

## Product datasheet for **RG233973**

### **SERPINB6 (NM\_001271823) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SERPINB6 (NM\_001271823) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** SERPINB6  
**Synonyms:** CAP; DFNB91; MSTP057; PI-6; PI6; PTI; SPI3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG233973 representing NM\_001271823  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCTCAAGGCAAAGAGGAACTTTAACTACAAATTGGCATTAAAGTCTGCCATCATGGATGTTCTCG  
CAGAAGCAAATGGCACCTTTGCCTTAAACCTTTTGAAAACGCTGGGTAAGACAACCTCGAAGAATGTGTT  
TTTCTACCCATGAGCATGTCCTGTGCCCTGGCCATGGTCTACATGGGGCAAAGGGAAACACCGCTGCA  
CAGATGGCCAGATACTTTCTTTCAATAAAAGTGGCGGTGGTGGAGACATCCACCAGGGCTTCCAGTCTC  
TTCTCACCGAAGTGAACAAGACTGGCACGCACTTGTCTTAGGATGGCCAACAGGCTCTTTGGGAAAA  
GTCTTGATTTCTCTCATCTTTTAGAGATTCCTGCCAAAAATTCTACCAAGCAGAGATGGAGGAGCTT  
GACTTTATCAGCGCCGTAGAGAAGTCCAGAAAACATAAACACCTGGGTAGCTGAAAAGACAGAAGGTA  
AAATTGCGGAGTTGCTCTCTCCGGGCTCAGTGGATCCATTGACAAGGCTGGTTCTGGTGAATGCTGTCTA  
TTTCAGAGGAAACTGGGATGAACAGTTTGAAGGAGAACACCGAGGAGAGACTGTTTAAAGTCAGCAAG  
AATGAGGAGAACTGTGCAATGATGTTTAAAGCAATCTACTTTTAAAGAACCTATATAGGAGAAATAT  
TTACCCAAATCTTGGTGTCTCCATATGTTGGCAAGGAAGTGAATATGATCATCATGCTCCCGACGAGAC  
CACTGACTTGAGAACGGTGGAGAAAGAACTCACTACGAGAAGTTCGTAAGTGGACGAGGCTGGACATG  
ATGGATGAAGAGGAGGTGGAAGTGTCCCTCCCGGTTTTAACTAGAGGAAAGTACGACATGGAGAGT  
TCCTGCGCAACTGGGCATGACTGATGCCTTCGAGCTGGGCAAGGCAAGTCTCTGGAATGTCCCAGAC  
AGACCTGTCTCTCCAAGTCTGTCACAAGTCTTTTGTGGAGGTCAATGAGGAAGGCACGAGGCTGCA  
GCCGCCACAGCTGCCATCATGATGATGCGGTGTGCCAGATTTCGTCGCCCGCTTCTGCGCCGACCACCCCT  
TCCTTTTCTTCCAGCACAGCAAGACCAACGGGATTCTCTTCTGCGCCGCTTTTCTCTCCG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG233973 representing NM\_001271823  
 Red=Cloning site Green=Tags(s)

MSSRQRGNFNFKLAFKSAIMDVLAEANGTFALNLLKTLGKDNSKNVFFSPMSMSCALAMVYMGAKGNTAA  
 QMAQILSFNKS GGGDIHQGFQSLLEVNKTGTQYLLRMANRLFGEKSCDFLSSFRDSCQKFYQAEMEEL  
 DFISAVEKSRKHINTWVAEKTEGKIAELLSPGSVDPLTRLVLVNAVYFRGNWDEQFDKENTEERLFKVS  
 NEEKPVQMMFKQSTFKKTYIGEIFTQILVLPYVGKELNMIIMLPDETTDLRTVEKELTYEKFVEWTRLD  
 MDEEEVEVSLPRFKLEESYDMESVLRNLGMDAFELGKADFSGMSQTDLSLSKVVHKSFVEVNEEGTEAA  
 AATAAIMMRCARFVPRFCADHPFLFFIQHKTNGILFCGRFSSP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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

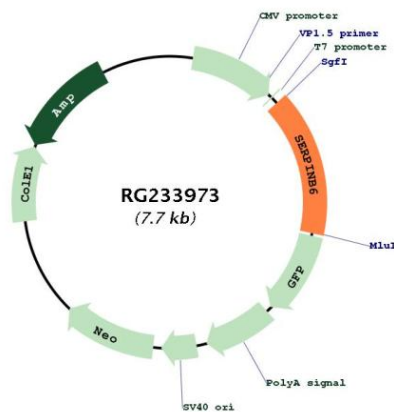
**UniProt ID:** [P35237](#)

**Cytogenetics:** 6p25.2

**Protein Families:** Druggable Genome

**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 RG233973