OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG233959

SERPINB6 (NM_001271822) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SERPINB6 (NM_001271822) 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:

>RG233959 representing NM_001271822
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGGCGGCGCAGAGCCTCCCGGGCCACAGGTCTGCCATCATGGATGTTCTCGCAGAAGCAAATGGCA
CCTTTGCCTTAAACCTTTTGAAAACGCTGGGTAAAGACAACTCGAAGAATGTGTTTTTCTCACCCATGAG
CATGTCCTGTGCCCTGGCCATGGTCTACATGGGGGCAAAGGGAAACACCGCTGCACAGATGGCCCAGATA
CTTTCTTTCAATAAAAGTGGCGGTGGTGGAGACATCCACCAGGGCTTCCAGTCTCTTCTCACCGAAGTGA
ACAAGACTGGCACGCAGTACTTGCTTAGGATGGCCAACAGGCTCTTTGGGGAAAAGTCTTGTGATTTCCT
CTCATCTTTTAGAGATTCCTGCCAAAAATTCTACCAAGCAGAGATGGAGGAGCTTGACTTTATCAGCGCC
GTAGAGAAGTCCAGAAAACACATAAACACCTGGGTAGCTGAAAAGACAGAAGGTAAAATTGCGGAGTTGC
TCTCTCCGGGCTCAGTGGATCCATTGACAAGGCTGGTTCTGGTGAATGCTGTCTATTTCAGAGGAAACTG
GGATGAACAGTTTGACAAGGAGAACACCGAGGAGAGACTGTTTAAAGTCAGCAAGAATGAGGAGAAACCT
GTGCAAATGATGTTTAAGCAATCTACTTTTAAGAAGACCTATATAGGAGAAATATTTACCCAAATCTTGG
TGCTTCCATATGTTGGCAAGGAACTGAATATGATCATCATGCTTCCGGACGAGACCACTGACTTGAGAAC
GGTGGAGAAAGAACTCACTTACGAGAAGTTCGTAGAATGGACGAGGCTGGACATGATGGATGAAGAGGAG
GTGGAAGTGTCCCTCCCGCGGTTTAAACTAGAGGAAAGCTACGACATGGAGAGTGTCCTGCGCAACCTGG
GCATGACTGATGCCTTCGAGCTGGGCAAGGCAGACTTCTCTGGAATGTCCCAGACAGACCTGTCTCTGTC
CAAGGTCGTGCACAAGTCTTTTGTGGAGGTCAATGAGGAAGGCACGGAGGCTGCAGCCGCCACAGCTGCC
ATCATGATGATGCGGTGTGCCAGATTCGTCCCCCGCTTCTGCGCCGACCACCCCTTCCTTTTCTTCATCC
AGCACAGCAAGACCAACGGGATTCTCTTCTGCGGCCGCTTTTCCTCTCCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

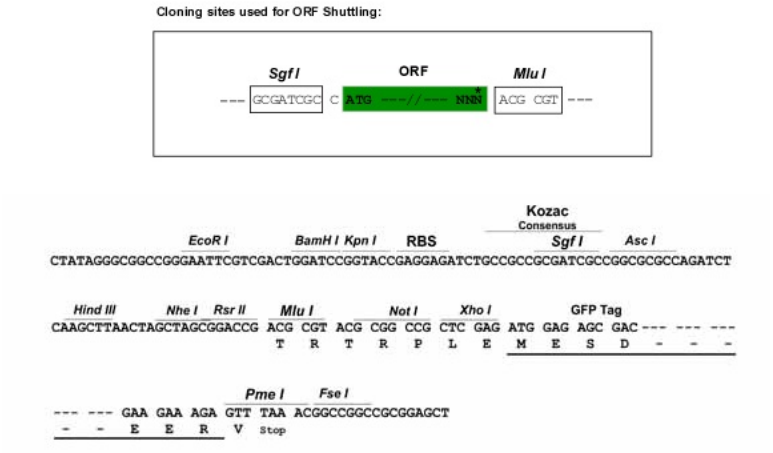
>RG233959 representing NM_001271822
Red=Cloning site Green=Tags(s)

MGAAQSLPGHRSAIMDVLAEANGTFALNLLKTLGKDNSKNVFFSPMSMSCALAMVYMGAKGNTAAQMAQI
LSFNKSGGGGDIHQGFQSLLTEVNKTGTQYLLRMANRLFGEKSCDFLSSFRDSCQKFYQAEMEELDFISA
VEKSRKHINTWVAEKTEGKIAELLSPGSVDPLTRLVLVNAVYFRGNWDEQFDKENTEERLFKVSKNEEKP
VQMMFKQSTFKKTYIGEIFTQILVLPYVGKELNMIIMLPDETTDLRTVEKELTYEKFVEWTRLDMMDEEE
VEVSLPRFKLEESYDMESVLRNLGMTDAFELGKADFSGMSQTDLSLSKVVHKSFVEVNEEGTEAAAATAA
IMMMRCARFVPRFCADHPFLFFIQHSKTNGILFCGRFSSP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

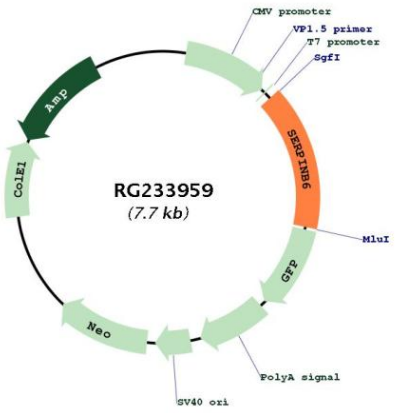
UniProt ID: P35237

Cytogenetics: 6p25.2

Protein Families: Druggable Genome

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 RG233959