

## Product datasheet for **RG200645**

### **SERPINB9 (NM\_004155) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SERPINB9 (NM_004155) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SERPINB9
Synonyms:	CAP-3; CAP3; PI-9; PI9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200645 representing NM_004155 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAACCTTTCTAATGCAAGTGGTACTTTTGCATACGCCTTTAAAGATACTGTGTCAAGATAACC  
CTTCGCACAACGTGTTCTGTTCTCCTGTGAGCATCTCCTCTGCCCTGGCCATGGTTCTCTAGGGGCAA  
GGGAAACACCGCAACCCAGATGGCCAGGCACTGTCTTTAAACACAGAGGAAGACATTCATCGGCTTTT  
CAGTCGCTTCTCACTGAAGTGAACAAGGCTGGCACACAGTACCTGCTGAGAACGGCAACAGGCTCTTTG  
GAGAGAAAACCTTGTGAGTTCCTCTCAACGTTTAAAGGAATCCTGTCTTCAATTCTACCATGCTGAGCTGAA  
GGAGCTTTCTTTATCAGAGCTGCAGAAGAGTCCAGGAAACACATCAACACCTGGGTCTCAAAAAGACC  
GAAGGTAATAAGAGTTGTTGCCGGGTAGCTCAATTGATGCAGAAACAGGCTGGTTCTTGTCAATG  
CCATCTACTTCAAAGGAAAGTGAATGAACCGTTTACGAAACATACACAAGGAAATGCCCTTTAAAT  
AAACCAGGAGGAGCAAAGGCCAGTGCAGATGATGTATCAGGAGGCCACGTTTAAAGCTCGCCACGTGGGC  
GAGGTGCGCGCAGCTGCTGGAGCTGCCCTACGCCAGGAAGGAGCTGAGCCTGCTGGTGTCTGCCTG  
ACGACGGCGTGGAGCTCAGCACGGTGGAAAAAGTCTCACTTTGAGAACTCACAGCCTGGACCAAGCC  
AGACTGTATGAAGAGTACTGAGGTTGAAGTTCTCCTTCCAAAATTTAAACTACAAGAGGATTATGACATG  
GAATCTGTGCTTCGGCATTGGGAATTGTTGATGCCTTCCAACAGGGCAAGGCTGACTTGTGGCAATGT  
CAGCGGAGAGAGACCTGTGCTGTCCAAGTTCGTGCACAAGAGTTTGTGGAGGTGAATGAAGAAGGCAC  
CGAGGCAGCGGCAGCGTGCAGCTGCTTTGTAGTTGCAGAGTGTGCATGGAATCTGGCCCCAGGTTCTGT  
GCTGACCACCTTTCTTTTCTTCATCAGGCACAACAGAGCCAACAGCATTCTGTTCTGTGGCAGGTTCT  
CATCGCCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG200645 representing NM\_004155  
 Red=Cloning site Green=Tags(s)

METLSNASGTFAIRLLKILCQDNPSHNVFCSPVSISSALAMVLLGAKGNTATQMAQALSLNTEEDIHRAF  
 QSLLEVNKAGTQYLLRTANRLFGEKTCQFLSTFKESCLQFYHAELKELSFIRAAEESRKHINTWVSKKT  
 EGKIEELLPGSSIDAETRLVLVNAIYFKGKWNPEFDETYTREMPPFKINQEEQRPVQMMYQEATFKLAHVG  
 EVRAQLLELPYARKELSLLVLLPDDGVELSTVEKSLTFEKLTAWTKPDCMKSTEVEVLLPKFKLQEDYDM  
 ESVLRHLGIVDFAFQQKADLSAMSAERDLCLSKFVHKSFVEVNEEGTEAAAASSCFVVAECCMESGPRFC  
 ADHPFLFFIRHNRANSILFCGRFSSP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_004155

**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\\_004155.6](#)

**RefSeq Size:** 4121 bp

**RefSeq ORF:** 1131 bp

**Locus ID:** 5272

**UniProt ID:** [P50453](#)

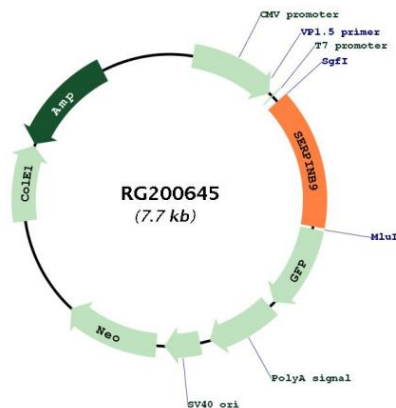
**Cytogenetics:** 6p25.2

**Domains:** SERPIN

**Protein Families:** Druggable Genome

**Gene Summary:** This gene encodes a member of the serine protease inhibitor family which are also known as serpins. The encoded protein belongs to a subfamily of intracellular serpins. This protein inhibits the activity of the effector molecule granzyme B. Overexpression of this protein may prevent cytotoxic T-lymphocytes from eliminating certain tumor cells. A pseudogene of this gene is found on chromosome 6. [provided by RefSeq, Mar 2012]

### Product images:



Circular map for RG200645