

## Product datasheet for **MG208108**

### Serping1 (NM\_009776) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Serping1 (NM_009776) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Serping1
Synonyms:	C1INH; C1nh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208108 representing NM\_009776  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCCTCCAGGCTGACCCCACTGACCCTCTGCTGCTGCTGCTGGCTGGGGATAGAGCCTTCTCAGATC  
 CCGAAGCTACCAGCCACAGCACCCAGGATCCACTGGAGGCTCAAGCGAAAAGCAGAGAGAGCTTCCCTGA  
 AAGAGATGACTCCTGGAGTCCCCAGAGCCTACAGTACTGCCCTTACCTGGCCAACAACCAAGTGTAGCC  
 ATCACAATAACAAATGACACCATGGGTAAGTAGCCAACGAGTCTTCCAGCCAGCACAGCCAGCCAGCTG  
 CTCAGCTACCCACAGATTCTCCAGGACAGCCCCCTCTGAATTCTTCCAGCCAGCCCTCCACTGCCTCAGA  
 TCTTCCCACCCAGGCTACTACTGAACCCTTCTGCCCGGAGCCGCTTGCTCAGTGTCTGATTAGACAGA  
 GACTCCTCAGAGGCAAAGCTCTCAGAGGCTTTGACAGATTTCTGTGAAGCTCTACCACGCCTTCTCAG  
 CTACCAAGATGGTAAGACCAACATGGCCTTTTCCCATTGAGCATTGCCAGCCTCTCACACAGGTTCT  
 TCTTGGGGCTGGAGACAGCACCAAGAGCAACTGGAGAGCATCCTTCCCTACCCAAGGATTTTGCCTGT  
 GTCACCAAGCACTAAAGGGCTTTTCATCCAAAGGTGTCACCTTCTGTGTCTCAGATTTTCCACAGCCAG  
 ATCTGGCCATAAGGGACACCTATGTGAATGCATCTCAGAGCCTGTATGGAAGCAGCCCAGAGTCCCTGGG  
 CCCAGACAGTGTCTAACTTAGAACTCATCAACACCTGGGTGGCTGAGAACACCAACCATAAAGTCCGC  
 AAGCTGTGGACAGCCTGCCTTCTGACACCTGCCTCGCTTCTCAATGTGTCTACTTGAGTGCCAAGT  
 GGAAGATAACATTTGAACAAAAAAGATGATGGCGCCTTCTTCTACAAAACTCTATGATTAAGTGCC  
 CATGATGAGTAGCGTAAAGTACCCTGTGGCCCAATTCGATGACCACTTTGAAGCCAAGTGGGACAG  
 CTGCAGCTCTCTACAACCTGAGCTTTGTATCGTGGTACCCGTGTTCCCAAAGCACCAACTTAAAGATG  
 TAGAAAAGGCTCTCAACCCCACTGTCTTCAAGGCCATCATGAAGAAGCTGGAGCTGCCAAATTCCTGCC  
 CACTTACCTGACGATGCCTCATATAAAAGTAAAGAGCAGCCAAGACATGCTGTGATCATGGAGAAACTG  
 GAATTCCTTGACTTCACTTACGATCTCAACCTGTGCGGGCTGACCGAGGCCAGATCTTCAAGTGTCTG  
 CCATGAAACACGAGACAGTGTGGAACGACAGAGTCAAGGGTGGAAAGCAGCTGCAGCCTCTGCCATCTC  
 CTTTGGCCGAAGCTTACCCATCTTTGAGGTGCAGCGACCTTCTCTTCTGCTCTGGGACCAGCAACAC  
 AGGTTCCAGTCTTATGGGTCGTATATGACCCAGGGGT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG208108 representing NM\_009776  
 Red=Cloning site Green=Tags(s)

MASRLTPLLLLLLLAGDRAFSDFEATSHSTQDPLEAQAKSRESFPERDDSWSPPEPTVLPSTWPTTSVA  
 ITITNDTMGKVANESFSQHSQPAALPTDSPGQPPLNSSSQPSTASDLPTQATTEPFCPEPLAQCSDSDR  
 DSSEAKLSEALTDFSVKLYHAFSATKMAKTMAFSPFSIASLLTQVLLGAGDSTKSNLESILSYPKDFAC  
 VHQALKGFSSKGVTSVSQIFHSPDLAIRDTYVNASQSLYGSSPRVLGPDSAANLELINTWVAENTNHKIR  
 KLLDSLPSDTCLVLLNAVYLSAKWKITFEPKMMAPFFYKNSMIKVPMMSSVKYPVAQFDHDLKAKVQG  
 LQLSHNLSFVIVVPVFPKHQLKDVEKALNPTVFKAIMKLELSKFLPTYLTMPHIKVKSSQDMLSVMEKL  
 EFFDFTYDLNLCGLTEDPDLQVSAMKHETVLEL TESHGVEAAAASAI SFGRSLPIFEVQRPFLLWDQQH  
 RFPVFMGRVYDPRG

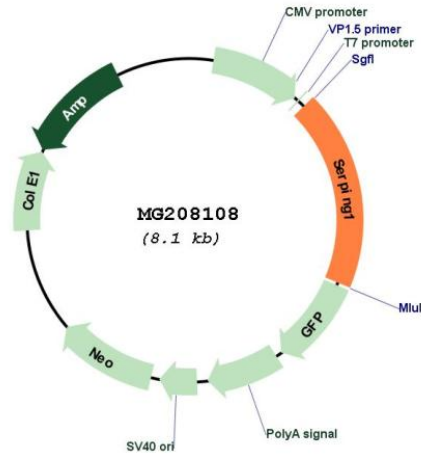
**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul



Plasmid Map:



ACCN: NM\_009776

ORF Size: 1512 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\\_009776.3](#), [NP\\_033906.2](#)

**RefSeq Size:** 1775 bp

**RefSeq ORF:** 1515 bp

**Locus ID:** 12258

**UniProt ID:** [P97290](#)

**Cytogenetics:** 2 D

**Gene Summary:** Activation of the C1 complex is under control of the C1-inhibitor. It forms a proteolytically inactive stoichiometric complex with the C1r or C1s proteases. May play a potentially crucial role in regulating important physiological pathways including complement activation, blood coagulation, fibrinolysis and the generation of kinins. Very efficient inhibitor of FXIIa. May inhibit chymotrypsin and kallikrein.[UniProtKB/Swiss-Prot Function]