

## Product datasheet for RC237836

### SERPINB6 (NM\_001297699) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SERPINB6 (NM_001297699) 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:	>RC237836 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

RCATGGATGTTCTCGCAGAAGCAAATGGCACCTTTGCCTTAAACCTTTTGAAAACACTGGGTAAAGACAA  
CTCGAAGAATGTGTTTTCTCACCCATGAGCATGTCTGTGCCCTGGCCATGGTCTACATGGGGGCAAAG  
GGAAACACCGCTGCACAGATGGCCAGATACTTTCTTTCAATAAAAAGTGGCGGTGGTGGAGACATCCACC  
AGGGCTCCAGTCTCTTCTCACCGAAGTGAACAAGACTGGCACGCAGTACTTGCTTAGGATGGCCAAACAG  
GCTCTTTGGGGAAAAGTCTTGATTTCTCTCATCTTTTAGAGATTCTGCCAAAAATTCTACCAAGCA  
GAGATGGAGGAGCTTACTTTATCAGCGCGTAGAGAAGTCCAGAAAACATAAACACCTGGGTAGCTG  
AAAAGACAGAAGGTAAAATTGCGGAGTTGCTCTCTCCGGCTCAGTGGATCCATTGACAAGGCTGGTTCT  
GGTGAATGCTGTCTATTTTCAGAGGAAAACCTGGGATGAACAGTTTGACAAGGAGAACACCGAGGAGACTG  
TTTAAAGTCAGCAAGAATGAGGAGAAAACCTGTGCAAAATGATGTTAAGCAATCTACTTTTAAAGAACCT  
ATATAGGAGAAATATTTACCCAAATCTTGGTCTTCCATATGTTGGCAAGGAACCTGAATATGATCATCAT  
GCTTCCGACGAGACCACTGACTTGAGAACGGTGGAGAAAAGAACTCACTTACGAGAAGTTCGTAGAATGG  
ACGAGGCTGGACATGATGGATGAAGAGGAGGTGGAAGTGTCCCTCCCGCGGTTTAACTAGAGGAAAAGCT  
ACGACATGGAGAGTGTCTGCGCAACCTGGGCATGACTGATGCCCTCGAGCTGGGCAAGGCAGACTTCTC  
TGGAATGTCCAGACAGACCTGTCTCTGTCCAAGGTCGTGCACAAGTCTTTTGTGGAGGTCAATGAGGAA  
GGCACGGAGGCTGCAGCCGCCACAGCTGCCATCATGATGATGCGGTGTGCCAGATTTCGTCGCCCGTCTCT  
GCGCCGACCACCCTTCTTTTCTTATCCAGCACAGCAAGACCAACGGGATTCTCTTCTGCGGCCGCTT  
TTCCTCTCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237836 protein sequence  
 Red=Cloning site Green=Tags(s)

XWMFSQKQMAPLP\*TF\*KHWVKTRRMCFSHP\*ACPVPWPWSTWGQRETPLHRWPRYFLSIKVAVVETST  
 RASSLFSPK\*TRLARSTCLGWPTGSLGKSLVISSHLLLEIPAKNSTKQRWRSLLSAP\*RPENT\*TPG\*L  
 KRQKVKLRSCSLRAQWIH\*QGWFW\*MLSI SEETGMNSL TRRTPRRDCLKSARMRRNLCK\*CLSNLLRRP  
 I\*EKYLPKSWCFHMLARN\*I\*SSCFRTRPLT\*ERWRKNSL TRSS\*NGRGWT\*WMKRRWKPCSRGLN\*RKA  
 TTWRVSCATWA\*LMPSSWARQTSLECPRQTCLCPRRSTLLWRSMRKARRLQPPQLPS\*\*CGVPDSSPAS  
 APTTSPFSSSSTARPTGFSSAAAFPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg3815\\_e05.zip](https://cdn.origene.com/chromatograms/mg3815_e05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001297699

**ORF Size:** 1128 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\\_001297699.1](#), [NP\\_001284628.1](#)

**RefSeq Size:** 2217 bp

**RefSeq ORF:** 1131 bp

**Locus ID:** 5269

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

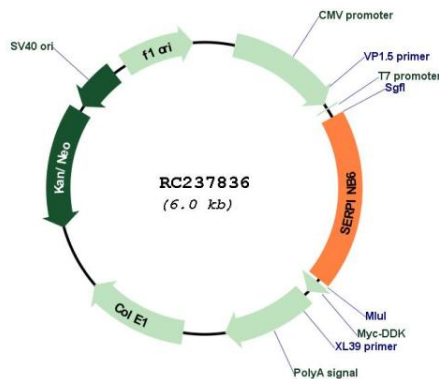
**Cytogenetics:** 6p25.2

**Protein Families:** Druggable Genome

**MW:** 42.6 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 RC237836