

## Product datasheet for **RG206435**

### Alpha 2 Antiplasmin (SERPINF2) (NM\_000934) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Alpha 2 Antiplasmin (SERPINF2) (NM_000934) 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:**

>RG206435 representing NM\_000934  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGTCTGCTCTGGGGCTCTGGTGCTCAGCTGGTCTGCCTGCAAGGCCCTGCTCCGTGTTCTCCC  
 CTGTGAGCGCCATGGAGCCCTTGGGCCGGCAGCTAACTAGCGGGCCGAACAGGAGCAGGTGCCCACT  
 TACCCTCTCAAGTTGGGCAACAGGAGCTGGTGGCCAGACTGCCCTGAAGAGTCCCCAGGAGTCTGC  
 AGCAGAGACCCACCCAGAGCAGACCCACAGGCTGGCCCGGCCATGATGGCCTTCACTGCCGACCTGT  
 TCTCCCTGGTGGCTCAAACGTCCACCTGCCCAACCTCATCTGTCAACCCTGAGTGTGGCCCTGGCGCT  
 GTCTCACCTGGCACTAGGTGCTCAGAACCACACGTTGCAGAGGCTGCAACAGGTGCTGCACGCAGGCTCA  
 GGGCCCTGCCTCCCCATCTGCTGAGCCGCTCTGCCAGGACCTGGGCCCGGCCGCTTCCGACTGGCTG  
 CCAGGATGTACCTGCAGAAAGGATTTCCCATCAAAGAAGATTTCTTGAACAATCCGAACAGCTATTTGG  
 GGCAAAGCCCGTGAAGCTGACGGAAAGCAGGAAGATGACCTGGCAAACATCAACCAATGGGTGAAGGAG  
 GCCACGGAGGGGAAGATTCAAGGAATTCCTCTGGGCTGCCGGAAGACACCGTGTGCTTCTCTCAACG  
 CCATCCACTTCCAGGGTTTCTGGAGGAACAAGTTTGACCCGAGCCTTACCCAGAGAGACTCCTTCCACCT  
 GGACGAGCAGTTCACGGTGGCCGTGAAATGATGCAGGCCCGCACGTACCCGCTGCGCTGGTTCTTGCTG  
 GAGCAGCTGAGATCCAGGTGGCTCATTCCCTTTAAGAACAACATGAGCTTTGTGGTCTTTGTACCCA  
 CCCACTTTGAATGGAACGTGTCCAGGTACTGGCAACCTGAGTTGGGACACCCTGCACCCACCTCTGGT  
 GTGGGAGAGGCCACCAAGGTCCGGTGCCTAAGCTGTATCTGAAACACCAAATGGACCTGGTGGCCACC  
 CTCAGCCAGCTGGGCTGCAGGAGTTGTTCCAGGCCAGACCTGCGTGGGATCTCCGAGCAGAGCCTGG  
 TGGTGTCCGGCGTGCAGCATCAGTCCACCTGGAGCTCAGCGAGGTGCGGCTGGAGGCGGCCGGCCAC  
 CAGCATTGCCATGTCCCGCATGTCCTGTCTCCTTTCAGCGTGAACCGCCCTTCTCTTCTTCTTCTTC  
 GAGGACACCACAGGCCTTCCCCTCTTCTGGGAGCGTGAAGAACCCCAACCCAGTGCACCGCGGAGC  
 TCAAGGAACAGCAGGATTTCCCGGGCAACAAGGACTTCTCCAGAGCCTGAAAGGCTTCCCCCGGGAGA  
 CAAGCTTTTCGGCCCTGACTTAAAACCTGTGCCCCCATGGAGGAGGATTACCCCGAGTTTGGCAGCCCC  
 AAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG206435 representing NM\_000934  
 Red=Cloning site Green=Tags(s)

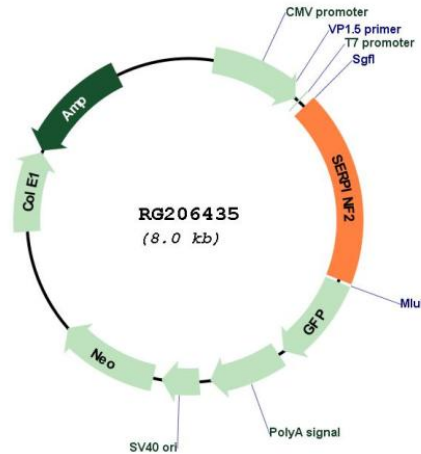
MVLLWGLLVLSWSCLQGPCSVFSPVSAMEPLGRQLTSGPNQEQVSPLTLLKLGNEPQGQTALKSPPGVC  
 SRDPTPEQTHRLARAMMAFTADLFLVAQTSTCPNLILSPLSVALALSHLALGAQNHTLQRLQQVLHAGS  
 GPCLPHLLSRLCQDLGPGAFRLAARMYLQKGFPIKEDFLEQSEQLFGAKPVSLTGKQEDDLANINQWVKE  
 ATEGKIQEFLSGLPEDTVLLLLNAIHFQGFWRNKFDPSLTQRDSFHLDEQFTVPVEMMQARTYPLRWFL  
 EQPEIQVAHFPPFKNMNSFVVLVPTHFEWNVSQVLANLSWDTLHPPLVWERPTKVRLPKLYLKHQMDLVAT  
 LSQGLQELFQAPDLRGISEQSLVYSGVQHQSTLELSEVGVAAAATSIAMSRMSSLSSFSVNRPFLLFFIF  
 EDTTGLPLFVGSVRNPNPSAPRELKEQQDSPGNKDFLQSLKGFPRGDKLFGPDLKLVPPMEEDYPQFGSP  
 K

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



**Plasmid Map:**


**ACCN:** NM\_000934

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_000934.3</a> , <a href="#">NP_000925.2</a>
<b>RefSeq Size:</b>	2284 bp
<b>RefSeq ORF:</b>	1476 bp
<b>Locus ID:</b>	5345
<b>UniProt ID:</b>	<a href="#">P08697</a>
<b>Cytogenetics:</b>	17p13.3
<b>Domains:</b>	SERPIN
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	Complement and coagulation cascades
<b>Gene Summary:</b>	<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>