

Product datasheet for **RR210158**

Serpina1 (NM_022519) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Serpina1 (NM_022519) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Serpina1
Synonyms:	AAT; Pi; Spi1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR210158 representing NM_022519 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCACCCCTCCATCTCACGGGGCTCCTGCTTCTGGCAGGCCTGTGTTGCCTGGCCCCAGCTTCCTGG
CTGAGGATGCCAGGAAACCGATACCTCCAGCAGGACCAGAGTCCAACCTACCGTAAGATTTCTTCAA
CCTGGCAGACTTTGCCTCAGCCTATACCGGGAGCTGGTCCATCAATCCAATACATCCAACATCTTCTTC
TCCCCTATGAGCATCACACAGCCTTCGCCATGCTCTCCCTGGGAGCAAGGGTGACACTCGCAAACAGA
TTCTAGAGGGCCTGGAGTTCAACCTCACACAGATACCTGAGGCTGACATCCACAAGGCCTTCCATCACCT
CCTCCAACTCTCAACAGGCCAGACAGTGAAGTGCAGTGAACACAGGCAATGGCCTCTTTGTCAACAAG
AATCTGAAGCTGGTGGAGAAGTTTCTGGAAGAGGTCAAGAACAATTACCACTCAGAAGCCTTCTCTGTCA
ACTTTGCCGACTCAGAAGAGGCTAAGAAAGTAATTAATGATTATGTAGAGAAGGGAACCAAGGAAAAGAT
AGTTGATTTGATGAAACAGCTGGACGAAGACACGGTTTTTGCCTGGTGAATTACATTTTCTTTAAAGGC
AAGTGAAGAGGCCATTCAATCCTGAGCACACTAGGGATGCTGACTTCCACGTAGACAAGTCCACCACGG
TGAAGGTGCCATGATGAACCGCCTGGCATGTTTGACATGCACTATTGCAGCACACTGTCCAGCTGGGT
GCTGATGATGGATTACCTGGGCAACGCCACTGCCATCTTCTCCTGCCGATGATGGCAAGATGCAGCAT
CTGGAGCAAACCTCACCAAGGATCTCATTTCCCGGTTCTGCTAAACAGGCAAACAAGGTCAGCCATTC
TCTACTTCCCAAACCTGTCCATCTCTGGAACCTATAACTTGAAGACACTCCTGAGCTCACTGGGCATCAC
CCGGGTCTTCAACAATGATGCTGATCTCTGGAATCACAGAGGATGCCCCCTGAAGCTTAGCCAGGCT
GTGCATAAGGCTGTGCTGACCTTAGATGAGAGGGGAACAGAGGCTGCAGGAGCCACTGTGGTGGAGGCCG
TCCCCATGCTCTGCCCCCTCAAGTGAAGTTCGACCACCTTTTCATTTTCATGATAGTTGAATCAGAAAC
TCAGAGCCCCCTTTGTGGAAAAGTATAGATCCCACAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR210158 representing NM_022519
 Red=Cloning site Green=Tags(s)

MAPSISRGLLLLAGLCCLAPSFLAEDAQETDTSQQDQSPTYRKISSNLADFASFLYRELVHQSNTSNIFF
 SPMSITTAFAAML SLGSKGDRKQILEGLEFNL TQIPEADIHKAFHLLQTLNRPDSELQLNTGNGLFVNK
 NLKLVEKFL EEVKNNYHSEAF SVNFADSEEAKKVINDYVEKGTQGKIVLDMKQLDEDTVFALVNYIFFKG
 KWKRPFNPEHTRDADFHVDKSTTVKVPMMNRLGMFDMHYCSTLSSWVLMMDYLGNATAIFLLPDDGKMQH
 LEQTLTKDLISRFLNQRSAI LYFKLSISGTYNLKTLSSLGITRVFNNDADL SGITEDAPLKL SQA
 VHKAVLTLDERGTEAAGATVVEAVPMSLPPQVKFDHPFIFMIVESETQSPLFVGKVIDPTR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

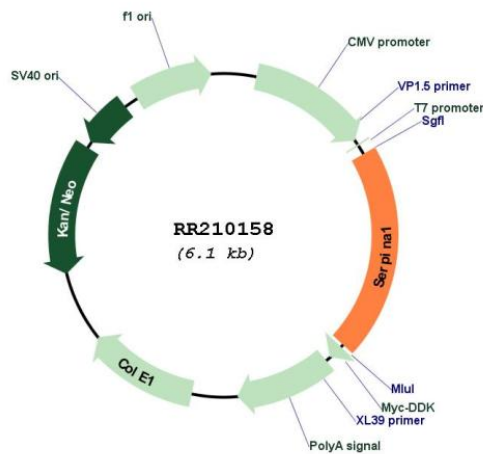
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_022519

ORF Size:	1233 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:	<ol style="list-style-type: none">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_022519.2 , NP_071964.2
RefSeq Size:	1603 bp
RefSeq ORF:	1236 bp
Locus ID:	24648
UniProt ID:	P17475
Cytogenetics:	6q32
MW:	46.1 kDa
Gene Summary:	Inhibitor of serine proteases. The primary target is elastase, but also has a moderate affinity for plasmin and thrombin.[UniProtKB/Swiss-Prot Function]