

Product datasheet for SC118561

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:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118561 sequence for NM_002575 edited (data generated by NextGen Sequencing)

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ATGGAGGATCTTTGTGTGGCAAACACACTCTTTGCCCTCAATTTATTCAAGCATCTGGCA
AAAGCAAGCCCCACCCAGAACCTCTTCTCTCCCATGGAGCATCTCGTCCACCATGGCC
ATGGTCTACATGGGCTCCAGGGGAGCACCAGAACAGATGGCCAAGGTGCTTCAGTTT
AATGAAGTGGGAGCCAATGCAGTTACCCCATGACTCCAGAGAATTTACCAGCTGTGGG
TTCATGCAGCAGATCCAGAAGGGTAGTTATCCTGATGCGATTTTGCAGGCACAAGCTGCA
GATAAAATCCATTCATCCTTCCGCTCTCTCAGCTCTGCAATCAATGCATCCACAGGGGAT
TATTTACTGGAAAGTGTCAATAAGCTGTTTGGTGAGAAGTCTGCGAGCTCCGGGAAGAA
TATATTCGACTCTGTGAGAAATATTACTCCTCAGAACCCAGGCAGTAGACTTCCTAGAA
TGTGCAGAAGAAGCTAGAAAAAAGATTAATTCTGGGTCAAGACTCAAACCAAAGGCAAA
ATCCCAAACCTTGTACCTGAAGTTCTGTAGATGGGGATACCAGGATGGTCTGGTGAAT
GCTGTCTACTTCAAAGGAAAGTGGAAAACCTCATTGAGAAAGAACTAAATGGGCTTTAT
CCTTTCCGTGTAACCTCGGCTCAGCGCACACCTGTACAGATGATGTACTTGCGTGAAGG
CTAAACATTGGATACATAGAAGACCTAAAGGCTCAGATTCTAGAATCCCATATGCTGGA
GATGTTAGCATGTTCTTGTGCTTCCAGATGAAATTGCCGATGTGTCCACTGGCTGGAG
CTGCTGGAAAGTGAATAACCTATGACAACTCAACAAGTGGACCAGCAAAGACAAAATG
GCTGAAGATGAAGTTGAGGTATACATACCCAGTTCAAATTAGAAGAGCATTATGAACTC
AGATCCATTCTGAGAAGCATGGGCATGGAGGACGCCTTCAACAAGGGACGGGCCAATTTT
TCAGGGATGTCGGAGAGGAATGACCTGTTTCTTTCTGAAGTGTTCACCAAGCCATGGTG
GATGTGAATGAGGAGGGCACTGAAGCAGCCGCTGGCACAGGAGGTGTTATGACAGGGAGA
ACTGGACATGGAGGCCACAGTTTGTGGCAGATCATCCGTTTCTTTTCTATTATGCAT
AAGATAACCAAGTGCATTTTATTTTTCGGCAGATTTTGTCCACCCTAA

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Clone variation with respect to NM_002575.2
358 a=>g;1179 t=>g;1212 c=>g;1238 c=>g



[View online >](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002575 unedited
 GTCATAATTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACCAGCAGCAACTCAGT
 ATAATAACCAGNATAACAACCAGATTGAAACAATGGAGGATCTTTGTGTGGCAAACACAC
 TCTTTGCCCTCAATTTATTCAAGCATCTGGCAAAAGCAAGCCCCACCCAGAACCTCTTCC
 TCTCCCATGGAGCATCTCGTCCACCATGGCCATGGTCTACATGGGCTCCAGGGGCAGCA
 CCGAAGACCAGATGGCCAAGGTGCTTCAGTTAATGAAGTGGGAGCCAATGCAGTTACCC
 CCATGACTCCAGAGAACTTTACCAGCTGTGGGTTTCATGCAGCAGATCCAGAAGGGTAGTT
 ATCCTGATGCGATTTTGCAGGCACAAGCTGCAGATAAAATCCATTCATCCTTCCGCTCTC
 TCAGCTCTGCAATCAATGCATCCACAGGGGATTATTTACTGAAAAGTGTCAATAAGCTGT
 TTGGTGAGAAGTCTGCGAGCTTCCGGGAAGAATATATTCGACTCTGTCAGAAATATTACT
 CCTCAGAACCCAGGCAGTAGACTTCTAGAATGTGCAGAAGAAGCTAGAAAAAAGATTA
 ATTCCTGAGTCAAGACTCAAACCAAGGCAAAATCCCAAACCTGTTACCTGAAAGTTCTG
 TAGATGGGGATACCAGGATGGTCTGGTGAATGCTGTCTACTTCAAAGGAAAAGTGGAAAA
 CTCCATTTGAGAAGAACTAAATGGGCTTTATCCTTTCCGTGAAACTCGGCTCATCGCA
 CACCTGTACAGATGATGTAAGTTCGCTGAAAAGCTAAACATTGGATACATAGGAGACCTAA
 AGGCTCANATTCTAGAACNCCATATGCTGGNAGATGTAGCATGTTCTTGTGCTTNCAG
 ATGAAATNGNCGATGTGTCCACTGGCTGGNAGCTGCTGAAAAGTAAANTACCTATGACAT
 ACTCACAGTGGACCAGCAAGACAATGGGCTGAGATGAATN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002575 unedited
 CGAGTTTTAATATCTTTTTTTTTTGTGTTTGGAAAGCAGGTTTATTTATTATATACTTG
 CAATTGAATATAAGATACAGACATATATATGTGTTATGTATTTCTAGAAATGCACATAAC
 ATATATTTGCCTATTGTTAATGTTTTTCCAGATATTTATTATAGAAGGCATGGAGGG
 ATACCTACTTATTCTTATTATGAGAACAATTAAGGCATTTATTAGATAGGAAATTAAC
 AGATCATCTGCTTCTATAACTTTATTAGCTACATTAATAGGCAGTGAGCAATAATTTAA
 AAACTCACCATTATATAAAATAAATAAACAAGTAAAAGTTAATGTTATAAAAAATAAA
 CTGATAGTAAGGAAAATCTAAATGGGCATGATCCCATTTTAGAAGACCAATGATTAATA
 GGGTTGTCATGTTATAATAGACAATTGTCTAATATTTCTGTGTTTTTATTTAGTGGGTA
 GCAGAAGTTGTTTCAGAAGAGCAGAAATATGTAGAAAACATCTCTAAATTTTTGGCAATTT
 GAAATAGCAATTCTGAGGCACACAGCTCATCTACAAAAATCTTTTGCAGAAGCAGCACGC
 TTAGTTTTAGGGTGAGCAAAATCTGCCGAANAAAAATGCACCTTGTTATCTTATGCATA
 ATAAGAAAAAGAAACGGATGATCTGCCACAAACTGTGGGCTCCATGTCCAGTTCTCCCT
 GTCATAACACCTNCTGTGCCAGCGGCTGCTTCAGTGCCCTCCTCATTACATCCACCATG
 GGCTTGGTGAACACTTCAGAAAGAAACAGTCATTCTCTNCGACATCCCTGAGAAATTG
 GCCCGTCCTTGTGTGAC

Restriction Sites:

NotI-NotI

ACCN:

NM_002575

Insert Size:

2000 bp

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 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](#)

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.