

Product datasheet for **RG204642**

SERPINA10 (NM_016186) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SERPINA10
Synonyms:	PZI; ZPI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG204642 representing NM_016186
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAAGGTGGTGCCAAGTCTCCTGCTCTCCGTCTCCTGGCACAGGTGTGGCTGGTACCCGGCTTGCCCC
 CCAGTCTCAGTCGCCAGAGACCCAGCCCTCAGAACCAGACCAGCAGGGTAGTGCAGGCTCCCAAGGA
 GGAAGAGGAAGATGAGCAGGAGGCCAGCGAGGAGAAGGCCAGTGAGGAAGAAAGCCTGGCTGATGGCC
 AGCAGGCAGCAGCTTGCCAAGGAGACTTCAAACCTTCGATTTCAGCCTGCTGCGAAAGATCTCCATGAGGC
 ACGATGGCAACATGGTCTTCTCTCCATTTGGCATGTCTTGCCATGACAGGCTTGATGCTGGGGGCCAC
 AGGGCCGACTGAAACCCAGATCAAGAGAGGGCTCCACTTGACGGCCCTGAAGCCCAACAGCCCGGGCTC
 CTGCTTCCCTCTTTAAGGGACTCAGAGAGACCCTCTCCGCAACCTGGAAGTGGGCCTCACACAGGGGA
 GTTTTGCTTCATCCACAAGGATTTTGATGTCAAAGAGACTTTCTCAATTTATCCAAGAGGTATTTTGA
 TACAGAGTGCCTGCTATGAATTTTCGAATGCCTCACAGGCCAAAAGGCTCATGAATCATTACATTAAC
 AAAGAGACTCGGGGAAAATTCCCAAACCTTTTATGATGAGATTAATCCTGAAACCAATTAATTCTTGTGG
 ATTACATCTTGTTCAAAGGGAAATGGTTGACCCCATTTGACCTGTCTTACCAGAGTCGACACTTTCCA
 CCTGGACAAGTACAAGACCATTAAAGTGCCCATGATGTACGGTGCAGGCAAGTTGCTCCACCTTTGAC
 AAGAATTTTCGTTGTCATGTCTCAAATGCCCTACCAAGGAAATGCCACCATGCTGGTGGTCTCATGG
 AGAAAATGGGTGACCACCTCGCCCTTGAAGACTACCTGACCACAGACTTGGTGGAGACATGGCTCAGAAA
 CATGAAAACAGAAACATGGAAGTTTTCTTCCGAAGTTCAAGCTAGATCAGAAGTATGAGATGCATGAG
 CTGCTTAGGCAGATGGGAATCAGAAGAATCTTCTACCCCTTGTGACCTTAGTGAAGTCTCAGCTACTG
 GAAGAAATCTCAAAGTATCCAGGGTTTACAAAGAACAGTGATTGAAGTTGATGAAAGGGGCACTGAGGC
 AGTGGCAGGAATCTTGTGAGAAATTACTGCTTATTCCATGCCTCCTGTGATCAAAGTGGACCGGCCATTT
 CATTTTCATGATCTATGAAGAAACCTCTGGAATGCTTCTGTTTCTGGGCAGGGTGGTGAATCCGACTCTCC
 TA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204642 representing NM_016186
 Red=Cloning site Green=Tags(s)

MKVVPSSLLSVLLAQVWLVPGLAPSPQSPETPAPQNQTSRVVQAPKEEEEDEQEASEEKASEEEKAWLMA
 SRQQAKETSNGFSLRKISMRHDGNMVFSPFGMSLAMTGLMLGATGPTETQIKRGLHLQALKPTKPL
 LPSLFKGLRETLRNLELGLTQGSFAFIHKDFDVKETFFNL SKRYFDTECVPMNFRNASQAKRLMNHYN
 KETRGIKPLFDEINPETKLILVDYILFKGWLTPFDPVFTEVDTFHLDKYKTIKVPMMYGAGKFASTFD
 KNFRCHVLKLPYQGNATMLVVLMEKMGDHLALEDYLTDLVETWLRNMKTRNMEVFFPKFKLDQKYEMHE
 LLRQMGIRRIFFPFADLSELSATGRNLQVSRVLQRTVIEVDERGTEAVAGILSEITAYSMPPVIKVDPRP
 HFMIYEETSGMLLFLGRVVPNTLL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016186

ORF Size: 1332 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.

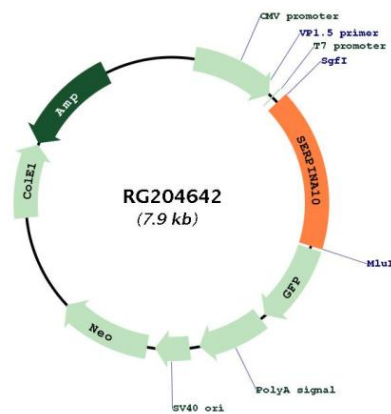
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_016186.2](#)

RefSeq Size:	2466 bp
RefSeq ORF:	1335 bp
Locus ID:	51156
UniProt ID:	Q9UK55
Cytogenetics:	14q32.13
Domains:	SERPIN
Protein Families:	Druggable Genome, Secreted Protein

Gene Summary: The protein encoded by this gene belongs to the serpin family. It is predominantly expressed in the liver and secreted in plasma. It inhibits the activity of coagulation factors Xa and XIa in the presence of protein Z, calcium and phospholipid. Mutations in this gene are associated with venous thrombosis. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, May 2010]

Product images:



Circular map for RG204642