

## Product datasheet for **MG210085**

### C1s (BC018319) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	C1s (BC018319) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C1s
Synonyms:	MGC37773, C1sa
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>MG210085 representing BC018319  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGGCAATCGCCAGGGATGTGGTGTGGTCTCTTTCTCTTTGGCATCATTTTCTGCTGAGCCCA  
CCATGCATGGGGAGATCCTGTCCCTAACTATCCCAGGCGTACCCCAATGACGTCGTGAAATCTTGGGA  
CATTGAAGTCCCAGAGGGGTTTGGGATTCACTTACTTTACCCATGTGGACATAGAGCCGTCAGAGAGC  
TGTGCATACGACTCAGTGCAGATAATCTCAGGAGGCATCGAGGAAGGGAGACTCTGTGGCCAGAAGACCA  
GCAAGAGCCCAACTCCCCATTATAGAAGAGTTTCAGTTCACATAACAATAAACTTCAGGTGGTCTTTAC  
CTCAGACTTCTCCAACGAAGAACGGTTTACGGGCTTTCAGCATACTACACTGCCATAGACATAAATGAA  
TGCACAGATTTTACAGATGTCCCTGTAGCCACTTCTGCAATAACTTCATTGGTGGATCTTCTGCTCCT  
GTCCCCAGAATACTTCTCCACGATGACATGAGGAATTGTGGAGTCACTGTAGTGGAGATGTGTTTAC  
TGCCCTGATTGGGGAGATCTCAAGTCCCAATTATCCCAATCCATACCCGAGAACTCAAGGTGTGAATAC  
CAGATTCAGCTGCAGGAGGGCTTCCAAGTGGTGGTGCAGATGCAAAGAGAAGATTTTGATGTGGAGCCTG  
CTGACTCAGAGGGGAACTGCCCTGACAGTTAACTTTTGCTTCAAAAAACCAACAGTTTGGTCTTACTG  
TGGTAATGGGTTCCCTGGACCGCTAACTATTAGAACCAGAGCAATACTCTCGGCATTGTCTTTCAA  
GACCTAATGGGGCAAAAGAAGGGTTGGAAGCTTCGTTACCATGGAGATCCCATCTCCTGTGCCAAAA  
TCACTGCCAATTTACTTGGGAGCCCGATAAGGCAAAATACGTGTTTAAAGATGTGGTGAAGATAACCTG  
TGTGGACGGATTTGAAGTTGTGGAGGGACATGTAGCTTACTTCATACTATTCCACTTGTCAAAGCGAT  
GGACAGTGGAGCAACTCCGGTCTAAAATGTCAACTGTGTATTGTGGAATTCCAGATCCCATTGCGAATG  
GTAAAGTTGAAGAGCCAGAGAATAGTGTGTTGGTACTGTTGTTCACTACACGTGTGAAGAGCCATATTA  
CTACATGGAACATGAAGAAGGTGGGGAGTATCGATGTGCTGCAAATGGGAGATGGGTAAATGACCAGCTG  
GGTATTGAGCTTCCAAGATGTATTCCAGCCTGTGGAGTACCCACCGAGCCCTTCAAGTGCATCAGAGGA  
TATTTGGAGGACAACCTGCAAAGATTGAAAATTTCCCTGGCAAGTCTTCTTTAATCACCCAGAGCTAG  
TGGGGCTCTTATTAATGAGTACTGGGTGCTGACGGCTGCTCACGTTTTGGAGAAAATCTCCGACCTTTA  
ATGTATGTCGGGACCATGTCTGTGAGGACAACCTCTTGGAAAATGCCAGAGACTCTACAGTAAACGTG  
TCTTTATTCATCCAGCTGGAAGAAAGAAGATGACCCAAACACACGGACAAATTTGACAATGACATTGC  
CCTGGTGCAGCTGAAAGACCCTGTGAAAATGGGACCCAAAGTCTCCCCATCTGCCTACCAGGCACCTCC  
TCAGAGTACAACGTCTCACCGGGTGCATGGGGCTGATCTCAGGGTGGGGCAGTACAGAAAAGAAAGTCT  
TTGTTATCAACCTCAGAGGGGCAAAGGTACCAGTAACCTTTTAGAAACCTGCAAACAGGTGAAAGAGGA  
GAACCCCACTGTAAAGCCTGAGGACTATGTTTTCACTGACAACATGATCTGTGCTGGCGAGAAAAGGTGT  
GACAGCTGTACGGGGACAGCGGGGGGCTTTTGTCTTCCAGGTCCCAATGTACAGGTCCCCAAATTTCT  
ATGTAGCTGGCTTGGTGTCTTGGGGAAAAGGTGTGGGACTTATGGGGTTTACACAAGGTAAAGAATTA  
CGTGGACTGGATCCTGAAAATATGCAGGAGAATAGTGGGCCAGGAAGGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210085 representing BC018319  
 Red=Cloning site Green=Tags(s)

MGKSPGMWCLVLFSLASFSAEPTMHGEILSPNYPQAYPNDDVVKSWDIEVPEGFGIHLVFTHVDIEPSES  
 CAYDSVQIISGGIEEGRLCGQKTSKSPNSPIIEEFQFPYNKLQVVFSTDFE SNEERFTGFAAYTAIDINE  
 CTDFTDVPCSHFCNNFIGGYFCSCPPEYFLHDDMRNCGVNCSDVFTALIGEISSPNYPNPYPENSRC EY  
 QIQLQEGFQVVVVMQREDFDVEPADSEGNCPSLTFASKNQFGPYCGNGFPGPLTIRTQSNTLGI VFT  
 DLMGQKKGWKLRYHGDPISCAKKITANSTWEPDKAKYVFKDVKITCVDGFEVVEGHVSSTSYYSTCQSD  
 GQWSNSGLKCKQPVYCGIPDPIANGKVEEPENSVFGTVVHYTCEEPYMYMEHEEGEYRCAANGRWVNDQL  
 GIELPRCIPACGVPTPEFQVHQRIFFGGQPAKIENFPWQVFFNHPRASGALINEYWVLTAAHVLEKISDPL  
 MYVGTMSVRTTLLENAQRLYSKRVIHPSWKKEDDPNTRTNFDNDIALVQLKDPVKMGPKVSPICLPGTS  
 SEYNVSPGDMGLISGWGSTEKKVFVINLRGAKVPVTSLETCKQVKEENPTVRPEDYVFTDNMICAGEKGV  
 DSCHGDSGGAFQVQPNVTPKFFVYAGLVSWGKRCGTGYVYTKVKNYVDWILKTMQENS GPRKD

TRTRPLE - GFP Tag - V

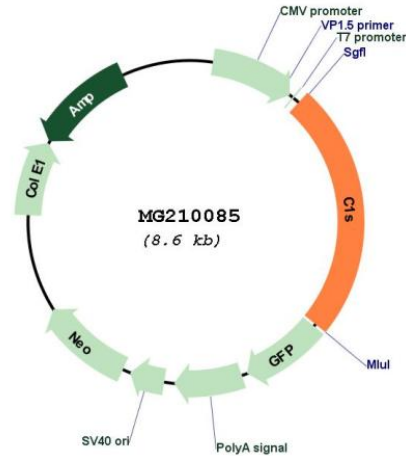
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



## Plasmid Map:



ACCN: BC018319

ORF Size: 2082 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: [BC018319.1](#)

RefSeq Size: 2855 bp

RefSeq ORF: 2084 bp

Locus ID: 50908

Cytogenetics: 6 F2

**Gene Summary:** C1s B chain is a serine protease that combines with C1q and C1r to form C1, the first component of the classical pathway of the complement system. C1r activates C1s so that it can, in turn, activate C2 and C4 (By similarity).[UniProtKB/Swiss-Prot Function]