

Product datasheet for **RG237837**

SERPINB6 (NM_001297700) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SERPINB6 (NM_001297700) 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:	>RG237837 representing NM_001297700. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGATGTTCTCGCAGAAGCAAATGGCACCTTTGCCTTAAACCTTTTGAAAACTGGGTAAGACAAC
TCGAAGAATGTGTTTTCTCACCATGAGCATGCTGTGCCCTGGCCATGGTCTACATGGGGCAAAG
GGAAACACCGCTGCACAGATGGCCAGATACTTTCTTTCAATAAAAGTGGCGGTGGTGGAGACATCCAC
CAGGGCTTCCAGTCTTCTCACCGAAGTGAACAAGACTGGCACGCAGTACTTGCTTAGGATGGCCAAC
AGGCTCTTTGGGAAAAGTCTTGATTTCTCTCATCTTTAGAGATTCCTGCCAAAAATCTACCAA
GCAGAGATGGAGGAGCTTGACTTTATCAGCGCCGTAGAGAAGTCCAGAAAACACATAAACACCTGGGTA
GCTGAAAAGACAGAAGGTAAAATTGCGGAGTTGCTCTCTCCGGGCTCAGTGGATCCATTGACAAGGCTG
GTTCTGGTGAATGCTGTCTATTTAGAGGAAAAGTGGGATGAACAGTTTGACAAGGAGAACACCGAGGAG
AGACTGTTAAAGTCAGCAAGAATGAGGAGAAAACCTGTGCAATGATGTTAAGCAATCTACTTTTAAAG
AAGACCTATATAGGAGAAATATTTACCCAAATCTTGGTGCTTCCATATGTTGGCAAGGAACTGAATATG
ATCATCATGCTTCCGGACGAGACCCTGACTTGAGAACGGTGGAGAAAGAACTCACTTACGAGAAGTTC
GTAGAAATGGACGAGGCTGGACATGATGGATGAAGAGGAGTGGAAAGTGTCCCTCCCGCGGTTTAACTA
GAGGAAAGCTACGACATGGAGAGTGTCTGCGCAACCTGGGCATGACTGATGCCTTCGAGCTGGGCAAG
GCAGACTTCTCTGGAATGTCCCAGACAGACCTGTCTGTCCAAGTCTGCACAAGTCTTTTGTGGAG
GTCAATGAGGAAGCACGAGGCTGCAGCCGCCACAGCTGCCATCATGATGATGCGGTGTGCCAGATTC
GTCCCGGCTTCTGCGCCGACCACCCCTTCTTTTCTTATCCAGCACAGCAAGACCAACGGGATTCTC
TTCTGCGGCCGCTTTTCTCTCCG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



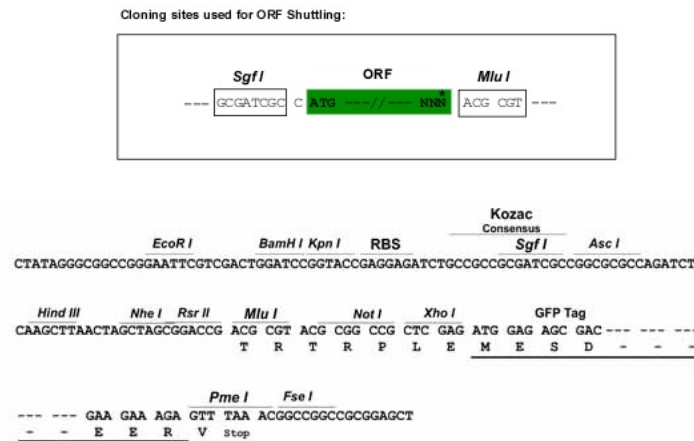
[View online »](#)

Protein Sequence: >Peptide sequence encoded by RG237837
 Blue=ORF Red=Cloning site Green=Tag(s)

MDVLAEANGTFALNLLKTLGKDNSKNVFFSPMSMSCALAMVYMGAKGNTAAQMAQILSFNKSGGGGDIH
 QGFQSLLEVNKTGTQYLLRMANRLFGEKSCDFLSSFRDSCQKFYQAEMEELDFISAVEKSRKHINTWV
 AEKTEGKIAELLSPGSDPLTRLVLVNAVYFRGNWDEQFDKENTEERLFKVSKNEEKPVQMMFKQSTFK
 KTYIGEIFTQILVLPYVGKELNMIIMLPDETTDLRTEKELTYEKFVWTRLDMMDEEEVEVSLPRFKL
 EESYDMEVLRNLGMTDAFELGKADFSGMSQTDLSLSKVVHKSFEVNEEGTEAAAAATAAIMMRCARF
 VPRFCADHPFLFFIQHSKTNGILFCGRFSSP
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001297700

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).

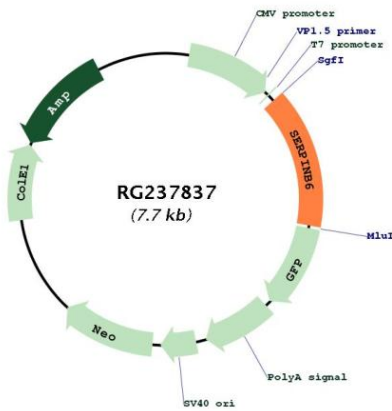
RefSeq: [NM_001297700.1](#), [NP_001284629.1](#)

RefSeq Size: 1873 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 RG237837