

## Product datasheet for **RG223112**

### **SERPING1 (NM\_001032295) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SERPING1 (NM_001032295) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SERPING1
Synonyms:	C1IN; C1INH; C1NH; HAE1; HAE2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG223112 representing NM\_001032295  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGCCTCCAGGCTGACCCTGCTGACCCTCCTGCTGCTGCTGCTGGCTGGGGATAGAGCCTCCTCAAATC  
 CAAATGCTACCAGCTCCAGCTCCAGGATCCAGAGAGTTTGAAGACAGAGGCGAAGGGAAGGTCGCAAC  
 AACAGTTATCTCCAAGATGCTATTTCGTTGAACCCATCCTGGAGGTTTCCAGCTTGCCGACAACCAACTCA  
 ACAACCAATTCAGCCACCAAAATAACAGCTAATACCACTGATGAACCCACCACACAACCCACCACAGAGC  
 CCACCACCAACCCACCATCCAACCCACCAACCAACTACCCAGCTCCCAACAGATTCTCTACCCAGCC  
 CACTACTGGGTCCTTCTGCCCAGGACCTGTTACTCTCTGCTGCTGACTTGGAGAGTCATTCAACAGAGGCC  
 GTGTTGGGGGATGCTTTGGTAGATTTTCCTGAAGCTTACCACGCCTTCTCAGCAATGAAGAAGGTGG  
 AGACCAACATGGCCTTTCCCATTCAGCATCGCCAGCCTCCTTACCCAGGTCCTGCTCGGGGCTGGGA  
 GAACACCAAAACAAACCTGGAGAGCATCCTCTCTTACCCCAAGGACTTACCTGTGTCCACCAGGCCCTG  
 AAGGGCTTCACGACCAAAAGGTGTACCTCAGTCTCTCAGATCTTCCACAGCCAGACCTGGCCATAGGG  
 ACACCTTTGTGAATGCCTCTCGGACCCTGTACAGCAGCAGCCCAAGAGTCTAAGCAACAACAGTGACGC  
 CAACTTGGAGCTCATCAACACCTGGGTGGCCAAGAACAACAACAAGATCAGCCGGCTGCTAGACAGT  
 CTGCCCTCCGATACCCGCCTTGTCTCCTCAATGCTATCTACCTGAGTGGCAAGTGAAGACAACATTTG  
 ATCCCAAGAAAACCGAATGGAACCTTCACTTCAAAAACCTCAGTTATAAAAGTGCCCATGATGAATAG  
 CAAGAAGTACCCTGTGGCCATTTCACTGACCAAACTTGAAGCCAAGTGGGGCAGCTGCAGCTCTCC  
 CACAATCTGAGTTTGGTATCCTGGTACCCAGAACCTGAAACATCGTCTTGAAGACATGGAACAGGCTC  
 TCAGCCCTTCTGTTTTCAAGGCCATCATGGAGAACTGGAGATGTCCAAGTCCAGCCACTCTCCTAAC  
 ACTACCCCGCATCAAAGTGACGACAGCCAGGATATGCTCTCAATCATGGAGAAAATTGGAATTCCTCGAT  
 TTTTCTTATGACCTTAACCTGTGTGGGCTGACAGAGGACCAGATCTTACGGTTTCTGCGATGCAGCACC  
 AGACAGTGTGGAAGTGCAGAGACTGGGGTGGAGGCGGCTGCAGCCTCCGCCATCTCTGTGGCCCGCAC  
 CCTGCTGGTCTTTGAAGTGCAGCAGCCCTTCTCTTATGCTCTGGGACCAGCAGACAAGTTCCCTGTC  
 TTCATGGGGCGAGTATATGACCCAGGGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG223112 representing NM\_001032295  
 Red=Cloning site Green=Tags(s)

MASRLTLLTLLLLLAGDRASSNPATSSSSQDPESLQDRGEGKVATTVISKMLFVEPILEVSSLPTTNS  
 TTNSATKITANTTDEPTTQPTTEPTTQPTIQPTQPTTQLPTDSPTQPTTGSFCGPGVTLCSDLSEHSTEA  
 VLGDALVDFSLKLYHAFSAMKKVETNMAFSPFSIASLLTQVLLGAGENTKTNLESILSYPKDFTCVHQAL  
 KGFTTKGVTSVSQIFHSPDLAIRDTFVNASRTLYSSSPRVLSNNSDANLELINTWVAKNTNKNISRLDLS  
 LPSDTRLVLLNAIYL SAKWKTTDFPKKTRMEPFHFNKSVIKVPMNSKYPVAHFIDQTLKAKVQQLQS  
 HNL SLVILVLPQNLKHRLEDMEQALSPSVFKAIMEKLEMSKFQPTLLTLPRIKVTTSDMLSIMKLEFFD  
 FSYDLNLCGLTEDPDLQVSAMQHQTVLELTETGVEAAAAAISVARTLLVFEVQQPFLFMLWDQQHKFPV  
 FMGRVYDPRA

TRTRPLE – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001032295

**ORF Size:** 1500 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\\_001032295.1](#), [NP\\_001027466.1](#)

**RefSeq Size:** 1832 bp

**RefSeq ORF:** 1503 bp

**Locus ID:** 710

**UniProt ID:** [P05155](#)

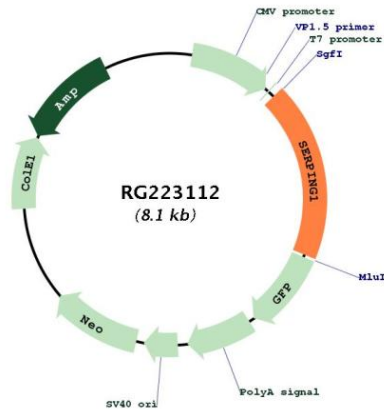
**Cytogenetics:** 11q12.1

**Protein Families:** Druggable Genome, Secreted Protein

**Protein Pathways:** Complement and coagulation cascades

**Gene Summary:** This gene encodes a highly glycosylated plasma protein involved in the regulation of the complement cascade. Its encoded protein, C1 inhibitor, inhibits activated C1r and C1s of the first complement component and thus regulates complement activation. It is synthesized in the liver, and its deficiency is associated with hereditary angioneurotic oedema (HANE). Alternative splicing results in multiple transcript variants encoding the same isoform. [provided by RefSeq, May 2020]

**Product images:**



Circular map for RG223112