

Product datasheet for **RG233920**

SERPINB6 (NM_001271825) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | SERPINB6 (NM_001271825) 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: | >RG233920 representing NM_001271825 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGTTCTCGCAGAAGCAAATGGCACCTTTGCCTTAAACCTTTTGAAAACGCTGGGTAAGACAAC
CGAAGAATGTGTTTTCTACCCATGAGCATGTCTGTGCCCTGGCCATGGTCTACATGGGGCAAAGGG
AAACACCGCTGCACAGATGGCCAGATACTTTCTTCAATAAAAGTGGCGGTGGTGGAGACATCCACCAG
GGCTTCCAGTCTTCTCACCGAAGTGAACAAGACTGGCACGCAGTACTTGCTTAGGATGGCCAACAGGC
TCTTTGGGAAAAGTCTTGTGATTTCTCTCATCTTTAGAGATTCCTGCCAAAAATTCTACCAAGCAGA
GATGGAGGAGCTTGACTTATCAGCGCCGTAGAGAAGTCCAGAAAACACATAAACACCTGGGTAGCTGAA
AAGACAGAAGGTAATTTGCGGAGTTGCTCTCCTCCGGGCTCAGTGGATCCATTGACAAGGCTGGTCTGG
TGAATGCTGTCTATTTACAGGAAAAGTGGGATGAACAGTTTGACAAGGAGAACACCGAGGAGAGACTGTT
TAAAGTCAGCAAGAATGAGGAGAAAAGCTGTGCAATGATGTTTAAAGCAATCTACTTTTAAAGAACCTAT
ATAGGAGAAATATTTACCCAAATCTTGGTGCTCCATATGTTGGCAAGGAACTGAATATGATCATCATGC
TTCCGGACGAGACCCTGACTTGAGAACGGTGGAGAAAGAACTCACTTACGAGAAGTTTCTAGAAATGGAC
GAGGCTGGACATGATGGATGAAGAGGAGGTGGAAGTGTCCCTCCCGCGGTTTAACTAGAGGAAAGCTAC
GACATGGAGAGTGTCTCGCAACCTGGGCATGACTGATGCCTTCGAGCTGGGCAAGGCAGACTTCTCTG
GAATGTCCAGACAGACCTGTCTGTCCAAGGTCGTGCACAAGTCTTTTGTGGAGGTAATGAGGAAGG
CACGGAGGCTGCAGCCGCCACAGCTGCCATCATGATGATGCGGTGTGCCAGATTCTCCCGCTTCTG
GCCACCACCCTTCTTTTCTCATCCAGCACAGCAAGACCAACGGATTCTCTTCTGCGGCCGCTTTT
CCTCTCCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233920 representing NM_001271825
Red=Cloning site Green=Tags(s)

MDVLAEANGTFALNLLKTLGKDNSKNVFFSPMSMSCALAMVYMGAKGNTAAQMAQILSFNKSGGGGDIHQ
 GFQSLLEVNKTGTQYLLRMANRLFGEKSCDFLSSFRDSCQKFYQAEMEELDFISAVEKSRKHINTWVAE
 KTEGKIAELLSPGSVDPLTRLVLVNAVYFRGNWDEQFDKENTEERLFKVSKNEEKPVQMMFKQSTFKKTY
 IGEIFTQILVLPYVGKELNMIIMLPDETDLRTVEKELTYEKFVEWTRLDMMDDEEEVEVSLPRFKLEESY
 DMESVLRNLGMTDAFELGKADFSGMSQTDLSLSKVYVHKSFVEVNEEGTEAAAAATAIMMMRCARFVPRFC
 ADHPFLFFIQHSKTNGILFCGRFSSP

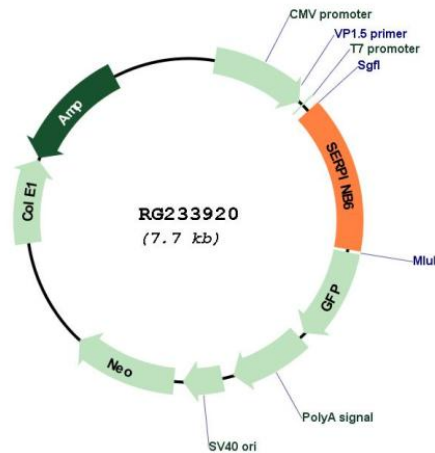
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001271825

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|-------------------------------|---|
| 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: | <ol style="list-style-type: none">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_001271825.2 |
| RefSeq Size: | 1576 bp |
| RefSeq ORF: | 1131 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] |