

## Product datasheet for **SC321810**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Alpha 2 Antiplasmin (SERPINF2) (NM_000934) Human Untagged Clone
Tag:	Tag Free
Symbol:	Alpha 2 Antiplasmin
Synonyms:	A2AP; AAP; ALPHA-2-PI; alpha2AP; API; PLI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_000934.3  
 GGGACTTGAAAACTGGAGCCTGTTCTTGGCAAGAAGATTCTAATGCCAGGAACATGGT  
 GCTGCTCTGGGGCTCCTGGTGCTCAGCTGGTCTGCCTGCAAGGCCCTGCTCCGTGTT  
 CTCCCCTGTGAGCGCCATGGAGCCCTTGGGCCGGCAGCTAACTAGCGGGCCGAACCAGGA  
 GCAGGTGTCCCACCTTACCCTCTCAAGTTGGGCAACCAGGAGCCTGGTGGCCAGACTGC  
 CCTGAAGAGTCCCCAGGAGTCTGCAGCAGAGACCCACCCAGAGCAGACCCACAGGCT  
 GGCCCCGGCCATGATGGCCTTCACTGGCCGACCTGTTCTCCCTGGTGGCTCAAACGTCCAC  
 CTGCCCCAACCTCATCTGTACCCCTGAGTGTGGCCCTGGCGCTGTCTACCTGGCACT  
 AGGTGCTCAGAACCACACGTTGCAGAGGCTGCAACAGGTGCTGCACGCAGGCTCAGGGCC  
 CTGCTCCCCATCTGCTGAGCCGCTCTGCCAGGACCTGGGCCCGGCGGTTCCGACT  
 GGCTGCCAGGATGTACCTGCAGAAAGGATTTCCATCAAAGAAGATTTCTGGAACAATC  
 CGAACAGTATTTGGGGCAAAGCCCGTGAAGCTGACGGGAAAGCAGGAAGATGACCTGGC  
 AAACATCAACCAATGGGTGAAGGAGGCCACGGAGGGGAAGATTCAGGAATTCCTCTCTGG  
 GCTGCCGAAGACACCGTGTGCTTCTCCTCAACGCCATCCACTCCAGGGTTTCTGGAG  
 GAAACAAGTTTGACCCGAGCCTTACCAGAGAGACTCCTTCCACCTGGACGAGCAGTTAC  
 GGTGCCCGTGGAAATGATGCAGGCCCGCACGTACCCGCTGCGCTGGTTCTTGCTGGAGCA  
 GCCTGAGATCCAGGTGGCTCATTTCCCCTTTAAGAACAACATGAGCTTTGTGGTCCTTGT  
 ACCCACCACTTTGAATGGAACGTGTCCAGGTAAGTGGCCAACCTGAGTTGGGACACCCT  
 GCACCCACCTCTGGTGTGGGAGAGGCCACCAAGTCCGGCTGCCTAAGCTGTATCTGAA  
 ACACCAATGGACCTGGTGGCCACCCTCAGCCAGCTGGGCTGCAGGAGTTGTTCCAGGC  
 CCCAGACTGCGTGGGATCTCCGAGCAGAGCCTGGTGGTGTCCGGCGTGCAGCATCAGTC  
 CACCCTGGAGCTCAGCGAGGTCGGCGTGGAGGCGGCGGCCACCAGCATTGCCATGTC  
 CCGCATGTCCTCTCCTTCAAGCGTGAACCGCCCTTCTCTTCTTTCATCTTCGAGGA  
 CACCACAGGCCTTCCCCTTTCGTGGGCAGCGTGAGGAACCCCAACCCCAAGTGCACCGCG  
 GGAGCTCAAGGAACAGCAGGATTCCCGGGCAACAAGGACTTCTCCAGAGCCTGAAAGG  
 CTTCCCCCGGGAGACAAGCTTTTCGGCCCTGACTTAAACTTGTGCCCCCATGGAGGA  
 GGATTACCCCAAGTTTGGCAGCCCAAGTGAAGGGCCGTGGCTGTGGCATCCAGAGTCCC  
 TGCCTGGACCAGCCTCTCACTCATGTGACTCTTCCAACTGCTTTGTGGCACTGGGGC  
 AGGGGCCGGGGCAGTCTGAGAGAGGCCATTCTTCCAAACCTCTTGGGGAGTTAGG  
 GTGGGGGGGGCGCGCTGGGAGGAGGGCAGGCATCGGGGAGCCGGGAGCCTGACCCTCA  
 TCTTTCTTCCAAACAGGCTCAGAGGGTGTCTGCACCGGGCCTGGGCAGGAGGGAGGTG  
 CTCTAGTTCTGCCAGGAGACAGTTAGCTGCTCCCCACGTGAGCTGGGACACCCGACT  
 TTTGTTTACCAGAAAAAGGGAGGGGGAGAGGGCTGCCTTTGGACTTGTCCCGGACAC  
 CTAGGCTAGGGTGGGAGAGACGGGCCCTGGTGGTGGCTCGGGAGGCGAAGCGTTGCTCT  
 CAGCCCCGCTGGAACCTCGTGTCTGGCAGCAGCCTGGCTGTGGCCTAACCTGCCGAGATC  
 CATCAGCTCCATCTACCCCTGTGCCTTGTACAGCCAGACTTCCACGGCTCCTCGAG  
 ATCCCAACTGCCAGCATTTCCCTTCTTCTCCTGTCTCCTCCTCTGCCCCGGAG  
 CTCAGGAACCGAGGCAGGGAAGGATCCCATGAGCTCCTTAAGGCTCTTTTGAAGGTTTT  
 TGTAGTATTTTTATGCCACCTGAATAAAGAATGAATGGGCAAAAAAAAAAAAAAAAAAAAA  
 AAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_000934

**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).

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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> <p>Transcript Variant: This variant (1) represents the longest transcript. Both variants 1 and 2 encode the same isoform (a).</p>