

## Product datasheet for **RC228927**

### Alpha 2 Antiplasmin (SERPINF2) (NM\_001165920) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Alpha 2 Antiplasmin (SERPINF2) (NM_001165920) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Alpha 2 Antiplasmin
Synonyms:	A2AP; AAP; ALPHA-2-PI; alpha2AP; API; PLI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC228927 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGTGTCTGCTCTGGGGCTCCTGGTGCTCAGCTGGTCTGCCTGCAAGGCCCTGCTCCGTGTTCTCCC  
 CTGTGAGCGCCATGGAGCCCTTGGGCGGCAGCTAACTAGCGGGCCGAACAGGAGCAGGTGCCCACT  
 TACCCTCCTCAAGTTGGGCAACAGGAGCTGGTGGCCAGACTGCCCTGAAGAGTCCCCAGGAGTCTGC  
 AGCAGAGACCCACCCAGAGCAGACCCACAGGCTGGCCCGGCCATGATGGCCTTCACTGCCGACCTGT  
 TCTCCCTGGTGGCTCAAACGTCCACCTGCCCAACCTCATCTGTCAACCCTGAGTGTGGCCCTGGCGCT  
 GTCTCACCTGGCACTAGGTGCTCAGAACCACACGTTGCAGAGGCTGCAACAGGTGCTGCACGCAGGCTCA  
 GGGCCCTGCCTCCCCATCTGCTGAGCCGCTCTGCCAGGACCTGGGCCCGGCCGCTTCCGACTGGCTG  
 CCAGGATGTACCTGCAGAAAGGATTTCCATCAAAGAAGATTTCTGGAACAATCCGAACAGCTATTTGG  
 GGCAAAGCCCGTGAAGCTGACGGAAAGCAGGAAGATGACCTGGCAAACATCAACCAATGGGTGAAGGAG  
 GCCACGGAGGGGAAGATTCAAGGAATTCCTCTGCGGCTGCCGGAAGACACCGTGTGCTTCTCTCAACG  
 CCATCCACTTCCAGGGTTTCTGGAGGAACAAGTTTGACCCGAGCCTTACCAGAGAGACTCCTTCCACCT  
 GGACGAGCAGTTCACGGTCCCCTGGAAATGATGCAGGCCCGCACGTACCCGCTGCGCTGGTTCTTGCTG  
 GAGCAGCTGAGATCCAGGTGGCTCATTCCCCTTAAGAACAACATGAGCTTTGTGGTCTTTGTACCCA  
 CCCACTTTGAATGGAACGTGTCCAGGACTGGCCAACCTGAGTTGGGACACCCTGCACCCACCTCTGGT  
 GTGGGAGAGGCCACCAAGGTCCGGTGCCTAAGCTGTATCTGAAACACCAAATGGACCTGGTGGCCACC  
 CTCAGCCAGCTGGGCTGCAGCATCAGTCCACCTGGAGCTCAGCGAGGTGCGGTGGATCTCCGAGCAGAGCTGG  
 TGGTGTCCGGCGTGCAGCATCAGTCCACCTGGAGCTCAGCGAGGTGCGGTGGAGGCGGCCGCGGCCAC  
 CAGCATGCCATGTCCCGCATGTCCTGTCTCCTTTCAGCGTGAACCGCCCTTCTCTTCTTCTTCTTCTT  
 GAGGACACCACAGGCCTTCCCCTCTTCTGTTGGGAGCGTGAAGAACCCCAACCCAGTGCACCCGCGGAGC  
 TCAAGGAACAGCAGGATTTCCCGGGCAACAAGGACTTCTCCAGAGCCTGAAAGGCTTCCCCCGGGAGA  
 CAAGCTTTTCGGCCCTGACTTAAACTTGTGCCCCCATGGAGGAGGATTACCCCGAGTTTGGCAGCCCC  
 AAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC228927 protein sequence  
 Red=Cloning site Green=Tags(s)

MVLLWGLLVLSWSCLQGPCSVFSPVSAMEPLGRQLTSGPNQEQVSPLTLLKLGNEPQGGQTALKSPPGVC  
 SRDPTPEQTHRLARAMMAFTADLFLVAQTSTCPNLILSPLSVALALSHLALGAQNHTLQRLQQVLHAGS  
 GPCLPHLLSRLCQDLGPGAFRLAARMYLQKGFPIKEDFLEQSEQLFGAKPVSLTGKQEDDLANINQWVKE  
 ATEGKIQEFLSGLPEDTVLLLLNAIHFQGFWRNKFDPSTLQDRSFLHDEQFTVPVEMMQARTYPLRWFL  
 EQPEIQVAHFPPKNNMSFVVLVPTHFEWVNSQVLANLSWDTLHPPLVWERPTKVRLPKLYLKHQMDLVAT  
 LSQGLQELFQAPDLRGISEQSLVVSQVHQSTLELSEVGVAAAATSIAMSRMSLSSFVNRPFLLFFIF  
 EDTTGLPLFVGSVRNPNPSAPRELKEQQDSPGNKDFLQSLKGFPRGDKLFGPDLKLVPPMEEDYPQFGSP  
 K

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6832\\_a08.zip](https://cdn.origene.com/chromatograms/mk6832_a08.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001165920

**ORF Size:** 1473 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\\_001165920.1](#), [NP\\_001159392.1](#)

**RefSeq Size:** 2296 bp

**RefSeq ORF:** 1476 bp

**Locus ID:** 5345

**UniProt ID:** [P08697](#)

**Cytogenetics:** 17p13.3

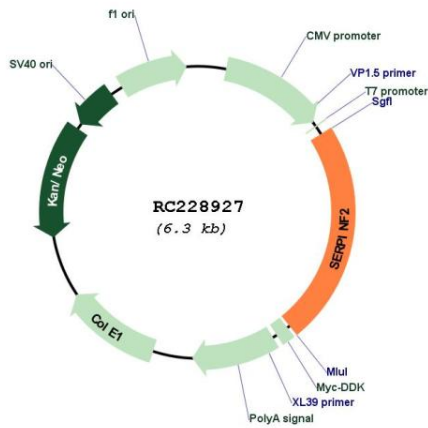
**Protein Families:** Druggable Genome, Secreted Protein

**Protein Pathways:** Complement and coagulation cascades

**MW:** 54.6 kDa

**Gene Summary:** This gene encodes a member of the serpin family of serine protease inhibitors. The protein is a major inhibitor of plasmin, which degrades fibrin and various other proteins. Consequently, the proper function of this gene has a major role in regulating the blood clotting pathway. Mutations in this gene result in alpha-2-plasmin inhibitor deficiency, which is characterized by severe hemorrhagic diathesis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]

**Product images:**



Circular map for RC228927