

## Product datasheet for RC227630

### SERPINE2 (NM\_001136528) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SERPINE2 (NM_001136528) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SERPINE2
Synonyms:	GDN; GDNPF; PI-7; PI7; PN-1; PN1; PNI
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC227630 representing NM_001136528 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGTGGCATCTCCCCTCTTCTCTTGGCCTCTGTGACGCTGCCTTCCATCTGCTCCCACTTCAATC  
CTCTGTCTCTCGAGGAAGTGGCTCCAACACGGGGATCCAGGTTTTCAATCAGATTGTGAAGTCGAGGCC  
TCATGACAACATCGTGATCTCTCCCATGGGATTGCGTCGGTCCCTGGGGATGCTTCAGCTGGGGCGGAC  
GGCAGGACCAAGAAGCAGCTCGCCATGGTGATGAGATACGGCGTAAATGGAGTTGGTAAATATTAAGA  
AGATCAACAAGGCCATCGTCTCCAAGAAGAATAAAGACATTGTGACAGTGGCTAACGCCGTGTTGTAA  
GAATGCCTCTGAAATTGAAGTGCCTTTTGTACAAGGAACAAAGATGTGTTCCAGTGTGAGGTCCGGAAT  
GTGAACCTTGAGGATCCAGCCTCTGCCTGTGATTCCATCAATGCATGGGTTAAAAATGAAACCAGGGATA  
TGATTGACAATCTGCTGTCCCAGATCTTATTGATGGTGTGCTCACCGACTGGTCCCTCGTCAACGCAGT  
GTATTTCAAGGGTCTGTGGAAATCACGGTTCCAACCCGAGAACACAAAGAAACGCACTTTCGTGGCAGCC  
GACGGGAAATCCTATCAAGTGCCAATGCTGGCCAGCTCTCCGTGTTCCGGTGTGGGTGACAAGTGCCC  
CCAATGATTTATGGTACAACCTTATTGAAGTGCCTACCACGGGAAAGCATCAGCATGCTGATTGCACT  
GCCGACTGAGAGCTCCACTCCGCTGTCTGCCATCATCCACACATCAGCACCAAGACCATAGACAGCTGG  
ATGAGCATCATGGTGCCCAAGAGGGTGCAGGTGATCCTGCCAAGTTCACAGCTGTAGCACAAAACAGATT  
TGAAGGAGCCGCTGAAAGTCTTGGCATTACTGACATGTTTGATTGATCAAAAGGCAAAATTTGCAAAAAT  
AACAAAGTTCAGAAAACCTCCATGTTTCTCATATCTTGCAAAAAGCAAAAATTGAAGTCAGTGAAGATGGA  
ACCAAAGTTCAGCAGCAAACTGCAATTTCTATTGCAAGATCATCGCCTCCCTGGTTTATAGTAGACA  
GACCTTTTCTGTTTTTCATCCGACATAATCCTACAGGTGCTGTGTTATTCATGGGCAGATAAACAAACC  
C

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC227630 representing NM\_001136528  
Red=Cloning site Green=Tags(s)

MNWHLPLFLLASVTLPSICSHFNPLSLEELGSNTGIQVFNQIVKSRPHDNIVISPHGIASVLGMLQLGAD  
 GRTRKQLAMVMRYGVNGVGKILKKINKAIVSKKNKDIVTANAVFVKNASEIEVPFVTRNKDVFQCEVRN  
 VNFEDPASACDSINAWVKNETRDMIDNLLSPDLIDGVLTRLVLNAVYFKGLWKSRLFQENTKKRTFVAA  
 DGKSYQVPMLAQLSVFRCGSTSAPNDLWYNFIELPYHGESISMLIALPTESSTPLSAIIPHISTKTIDSW  
 MSIMVPKRVRVILPKFTAQAQTLKEPLKVLGITDMFSSKANFAKITRSENHLVSHILQKAKIEVSEDG  
 TKASAATTAAILIARSSPPWFIVDRPFLFFIRHNPTGAVLFMGQINKP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

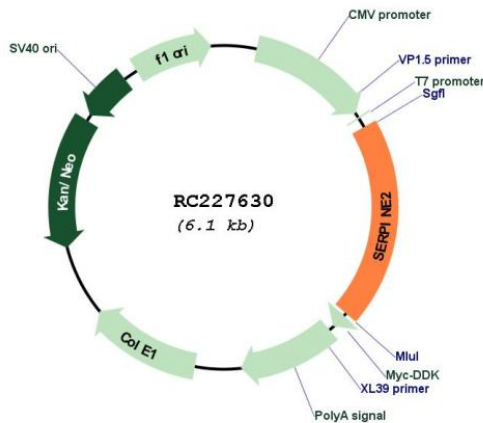
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001136528

<b>ORF Size:</b>	1191 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001136528.2</a>
<b>RefSeq Size:</b>	2256 bp
<b>RefSeq ORF:</b>	1194 bp
<b>Locus ID:</b>	5270
<b>UniProt ID:</b>	<a href="#">P07093</a>
<b>Cytogenetics:</b>	2q36.1
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>MW:</b>	44 kDa
<b>Gene Summary:</b>	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]