

## Product datasheet for RC233959

### SERPINB6 (NM\_001271822) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SERPINB6 (NM_001271822) 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:	>RC233959 representing NM_001271822 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGCGGGCAGAGCCTCCCGGCCACAGGTCTGCCATCATGGATGTTCTCGCAGAAGCAAATGGCA  
CCTTTGCCTTAAACCTTTTAAAAACGCTGGGTAAGACAACCTCGAAGAATGTGTTTTCTCACCCATGAG  
CATGTCCTGTGCCCTGGCCATGGTCTACATGGGGCAAAGGAAACACCGCTGCACAGATGGCCAGATA  
CTTTCTTCAATAAAAGTGGCGGTGGTGGAGACATCCACCAGGGCTTCCAGTCTCTCTCACCGAAGTGA  
ACAAGACTGGCAGCAGTACTTGCTTAGGATGGCCAACAGGCTCTTTGGGAAAAGTCTTGTGATTTCT  
CTCATCTTTAGAGATTCTGCCAAAAATCTACCAAGCAGAGATGGAGGAGCTTGACTTTATCAGCGCC  
GTAGAGAAGTCCAGAAAACATAAAACCTGGGTAGCTGAAAAGACAGAAGGTAATGCGGAGTTGC  
TCTCTCCGGCTCAGTGGATCCATTGACAAGGCTGGTTCTGGTGAATGCTGTCTATTTACAGGAAACTG  
GGATGAACAGTTTGACAAGGAGAACCACCGAGGAGAGACTGTTAAAGTCAGCAAGAATGAGGAGAAACCT  
GTGCAATGATGTTAAGCAATCTACTTTAAGAAGACCTATATAGGAGAAAATTTACCCAAATCTTGG  
TGCTTCCATATGTTGGCAAGGAAGTGAATATGATCATCATGCTCCGGACGAGACCCTGACTTGAGAAC  
GGTGGAGAAAAGAACTCACTTACGAGAAGTTCGTAAGTGGACGAGGCTGGACATGATGGATGAAGAGGAG  
GTGGAAGTGTCCCTCCCGGTTTAAACTAGAGGAAAGCTACGACATGGAGAGTGCCTGCGCAACCTGG  
GCATGACTGATGCCTTCGAGCTGGCAAGGCAGACTTCTCTGGAATGTCCAGACAGACCTGTCTCTGTC  
CAAGGTCGTGCACAAGTCTTTGTGGAGGTCAATGAGGAAGGCACGGAGGCTGCAGCCGCCACAGCTGCC  
ATCATGATGATGCGGTGTGCCAGATTCGTCGCCGCTTCTGCGCCGACCACCCCTTCTTTTCTTCATCC  
AGCACAGCAAGACCAACGGGATTCTTCTGCGGCCGCTTTCTCTCCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC233959 representing NM\_001271822  
 Red=Cloning site Green=Tags(s)

MGAAQSLPGHRSAIMDVLAENGTFALNLLKTLGKDNSKNVFFSPMSMSCALAMVYMGAKGNTAAQMAQI  
 LSFNKSGGGDIHQGFQSLLEVNKTGTQYLLRMANRLFGEKSCDFLSSFRDSCQKFYQAEMEELDFISA  
 VEKSRKHINTWVAEKTEGKIAELLSPGSVDPLTRLVLNAVYFRGNWDEQFDKENTEERLFKVSKNEEKP  
 VQMMFKQSTFKKTYIGEIFTQILVLPYVGKELNMIIMLPDETTDLRTVEKELTYEKFVEWTRLDMMDDEE  
 VEVSLPRFKLEESYDMSVLRNLGMTDAFELGKADFSGMSQTDLSLSKVVHKSFVEVNEEGTEAAAATAA  
 IMMRCARFVPRFCADHPFLFFIQHKTNGILFCGRFSSP

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\_001271822

**ORF Size:** 1170 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\\_001271822.2](#)

**RefSeq Size:** 1492 bp

**RefSeq ORF:** 1173 bp

**Locus ID:** 5269

**UniProt ID:** [P35237](#)

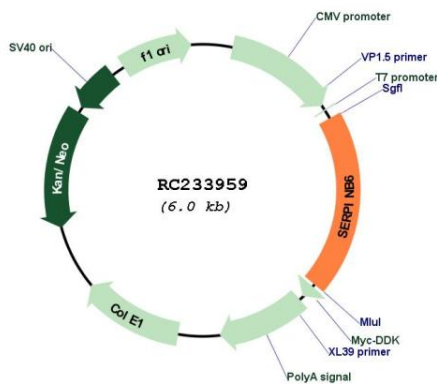
**Cytogenetics:** 6p25.2

**Protein Families:** Druggable Genome

**MW:** 44.4 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 RC233959