

Product datasheet for **MR225506**

C1qa (NM_007572) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C1qa (NM_007572) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C1qa
Synonyms:	A1255395; C1q
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225506 representing NM_007572 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGAGACCTCTCAGGGATGGCTGGTGGCCTGTGTGCTGACCATGACCCTAGTATGGACAGTGGCTGAAG
ATGTCTGCCGAGCACCAACGGGAAGGATGGGGCTCCAGGAAATCCTGGCCGCCCGGGAGGCCGGGTCT
CAAAGGAGAGAGAGGGGAGCCAGGAGCTGCTGGCATCCGGACTGGTATCCGAGGTTTTAAAGGAGACCA
GGGAATCTGGCCCCCTGGCAAACCTGGCAATGTGGGGCTCCAGGTCCAGTGGTCCCCTGGGGACA
GCGGCCCAAGGACTGAAGGGCGTAAAGGCAATCCAGGCAATATCAGGGACCAGCCCCGCCAGCTTT
CTCAGCCATTCGGCAGAACCAATGACGCTTGGCAACGTGTTATCTTTGACAAGGTCTCACCAACCAG
GAGAGTCCATACCAGAACCACACGGGTCGTTTCATCTGTGCAAGTCCCGGCTTCTATTACTTCAACTTCC
AAGTGATCTCCAAGTGGGACCTTTGTCTGTTTATCAAGTCTTCTCCGGGGGCCAGCCAGGGATTCCCT
GAGTTTCTCTAACACCAACAACAAGGGCTCTTTCAGGTGTTAGCAGGGGGCACCCTGCTTCAGTGCGA
CGAGGGGACGAGGTGTGGATCGAAAAGGACCCGCAAAGGGTCCGATTTACCAGGGCACTGAAGCCGACA
GCATCTCAGCGGATTCTCATTTCCTCCCTCGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR225506 representing NM_007572
 Red=Cloning site Green=Tags(s)

METSQGWLVACVLTMTLVVTVAEDVCRAPNGKDGAPGNPGRPRPGLKGERGEPGAAGIRTGIRGFKGDP
 GESGPPGKPGNVGLPGSPGLGDSGPQGLKGVKGNPNIIRDQPRPAFSAIRQNPTLGNVVFIDKVLTNQ
 ESPYQNHTRGFICAVPGFYFNFQVISKWDLCLFIKSSSSGGQPRDSLFSNTNNKGLFQVLGGTVLQLR
 RGDEVWIEKDKPAKGRIYQGTEADSIKSGFLIFPSA

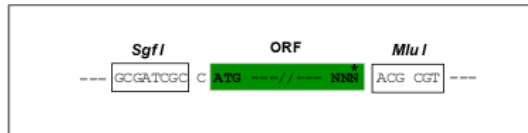
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9007_h06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_007572

ORF Size: 735 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_007572.2](#), [NP_031598.2](#)

RefSeq Size: 1082 bp

RefSeq ORF: 738 bp

Locus ID: 12259

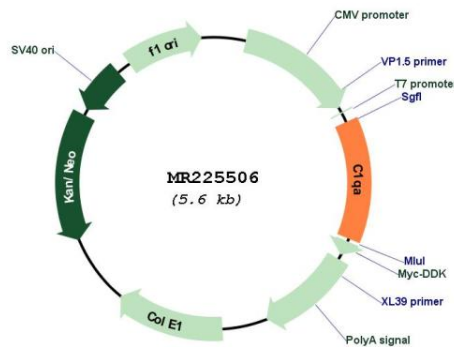
UniProt ID: [P98086](#)

Cytogenetics: 4 69.05 cM

MW: 26.4 kDa

Gene Summary: C1q associates with the proenzymes C1r and C1s to yield C1, the first component of the serum complement system. The collagen-like regions of C1q interact with the Ca(2+)-dependent C1r(2)C1s(2) proenzyme complex, and efficient activation of C1 takes place on interaction of the globular heads of C1q with the Fc regions of IgG or IgM antibody present in immune complexes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225506