

Product datasheet for **RG203767**

SERPING1 (NM_000062) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SERPING1 (NM_000062) 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:

>RG203767 representing NM_000062
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTCCAGGCTGACCCTGCTGACCCTCCTGCTGCTGCTGCTGGCTGGGGATAGAGCCTCCTCAAATC
 CAAATGCTACCAGCTCCAGCTCCAGGATCCAGAGAGTTTGAAGACAGAGGCGAAGGGAAGGTCGCAAC
 AACAGTTATCTCCAAGATGCTATTTCGTTGAACCCATCCTGGAGGTTTCCAGCTTGCCGACAACCAACTCA
 ACAACCAATTCAGCCACCAAAATAACAGCTAATACCACTGATGAACCCACCACACAACCCACCACAGAGC
 CCACCACCAACCCACCATCCAACCCACCAACCAACTACCCAGCTCCCAACAGATTCTCTACCCAGCC
 CACTACTGGGTCCTTCTGCCCAGGACCTGTTACTCTCTGCTGCTGACTTGGAGAGTCATTCAACAGAGGCC
 GTGTTGGGGGATGCTTTGGTAGATTTTCCTGAAGCTTACCACGCCTTCTCAGCAATGAAGAAGGTGG
 AGACCAACATGGCCTTTCCCATTCAGCATCGCCAGCCTCCTTACCCAGGTCCTGCTCGGGGCTGGGA
 GAACACCAAAACAAACCTGGAGAGCATCCTCTCTTACCCCAAGGACTTACCTGTGTCCACCAGGCCCTG
 AAGGGCTTCACGACCAAAAGGTGTACCTCAGTCTCTCAGATCTTCCACAGCCAGACCTGGCCATAGGG
 ACACCTTTGTGAATGCCTCTCGGACCCTGTACAGCAGCAGCCCAAGAGTCTAAGCAACAACAGTGACGC
 CAACTTGGAGCTCATCAACACCTGGGTGGCCAAGAACAACAACAAGATCAGCCGGCTGCTAGACAGT
 CTGCCCTCCGATACCCGCCTTGTCTCTCAATGCTATCTACCTGAGTGCCAAGTGAAGACAACATTTG
 ATCCCAAGAAAACCAGAAATGGAACCCCTTCACTTCAAAAACCTCAGTTATAAAAGTGCCCATGATGAATAG
 CAAGAAGTACCCTGTGGCCATTTCACTGACCAAACTTGAAGCCAAGTGGGGCAGCTGCAGCTCTCC
 CACAATCTGAGTTTGGTATCCTGGTACCCAGAACCTGAAACATCGTCTTGAAGACATGGAACAGGCTC
 TCAGCCCTTCTGTTTTCAAGCCATCATGGAGAACTGGAGATGTCCAAGTCCAGCCACTCTCCTAATC
 ACTACCCCGCATCAAAGTGACGACAGCCAGGATATGCTCTCAATCATGGAGAAAATTGGAATTCCTCGAT
 TTTTCTTATGACCTTAACCTGTGTGGGCTGACAGAGGACCAGATCTTACGGTTTCTGCGATGCAGCACC
 AGACAGTGTGGAAGTGCAGAGACTGGGTGGAGGCGGCTGCAGCCTCCGCCATCTCTGTGGCCCGCAC
 CCTGCTGGTCTTGAAGTGCAGCAGCCCTTCTCTTATGCTCTGGGACCAGCAGACAAGTTCCCTGTC
 TTCATGGGGCGAGTATATGACCCAGGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG203767 representing NM_000062
 Red=Cloning site Green=Tags(s)

MASRLTLLTLLLLLAGDRASSNPATSSSSQDPESLQDRGEGKVATTVISKMLFVEPILEVSSLPTTNS
 TTNSATKITANTTDEPTTQPTTEPTTQPTIQPTQPTTQLPTDSPTQPTTGSFCGPGVTLCSDLSEHSTEA
 VLGDALVDFSLKLYHAFSAMKKVETNMAFSPFSIASLLTQVLLGAGENTKTNLESILSYPKDFTCVHQAL
 KGFTTKGVTSVSQIFHSPDLAIRDTFVNASRTLYSSSPRVLSNNSDANLELINTWVAKNTNKNISRLDLS
 LPSDTRLVLLNAIYL SAKWKTTDFPKKTRMEPFHFNKSVIKVPMNSKYPVAHFIDQTLKAKVQQLQS
 HNL SLVILVPQNLKHRLEDMEQALSPSVFKAIMEKLEMSKFQPTLLTLPRIKVTTSDMLSIMKLEFFD
 FSYDLNLCGLTEDPDLQVSAMQHQTVLELTETGVEAAAAAISVARTLLVFEVQQPFLFMLWDQQHKFPV
 FMGRVYDPRA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_000062

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

RefSeq Size: 1984 bp

RefSeq ORF: 1503 bp

Locus ID: 710

UniProt ID: [P05155](#)

Cytogenetics: 11q12.1

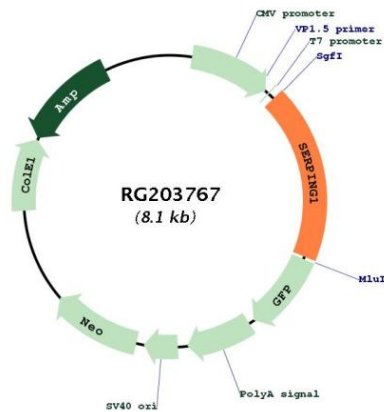
Domains: SERPIN

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]

Product images:



Circular map for RG203767