

Product datasheet for RC237776

SERPINB4 (NM_175041) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SERPINB4 (NM_175041) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SERPINB4
Synonyms:	LEUPIN; PI11; SCCA-2; SCCA1; SCCA2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237776 representing NM_175041 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAATCACTCAGTGAAGCCAACCAAGTTCATGTTTCGATCTGTTCCAACAGTTCAGAAAATCAAAG
AGAACAACATCTTCTATCCCTATCAGCATCACATCAGCATTAGGGATGGTCTCTTAGGAGCCAAAGA
CAACACTGCACAACAAATTAGCAAGTTCCTTCTTTCATTTGATCAAGTCACAGAGAACCACAGAAAAGCT
GCAACATATCATGTTGATAGGTCAGGAAATGTTTCATCACCAGTTTCAAAAAGCTTCTGACTGAATCAACA
AATCCACTGATGCATATGAGCTGAAGATCGCCAACAAGCTCTTCGGAGAAAAGACGTATCAATTTTTACA
GGAATATTTAGATGCCATCAAGAAATTTACCAGACCAGTGTGGAATCTACTGATTTTGCAAATGCTCCA
GAAGAAAGTCGAAAGAAGATTAACCTCCTGGGTGAAAAGTCAAACGAATGAAAAATTAACAACTATTTT
CTGATGGGACTATTGGCAATGATACGACACTGGTCTTGTGAACGCAATCTATTTCAAAGGGCAGTGGGA
GAATAAATTTAAAAAGAAAACACTAAAGAGGAAAAATTTGGCCAAACAAGGATGTACAGGCCAAGGTC
CTGGAAATACCATACAAAGGCAAAGATCTAAGCATGATTGTGCTGCTGCCAAATGAAATCGATGGTCTGC
AGAAGCTTGAAGAGAACTCACTGCTGAGAAATGATGGAATGGACAAGTTTGAGAATATGAGAGAGAC
ATGTGTCGATTTACACTTACCTCGTTCAAATGGAAGAGAGCTATGACCTCAAGGACACGTTGAGAACC
ATGGGAATGTTGAATATCTTCAATGGGGATGCAGACCTCTCAGGCATGACCTGGAGCCACGGTCTCTCAG
TATCTAAAGTCTACACAAGGCCTTTGTGGAGGTCAGTGAAGGGAGTGGAAAGTGCAGCTGCCACCGC
TGTAGTAGTAGTCGAATTATCATCTCCTTCAACTAATGAAGAGTTCTGTTGTAATCACCTTTCTATTC
TTCATAAGGCAAATAAGACCAACAGCATCCTCTTCTATGGCAGATTCTCATCCCCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237776 representing NM_175041
Red=Cloning site Green=Tags(s)

MNSLSEANTKFMFDL FQQFRKSKENNIF YSPISITSALGMVLLGAKDNTAQQISKVLHFDQVTENTTEKA
 ATYHVDRSGNVVHHQFQKLLTEFNKSTDAYELKIANKLFGEKTYQFLQEYLDAIKFFYQTSVESTDFANAP
 EESRKKINSWVESQTNEKIKNLPDGTIGNDTTLVLVNAIYFKGQWENKFKKENTKEEFWPNKDVQAKV
 LEIPYKGDLSMIVLLPNEIDGLQKLEELTAEKLEWTSLQNMRETCDLHLPFRKMEESYDLKDTLRT
 MGMVNI FNGDADLSGMTWSHGLSVSKVLHKA FVEVTEEGVEAAAAATAVVVVELSSPSTNEEFCCNHPFLF
 FIRQNKNTSILFYGRFSSP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

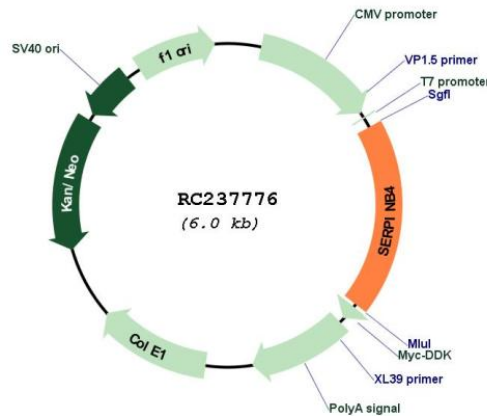
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



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).
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_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]