

## Product datasheet for **SC326946**

### PAI1 (SERPINE1) (NM\_001165413) Human Untagged Clone

#### Product data:

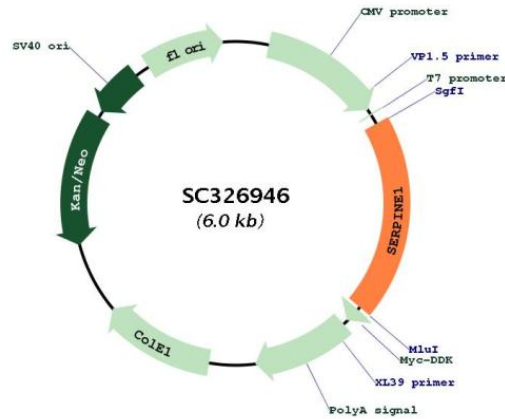
Product Type:	Expression Plasmids
Product Name:	PAI1 (SERPINE1) (NM_001165413) Human Untagged Clone
Tag:	Tag Free
Symbol:	SERPINE1
Synonyms:	PAI; PAI-1; PAI1; PLANH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC326946 representing NM_001165413. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAGATGTCTCCAGCCCTCACCTGCCTAGTCTGGCCCTGGCCCTTGCTTTGGTGAAGGGTCTGCT
GTGCACCATCCCCATCTACGTGGCGCAGGCCTCCAAGGACCGCAACGTGGTTTTCTCACCCATGGG
GTGGCCTCGGTGTTGGCCATGCTCCAGCTGACAACAGGAGGAGAAACCCAGCAGCAGATTCAAGCAGCT
ATGGGATTCAAGATTGATGACAAGGGCATGGCCCCGCCCTCCGGCATCTGTACAAGGAGCTCATGGGG
CCATGGAACAAGGATGAGATCAGCACCACAGACGCGATCTTCGTCAGCGGGATCTGAAGCTGGTCCAG
GGCTTCATGCCCACTTCTCAGGCTGTCCGGAGCAGGTCAGCAAGTGGACTTTTCAGAGGTGGAG
AGAGCCAGATTATCATCAATGACTGGGTGAAGACACACAAAAAGGTATGATCAGCAACTGCTTGGG
AAAGGAGCCGTGGACCAGCTGACACGGCTGGTGTGGTGAATGCCCTCTACTTCAACGGCCAGTGGAAAG
ACTCCCTTCCCGACTCCAGCACCCACCGCCCTCTCCACAAATCAGACGGCAGCACTGTCTCTGTG
CCCATGATGGCTCAGACCAACAAGTTCAACTATACTGAGTTCACCACGCCGATGGCCATTACTACGAC
ATCCTGGAAGTGCCTACCACGGGGACACCCTCAGCATGTTTATTGCTGCCCTTATGAAAAAGAGGTG
CCTCTCTGCCCACCAACATTTGAGTGCCAGCTCATCAGCCACTGAAAGGCAACATGACCAGG
CTGCCCCGCTCCTGGTTCTGCCAAGTCTCCCTGGAGACTGAAGTCGACCTCAGGAAGCCCCTAGAG
AACCTGGGAATGACCGACATGTTGAGCAGTTCAGGCTGACTTCAGAGTCTTTTCAGACCAAGAGCCT
CTCCACGTCGCGCAGGCGCTGCAGAAAGTGAAGATCGAGGTGAACGAGAGTGGCAGGTTGCCCTCCTCA
TCCACAGCTGTATAGTCTCAGCCGCATGGCCCCGAGGAGATCATCATGGACAGACCCCTCTCTTT
GTGGTCCGGCACAACCCACAGGAACAGTCTTTTTCATGGCCAAAGTATGGAACCTTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



[View online »](#)

**Plasmid Map:**


**ACCN:** NM\_001165413

**Insert Size:** 1164 bp

**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).

**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\\_001165413.2](#)

**RefSeq Size:** 3162 bp

**RefSeq ORF:** 1164 bp

**Locus ID:** 5054

**Cytogenetics:** 7q22.1

**Protein Families:** Druggable Genome, Secreted Protein  
**Protein Pathways:** Complement and coagulation cascades, p53 signaling pathway  
**MW:** 43.4 kDa

**Gene Summary:** This gene encodes a member of the serine proteinase inhibitor (serpin) superfamily. This member is the principal inhibitor of tissue plasminogen activator (tPA) and urokinase (uPA), and hence is an inhibitor of fibrinolysis. The protein also functions as a component of innate antiviral immunity. Defects in this gene are the cause of plasminogen activator inhibitor-1 deficiency (PAI-1 deficiency), and high concentrations of the gene product are associated with thrombophilia. [provided by RefSeq, Aug 2020]  
Transcript Variant: This variant (2) lacks an in-frame coding segment in the 5' region, as compared to variant 1. The resulting isoform (2) is shorter than isoform 1.