

## Product datasheet for **SC303256**

### **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-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_002974 edited  
 GGGAGACACACAGCCTCTCTGCCACCTCTGCTTCTCTAGGAACACAGGAGTCCAG  
 ATCACATCGAGTTCACCATGAATCACTCAGTGAAGCCAACACCAAGTTCATGTTTCGATC  
 TGTTCCAAACAGTTCAGAAAATCAAAAGAGAACAACATCTTCTATTCCCCTATCAGCATCA  
 CATCAGCATTAGGGATGGTCCTCTTAGGAGCCAAGACAACACTGCACAACAAATTAGCA  
 AGGTTCTTCACTTTGATCAAGTCACAGAGAACCACAGAAAAAGCTGCAACATATCATG  
 TTGATAGGTCAGGAAATGTTTATCACCAGTTTCAAAAGCTTCTGACTGAATCAACAAAT  
 CCACTGATGCATATGAGCTGAAGATCGCCAACAAGCTCTTCGGAGAAAAGACGTATCAAT  
 TTTTACAGGAATATTTAGATGCCATCAAGAAATTTTACCAGACCAAGTGTGGAATCTACTG  
 ATTTTGCAAATGCTCCAGAAGAAAGTCGAAAGAAGATTAATCCTGGGTGAAAGTCAAA  
 CGAATGAAAAAATTAACCACTATTTCTGATGGGACTATTGGCAATGATACGACTG  
 TTCTTGTGAACGCAATCTATTTCAAAGGGCAGTGGGAGAATAAATTTAAAAAGAAAAACA  
 CTAAGAGGAAAAATTTGGCCAAACAAGAATACATACAAATCTGTACAGATGATGAGGC  
 AATACAATTCCTTAATTTTGCCTTGTGGAGGATGTACAGGCCAAGTCTGGAATAC  
 CATAAAAGGCAAGATCTAAGCATGATTGTGCTGCTGCCAAATGAAATCGATGGTCTGC  
 AGAAGCTTGAAGAGAACTCACTGCTGAGAAATGATGGAATGGACAAGTTTGCAGAATA  
 TGAGAGAGACATGTGCGATTTACACTTACCTCGGTTCAAAATGGAAGAGAGCTATGACC  
 TCAAGGACACGTTGAGAACCATGGGAATGGTGAATATCTTCAATGGGGATGCAGACCTCT  
 CAGGCATGACCTGGAGCCACGGTCTCTCAGTATCTAAAGTCTACACAAGGCCTTTGTGG  
 AGGTCCTGAGGAGGGAGTGAAGCTGCAGCTGCCACCGCTGTAGTAGTAGTCAATTAT  
 CATCTCCTTCACTAATGAAGAGTTCTGTTGTAATCACCTTTCTATTCTTATAAGGC  
 AAAATAAGACCAACAGCATCCTCTTCTATGGCAGATTCTATCCCATAGATGCAATTAG  
 TCTGCTACTCCATTTAGAAAATGTTACCTAGAGGTGTTCTGGTAACTGATTGCTGGCA  
 ACAACAGATTCTCTGGCTCATATTTCTTTCTATCTCATCTTGATGATGATAGTCATCA  
 TCAAGAATTTAATGATTAATAATAGCATGCCTTTCTCTTTCTCTTAATAAGCCACATA  
 TAAATGTACTTTTCTTCCAGAAAAATTTCCCTTGAGGAAAAATGTCCAAGATAAGATGA  
 ATCATTTAATACCGTGTCTTCTAAATTTGAAATATAATTCTGTTTCTGACCTGTTTTAA  
 TGAACCAACCAATCATACTTTCTTCAAATTTAGCAACCTAGAAACACACATTTCTT  
 TGAATTTAGGTGATACCTAAATCCTTCTTATGTTTCTAAATTTTGTGATTCTATAAAACA  
 CATCATCAATAAAATAATGAC : TAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
 AAAAAAAAAAAAAACCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_002974  
**Insert Size:** 1173 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](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](#)

<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_002974.3</a>
<b>RefSeq Size:</b>	1787 bp
<b>RefSeq ORF:</b>	1173 bp
<b>Locus ID:</b>	6318
<b>UniProt ID:</b>	<a href="#">P48594</a>
<b>Cytogenetics:</b>	18q21.33
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>MW:</b>	44.9 kDa
<b>Gene Summary:</b>	<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>