

## Product datasheet for SC335670

### SERPINB4 (NM\_175041) Human Untagged Clone

#### Product data:

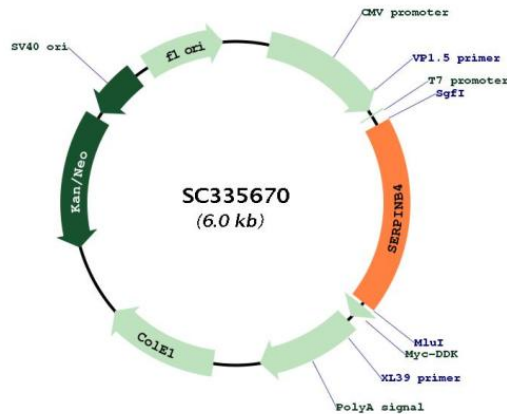
Product Type:	Expression Plasmids
Product Name:	SERPINB4 (NM_175041) Human Untagged Clone
Tag:	Tag Free
Symbol:	SERPINB4
Synonyms:	LEUPIN; PI11; SCCA-2; SCCA1; SCCA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335670 representing NM_175041. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAATCACTCAGTGAAGCCAACCAAGTTCATGTTTCGATCTGTTCCAACAGTTCAGAAAAATCAAAA
GAGAACAACATCTTCTATTCCCTATCAGCATCACATCAGCATTAGGGATGGTCTCTTAGGAGCCAAA
GACAACACTGCACAACAATTAGCAAGTTCCTCACTTTGATCAAGTACAGAGAACACCACAGAAAAA
GCTGCAACATATCATGTTGATAGGTCAGGAAATGTTTCATCACCAGTTTCAAAGCTTCTGACTGAATTC
AACAAATCCACTGATGCATATGAGCTGAAGATCGCCAACAAGCTCTTCGGAGAAAAGACGTATCAATTT
TTACAGGAATATTTAGATGCCATCAAGAAATTTACCAGACCAGTGTGGAATCTACTGATTTTGCAAT
GCTCCAGAAGAAAAGTCGAAAGAAGATTAACCTCCTGGGTGGAAAGTCAAACGAATGAAAAATAAAAAC
CTATTTCTGATGGGACTATTGGCAATGATACGACTGGTTCTTGTGAACGCAATCTATTTCAAAGGG
CAGTGGGAGAATAAATTTAAAAAGAAAACACTAAAGAGGAAAAATTTGGCCAAACAAGGATGTACAG
GCCAAGGTCTCGAAATACCATACAAAGGCAAAGATCTAAGCATGATTGTGCTGCTGCCAATGAAATC
GATGGTCTGCAGAAGCTTGAAGAGAACTCACTGCTGAGAAATGATGGAATGGACAAGTTTGCAGAA
ATGAGAGAGACATGTGTCGATTTACACTTACCTCGGTTCAAAATGGAAGAGAGCTATGACCTCAAGGAC
ACGTTGAGAACCATGGGAATGGTGAATATCTTCAATGGGGATGCAGACCTCTCAGGCATGACCTGGAGC
CACGGTCTCAGTATCTAAAGTCTACACAAGGCCTTTGTGGAGTCACTGAGGAGGGAGTGGAAAGCT
GCAGTGCCACCCTGTAGTAGTAGTCGAATTATCATCTCCTTCAACTAATGAAGAGTTCTGTTGTAA
CACCTTTCTATTCTTCATAAGGCAAAATAAGACCAACAGCATCCTCTTCTATGGCAGATTCTCATCC
CCATAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_175041

**Insert Size:** 1110 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).

**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\\_175041.1](#)

**RefSeq Size:** 1724 bp

**RefSeq ORF:** 1110 bp

**Locus ID:** 6318

**UniProt ID:** [P48594](#)

**Cytogenetics:** 18q21.33

**Protein Families:** Druggable Genome, Secreted Protein

**MW:** 42.3 kDa

**Gene Summary:**

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]

Transcript Variant: This variant (2) uses an alternate in-frame splice site, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.