

Product datasheet for **SC321095**

SERPINB4 (NM_002974) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SERPINB4 (NM_002974) Human Untagged Clone
Tag:	Tag Free
Symbol:	SERPINB4
Synonyms:	LEUPIN; PI11; SCCA-2; SCCA1; SCCA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_002974 edited
 GGGAGACACACAGCCTCTCTGCCACCTCTGCTTCTCTAGGAACACAGGAGTCCAG
 ATCACATCGAGTTCACCATGAATCACTCAGTGAAGCCAACACCAAGTTCATGTTTCGATC
 TGTTCCAAACAGTTCAGAAAATCAAAAGAGAACAACATCTTCTATTCCCCTATCAGCATCA
 CATCAGCATTAGGGATGGTCCTCTTAGGAGCCAAGACAACACTGCACAACAAATTAGCA
 AGGTTCTTCACTTTGATCAAGTACAGAGAACCACAGAAAAAGCTGCAACATATCATG
 TTGATAGGTCAGGAAATGTTTATCACCAGTTTCAAAGCTTCTGACTGAATCAACAAAT
 CCACTGATGCATATGAGCTGAAGATCGCCAACAAGCTCTTCGGAGAAAAGACGTATCAAT
 TTTTACAGGAATATTTAGATGCCATCAAGAAATTTTACCAGACCAAGTGTGGAATCTACTG
 ATTTTGCAAAATGCTCCAGAAGAAAGTCGAAAGAAGATTAATCCTGGGTGAAAGTCAAA
 CGAATGAAAAAATTAACCACTATTTCTGATGGGACTATTGGCAATGATACGACTG
 TTCTTGTGAACGCAATCTATTTCAAAGGGCAGTGGGAGAATAAATTTAAAAAGAAAAACA
 CTAAGAGGAAAAATTTGGCCAAACAAGAATACATACAAATCTGTACAGATGATGAGGC
 AATACAATTCCTTAATTTTGCCTTGTGGAGGATGTACAGGCCAAGTCTGGAATAC
 CATAAAAGGCAAGATTAAGCATGATTGTGCTGCTGCCAAATGAAATCGATGGTCTGC
 AGAAGCTTGAAGAGAACTCACTGCTGAGAAATGATGGAATGGACAAGTTTGCAGAATA
 TGAGAGAGACATGTGCGATTTACACTTACCTCGGTTCAAATGGAAGAGAGCTATGACC
 TCAAGGACACGTTGAGAACCATGGGAATGGTGAATATCTTCAATGGGGATGCAGACCTCT
 CAGGCATGACCTGGAGCCACGGTCTCTCAGTATCTAAAGTCTACACAAGGCCTTTGTGG
 AGGTCCTGAGGAGGGAGTGAAGCTGCAGCTGCCACCGTGTAGTAGTAGTCAATTAT
 CATCTCCTTCACTAATGAAGAGTCTGTTGTAATCACCTTTCTATTCTTATAAGGC
 AAAATAAGACCAACAGCATCCTCTTCTATGGCAGATTCTATCCCATAGATGCAATTAG
 TCTGCTACTCCATTTAGAAAATGTTACCTAGAGGTGTTCTGGTAACTGATTGCTGGCA
 ACAACAGATTCTTTGGCTCATATTTCTTTCTATCTCATCTTGATGATGATAGTCATCA
 TCAAGAATTTAATGATTAATAATAGCATGCCTTTCTCTTTCTTCTTAATAAGCCACATA
 TAAATGTACTTTTCTTCCAGAAAAATTTCCCTTGAGGAAAAATGTCCAAGATAAGATGA
 ATCATTAAATACCGTGTCTTCTAAATTTGAAATATAATTCTGTTTCTGACCTGTTTTAA
 TGAACCAACCAATCATACTTTCTTCAAATTTAGCAACCTAGAAACACACATTTCTT
 TGAATTTAGGTGATACCTAAATCCTTCTTATGTTTCTAAATTTTGTGATTCTATAAAACA
 CATCATCAATAAAATAATGAC : TAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAACCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_002974
Insert Size: 1800 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](#)

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:	<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:	<u>NM_002974.2</u> , <u>NP_002965.1</u>
RefSeq Size:	1736 bp
RefSeq ORF:	1173 bp
Locus ID:	6318
UniProt ID:	<u>P48594</u>
Cytogenetics:	18q21.33
Protein Families:	Druggable Genome, Secreted Protein
Gene Summary:	<p>The protein encoded by this gene is a member of the serpin family of serine protease inhibitors. The encoded protein is highly expressed in many tumor cells and can inactivate granzyme M, an enzyme that kills tumor cells. This protein, along with serpin B3, can be processed into smaller fragments that aggregate to form an autoantigen in psoriasis, probably by causing chronic inflammation. [provided by RefSeq, Jan 2017]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>