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Product datasheet for RC233927

SERPINB6 (NM_001195291) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SERPINB6 (NM_001195291) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SERPINB6
Synonyms:	CAP; DFNB91; MSTP057; PI-6; PI6; PTI; SPI3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC233927 representing NM_001195291
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTGCCATCATGGATGTTCTCGCAGAAGCAAATGGCACCTTTGCCTTAAACCTTTTGAAAACGCTGG
GTAAAGACAACTCGAAGAATGTGTTTTTCTCACCCATGAGCATGTCCTGTGCCCTGGCCATGGTCTACAT
GGGGGCAAAGGGAAACACCGCTGCACAGATGGCCCAGATACTTTCTTTCAATAAAAGTGGCGGTGGTGGA
GACATCCACCAGGGCTTCCAGTCTCTTCTCACCGAAGTGAACAAGACTGGCACGCAGTACTTGCTTAGGA
TGGCCAACAGGCTCTTTGGGGAAAAGTCTTGTGATTTCCTCTCATCTTTTAGAGATTCCTGCCAAAAATT
CTACCAAGCAGAGATGGAGGAGCTTGACTTTATCAGCGCCGTAGAGAAGTCCAGAAAACACATAAACACC
TGGGTAGCTGAAAAGACAGAAGGTAAAATTGCGGAGTTGCTCTCTCCGGGCTCAGTGGATCCATTGACAA
GGCTGGTTCTGGTGAATGCTGTCTATTTCAGAGGAAACTGGGATGAACAGTTTGACAAGGAGAACACCGA
GGAGAGACTGTTTAAAGTCAGCAAGAATGAGGAGAAACCTGTGCAAATGATGTTTAAGCAATCTACTTTT
AAGAAGACCTATATAGGAGAAATATTTACCCAAATCTTGGTGCTTCCATATGTTGGCAAGGAACTGAATA
TGATCATCATGCTTCCGGACGAGACCACTGACTTGAGAACGGTGGAGAAAGAACTCACTTACGAGAAGTT
CGTAGAATGGACGAGGCTGGACATGATGGATGAAGAGGAGGTGGAAGTGTCCCTCCCGCGGTTTAAACTA
GAGGAAAGCTACGACATGGAGAGTGTCCTGCGCAACCTGGGCATGACTGATGCCTTCGAGCTGGGCAAGG
CAGACTTCTCTGGAATGTCCCAGACAGACCTGTCTCTGTCCAAGGTCGTGCACAAGTCTTTTGTGGAGGT
CAATGAGGAAGGCACGGAGGCTGCAGCCGCCACAGCTGCCATCATGATGATGCGGTGTGCCAGATTCGTC
CCCCGCTTCTGCGCCGACCACCCCTTCCTTTTCTTCATCCAGCACAGCAAGACCAACGGGATTCTCTTCT
GCGGCCGCTTTTCCTCTCCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

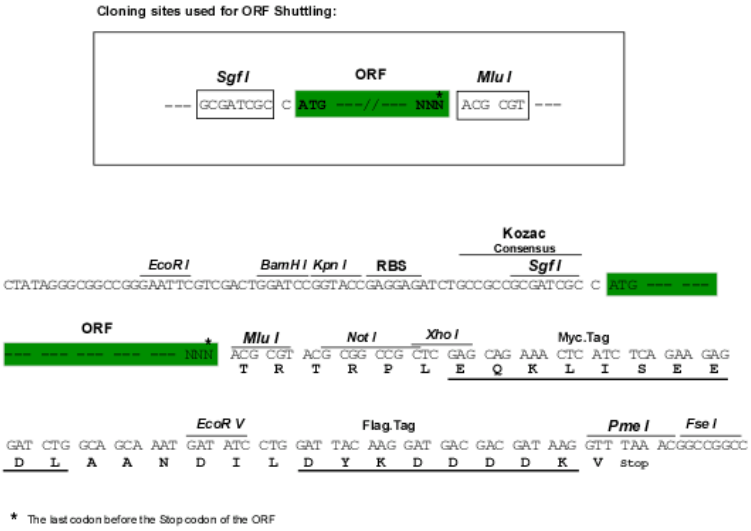
>RC233927 representing NM_001195291
Red=Cloning site Green=Tags(s)

MSAIMDVLAEANGTFALNLLKTLGKDNSKNVFFSPMSMSCALAMVYMGAKGNTAAQMAQILSFNKSGGGG
DIHQGFQSLLTEVNKTGTQYLLRMANRLFGEKSCDFLSSFRDSCQKFYQAEMEELDFISAVEKSRKHINT
WVAEKTEGKIAELLSPGSVDPLTRLVLVNAVYFRGNWDEQFDKENTEERLFKVSKNEEKPVQMMFKQSTF
KKTYIGEIFTQILVLPYVGKELNMIIMLPDETTDLRTVEKELTYEKFVEWTRLDMMDEEEVEVSLPRFKL
EESYDMESVLRNLGMTDAFELGKADFSGMSQTDLSLSKVVHKSFVEVNEEGTEAAAATAAIMMMRCARFV
PRFCADHPFLFFIQHSKTNGILFCGRFSSP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001195291

ORF Size: 1140 bp

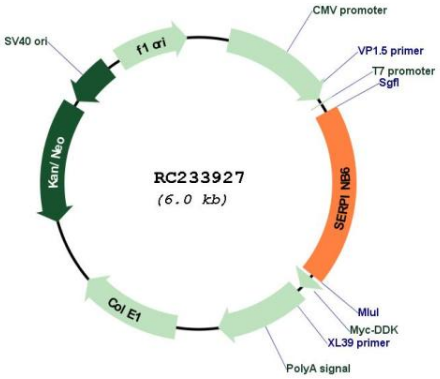
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	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_001195291.3
RefSeq Size:	2065 bp
RefSeq ORF:	1143 bp
Locus ID:	5269
UniProt ID:	P35237
Cytogenetics:	6p25.2
Protein Families:	Druggable Genome
MW:	43.5 kDa
Gene Summary:	The protein encoded by this gene is a member of the serpin (serine proteinase inhibitor) superfamily, and ovalbumin(ov)-serpin subfamily. It was originally discovered as a placental thrombin inhibitor. The mouse homolog was found to be expressed in the hair cells of the inner ear. Mutations in this gene are associated with nonsyndromic progressive hearing loss, suggesting that this serpin plays an important role in the inner ear in the protection against leakage of lysosomal content during stress, and that loss of this protection results in cell death and sensorineural hearing loss. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2010]

Product images:



Circular map for RC233927