

Product datasheet for **RG227928**

SERPINE2 (NM_001136530) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SERPINE2 (NM_001136530) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SERPINE2
Synonyms:	GDN; GDNPF; PI-7; PI7; PN-1; PN1; PNI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG227928 representing NM_001136530 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGACTGCAGGTCGTCTTGGTGAAGGAACCATGAACTGGCATCTCCCCCTTCTCTTGGCCT
CTGTGACGCTGCCTTCCATCTGCTCCCACTTCAATCTCTGTCTCGAGGAACTAGGCTCCAACACGGG
GATCCAGGTTTTCAATCAGATTGTGAAGTCGAGGCCTCATGACAACATCGTGATCTCTCCCATGGGATT
GCGTCGGTCTGGGGATGCTTCAGCTGGGGCGGACGGCAGGACCAAGAAGCAGCTCGCCATGGTATGA
GATACGGCGTAAATGGAGTTGGTAAAATATTAAGAAGATCAACAAGGCCATCGTCTCCAAGAAGAATAA
AGACATTTGTGACAGTGGCTAACGCCGTGTTTGTAAAGAATGCCTCTGAAATTGAAGTGCCTTTTGTACA
AGGAACAAAGATGTGTTCCAGTGTGAGGTCCGGAATGTGAACTTTGAGGATCCAGCCTCTGCCTGTGATT
CCATCAATGCATGGGTTAAAAATGAAACCAGGGATATGATTGACAATCTGCTGTCCCCAGATCTTATTGA
TGGTGTGCTCACCAGACTGGTCCCTCGTCAACGCAGTGTATTTCAAGGGTCTGTGGAAATCACGGTCCAA
CCCAGAACACAAAGAAACGCACCTTTCGTGGCAGCCGACGGGAAATCCTATCAAGTGCCATGCTGGCCC
AGCTCTCCGTGTTCCGGTGTGGGTCGACAAGTGCCCCAATGATTTATGGTACAACCTTATTGAAGTGC
CTACCACGGGAAAGCATCAGCATGCTGATTGCACTGCCGACTGAGAGCTCCACTCCGCTGTCTGCCATC
ATCCCACATCAGCACCAAGACCATAGACAGCTGGATGAGCATCATGGTGCCCAAGAGGGTGCAGGTGA
TCCTGCCCAAGTTCACAGCTGTAGCACAAACAGATTTGAAGGAGCCGCTGAAAGTCTTGGCATTACTGA
CATGTTTGATTTCATAAAGGCAAATTTGCAAAAATAACAAGGTGAGAAAACCTCCATGTTTCTCATATC
TTGCAAAAAGCAAAAATTGAAGTCAGTGAAGATGGAACCAAGCTTCAGCAGCAACAACCTGCAATTTCTCA
TTGCAAGATCATCGCCTCCCTGGTTTATAGTAGACAGACCTTTTCTGTTTTTCATCCGACATAATCTTAC
AGGTGCTGTGTTATTCATGGGGCAGATAAACAAACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG227928 representing NM_001136530
Red=Cloning site Green=Tags(s)

MSDCRSSLVEGTMNHLPLFLLASVTLPSICSHFNPLSLEELGSNTGIQVFNQIVKSRPHDNIVISPHGI
 ASVLGMLQLGADGRTRKKQLAMVMRYGVNGVGKILKINKAIVSKKNKDIVTANAVFVKNASEIEVPFVT
 RNKDVVFQCEVRNVNFEDPASACDSINAWVKNETRDMIDNLLSPDLIDGVLTRLVLNAVYFKGLWKSFRFQ
 PENTKKRTFVAADGKSYQVPMPLAQLSVFRCGSTSAPNDLWYNFIELPYHGESISMLIALPTESSTPLSAI
 IPHISTKTIDSWMSIMVPKRQVILPKFTAVAQTDLKEPLKVLGITDMFDSSKANFAKITRSENHVSII
 LQKAKIEVSEDGTKASAATTAILIARSSPPWFIVDRPFLFFIRHNPTGAVLFMGQINKP

TRTRPLE - GFP Tag - V

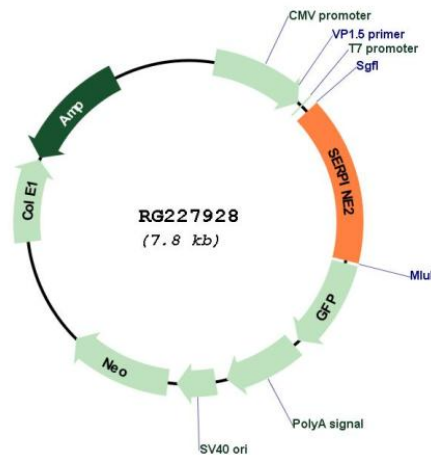
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001136530

ORF Size:	1227 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_001136530.1 , NP_001130002.1
RefSeq Size:	2186 bp
RefSeq ORF:	1230 bp
Locus ID:	5270
UniProt ID:	P07093
Cytogenetics:	2q36.1
Protein Families:	Druggable Genome, Secreted Protein
Gene Summary:	This gene encodes a member of the serpin family of proteins, a group of proteins that inhibit serine proteases. Thrombin, urokinase, plasmin and trypsin are among the proteases that this family member can inhibit. This gene is a susceptibility gene for chronic obstructive pulmonary disease and for emphysema. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]