

Product datasheet for MR206505

Serpina1c (NM_009245) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Serpina1c (NM_009245) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Serpina1c
Synonyms:	Pi3; Pi6; Skalp; Spi1-3; Spi1-6; Wap3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206505 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTCCCTCCATCTCATGGGGTCTACTGCTTCTGGCAGGCCTGTGTTGCTTGGTCCCCAGCTTTCTGG
CTGAGGATGTTTCAGGAGACAGACACCTCCAGAAGGATCAGTCCCAGCCTCCCATGAGATCGCTACAAA
CCTGGGAGACTTTGCCATCAGCCTATACCGGGAGCTGGTCCATCAGTCCAACACTTCCAACATCTTCTTC
TCCCCAGTGAGCATTGCCACAGCCTTTGCTATGCTCTCCCTAGGGAGCAAGGGTGACACTCACACGCAGA
TCCTAGAGGGCCTGCAGTTCAACCTCACACAAACATCGGAGGCTGACATCCACAAGTCTTCCAACACCT
CCTCCAAACCCTCAACAGACCAGACAGTGAGCTGACGCTGAGCAGGCAATGGCCTCTTTGTCAACAAT
GACCTGAAGCTGGTGGAGAAGTTTCTGGAAGAGGCCAAGAACCATTATCAGGCAGAAGTCTTCTGTCA
ACTTTGCAGAGTCAGAGGAGGCCAAGAAAGTGATTAATGATTTTGTGGAGAAGGGAAACCAAGGAAAGAT
AGTTGAGGCGGTGAAAAAAGTGGACCAAGACACAGTTTTCGCCCTGGCAAATTACATTCTCTTTAAAGGC
AAATGGAAGAAGCCATTCGATCCTGAGAACACTGAGGAAGCTGAGTTCACGTTGGACGAGTCCACCACGG
TGAAGGTGCCATGATGACCCTCTCGGGCATGCTTGTGATGTCACCATTGCAGCACGCTGTCCAGCTGGGT
GCTGCTGATGGATTATGCAGGCAATGCCACTGCTGTCTTCTTCTGCCCGATGATGGGAAGATGCAGCAT
CTGGGCAAACTCTCAGCAAGGAGCTCATCTCTAAGTTCCTGCTAAACAGGCGCAGAAGGTTAGCCGAGA
TCCACTTCCCAGACTGTCCATCTCTGGAGAATAAAGTGAAGACACTCATGATCCACTGGGCATCAC
CCGAATCTTCAACAATGGGGCTGACCTCTCCGGAATCACAGAGGAGAATGCTCCCCTGAAGCTCAGCCAG
GCTGTGCATAAGGCTGTGCTGACCATCGATGAGACAGGAACAGAAGCTGCAGCAGTACAGTCTTACTAG
CCGTTCTTATTCTATGCCCCCTATCCTGCGCTTCGACCACCTTTCTTTTCATAATTTGAAGAACA
CACTCAGAGCCCCCTTTGTGGAAAAGTGGTAGATCCACACATAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206505 protein sequence
 Red=Cloning site Green=Tags(s)

MTPSISWGLLLLAGLCCLVPSFLAEDVQETDTSQKQSPASHEIATNLGDF AISLYREL VHQSNTSNIFF
 SPVSIATAFAML SLGSKGDHTQTILEGLQFNLTQTSEADIHKS FQHL LQTLNRPDSELQLSTGNGLFVNN
 DLKLVKFL EEAKNHYQAEVFSVNFAESEEAKKVINDFVEKGTQ GKIVEAVKKLDQD TVFALANYILFKG
 KWKKPFDPE NTEEA EFHVDESTTVKVPMTLSGMLDVHHCSTLSSWLLMDYAGNATAVFLLPDDGKMQH
 LEQTL SKELISK FLLNRRRRLAQIHFPRLSISGEYNLKTLMSP LGITRIFNNGADLSGITEENAPLKL SQ
 AVHKAVL TIDETGTEAAA VTVLLAVPYSMPPI LRFDHPFLFIIFEHTQSPLFVGKVVDP THK

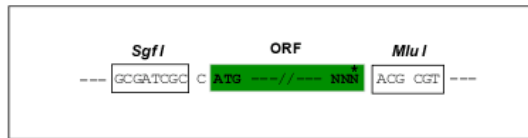
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_009245

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_009245.1](#), [NM_009245.2](#), [NP_033271.1](#)

RefSeq Size: 1424 bp

RefSeq ORF: 1242 bp

Locus ID: 20702

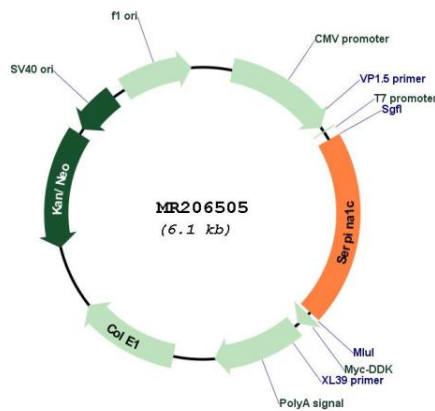
UniProt ID: [Q00896](#)

Cytogenetics: 12 52.98 cM

MW: 46 kDa

Gene Summary: Inhibitor of serine proteases. Can inhibit trypsin and chymotrypsin; relatively ineffective against elastase.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206505