

Product datasheet for **MG206500**

Serpina1b (BC049255) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Serpina1b (BC049255) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Serpina1b
Synonyms:	PI2, Dom2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206500 representing BC049255 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGACTCCCTCCATCTCATGGGGTCTACTGCTTCTGGCAGGCCTGTGTTGCCTGGTCCCCAGCTTTCTGG
 CTGAGGATGTTTCAGGAGACAGACACCTCCAGAAGGATCAGTCCCCAGCCTCCCATGAGATCGCTACAAA
 CCTGGGAGACTTTGCAATCAGCCTATACCGGGAGCTGGTCCATCAGTCCAACACTTCCAACATCTTCTTC
 TCCCCAGTGAGCATTGCCACAGCCTTTGCTATGCTCTCCCTAGGGAGCAAGGGTGACACTCACACGCAGA
 TCCTAGAGGGCCTGCAGTTCAACCTCACACAAACATCGGAGGCTGACATCCACAAGTCTTCCAACACCT
 CCTCCAAACCCTCAACAGACCAGACAGTGAAGTGCAGTTGAGCACAGGCAATGGCCTCTTTGTCAACAAT
 GACCTGAAGCTGGTGGAGAAGTTTCTGGAAGAGGCCAAGAACCATTATCAGGCAGAGTCTTCTCTGTCA
 ACTTTGCAGAGTCAGAGGAGGCCAAGAAAGTGATTAATGATTTTGTGGAGAAGGGAACCCAAGGAAAGAT
 AGTTGAGGCAGTGAAAGAACTGGACCAAGACACAGTTTTCGCCCTGGCAAATTACATTCTTTTAAAGGC
 AAATGGAAGAAGCCATTCGATCCTGAGAACACTGAAGAAGCTGAGTTCACGTGGACAAGTCCACCACGG
 TGAAGGTGCCCATGATGACCCTCTCGGGCATGCTTGATGTGCACCATTCAGCACACTCTCCAGCTGGGT
 GCTGCTGATGGATTACGTGGGCAACGCCAGTGCTGTCTTCTCCTGCCCCAAGATGGGAAGATGCAGCAT
 CTGGAGCAAACCTCAGCAAGGAGCTCATCTCTAAGATCCTGCTAAACAGGCACAGAAGGTTAGTCCAGA
 TCCATATCCCCAGACTGTCCATCTCTGGAGACTATAACTTGAAGACACTCATGAGTCCACTGGGCATCAC
 CCGGATCTTCAACAATGGGGCTGACCTCTCCGGAATCACAGAGGAGAATGCTCCCCTGAAGCTCAGCAAG
 GCTGTGCATAAGGCTGTGCTGACCATCGATGAGACAGGAACAGAAGCTGCAGCAGCCACAGTCTTTGAAG
 CCGTTCTATGTCTATGCCCCCTATCCTGCGCTTCGACCACCCTTTCTTTTATAATATTTGAAGAACA
 CACTCAGAGCCCCATCTTTGTGGAAAAGTGGTAGATCCACACATAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


[View online »](#)

Protein Sequence: >MG206500 representing BC049255
 Red=Cloning site Green=Tags(s)

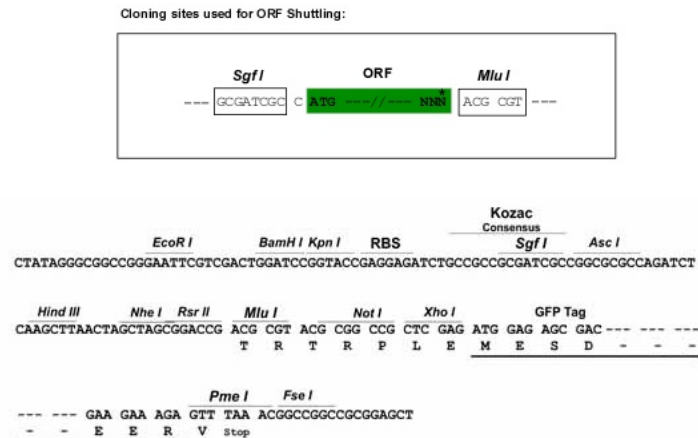
MTPSISWGLLLLAGLCCLVPSFLAEDVQETDTSQKDQSPASHEIATNLGDF AISLYREL VHQSNTSNIFF
 SPVSIATAFAMLSLGSKGDTHQTILEGLQFNLTQTSEADIHKS FQHLLQTLNRPDSELQLSTGNGLFVNN
 DLKLVEKFL EEAKNH YQAEVFSVNFAESEEAKKVINDFVEKGTQ GKIVEAVKELDQDTV FALANYILFKG
 KWKKPDPENTEEAEFHVDKSTTVKVPMTLSGMLDVHHCSTLSSVLLMDYVGNASAVFLLPEDGKMQH
 LEQTL SKELISKILLNRHRLVQIHIPRLSISGDYNLKTLMSP LGITRIFNNGADLSGITEENAPLKL SK
 AVHKAVLTIDETGTEAAAATVFEAVPMSMPPILRFDHPFLFIIFEHTQSPIFVGKVVDPTHK

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: BC049255

ORF Size: 1239 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC049255](#), [AAH49255](#)

RefSeq Size: 1589 bp

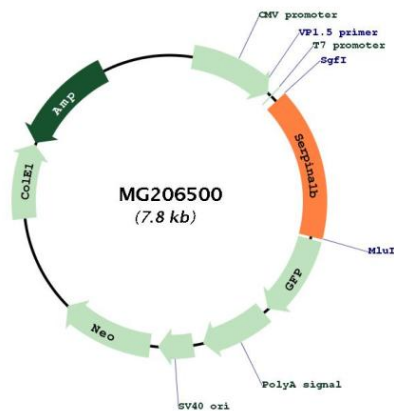
RefSeq ORF: 1241 bp

Locus ID: 20701

Cytogenetics: 12 52.98 cM

Gene Summary: Inhibitor of serine proteases. Its primary target is elastase, but it also has a moderate affinity for plasmin and thrombin.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG206500