

Product datasheet for **RG200668**

SERPINB6 (NM_004568) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SERPINB6 (NM_004568) 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:	>RG200668 representing NM_004568 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGATGTTCTCGCAGAAGCAAATGGCACCTTTGCCTTAAACCTTTGAAAACGCTGGGTAAGACAAC
CGAAGAATGTGTTTTCTACCCATGAGCATGTCCTGTGCCCTGGCCATGGTCTACATGGGGCAAAGG
AAACACCGCTGCACAGATGGCCAGATACTTTCTTCAATAAAAGTGGCGGTGGTGGAGACATCCACCAG
GGCTTCCAGTCTTCTCACCGAAGTGAACAAGACTGGCACGCAGTACTTGCTTAGGGTGGCCAACAGGC
TCTTTGGGAAAAGTCTTGATTTCTCTCATCTTTAGAGATTCCTGCCAAAAATTCTACCAAGCAGA
GATGGAGGAGCTTGACTTATCAGCGCCGTAGAGAAGTCCAGAAAACACATAAACACCTGGGTAGCTGAA
AAGACAGAAGGTAATTTGCGGAGTTGCTCTCCGGGCTCAGTGGATCCATTGACAAGGCTGGTCTGG
TGAATGCTGTCTATTTACAGGAAACTGGGATGAACAGTTTGACAAGGAGAACACCGAGGAGAGACTGTT
TAAAGTCAGCAAGAATGAGGAGAAACCTGTGCAATGATGTTTAAAGCAATCTACTTTTAAAGAACCTAT
ATAGGAGAAATATTTACCCAAATCTTGGTGCTTCATATGTTGGCAAGGAACTGAATATGATCATCATGC
TTCCGGACGAGACCACTGACTTGAGAACGGTGGAGAAAGAACTCACTTACGAGAAGTTCGTAGAATGGAC
GAGGCTGGACATGATGGATGAAGAGGAGGTGGAAGTGTCCCTCCCGCGGTTTAACTAGAGGAAAGCTAC
GACATGGAGAGTGTCTGCGCAACCTGGGCATGACTGATGCCTTCGAGCTGGGCAAGGCAGACTTCTCTG
GAATGTCCAGACAGACCTGTCTGTCCAAGGTCGTGCACAAGTCTTTGTGGAGTCAATGAGGAAGG
CACGGAGGCTGCAGCCGCCACAGCTGCCATCATGATGATGCGGTGTGCCAGATTCGTCCCCCGCTTCTGC
GCCGACCAACCCCTTCTTTCTTCATCCAGCACAGCAAGACCAACGGGATTCTCTTCTGCGGCCGCTTTT
CCTCTCCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200668 representing NM_004568
Red=Cloning site Green=Tags(s)

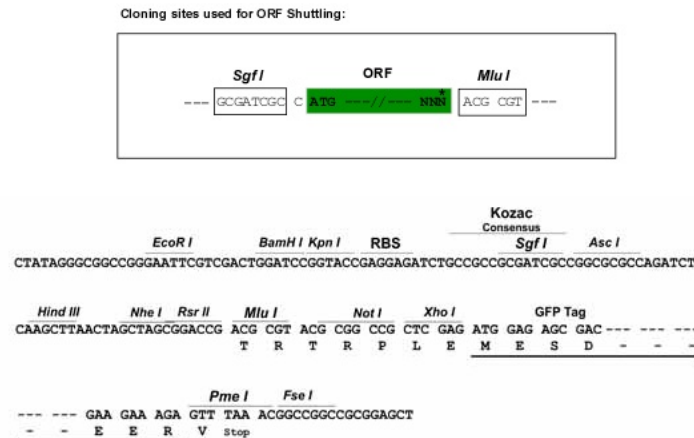
MDVLAEEANGTFALNLLKTLGKDNSKNVFFSPMSMSCALAMVYMGAKGNTAAQMAQILSFNKSGGGGDIHQ
GFQSLLEVNKTGTQYLLRVANRLFGEKSCDFLSSFRDSCQKFYQAEMEELDFISAVEKSRKHINTWVAE
KTEGKIAELLSPGSVDPLTRLVLNAVYFRGNWDEQFDKENTEERLFKVSKNEEKPVQMMFKQSTFKKTY
IGEIFTQILVLPYVGKELNMIIMLPDETDLRTVEKELTYEKFVEWTRLDMMDDEEEVEVSLPRFKLEESY
DMESVLRNLGMTDAFELGKADFSGMSQTDLSLSKVYHKSFEVNEEGTEAAAAATAAIMMRCARFVPRFC
ADHPFLFFIQHSKTNGILFCGRFSSP

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_004568

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_004568.2](#)

RefSeq Size: 1665 bp

RefSeq ORF: 1131 bp

Locus ID: 5269

UniProt ID: [P35237](#)

Cytogenetics: 6p25.2

Domains: SERPIN

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 RG200668