

Product datasheet for **RG233927**

SERPINB6 (NM_001195291) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SERPINB6 (NM_001195291) 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:	>RG233927 representing NM_001195291 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGTCGCCATCATGGATGTTCTCGCAGAAGCAAATGGCACCTTTGCCTTAAACCTTTTAAAAACGCTGG
 GTAAAGACAACCTCGAAGAATGTGTTTTCTCACCCATGAGCATGTCCTGTGCCCTGGCCATGGTCTACAT
 GGGGGCAAAGGAAACACCGCTGCACAGATGGCCAGATACTTTCTTCAATAAAAGTGGCGGTGGTGA
 GACATCCACCAGGGCTTCCAGTCTCTTCTACCGAAGTGAACAAGACTGGCACGCAGTACTTGCTTAGGA
 TGGCCAAACAGGCTCTTTGGGAAAAGTCTGTGATTTCTCTCATCTTTAGAGATTCCTGCCAAAAATT
 CTACCAAGCAGAGATGGAGGAGCTTGACTTTATCAGCGCCGTAGAGAAGTCCAGAAAACACATAAACACC
 TGGGTAGCTGAAAAGACAGAAGTAAAATTGCGGAGTTGCTCTCTCCGGGCTCAGTGGATCCATTGACAA
 GGCTGGTCTGGTGAATGCTGTCTATTTTCAGAGGAAACTGGGATGAACAGTTTGACAAGGAGAACCCGA
 GGAGAGACTGTTTAAAGTCAGCAAGAATGAGGAGAAACCTGTGCAATGATGTTTAAAGCAATCTACTTTT
 AAGAAGACCTATATAGGAGAAATATTTACCCAAATCTTGGTGCTTCCATATGTTGGCAAGGAAGTGAATA
 TGATCATCATGCTTCCGACGAGACCACTGACTTGAGAACGGTGGAGAAAGAACTCACTTACGAGAAGTT
 CGTAGAATGGACGAGGCTGGACATGATGGATGAAGAGGAGGTGGAAGTGTCCCTCCCGCGGTTTAACTA
 GAGGAAAGCTACGACATGGAGAGTGTCTGCGCAACCTGGGCATGACTGATGCCTTCGAGCTGGGCAAGG
 CAGACTTCTCTGGAATGTCCAGACAGACCTGTCTGTGCAAGGTCGTGCACAAGTCTTTGTGGAGGT
 CAATGAGGAAGGCACGGAGGCTGCAGCCGCCACAGCTGCCATCATGATGCGGTGTGCCAGATTCGTC
 CCCCCTTCTGCGCCGACCACCCCTTCTTTCTTCATCCAGCACAGCAAGACCAACGGATTCTCTTCT
 GCGGCCGCTTTTCTCTCCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG233927 representing NM_001195291
 Red=Cloning site Green=Tags(s)

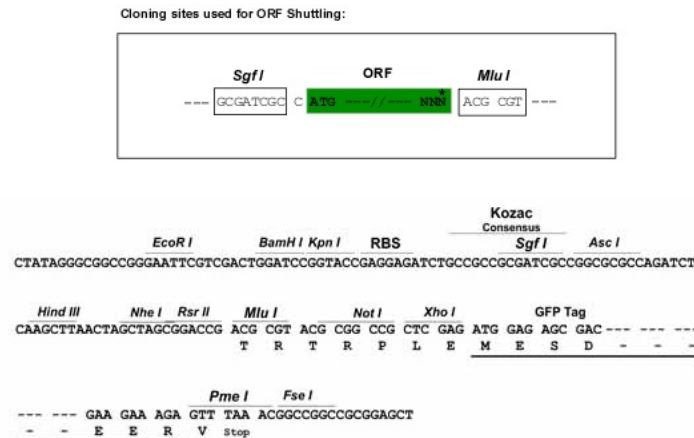
MSAIMDVLAANGTFALNLLKTLGKDNSKNVFFSPMSMSCALAMVYMGAKGNTAAQMAQILSFNKS GGGG
 DIHQGFQSLLEVNKTGTQYLLRMANRLFGEKSCDFLSSFRDSCQKFYQAEMEELDFISAVEKSRKHINT
 WVAEKTEGKIAELLSPGSVDPLTRLVLNAVYFRGNWDEQFDKENTEERLFKVSKEEKPQMMFKQSTF
 KKTYIGEIFTQILVLPYVGKELNMIIMLPDETTDLRTVEKELTYEKFVEWTRLDMMDEEEVEVSLPRFKL
 EESYDMESVLRNLGMTDAFELGKADFSGMSQTDLSLSKVYHKSFEVNEEGTEAAAAATAIMMMRCARFV
 PRFCADHPFLFFIQHKTNGILFCGRFSSP

TRTRPLE - GFP Tag - V

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

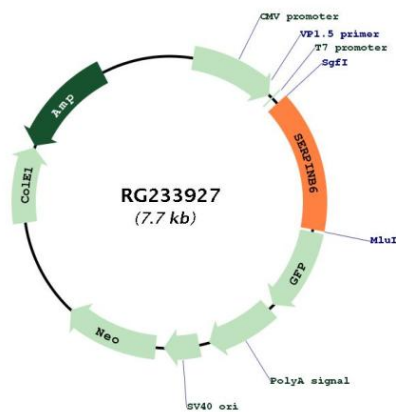
UniProt ID: [P35237](#)

Cytogenetics: 6p25.2

Protein Families: Druggable Genome

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 RG233927