

Product datasheet for **RG228927**

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:	TurboGFP
Symbol:	SERPINF2
Synonyms:	A2AP; AAP; ALPHA-2-PI; alpha2AP; API; PLI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG228927 representing NM_001165920
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGTGTCTCTGGGGCTCTGGTGCTCAGCTGGTCTGCCTGCAAGGCCCTGCTCCGTGTTCTCCC
 CTGTGAGCGCCATGGAGCCCTTGGGCCGGCAGCTAACTAGCGGGCCGAACAGGAGCAGGTGCCCACT
 TACCCTCCTCAAGTTGGGCAACAGGAGCTGGTGGCCAGACTGCCCTGAAGAGTCCCCAGGAGTCTGC
 AGCAGAGACCCACCCAGAGCAGACCCACAGGCTGGCCCGGCCATGATGGCCTTCACTGCCGACCTGT
 TCTCCCTGGTGGCTCAAACGTCCACCTGCCCAACCTCATCTGTCAACCCTGAGTGTGGCCCTGGCGCT
 GTCTCACCTGGCACTAGGTGCTCAGAACCACACGTTGCAGAGGCTGCAACAGGTGCTGCACGCAGGCTCA
 GGGCCCTGCCTCCCCATCTGCTGAGCCGCTCTGCCAGGACCTGGGCCCGGCCGCTTCCGACTGGCTG
 CCAGGATGTACCTGCAGAAAGGATTTCCATCAAAGAAGATTTCTTGAACAATCCGAACAGCTATTTGG
 GGCAAAGCCCGTGAAGCTGACGGGAAAGCAGGAAGATGACCTGGCAAACATCAACCAATGGTGAAGGAG
 GCCACGGAGGGGAAGATTCAAGGAATTCCTCTGGGCTGCCGGAAGACACCGTGTGCTTCTCTCAACG
 CCATCCACTTCCAGGGTTTCTGGAGGAACAAGTTTGACCCGAGCCTTACCAGAGAGACTCCTTCCACT
 GGACGAGCAGTTCACGGTCCCCTGGAAATGATGCAGGCCCGCACGTACCCGCTGCGCTGGTTCTTGCTG
 GAGCAGCTGAGATCCAGGTGGCTCATTCCCCTTAAGAACAACATGAGCTTTGTGGTCTTGTACCCA
 CCCACTTTGAATGGAACGTGTCCAGGTAAGTGGCAACCTGAGTTGGGACACCCTGCACCCACCTCTGGT
 GTGGGAGAGGCCACCAAGGTCCGGTGCCTAAGCTGTATCTGAAACACCAAATGGACCTGGTGGCCACC
 CTCAGCCAGCTGGGCTGCAGGAGTTGTTCCAGGCCAGACTGCGTGGGATCTCCGAGCAGAGCCTGG
 TGGTGTCCGGCGTGCAGCATCAGTCCACCTGGAGCTCAGCGAGGTGCGGCTGGAGCGGCCGGCCAC
 CAGCATTGCCATGTCCCGCATGTCCTGTCTCTCAGCGTGAACCGCCCTTCTCTTCTTCTTCTTCTT
 GAGGACACCACAGGCCTTCCCCTCTTCTGGGAGCGTGAAGAACCCCAACCCAGTGCACCGCGGAGC
 TCAAGGAACAGCAGGATTTCCCGGGCAACAAGGACTTCTCCAGAGCCTGAAAGGCTTCCCCCGGGAGA
 CAAGCTTTTCGGCCCTGACTTAAAACCTGTGCCCCCATGGAGGAGGATTACCCCGAGTTTGGCAGCCCC
 AAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

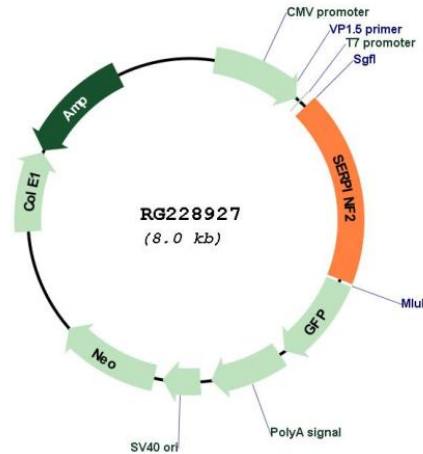
>RG228927 representing NM_001165920
 Red=Cloning site Green=Tags(s)

MVLLWGLLVLSWSCLQGPCSVFSPVSAMEPLGRQLTSGPNQEQVSPLTLLKLGNEPQGQTALKSPPGVC
 SRDPTPEQTHRLARAMMAFTADLFSLVAQTSTCPNLILSPLSVALALSHLALGAQNHTLQRLQQVLHAGS
 GPCLPHLLSRLCQDLGPGAFRLAARMYLQKGFPIKEDFLEQSEQLFGAKPVSLTGKQEDDLANINQWVKE
 ATEGKIQEFLSGLPEDTVLLLLNAIHFQGFWRNKFDPSLTQRDSFHLDEQFTVPVEMMQARTYPLRWFL
 EQPEIQVAHFPPKNNMSFVVLVPTHFEWNVSVLANLSWDTLHPPLVWERPTKVRLPKLYLKHQMDLVAT
 LSQGLQELFQAPDLRGISEQSLVYSGVQHQSTLELSEVGVAAAATSIAMSRMSLSSFVNRPFLLFFIF
 EDTTGLPLFVGSVRNPNPSAPRELKEQQDSPGNKDFLQSLKGFPRGDKLFGPDLKLVPPMEEDYPQFGSP
 K

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Plasmid Map:


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:	<ol style="list-style-type: none">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
Gene Summary:	<p>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]</p>