

Product datasheet for **MR206500**

Serpina1b (BC049255) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Serpina1b (BC049255) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Serpina1b
Synonyms:	PI2, Dom2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206500 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGACTCCCTCCATCTCATGGGGTCTACTGCTTCTGGCAGGCCTGTGTTGCCTGGTCCCCAGCTTTCTGG
 CTGAGGATGTTTCAGGAGACAGACACCTCCAGAAGGATCAGTCCCCAGCCTCCCATGAGATCGCTACAAA
 CCTGGGAGACTTTGCAATCAGCCTATACCGGGAGCTGGTCCATCAGTCCAACACTTCCAACATCTTCTTC
 TCCCCAGTGAGCATTGCCACAGCCTTTGCTATGCTCTCCCTAGGGAGCAAGGGTGACACTCACACGCAGA
 TCCTAGAGGGCCTGCAGTTCAACCTCACACAAACATCGGAGGCTGACATCCACAAGTCCTTCCAACACCT
 CCTCCAAACCCTCAACAGACCAGACAGTGAAGTGCAGTTGAGCACAGGCAATGGCCTCTTTGTCAACAAT
 GACCTGAAGCTGGTGGAGAAGTTTCTGGAAGAGGCCAAGAACCATTATCAGGCAGAAGTCTTCTCTGTCA
 ACTTTGCAGAGTCAGAGGAGGCCAAGAAAGTGATTAATGATTTTGTGGAGAAGGGAACCCAAGGAAAGAT
 AGTTGAGGCAGTGAAAGAACTGGACCAAGACACAGTTTTCGCCCTGGCAAATTACATTCTTTTAAAGGC
 AAATGGAAGAAGCCATTCGATCCTGAGAACCTGAAGAAGCTGAGTTCACGTGGACAAGTCCACCACGG
 TGAAGGTGCCCATGATGACCTCTCGGGCATGCTTGATGTGCACCATTCAGCACACTCTCCAGCTGGGT
 GCTGCTGATGGATTACGTGGGCAACGCCAGTGTCTTCTCCTGCCCCAAGATGGGAAGATGCAGCAT
 CTGGAGCAAACCTCAGCAAGGAGCTCATCTTAAGATCCTGCTAAACAGGCACAGAAGGTTAGTCCAGA
 TCCATATCCCCAGACTGTCCATCTCTGGAGACTATAACTTGAAGACACTCATGAGTCCACTGGGCATCAC
 CCGGATCTTCAACAATGGGGCTGACCTCTCCGGAATCACAGAGGAGAATGCTCCCCTGAAGCTCAGCAAG
 GCTGTGCATAAGGCTGTGCTGACCATCGATGAGACAGGAACAGAAGCTGCAGCAGCCACAGTCTTTGAAG
 CCGTTCCTATGTCTATGCCCCCTATCCTGCGCTTCGACCACCTTTCTTTTATAATATTTGAAGAACA
 CACTCAGAGCCCCATCTTTGTGGAAAAGTGGTAGATCCACACATAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


[View online »](#)

Protein Sequence: >MR206500 protein sequence
 Red=Cloning site Green=Tags(s)

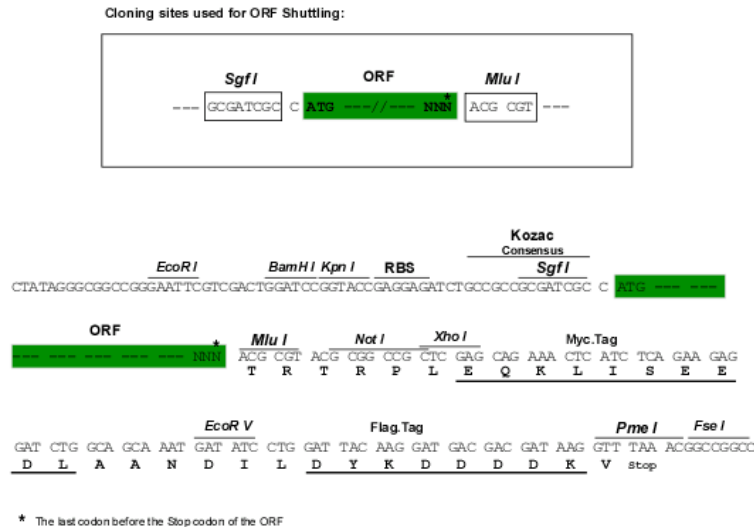
MTPSISWGLLLLAGLCCLVPSFLAEDVQETDTSQKDQSPASHEIATNLGDFAIISLYRELVHQSNTSNIFF
 SPVSIATAFAMLSLGSKGDTHQTILEGLQFNLTQTSEADIHKSQHLQLTLNRPDSELQLSTGNGLFVNN
 DLKLVEKFL EEAKNHYQAEVFSVNFAESEEAKKVINDFVEKGTQKGIVEAVKELDQDTVAFALANYILFKG
 KWKKPDPENTEEAEFHVDKSTTVKVPMTLSGMLDVHHCSTLSSWVLLMDYVGNASAVFLLPEDGKMQH
 LEQTLSELISKILLNRHRLVQIHIPRLSISGDYNLKTLMSPGLITRIFNNGADLSGITEENAPLKLSK
 AVHKAVLTIDETGTEAAAATVFEAVPMSMPPILRFDHPFLFIIFEHTQSPIFVGKVVDPTHK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

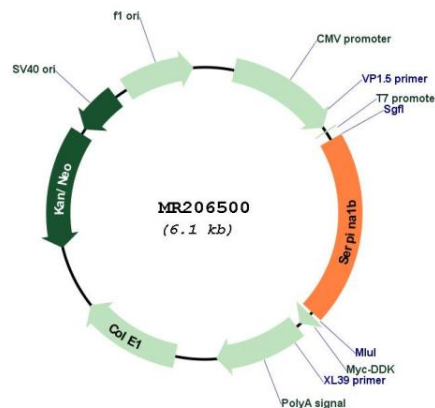
Locus ID: 20701

Cytogenetics: 12 52.98 cM

MW: 45.9 kDa

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 MR206500