

Product datasheet for MR206512

Serpina1b (NM_009244) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Serpina1b (NM_009244) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Serpina1b
Synonyms:	D12Ucla2; Dom2; PI2; Spi1-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206512 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTCCCTCCATCTCATGGGGTCTACTGCTTCTGGCAGGCCTGTGTTGCCTGGTCCCCAGCTTTCTGG
CTGAGGATGTTTCAGGAGACAGACACCTCCAGAAGGATCAGTCCCAGCCTCCCATGAGATCGCTACAAA
CCTGGGAGACTTTGCAATCAGCCTATACCGGGAGCTGGTCCATCAGTCCAACACTTCCAACATCTTCTTC
TCCCCAGTGAGCATTGCCACAGCCTTTGCTATGCTCTCCCTAGGGAGCAAGGGTGACACTCACACGCAGA
TCCTAGAGGGCCTGCAGTTCAACCTCACACAAACATCGGAGGCTGACATCCACAAGTCTTCCAACACCT
CCTCCAAACCCTCAACAGACCAGACAGTGAAGTGCAGTTGAGCACAGGCAATGGCCTCTTTGTCAACAAT
GACCTGAAGCTGGTGGAGAAGTTTCTGGAAGAGGCCAAGAACCATTATCAGGCAGAAGTCTTCTCTGTCA
ACTTTGCAGAGTCAGAGGAGGCCAAGAAAGTGATTAATGATTTTGTGGAGAAGGGAAACCAAGGAAAGAT
AGTTGAGGCAGTGAAAGAAGTGGACCAAGACACAGTTTTTCGCCCTGGCAAATTACATTCTTTTTAAAGGC
AAATGGAAGAAGCCATTCGATCCTGAGAACACTGAAGAAGCTGAGTTCACGTGGACAAGTCCACCACGG
TGAAGGTGCCATGATGACCCTCTCGGGCATGCTTGTGATGTGCACCATTGCAGCACACTCTCCAGCTGGGT
GCTGCTGATGGATTACGTGGGCAACGCCAGTGTCTTCTCCTGCCCCAAGATGGGAAGATGCAGCAT
CTGGAGCAAACCTCAGCAAGGAGCTCATCTCTAAGATCCTGCTAAACAGGCACAGAAGGTTAGTCCAGA
TCCATATCCCCAGACTGTCCATCTCTGGAGACTATAACTTGAAGACACTCATGAGTCCACTGGGCATCAC
CCGGATCTTCAACAATGGGGCTGACCTCTCCGGAATCACAGAGGAGAATGCTCCCCTGAAGCTCAGCAAG
GCTGTGCATAAGGCTGTGCTGACCATCGATGAGACAGGAACAGAAGCTGCAGCAGCCACAGTCTTTGAAG
CCGTTCTATGTCTATGCCCCCTATCCTGCGCTTCGACCACCTTTCTTTTTATAATTTGAAGAACA
CACTCAGAGCCCCATCTTTGTGGAAAAGTGGTAGATCCACACATAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206512 protein sequence
 Red=Cloning site Green=Tags(s)

MTPSISWGLLLLAGLCCLVPSFLAEDVQETDTSQKQSPASHEIATNLGDF AISLYREL VHQSNTSNIFF
 SPVSIATAFAMLSLGSKGDHTHTQILEGLQFNLTQTSEADIHKS FQHLLQTLNRPDSELQLSTGNGLFVNN
 DLKLVKFL EEAKNHYQAEVFSVNFAESEEAKKVINDFVEKGTQ GKIVEAVKELDQDQTVFALANYILFKG
 KWKKPFDPE NTEEA EFHVDKSTTVKVPMTLSGMLDVHHCSTLSSWLLMDYVGNASAVFLLPEDGKMQH
 LEQTL SKELISKILLNRHRLVQIHIPRLSISGDYNLKTLMSP LGITRIFNNGADLSGITEENAPLKL SK
 AVHKAVL TIDETGTEAAAATVFEAVPMSMPPILRFDHPFLFIIFEHTQSPIFVGKVVDPTHK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_009244

ORF Size: 1242 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_009244.2](#)

RefSeq Size: 1434 bp

RefSeq ORF: 1242 bp

Locus ID: 20701

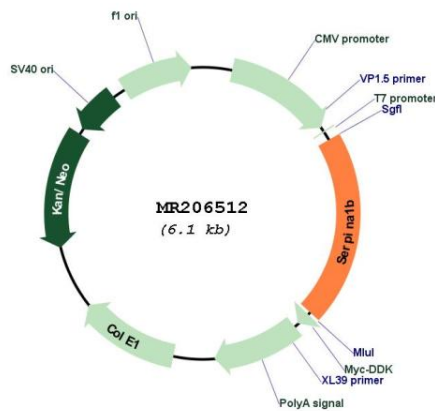
UniProt ID: [P22599](#)

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 MR206512