

## Product datasheet for **SC327562**

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

#### Product data:

|                           |                                                                                                      |
|---------------------------|------------------------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                                  |
| Product Name:             | Alpha 2 Antiplasmin (SERPINF2) (NM_001165920) Human Untagged Clone                                   |
| Tag:                      | Tag Free                                                                                             |
| Symbol:                   | SERPINF2                                                                                             |
| Synonyms:                 | A2AP; AAP; ALPHA-2-PI; alpha2AP; API; PI                                                             |
| Mammalian Cell Selection: | None                                                                                                 |
| Vector:                   | <u>pCMV6-XL5</u>                                                                                     |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                                               |
| Fully Sequenced ORF:      | >NCBI ORF sequence for NM_001165920, the custom clone sequence may differ by one or more nucleotides |

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ATGGCGTGCTCTGGGGGCTCCTGGTGCTCAGCTGGTCTGCCTGCAAGGCCCTGCTCC
GTGTTTCTCCCCTGTGAGCGCCATGGAGCCCTTGGGCCGGCAGCTAACTAGCGGGCCGAAC
CAGGAGCAGGTGTCCCCACTTACCCTCCTCAAGTTGGGCAACCAGGAGCCTGGTGGCCAG
ACTGCCCTGAAGAGTCCCCAGGAGTCTGCAGCAGAGACCCACCCAGAGCAGACCCAC
AGGCTGGCCCGGCCATGATGGCCTTCACTGCCGACCTGTTCTCCTGGTGGCTCAAACG
TCCACCTGCCCAACCTCATCCTGTCAACCCTGAGTGTGGCCCTGGCGCTGTCTCACCTG
GCACTAGGTGCTCAGAACCACACGTTGCAGAGGCTGCAACAGGTGCTGCACGCAGGCTCA
GGGCCCTGCCTCCCCATCTGCTGAGCCGCTCTGCCAGGACCTGGGCCCGGCGGTTTC
CGACTGGCTGCCAGGATGTACCTGCAGAAAGGATTTCCCATCAAAGAAGATTTCTGGAA
CAATCCGAACAGCTATTTGGGGCAAGCCCGTGAGCCTGACGGGAAAGCAGGAAGATGAC
CTGGCAAACATCAACCAATGGGTGAAGGAGGCCACGGAGGGGAAGATTCAGGAATTCCTC
TCTGGGCTGCCGGAAGACACCGTGTGCTTCTCCTCAACGCCATCCACTCCAGGGTTTC
TGGAGGAACAAGTTTGACCCGAGCCTTACCCAGAGAGACTCCTTCCACCTGGACGAGCAG
TTCACGGTGCCCGTGAAATGATGCAGGCCCGCACGTACCCGCTGCGCTGGTTCTTGCTG
GAGCAGCCTGAGATCCAGGTGGCTCATTCCCCTTTAAGAACAACATGAGCTTTGTGGTC
CTTGTACCCACCCACTTTGAATGGAACGTGTCCAGGTAAGTGGCCAACCTGAGTTGGGAC
ACCTGCAACCCACTCTGGTGTGGGAGAGGCCACCAAGTCCGGCTGCCTAAGCTGAT
CTGAAACACCAAATGGACCTGGTGGCCACCCTCAGCCAGCTGGGCTGCAGGAGTTGTTTC
CAGGCCCCAGACCTGCGTGGGATCTCCGAGCAGAGCCTGGTGGTGTCCGGCGTGCAGCAT
CAGTCCACCCTGGAGCTCAGCGAGGTCGGCGTGGAGGGCGGCGGCCACCAGCATTGCC
ATGTCCCGCATGTCCCTGTCTCCTTCCAGCGTGAACCGCCCTTCTCTTCTTCTTCTTCTT
GAGGACACCACAGGCCTTCCCCTTCTCGTGGGACGCTGAGGAACCCCAACCCAGTGCA
CCGCGGGAGCTCAAGGAACAGCAGGATTTCCCGGGCAACAAGGACTTCTCCAGAGCCTG
AAAGGCTTCCCCGCGGAGACAAGCTTTTCGGCCCTGACTTAAAACCTGTGCCCCCATG
GAGGAGGATTACCCCAAGTTTGGCAGCCCAAG

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| <b>Restriction Sites:</b>     | Please inquire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ACCN:</b>                  | NM_001165920                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>OTI Disclaimer:</b>        | 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>                | <u><a href="#">NM_001165920.1</a></u> , <u><a href="#">NP_001159392.1</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>RefSeq Size:</b>           | 2296 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>RefSeq ORF:</b>            | 1476 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Locus ID:</b>              | 5345                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>UniProt ID:</b>            | <u><a href="#">P08697</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Cytogenetics:</b>          | 17p13.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <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 (2) represents use of an alternate promoter and 5' UTR, compared to variant 1. Both variants 1 and 2 encode the same isoform (a).</p> |