

Product datasheet for **RR205235**

C1qa (NM_001008515) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: C1qa (NM_001008515) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: C1qa
Synonyms: MGC105755
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR205235 representing NM_001008515
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGACCTCTCAGGGATGGCTGGTGGCTTGTGTGCTGGCCGTGACCCTGGTATGGACAGTGGCTGAAG
ATGTCTGCAGAGCACCAACGGGAAGGACGGGGTTCAGGAATTCCTGGCCGCCAGGGAGGCCGGTCT
CAAAGGAGAGAGAGGGGAGCCAGGAGCTGCCGGCATCCGGACCGGTATCCGAGGTCTTAAAGGAGACATG
GGGAATCTGGGCCCTGGCAAACCCGCAATGTGGGGTTCAGGGCCCACTGGGCCCTGGGAACA
GCGGCCCAAGGGTTGAAAGGTGTGAAAGGCAATCCGGCAATATCAGGACCAGCCCCGGCCAGCTTT
CTCAGCTATTCGGCAGAACCACCGACGTATGGCAACGTGGTGTCTTTGACAAGGTCTCACCAACCAG
GAGAATCCATACCAGAACCACAGGTCCTTCTGTGCGGTGCCCGTTTCTATTACTTCACCTTCC
AAGTGATCTCAAGTGGGACCTTTGTCTGTCTATCGTGTCTCTCCCGGGGCCAGCCAGGAATTCCT
TGGTTTCTGTGACCAACAGCAAGGGGCTCTCCAGGTGTAGCAGGGGCACTGTGCTCAATTGCAA
CGAGGGGACGAGGTGTGATTGAGAAGGACCCAGCAAAGGGCCGATTTACCAGGGTACTGAAGCCGACA
GCATCTCAGTGGATTCTCATTTCCTCGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RR205235 representing NM_001008515
 Red=Cloning site Green=Tags(s)

METSQGWLVACVLAVTLVWTVAEDVCRAPNGKDG VAGIPGRPGRPLKGERGEPGAAGIRTGIRGLKGD
 GESGPPGKPGNVGFPPTGPLGNSGPQGLKGVKGNPNI RDQPRPAFSAIRQNPPTYGNVVVFDKVL TNQ
 ENPYQNRTHGFI CAVPGFYFFTFQVISKWDLCLSI VSSSRGQPRNSLGFCDTNSKGLFQVL AGGTVLQLQ
 RGDEVWIEKDPAKGRIYQGT EADSI FSGFLIFPSA

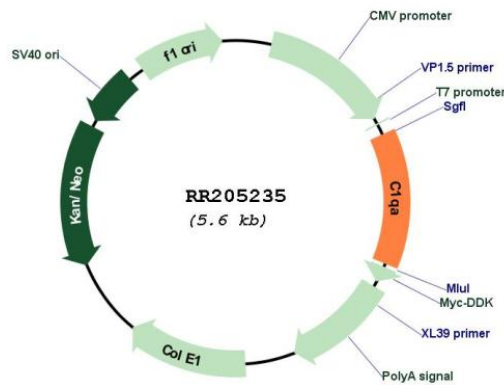
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001008515
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:	<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_001008515.1 , NP_001008515.1
RefSeq Size:	1025 bp
RefSeq ORF:	738 bp
Locus ID:	298566
UniProt ID:	P31720
Cytogenetics:	5q36
MW:	25.9 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]