

## Product datasheet for **SC320895**

### **SERPINB2 (NM\_002575) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SERPINB2 (NM_002575) Human Untagged Clone
Tag:	Tag Free
Symbol:	SERPINB2
Synonyms:	HsT1201; PAI; PAI-2; PAI2; PLANH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >OriGene sequence for NM\_002575.1  
 GGGGGTAACAACTCTCAGAGGAGCATTGCCCGTCAGACAGCAACTCAGAGAATAACCAGA  
 GAACAACCAGATTGAAACAATGGAGGATCTTTGTGTGGCAAACACACTCTTTGCCCTCAA  
 TTTATTCAAGCATCTGGCAAAAGCAAGCCCCACCCAGAACCTCTCCTCTCCCCATGGAG  
 CATCTCGTCCACCATGGCCATGGTCTACATGGGCTCCAGGGCAGCACCGAAGACCAGAT  
 GGCCAAGGTGCTTCAGTTAATGAAGTGGGAGCCAATGCAGTTACCCCCATGACTCCAGA  
 GAACTTTACCAGCTGTGGGTTTCATGCAGCAGATCCAGAAGGGTAGTTATCCTGATGCGAT  
 TTTGCAGGCACAAGCTGCAGATAAAATCCATTCATCCTTCCGCTCTCTCAGCTCTGCAAT  
 CAATGCATCCACAGGAATTATTTACTGAAAAGTGTCAATAAGCTGTTTGGTGAGAAGTC  
 TGCGAGCTTCCGGGAAGAATATATTCGACTCTGTGAGAAATATTACTCCTCAGAACCCCA  
 GGCAGTAGACTTCTAGAAATGTGAGAAGAAGCTAGAAAAAGATTTATTCCTGGGTCAA  
 GACTCAAACCAAGGCAAAATCCAAAATTGTTACCTGAAGGTTCTGTAGATGGGGATAC  
 CAGGATGGTCTGGTGAATGCTGTCTACTTCAAAGGAAAGTGGAAAACCTCATTGAGAA  
 GAAACTAAATGGGCTTTATCCTTTCCGTGTAACCTCGGCTCAGCGCACACCTGTACAGAT  
 GATGTACTTGGTGAAAAGCTAAACATTGGATACATAGAAGACCTAAAGGCTCAGATTCT  
 AGAACTCCCATATGCTGGAGATGTTAGCATGTTCTTGTGCTTCCAGATGAAATTGCCGA  
 TGTGTCCACTGGCTTGGAGCTGTGAAAAGTGAATAACCTATGCAAACTCAACAAGTG  
 GACCAGCAAAGACAAAATGGCTGAAGATGAAGTTGAGGTATACATACCCAGTTCAAATT  
 AGAAGAGCATTATGAACTCAGATCCATTCTGAGAAGCATGGGCATGGAGGACGCCTTCAA  
 CAAGGGACGGGCCAATTTCTCAGGGATGTCGGAGAGGAATGACCTGTTTCTTTCTGAAGT  
 GTTCCACCAAGCCATGGTGGATGTAATGAGGAGGGCACTGAAGCAGCCGCTGGCACAGG  
 AGGTGTTATGACAGGGGAACTGGACATGGAGGCCACAGTTTGTGGCAGATCATCCTTT  
 TCTTTTTCTTATTATGCATAAGATAACCAACTGCATTTTATTTTTCGGCAGATTTTCCTC  
 ACCCTAAAATAAGCGTGTCTTCTGCAAAAGATTTTTGTAGATGAGCTGTGTGCCTCA  
 GAATTGCTATTTCAAATTGCCAAAATTTAGAGATGTTTTCTACATATTTCTGCTTCT  
 GAACAATTCTGTACCCACTAAATAAAAAACAGAAATAATTAGACAATTGTCTATTAT  
 AACATGACAACCCTATTAATCATTTGGTCTTCTAAAATGGGATCATGCCATTTAGATTT  
 TCCTTACTATCAGTTTATTTTTATAACATTAACCTTTACTTTGTTATTTATTTTATA  
 TAATGGTGAGTTTTTAAATTATTGCTCACTGCCTATTTAATGTAGCTAATAAAGTTATAG  
 AAGCAGATGATCTGTTAATTTCTATCTAATAAATGCCTTAATTGTTCTCATAATGAAG  
 AATAAGTAGGTATCCCTCCATGCCCTTCTGTAATAAATATCTGGAAAAACATTAACAA  
 TAGGCAAATATATGTTATGTGCATTTCTAGAAATACATAACACATATATATGTCTGTATC  
 TTATATTTCAATTGCAAGTATATAATAAATAAACCTGCTTCCAAACAATAAAAAAAAAAAAA  
 AAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_002575

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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 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.

**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\\_002575.1](#), [NP\\_002566.1](#)

**RefSeq Size:** 1900 bp

**RefSeq ORF:** 1248 bp

**Locus ID:** 5055

**UniProt ID:** [P05120](#)

**Cytogenetics:** 18q21.33-q22.1

**Domains:** SERPIN

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

**Gene Summary:** Inhibits urokinase-type plasminogen activator. The monocyte derived PAI-2 is distinct from the endothelial cell-derived PAI-1.[UniProtKB/Swiss-Prot Function]  
 Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein.