

Product datasheet for **MG207160**

Serpina10 (NM_144834) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Serpina10 (NM_144834) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Serpina10
Synonyms:	P; PZI; ZPI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MG207160 representing NM_144834
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGGGTGGCTTCTAGCCTCTTCTTCTCCTGTCCTCCTGACAGAGGTGTGGCTGGTGACTAGTTTCAATC
 TCAGCTCCATTACCAGAGGCTCCGTTACCTGGAGTCTCAGGATTATGAGAATCAAACCTGGGAAGA
 GTACACACGACTGATCCAGGGAGGAGGAGGAGGAGGAGGAGGAAAAGGAGGAAGCAAGGATGAGGAA
 TATTGGCTGAGGGCCAGTCAGCAGCTCTCCAATGAGACTTCAAGCTTTGGGTTCAACCTGCTTCGAAAGA
 TCTCCATGAGGCACGACGGCAATGTGATCTTCTCACCTTTGGCCTGTCTGTGGCCATGGTGAATTTGAT
 GCTGGGGACCAAGGGAGAGACCAAAGTCCAGATAGAAAATGGACTCAACCTACAGGCCCTGAGCCAAGCA
 GGACCCCTGATCCTTCCAGCCCTCTTCAAGAAGGTCAAAGAGACCTTCTCCAGCAACCGGGACCTGGGCC
 TCAGCCAGGGTAGCTTTGCCTTCATCCACAAGGACTTTGATATCAAAGAGACCTATTTCAATCTCTCCAA
 GAAGTATTTTGATATAGAGTATGTGCTATAAAATTTTCAAATTCCTCACAAGCCAGAGGGCTCATAAAC
 CACTGCATTGTCAAAGAGACTGAGGGGAAAATCCCAAGCTTTTGTATGAGATTAATCTGAAACAAAGT
 TAATTCGGTGGACTACGTCTTGTTCAAAGGGAAGTGGCTGACTCCATTTGACCCAGCTTCACTGAGGC
 CGACACTTTCCACTGGACAAGTACAGGGCAATTAAGGTGCCATGATGTACCGGAAGGGAACCTTACC
 TCCACCTTTGACAAGAAGTTCCGCTGTACATCCTCAAACCTGCCCTACCAAGGAAATGCCACCATGCTAG
 TGGTCTCATGGAGAAGCAGGTGATTACTTGGCCCTGGAGGACTACTTGACCCTGGATCTCGTGGAGAC
 ATGGCTGCAGAAATGAAAACCAGGAAAATGGAGGTCTTCTTTCCCAAGTTCAAGCTGAACCAGAGGTAT
 GAGATGCACGAGCTGCTCAAACAGATGGGAATCAGGAGGCTTCTTCCACCTCAGCTGACCTCAGCGAAC
 TCTCAGCCATGGCAAGAAACCTCAGGTGTCCAGGTTTTACAACAGTCGGTCTTGAGGTGGATGAAAG
 GGGAACAGAAGCAGTGTGAGGGACGCTGTCAGAGATTATCGCTTACTCCATGCCTCTGCCATCAAAGTG
 AACCGGCCTTTTCACTTCATCATCTATGAGGAGATGTCCAGGATGCTCCTATTTCTGGGCAGGGTGGTAA
 ACCCCACAGTCCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207160 representing NM_144834
 Red=Cloning site Green=Tags(s)

MRVASSLFLPVLLTEVWLVTSFNLSSHSPEASVHLESQDYENQTWEEYTRTDPREEEEEEEEEKEEGKDEE
 YWLRASQQLSNETSSFGFNLLRKISMRHDGNVIFSPFGLSVAMVNLMLGKGETKVQIENGLNLQALSQA
 GPLILPALFKKVKETFSSNRDLGLSQGSFAFIHKDFDIKETYFNLSKKYFDIEYVSINFQNSSQARGLIN
 HCIVKETEKGIPKLFDEINPETKLILVDYVLFKWKWLPFDPSFTEADTFHLDKYRAIKVPMMYREGNFT
 STFDKFRCHILKLPYQGNATMLVVLMEKTDYLALEDYLVVDLVETWLNMKTRKMEVFFPKFKLNQRY
 EMHELLKQMGIRRLFSTADLSELSAMARNLQVSRVLQQSVLEVDERGTEAVSGTLSEIIAYSMPPAIKV
 NRPFFHIIYEEMSRMLLFLGRVNPPTVL

TRTRPLE – GFP Tag – V

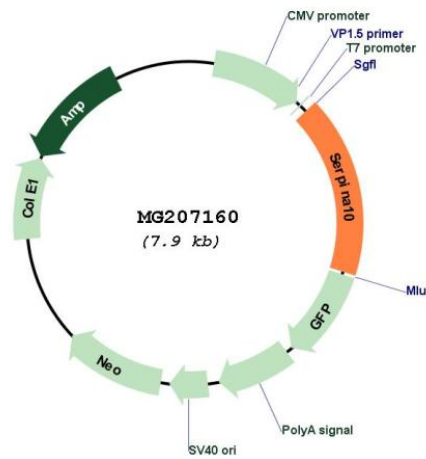
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_144834

ORF Size: 1344 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_144834.4
RefSeq Size:	1570 bp
RefSeq ORF:	1347 bp
Locus ID:	217847
UniProt ID:	Q8R121
Cytogenetics:	12 E
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]