

## Product datasheet for **RG237776**

### SERPINB4 (NM\_175041) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SERPINB4 (NM_175041) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SERPINB4
Synonyms:	LEUPIN; PI11; SCCA-2; SCCA1; SCCA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237776 representing NM_175041. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGAATCACTCAGTGAAGCCAACCAAGTTCATGTTTCGATCTGTTCCAACAGTTCAGAAAAATCAAAA
GAGAACAACATCTTCTATTCCCTATCAGCATCACATCAGCATTAGGGATGGTCTCTTAGGAGCCAAA
GACAACACTGCACAACAAATTAGCAAGTTCCTCACTTTGATCAAGTCACAGAGAACACCACAGAAAAA
GCTGCAACATATCATGTTGATAGGTCAGGAAATGTTTCATCACCAGTTTCAAAGCTTCTGACTGAATTC
AACAAATCCACTGATGCATATGAGCTGAAGATCGCCAACAAGCTCTTCGGAGAAAAGACGTATCAATTT
TTACAGGAATATTTAGATGCCATCAAGAAATTTACCAGACCAGTGTGGAATCTACTGATTTTGCAAT
GCTCCAGAAGAAAAGTCGAAAGAAGATTAACCTCCTGGGTGGAAAAGTCAAACGAATGAAAAATAAAAAC
CTATTTCTGATGGGACTATTGGCAATGATACGACTGGTTCTTGTGAACGCAATCTATTTCAAAGGG
CAGTGGGAGAATAAATTTAAAAAGAAAACACTAAAGAGGAAAAATTTGGCCAAACAAGGATGTACAG
GCCAAGGTCTCGAAAATACCATACAAAGGCAAAGATCTAAGCATGATTGTGCTGCTGCCAAATGAAATC
GATGGTCTGCAGAAGCTTGAAGAGAACTCACTGCTGAGAAATGATGGAATGGACAAGTTTGCAGAAAT
ATGAGAGAGACATGTGTCGATTTACACTTACCTCGTTTCAAAATGGAAGAGAGCTATGACCTCAAGGAC
ACGTTGAGAACCATGGGAATGGTGAATATCTTCAATGGGGATGCAGACCTCTCAGGCATGACCTGGAGC
CACGGTCTCAGTATCTAAAGTCTACACAAGGCCTTTGTGGAGTCACTGAGGAGGGAGTGGAAAGCT
GCAGTGCCACCCTGTAGTAGTAGTCGAATTATCATCTCCTTCAACTAATGAAGAGTTCTGTTGTAAAT
CACCTTTCTATTCTTCATAAGGCAAAATAAGACCAACAGCATCTCTTCTATGGCAGATTCTCATCC
CCA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



[View online »](#)

**Protein Sequence:** >Peptide sequence encoded by RG237776  
 Blue=ORF Red=Cloning site Green=Tag(s)

MNSLSEANTKFMFDL FQQFRKSKENNIF YSPISITSALGMVLLGAKDNTAQQISKVLHFDQVTENTTEK  
 AATYHVD RSGNVHHQFQKLLTEFNKSTDAYELKIANKLFGEKTYQFLQEYLDAIKKFYQTSVESTDFAN  
 APEESRKKINSWVESQTNEKIKNLPDGTIGNDTTLVLVNAIYFKGQWENKFKKENTKEEFWPNKDVQ  
 AKVLEIPYKGDLSMIVLLPNEIDGLQKLEEKLTAEKLEWTS LQNMRETCVDLHLPRFKMEESYDLKD  
 TLR TMGMVNI FNGDADL SGM TWSHGL SVSKVLHKAFVEVTEEGVEAAAATAVVVVVELSSPSTNEEFCCN  
 HPFLFFIRQNKNTNSILFYGRFSSP  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_175041

**ORF Size:** 1107 bp

**OTI Disclaimer:** 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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).

**RefSeq:** [NM\\_175041.2](#)

**RefSeq Size:** 1724 bp

RefSeq ORF: 1110 bp

Locus ID: 6318

UniProt ID: [P48594](#)

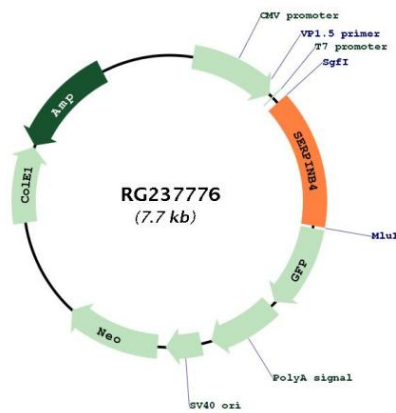
Cytogenetics: 18q21.33

Protein Families: Druggable Genome, Secreted Protein

MW: 42.7 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]

**Product images:**



Circular map for RG237776