

Product datasheet for RC233973

SERPINB6 (NM_001271823) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SERPINB6 (NM_001271823) 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:	>RC233973 representing NM_001271823 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCTCAAGGCAAAGAGGAACTTTAACTACAAATTGGCATTAAAGTCTGCCATCATGGATGTTCTCG
CAGAAGCAAATGGCACCTTTGCCTTAAACCTTTTAAAACGCTGGGTAAGACAACCTCGAAGAATGTGTT
TTTCTACCCATGAGCATGTCTGTGCCCTGGCCATGGTCTACATGGGGCAAAGGAAACACCGCTGCA
CAGATGGCCAGATACTTTCTTTCAATAAAAGTGGCGGTGGTGGAGACATCCACCAGGGCTTCCAGTCTC
TTCTACCGAAGTGAACAAGACTGGCACGCAGTACTTGTCTAGGATGGCCAACAGGCTCTTTGGGAAAA
GTCTTGATTTCTCTCATCTTTTAGAGATTCCTGCCAAAAATTCTACCAAGCAGAGATGGAGGAGCTT
GACTTTATCAGCGCCGTAGAGAAGTCCAGAAAACATAAACACCTGGGTAGCTGAAAAGACAGAAGGTA
AAATTGCGGAGTTGCTCTCTCCGGGCTCAGTGGATCCATTGACAAGGCTGGTTCTGGTGAATGCTGTCTA
TTTCAGAGGAAACTGGGATGAACAGTTTGAAGGAGAACACCGAGGAGAGACTGTTTAAAGTCAGCAAG
AATGAGGAGAACTGTGCAATGATGTTTAAAGCAATCTACTTTTAAAGAGCCTATATAGGAGAAATAT
TTACCCAAATCTTGGTGTCCATATGTTGGCAAGGAAGTGAATATGATCATCATGCTCCCGACGAGAC
CACTGACTTGAGAACGGTGGAGAAAGAACTCACTACGAGAAGTTCGTAAGTGGACGAGGCTGGACATG
ATGGATGAAGAGGAGGTGGAAGTGTCCCTCCCGGTTTTAACTAGAGGAAAGTACGACATGGAGAGT
TCCTGCGCAACTGGGCATGACTGATGCCTTCGAGCTGGGCAAGGCAGACTTCTCTGGAATGTCCCAGAC
AGACCTGTCTCTCCAAGTCTGTCACAAGTCTTTTGTGGAGGTCAATGAGGAAGGCACGGAGGCTGCA
GCCGCCACAGCTGCCATCATGATGATGCGGTGTGCCAGATTTCGTCGCCCGCTTCTGCGCCGACCACCCCT
TCCTTTTCTTCCAGCACAGCAAGACCAACGGGATTCTCTTCTGCGGCCGCTTTTCTCTCCG

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC233973 representing NM_001271823
 Red=Cloning site Green=Tags(s)

MSSRQRGNFNFKLAFKSAIMDVLAEANGTFALNLLKTLGKDNSKNVFFSPMSMSCALAMVYMGAKGNTAA
 QMAQILSFNKSGGGDIHQGFQSLLEVNKTGTQYLLRMANRLFGEKSCDFLSSFRDSCQKFYQAEMEEL
 DFISAVEKSRKHINTWVAEKTEGKIAELLSPGSVDPLTRLVLVNAVYFRGNWDEQFDKENTEERLFKVS
 NEEKPVQMMFKQSTFKKTYIGEIFTQILVLPYVGKELNMIIMLPDETTDLRTVEKELTYEKFVEWTRLDM
 MDEEEVEVSLPRFKLEESYDMESVLRNLGMDAFELGKADFSGMSQTDLSL SKVVHKS FVEVNEEGTEAA
 AATAAIMMRCARFVPRFCADHPFLFFIQHKTNGILFCGRFSSP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001271823

ORF Size: 1185 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_001271823.2](#)

RefSeq Size: 1588 bp

RefSeq ORF: 1188 bp

Locus ID: 5269

UniProt ID: [P35237](#)

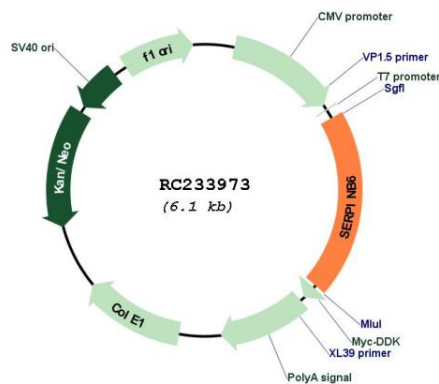
Cytogenetics: 6p25.2

Protein Families: Druggable Genome

MW: 45.3 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 RC233973