

Product datasheet for SC119781

PAI1 (SERPINE1) (NM_000602) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAI1 (SERPINE1) (NM_000602) Human Untagged Clone
Tag:	Tag Free
Symbol:	PAI1
Synonyms:	PAI; PAI-1; PAI1; PLANH1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119781 sequence for NM_000602 edited (data generated by NextGen Sequencing)

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ATGCAGATGTCTCCAGCCCTCACCTGCCTAGTCCTGGCCCTGGCCCTTGTCTTTGGTGAA
GGGTCTGCTGTGACCATCCCCATCCTACGTGGCCACCTGGCCTCAGACTTCGGGGTG
AGGGTGTTCAGCAGGTGGCGCAGGCCTCCAAGGACCGCAACGTGGTTTTCTCACCTAT
GGGGTGGCCTCGGTGTTGGCCATGCTCCAGCTGACAACAGGAGGAGAAACCCAGCAGCAG
ATTCAAGCAGCTATGGGATTCAAGATTGATGACAAGGGCATGGCCCCCGCCCTCCGGCAT
CTGTACAAGGAGCTCATGGGGCCATGGAACAAGGATGAGATCAGCACCACAGACGCGATC
TTCGTCCAGCGGGATCTGAAGCTGGTCCAGGGCTTCATGCCCCACTTCTTCAGGCTGTT
CGGAGCACGGTCAAGCAAGTGGACTTTTCAGAGGTGGAGAGCCAGATTCATCATCAAT
GACTGGGTGAAGACACACAAAAGGTATGATCAGCAACTTGCTTGGAAAGGAGCCGTG
GACCAGCTGACACGGCTGGTGTGGTGAATGCCCTCTACTTCAACGGCCAGTGGAAGACT
CCCTTCCCCGACTCCAGCACCCACCGCCCTCTTCCACAAATCAGACGGCAGCACTGTC
TCTGTGCCATGATGGCTCAGACCAACAAGTTCAACTATACTGAGTTCACCACGCCCGAT
GGCCATTACTACGACATCCTGGAAGTGCCTACCACGGGGACACCCTCAGCATGTTTATT
GCTGCCCTTATGAAAAAGAGGTGCCTCTCTGCCCTCACCAACATTCTGAGTGCCAG
CTCATCAGCCACTGGAAGGCAACATGACCAGGCTGCCCGCCTCCTGGTTCTGCCAAG
TTCTCCCTGGAGACTGAAGTCGACCTCAGGAAGCCCCTAGAGAACCTGGGAATGACCGAC
ATGTTTCAGACAGTTTCAGGCTGACTTCAGGAGTCTTTCAGACCAAGAGCCTCTCCAGTC
GGCAGGCGCTGCAGAAAAGTGAAGATCGAGGTGAACGAGAGTGGCACGGTGGCCTCCTCA
TCCACAGTGTATAGTCTCAGCCCGCATGGCCCCGAGGAGATCATCATGGACAGACCC
TTCTCTTTGTGGTCCGGCACAACCCACAGGAACAGTCTTTTCATGGGCCAAGTGATG
GAACCCTGA

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Clone variation with respect to NM_000602.3



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_000602 unedited TAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCAAGAGCGCTGTCAAGAA GACCCACACGCCCCCTCCAGCAGCTGAATTCCTGCAGCTCAGCAGCCGCCGCGCCAGAGCA GGACGAACCGCCAATCGCAAGGCACCTCTGAGAACTTCAGGATGCAGATGTCTCCAGCCC TCACCTGCCTAGTCTGGGCCTGGCCCTTGTCTTTGGTGAAGGGTCTGCTGTGCACCATC CCCCATCTACGTGGCCACCTGGCCTCAGACTTCGGGGTGAGGGTGTTCAGCAGGTGG CGCAGGCCTCCAAGGACCACAAGTGGTTTTCTCACCTATGGGGTGGCCTCGGTGTTGG CCATGCTCCAGCTGACAACAGGAGGAGAAACCCAGCAGCAGATTCAAGCAGCTATGGGAT TCAAGATTGATGACAAGGCATGGCCCCGCCCTCCGGCATCTGTACAAGGAGCTCATGG GGCCATGGAACAAGGATGAGATCAGCACACAGACGCGATCTTCGTCCAGCGGGATCTGA AGCTGGTCCAGGGCTTCATGCCCACTTCTTCAGGCTGTTCCGGAGCACGGTCAAGCAAG TGGACTTTTCAGAGGTGGAGAGCCAGATTCATCATCAATGACTGGGTGAAGACACACA CAAAAGGTATGATCAGCAACTTGCTTGGGAAAGGAGCCGTGNACCAGCTGACACGGCTGG TGCTGGTGAATGCCCTCTACTTCAGGCCAGTGAAGACTCCCTTCCCGACTCAGCACCC ACCGCCGCTCTTCAAAATCAGACGCAGCACTGTCTCTGTGCCATGATGGCTCANAACC ACAGNNTCACTATACTGAGTCCACCACGCCCGATGCCATACTACGACATCCTGNAACTG CCTACCACGGGACACCCTCAGCAGTNCATTGCTGCCCTTAGNAAAANGAGTGCTCTCT CTGC
Restriction Sites:	NotI-NotI
ACCN:	NM_000602
Insert Size:	3370 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:	<ol style="list-style-type: none"> 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_000602.1 , NP_000593.1

RefSeq Size:	2876 bp
RefSeq ORF:	1209 bp
Locus ID:	5054
UniProt ID:	<u>P05121</u>
Cytogenetics:	7q22.1
Domains:	SERPIN
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Complement and coagulation cascades, p53 signaling pathway
Gene Summary:	<p>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]</p>