

## Product datasheet for MR229678

### Serpina10 (NM\_001301404) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Serpina10 (NM_001301404) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Serpina10
Synonyms:	P; PZI; ZPI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229678 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAGGGTGGCTTCTAGCCTCTTTCTTCTCCTGTCCTCCTGACAGAGGTGTGGCTGGTACTAGTTTCAATC  
TCAGCTCCCATTACCAGAGGCTTCGGTACCTGGAGTCTCAGGATTATGAGAATCAAACCTGGGAAGA  
GTACACACGGACTGATCCAGGGAGGAGGAGGAGGAGGAGGAGGAAAAGGAGGAAGGCAAGGATGAGGAA  
TATTGGCTGAGGGCCAGTCAAGGACTCTCAATGAGACTTCAAGCTTTGGGTCAACCTGCTTCGAAGA  
TCTCCATGAGGCACGACGGCAATGTATCTTCTCACCTTTGGCTGTCTGTGGCATGGTGAATTTGAT  
GCTGGGACCAAGGGAGAGACCAAAGTCCAGATAGAAAATGGACTCAACCTACAGGCCCTGAGCCAAGCA  
GGACCCCTGATCCTTCCAGCCCTCTTCAAGAAGGTCAAAGAGACCTTCTCCAGCAACCGGGACCTGGGCC  
TCAGCCAGGGTAGCTTTGCCTTCATCCACAAGGACTTTGATATCAAAGAGACCTATTTCAATCTCTCCAA  
GAAGTATTTGATATAGAGTATGTGTCTATAAATTTTCAAATTCCTCACAAGCCAGAGGGCTCATAAAC  
CACTGCATTGTCAAAGAGACTGAGGGGAAAAATCCCAAGCTTTTGGATGAGATTAATCTGAAACAAAGT  
TAATTCTGGTGGACTACGCTTGTTCAAAGGAAATGCCACCATGTAGTGGTCTCATGGAGAAGACAGG  
TGATTACTTGGCCTGGAGGACTACTTGACCGTGGATCTCGTGGAGACATGGTCGAGAATATGAAAACC  
AGGAAAATGGAGGTCTTCTTCCCAAGTTCAAGCTGAACCGAGGTATGAGATGACGAGCTGCTCAAAC  
AGATGGGAATCAGGAGGCTCTTCTCCACCTCAGCTGACCTCAGCGAACTCTCAGCCATGGCAAGAAACCT  
TCAGGTGTCCAGGGTTTTACAACAGTCGGTGTGAGGTGGATGAAAGGGGAAACAGAAGCAGTGTACAGG  
ACGCTGTGAGAGATTATCGTTACTCCATGCCTCCTGCCATCAAAGTGAACCGGCCCTTTCACTTCACTCA  
TCTATGAGGAGATGTCCAGGATGCTCCTATTTCTGGGCAGGGTGGTAAACCCACAGTCTTG

**ACGGCTACGGCGCCGCTCGAGCAGAAA**CTCATCTCAGAAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229678 protein sequence  
 Red=Cloning site Green=Tags(s)

MRVASSLFLPVLLTEVWLVSFNLSSHSPSEASVHLESQDYENQTWEEYTRTDPREEEEEEEKEEGKDEE  
 YWLRASQQLSNETSSFGFNLLRKISMHDGNVIFSPFGLSVAMVNLMLGKTKGKQVIENGLNLQALSQA  
 GPLILPALFKKVKETFFSSNRDLGLSQGSFAFIHKDFDIKETYFNLKKYFDIEYVSINFQNSSQARGLIN  
 HCIVKETEKGIPKLFDEINPETKLILVDYVLFKGNATMLVVLMEKTDGYLALEDYLVTLVETWLQNMKT  
 RKMEVFFPKFKLNQRYEMHELLKQMGIRRLFSTADLSELSAMARNLQVSRVLLQQSVLEVDERGTEAVSG  
 TLSEIIAYSMPAIAKVNRPFFHFIYEEMSRMLLFLGRVNPPTVL

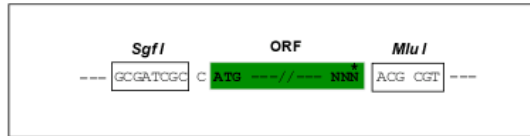
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001301404

**ORF Size:** 1185 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\\_001301404.1](#), [NP\\_001288333.1](#)

**RefSeq Size:** 1455 bp

**RefSeq ORF:** 1185 bp

**Locus ID:** 217847

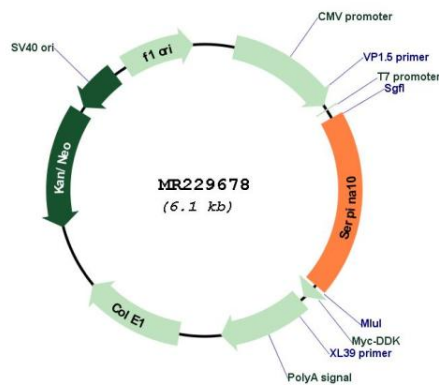
**UniProt ID:** [Q8R121](#)

**Cytogenetics:** 12 E

**MW:** 45.3 kDa

**Gene Summary:** The protein encoded by this gene is a member of the large serpin family of proteins, and is also known as serpin PZ-dependent protease inhibitor (ZPI or PZI). This protein is thought to play an important role in the regulation of coagulation. It directly inhibits factor XIa, and also inhibits factor Xa in the presence of calcium, phospholipids, and protein Z (PZ). Deficiencies in this gene lead to an increase in thrombosis. Alternative splicing results in multiple transcript variants that encode multiple protein isoforms. [provided by RefSeq, Aug 2014]

### Product images:



Circular map for MR229678