGCAAAGCCAGATGGATCGCTGGGCATGGAGACC
TCTGCCTGGAAGGAAATCCGTACACCATCATCCTTCTGACTGACGAAAAGTCCAACATGGGTGACTCT
CCCAAGAAAGCAGTACCAGAATCAGAGAGCTCCTGAGCATCGAACAGAACAGAGATGACTACCTGGAC
ATCTATGCTATTGGGGTGGGCAAGCTGGATGTGGACTGGAAAGAACTGAATGAGCTGGGTTCCAAGAAG
GATGGCGAGAGGCATGCCTTCATCTTGCAGGATGCAAAGCCTTGCAACAGATCTTTGAGCACATGTTG
GATGTCTCTAAGCTCACAGATACCATCTGTGGGGTGGGGAACATGTCCGCAATGCCTCTGACCAGGAG
AGGACACCTTGGCAAGTCACTTTAAGCCCAAGAGCAAGGAACTTGCCAGGGATCACTCATCTCTGAT
CAGTGGGTGCTGACAGCAGCTCACTGCTCCATGACATTCAGATGGAGGACCACCACCTGTGGAGGGTC
AATGTAGGTGATCCCACCTCTCAGCATGGCAAAGAATTTCTTGTGGAGGACGTGATAATTGCCCCAGGG
TTAATGTCCATGCAAAGCGGAAGCAGGGCATCTCAGAGTTCTATGCTGATGACATTGCCTTGTGAAG
CTATCTCGAAAGTGAAAATGTCCACCCATGCCAGACCCATCTGCCTTCTTGCCTGTGGGAGCCAAC
ATGGCTCTGCGGAGATCCCAGGTAGTACCTGTAAAGATCATGAGACAGAACTTCTGTACAGCAGAAA
GTTCTGCACATTTTGTAGCTTTGAATGGGAACAGACTCAACATCAACCTCAGGACAGGACTGAGTGG
ACAAGGTGATCCAGGCTGTCTCCAAAACAAAAACATCTTCCCCAGCTTGACAAACGTTAGCGAGGTG
GTGACAGACCAGTTCTATGAGTGGGATGGAGGAGGAAGATGACAATCCTTGCAAAGGAGAATCTGGG
GGAGCCGTTTTCTTGGACGGAGATACAGGTTCTTCCAGGTGGGCTGGTGTGAGTTGGGGTCTTTTGAC
CCTTGTATGTTCTTCCCAACAAAAACTTGGCGAAGAACTCCACGTGGTGTCTGCCAAGGGACTTC
CACATTAGTCTTTCCGCTGCAGCCCTGGCTGAGGCAGCACCTGGATGGTGTCTGGACTTTCTGCCA
CTT
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

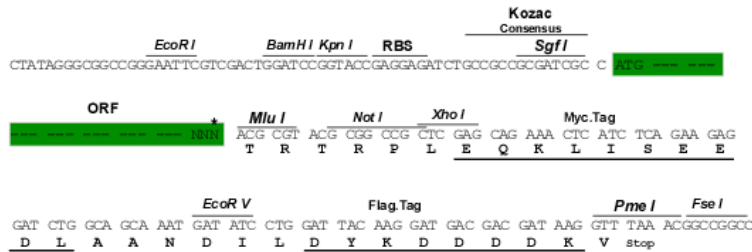
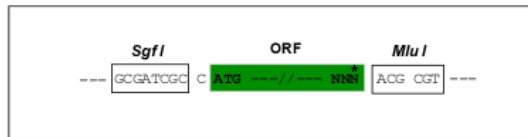
Protein Sequence: >Peptide sequence encoded by MR210516
 Blue=ORF Red=Cloning site Green=Tag(s)

MAPLLALFYLLQLGPGLAALFCNQNVNITGGNFTLSHGWPAGSLLIYSCPLGRYPSPAWRKCQSNQQWL
 TPRSSSHHTLRSSRMVKAVCKPVRCLAPSSFENGIYFRLVSYPVGSNVSECEQDFTLRGSPVRYCRP
 NGLWDGETAVCDNGASHCPNPGISVGTARTGLNFDLGKVRVYRCSSSNMVLTGSARECQSNQVWSGSE
 PICRQPYSYDFPEDVASALDTSLNLLGATNPTQNLTKSLGRKIIQRSGLNLYLLLDASQSVTEKD
 FDIFKKSaelmverifsfEvnvsvaiITFASQPKTIMSILSERSQDVTEVITSLDSASYKDHENATGTN
 TYEVLIRVYSMMQSQMDRLGMETSawkeIRHTIILLTDGKSNMGDSPKAVTRIRELLSIEQNRDDYLD
 IYAIGVGKLDVDWKELNELGSKKdGERHAFILQDAKALQQIFEHMLDVSKLTDTICGVGNMSANASDQE
 RTPWQVTFKPKSKETCQGLISDQWVLTAAHCFHDIQMEDHHLWRVNVGDPTSQHGKEFLVEDVIAIPG
 FNVHAKRKQGISefyADDIALLKSRVKMSTHARPICLPCTVGANMALRRSPGStCKDHETELLSQQK
 VPAHFVALNGNRLNINLRTGPEWTRCIQAVSQNKNI FPSLTNVSEVVTdqFLCSGMEEEDNPCKGESG
 GAVFLGRRYRFQVGLVSWGLFDPCHGSSNKLRKKPPRGVLPDFHISLFRQLPWLQHLdGVLDLFLP
 L
 TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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 Size: 2644 bp

RefSeq ORF: 2283 bp

Locus ID: 12263

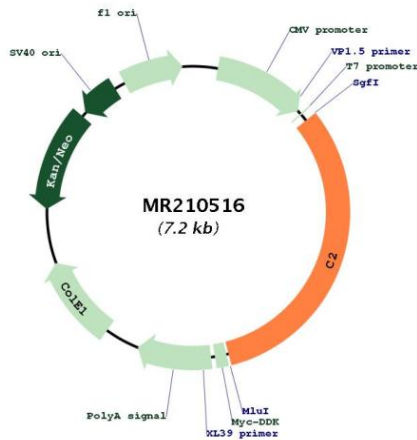
UniProt ID: [P21180](#)

Cytogenetics: 17 18.41 cM

MW: 84.7 kDa

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]

Product images:



Circular map for MR210516