

Product datasheet for MR206155

Serpina10 (BC018416) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Serpina10 (BC018416) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Serpina10
Synonyms: MGC25863, ZPI, PZI
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR206155 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGGTGGCTTCTAGCCTCTTTCTTCTGTCCTCCTGACAGAGGTGTGGCTGGTACTAGTTTCAATC
TCAGCTCCCATTACCAGAGGCTCCGTTACCTGGAGTCTCAGGATTATGAGAATCAAACCTGGGAAGA
GTACACACGGACTGATCCAGGGAGGAGGAGGAGGAGGAGGAAAAGGAGGAAGCAAGGATGAGGAA
TATTGGCTGAGGGCCAGTCAGCAGCTCTCCAATGAGACTTCAAGCTTTGGTTCAACCTGCTTCGAAAGA
TCTCCATGAGGCACGACGCAATGTGATCTTCTCACCTTTTGGCCTGTCTGTGGCCATGGTGAATTTGAT
GCTGGGGACCAAGGGAGAGACCAAAAGTCCAGATAGAAAATGGACTCAACCTACAGGCCCTGAGCCAAGCA
GGACCCCTGATCCTTCCAGCCCTCTTCAAGAAGGTCAAAGAGACCTTCTCCAGCAACCGGGACCTGGGCC
TCAGCCAGGGTAGCTTTGCCTTCATCCACAAGGACTTTGATATCAAAGAGACCTATTTCAATCTCTCCAA
GAAGTATTTTGATATAGAGTATGTGCTATAAATTTTCAAATTCCTCACAAGCCAGAGGGCTCATAAAC
CACTGCATTGTCAAAGAGACTGAGGGGAAAATCCCAAGCTTTTTGATGAGATTAATCCTGAAACAAAGT
TAATCTGGTGGACTACGCTTTGTTCAAAGGAAATGCCACCATGCTAGTGGTCTCATGGAGAAGACAGG
TGATTACTTGGCCCTGGAGGACTACTTGACCGTGGATCTCGTGGAGACATGGCTGCAGAATATGAAACC
AGGAAAATGGAGGTCTTCTTCCCAAGTTCAAGCTGAACCAAGGATGAGATGCACGAGCTGCTCAAAC
AGATGGGAATCAGGAGGCTCTTCTCCACCTCAGCTGACCTCAGCGAACTCTCAGCCATGGCAAGAAACCT
TCAGGTGTCCAGGGTTTACAACAGTCGGTGCTTGGAGGTGATGAAAGGGGAACAGAAGCAGTGTCAAGG
ACGCTGTCAGAGATTATCGCTTACTCCATGCCTCCTGCCATCAAAGTGAACCGGCCTTTTCACTTCATCA
TCTATGAGGAGATGTCCAGGATGCTCTATTCTGGGCAGGGTGGTAAACCCACAGTCTG

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR206155 protein sequence
 Red=Cloning site Green=Tags(s)

MRVASSLFLPVLLTEVWLVSFNLSSHSPSEASVHLESQDYENQTWEEYTRTDPREEEEEEEKEEGKDEE
 YWLRASQQLSNETSSFGFNLLRKRISMRHDGNVIFSPFGLSVAMVNLMLGKTKETKQVIENGLNLQALSQA
 GPLILPALFKKVKETFFSSNRDLGLSQGSFAFIHKDFDIKETYFNL SKKYFDIEYVSINFQNSSQARGLIN
 HCIVKETEKGIPKLFDEINPETKLILVDYVLFKGNATMLVVLMEKTDYLALEDYLVTLVETWLQNMKT
 RKMEVFFPKFKLNQRYEMHELLKQMGIRRLFSTADLSELSAMARNLQVSRVLLQQSVLEVDERGTEAVSG
 TLSEIIAYSMPPAIKVNRPFHFIIYEEMSRMLLFLGRVVPNTVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC018416

ORF Size: 1182 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: [BC018416](#), [AAH18416](#)

RefSeq Size: 1450 bp

RefSeq ORF: 1184 bp

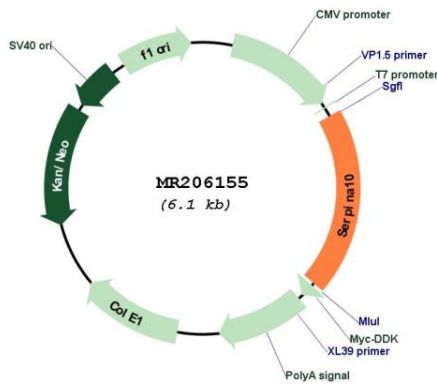
Locus ID: 217847

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 MR206155