

Product datasheet for **SC115553**

SERPING1 (NM_000062) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SERPING1 (NM_000062) Human Untagged Clone
Tag:	Tag Free
Symbol:	SERPING1
Synonyms:	C1IN; C1INH; C1NH; HAE1; HAE2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000062, the custom clone sequence may differ by one or more nucleotides

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ATGGCCTCCAGGCTGACCCTGCTGACCCTCCTGCTGCTGCTGCTGGCTGGGGATAGAGCCTCCTCAAATC  
CAAATGCTACCAGCTCCAGCTCCAGGATCCAGAGAGTTTGAAGACAGAGGCGAAGGGAAGGTCGCAAC  
AACAGTTATCTCCAAGATGCTATTCTGTTGAACCCATCCTGGAGGTTTCCAGCTTGCCGACAACCAACTCA  
ACAACCAATTGAGCCACCAAAATACAGCTAATACCACTGATGAACCCACCACACAACCCACCACAGAGC  
CCACCACCAACCCACCATCCAACCCACCAACCAACTACCCAGCTCCCAACAGATTCTCCTACCCAGCC  
CACTACTGGGTCCTTCTGCCCAGGACCTGTTACTCTCTGCTCTGACTTGGAGAGTCATTCAACAGAGGCC  
GTGTTGGGGGATGCTTTGGTAGATTTCTCCCTGAAGCTCTACCAGCCTTCTCAGCAATGAAGAAGGTGG  
AGACCAACATGGCCTTTTCCCATTCAGCATCGCCAGCCTCCTTACCCAGGTCCTGCTCGGGGCTGGGGA  
GAACACCAAAAACAACTGGAGAGCATCCTCTCTTACCCCAAGGACTTACCTGTGTCCACCAGGCCCTG  
AAGGGCTTCACGACCAAAAGGTGTACCTCAGTCTCTCAGATCTTCCACAGCCCAGACCTGGCCATAAGGG  
ACACCTTTGTGAATGCCTCTCGGACCCTGTACAGCAGCAGCCCCAGAGTCCTAAGCAACAACAGTGACGC  
CAACTTGGAGCTCATCAACACCTGGGTGGCCAAGAACAACAACAAGATCAGCCGGCTGCTAGACAGT  
CTGCCCTCCGATACCCGCCTTGTCTCCTCAATGCTATCTACCTGAGTGCCAAGTGAAGACAACATTTG  
ATCCCAAGAAAACCAGAATGGAACCCCTTCACTTCAAAAACCTCAGTTATAAAAGTGCCCATGATGAATAG  
CAAGAAGTACCCTGTGGCCATTTTCATTGACCAAACTTTGAAAGCCAAGTGGGGCAGCTGCAGCTCTCC  
CACAATCTGAGTTTGGTATCCTGGTACCCAGAACCTGAAACATCGTCTTGAAGACATGGAACAGGCTC  
TCAGCCCTTCTGTTTTCAAGGCCATCATGGAGAACTGGAGATGTCCAAGTTCAGCCCACTCTCTTAAC  
ACTACCCCGCATCAAAGTGACGACCAGCCAGGATATGCTCTCAATCATGGAGAAATTGGAATTTCTCGAT  
TTTTCTTATGACCTTAACCTGTGTGGGCTGACAGAGGACCCAGATCTTACAGTTTCTGCGATGCAGCACC  
AGACAGTGTGAACTGACAGAGACTGGGGTGGAGGCGGCTGCAGCCTCCGCCATCTCTGTGCCCGCAC  
CCTGCTGGTCTTTGAAGTGCAGCAGCCCTTCTCTTCTGCTCTGGGACCAGCAGACAAGTTCCTGTCT  
TTCATGGGGCAGTATATGACCCAGGGCTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000062 unedited
 TTCAGATTTGTATACGACTCCTATAGGGCGGCCGGAATTCGCACGAGGGGAGTCCGCTG
 ACGTCGCCGCCAGATGGCCTCCAGGCTGACCCTGCTGACCTCCTGCTGCTGCTGCTG
 CTGGGGATAGAGCCTCCTCAAATCCAAATGCTACCAGCTCCAGGATCCAGAGA
 GTTTGCAAGACAGAGGCGAAGGGAAGGTCGCAACAACAGTTATCTCCAAGATGCTATTCC
 TTGAACCCATCCTGGAGGTTTCCAGCTTGCCGACAACCAACTCAACAACCAATTCAGCCA
 CCAAAAATAACAGCTAATACCACTGATGAACCCACCACACAACCCACCACAGAGCCACCA
 CCCAACCCACCATCCAACCCACCAACCAACTACCCAGCTCCCAACAGATTCTCCTACCC
 AGCCCACTACTGGTCTTCTGCCAGGACCTGTTACTCTCTGCTGCTGACTTGGAGAGTC
 ATTC AACAGAGGCCGTGTTGGGGATGCTTTGGTAGATTCTCCCTGAAGCTCTACCACG
 CCTTCTCAGCAATGAAGAAGGTGGAGACCAACATGGCCTTTTCCCATTTCAGCATCGCCA
 GCCTCCTTACCCAGGCTCTGCTCGGGGCTGGGGAGAACACCAAAACAACTTGGAGAGCA
 TCCTCTTACCCCAAGGACTTCACCTGTGTCCACCAGGCCCTGAAGGGCTTTCAGACCA
 AAGGTGTACCTCAGTCTCTCAGATCTTCCACAGCCAGACCTGGCCATAAGGGACACCT
 TTGTGAATGCCTCTCGGACCCTGTACAGCAGCAGCCCCAGAGTCTAAAGCACAAACAGTG
 ACGCCAACCTTGGAGCTCATCACACCTGGGTGGCNCNAGACACCACNNACAGATCAGCCG
 GCTGCTAGACAGTCTGCCCTTCGATACCGNCTTGTNCTNCTCATGCTATCTACTGAGTGC
 CAGTGGAAAGACACATA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000062 unedited
 GACCGCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTGGTCTGTCAGGTTTT
 ATTTATAGAGTCTGGTGAACCTTGAAGTGAAGAAAGCTGCAAAAAGTGGTTTGGAGAGCAT
 GGCAGGGCCATGGAGAAGGGCTAATAGAAGCAGTCCCTTGCCAGACCCTCAGGGAGCC
 CTTTTGGTGGATAGCGGACACCTGAGGCAGGAGGTGGCAGGGGCCAAGTCCAGGCAGGCA
 GCAGCAGGGCTGCAACTGAGAGCTGAGGCTGGAGAGGTAGCGCTCGCCCTAACCTGATCC
 TGCAGGCTCTCAGGCCCTGGGGTCAATACTCGCCCATGAAGACAGGGAACCTTGTGCTGC
 TGGTCCCAGAGACGAAGAGGAAGGGCTGCTGCACTTCAAAGACCAGCAGGGTGCGGGCC
 ACAGAGATGGCGGAGGCTGCAGCCGCTCCACCCAGTCTCTGTGCTCAGTCCAGCACTGTC
 TGGTGTGTCATCGCAGAAACCTGAAGATCTGGGTCTCTGTGTCAGCCACCAGGTTAAGG
 TCATAAGACCACTCGAAGAATCCAATCTCTCCATGATTGAGACGATAACCTCGCTTGGT
 CCTCACTGTGATGCCGGCAGTGTAGGATAGTGCCTGCACCTGCACATTTCCACTT
 TCCCCCTGATCGCCTCGAAAACGAAGGGCTCAAAGCCCGTCTCCTGCCTCCACACACAT
 GCTTTACGTCCCGTGGTACCCGGACTACTAACCCCTATTGCCGCAACCCCTGTCCCC
 CCTCCCTTCCAAATCCGCCCCACCAGCCCTCCGACCCTCACGTCTTCTCCCGCCTCC
 CACACCCCTTACCAGACGCTCCCCCCCCCTCTCCACATCGCCACCCCTGCA
 CTCCTCCCTCCCCCGCC

Restriction Sites:

NotI-NotI

ACCN:

NM_000062

Insert Size:

1820 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_000062.2](#), [NP_000053.2](#)

RefSeq Size: 1984 bp

RefSeq ORF: 1503 bp

Locus ID: 710

UniProt ID: [P05155](#)

Cytogenetics: 11q12.1

Domains: SERPIN

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]
Transcript Variant: This variant (1) represents the longer transcript.