

## Product datasheet for **SC100408**

### SERPINE2 (NM\_006216) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SERPINE2 (NM_006216) Human Untagged Clone
Tag:	Tag Free
Symbol:	SERPINE2
Synonyms:	GDN; GDNPF; PI-7; PI7; PN-1; PN1; PNI
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC100408 sequence for NM_006216 edited (data generated by NextGen Sequencing)

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ATGAAGTGGCATCTCCCCCTCTTCTCTTGGCCTCTGTGACGCTGCCTTCCATCTGCTCC
CACTTCAATCCTCTGTCTCTCGAGGAACTAGGCTCCAACACGGGGATCCAGGTTTTCAAT
CAGATTGTGAAGTCGAGGCTCATGACAACATCGTGATCTCTCCCATGGGATTGCGTCG
GTCCTGGGGATGCTTCAGCTGGGGCGGACGGCAGGACCAAGAAGCAGCTCGCCATGGTG
ATGAGATACGGCGTAAATGGAGTTGGTAAAAATATAAAGAAGATCAACAAGGCCATCGTC
TCCAAGAAGAATAAAGACATTGTGACAGTGGCTAACGCCGTGTTTGTAAAGATGCCTCT
GAAATTGAAGTGCCTTTTGTACAAGGAACAAAGATGTGTTCCAGTGTGAGGTCCGGAAT
GTGAACCTTGAGGATCCAGCCTCTGCCTGTGATTCCATCAATGCATGGGTAAAAATGAA
ACCAGGGATATGATTGACAATCTGCTGTCCCAGATCTTATTGATGGTGTGCTCACCAGA
CTGGTCTCGTCAATGCAGTGTATTTCAAGGGTCTGTGGAATCACGGTTCCAACCCGAG
AACACAAAGAAACGCACTTTCGTGGCAGCCGACGGGAAATCCTATCAAGTGCCAATGCTG
GCCAGCTCTCCGTGTTCCGGTGTGGGTGCGACAAGTGCCCAATGATTTATGGTACAAC
TTCATTGAACTGCCCTACCACGGGGAAAGCATCAGCATGCTGATTGCACTGCCGACTGAG
AGCTCCACTCCGCTGTCTGCCATCATCCCACACATCAGCACCAAGACCATAGACAGCTGG
ATGAGCATCATGGTGCCCAAGAGGGTGCAGGTGATCCTGCCCAAGTTCACAGCTGTAGCA
CAAACAGATTTGAAGGAGCCGCTGAAAGTCTTGGCATTACTGACATGTTTGATTCATCA
AAGGCAAAATTTGCAAAAATAACAANNNGTGCAGAAAACCTCCATGTTTCTCATATCTTG
CAAAAAGCAAAAATTGAAGTCAGTGAAGATGGAACCAAAGCTTCAGCAGCAACAACCTGCA
ATTCTCATTGCAAGATCATCGCCTCCCTGGTTTATAGTAGACAGACCTTTTCTGTTTTTC
ATCCGACATAATCCTACAGGTGCTGTGTTATTCATGGGGCAGATAAACAAACCCTGA
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Clone variation with respect to NM\_006216.3  
555 c=>t;986 c=>n;987 a=>n;988 g=>n



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_006216 unedited</p> <pre> NCGGTCAGCATATTTGTATACGACTCACTATAGGCGGCCGCGNAATTCGCACGAGCCAGG CTCCCGCTCCGGTTGCGGCCGCACCGCCCTCCGCGGCCGCCCTGGGGATCCAGCGAGC GCGGTCGTCCTTGGTGAAGGAACCATGAACTGGCATCTCCCCCTTCTCTTTGGCCTC TGTGACGCTGCCTTCCATCTGCTCCACTTCAATCCTCTGTCTCTCGAGGAACTAGGCTC CAACACGGGGATCCAGGTTTTCAATCAGATTGTGAAGTCGAGGCCCTCATGACAACATCGT GATCTCTCCCCATGGGATTGCGTCGGTCTGGGGATGCTTCAGCTGGGGGCGGACGGCAG GACCAAGAAGCAGCTCGCCATGGTGATGAGATACGGCGTAAATGGAGTTGGTAAATATT AAAGAAGATCAACAAGGCCATCGTCTCCAAGAAGAATAAAGACATTGTGACAGTGCTAA CGCCGTGTTTGTAAAGATGCCTCTGAAATTGAAGTGCCTTTTGTACAAGGAACAAAGA TGTGTTCCAGTGTGAGGTCGGAATGTGAACTTTGAGGATCCAGCCTCTGCCTGTGATTC CATCAATGCATGGGTTAAAAATGAAACCAGGGATATGATTGACAATCTGCTGTCCCAGA TCTTATTGATGGTGTGCTCACCAGACTGGTCTCGTCAATGCAGTGTATTTCAAGGGTCT GTGGAAATCACGGTTCCAACCCGAGACACAAAGAAACGCACTTTCGTGGCAGCCGACGGG AAATCCTATCAAGTGCCAATGCTGGCCAGCTCTCCGTGNCCCGGTGTGGGTCCGACAG TGCCCCATGATTTATGTGTAACAATTTCATTGAACTGCCCTACACGNGAAAGCATCANCA TGCTGATTGCACTGCCGACTGANAAGCTCACTNCGCTGTCTGCCATCATCCACACATNAG CACAGAC </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_006216 unedited</p> <pre> AGCTNTGNACCGCGCCGAATCTANGATCGAGTTTTTTTTTTTTTTTTTTTACTACTC ATAACAGTTTATTTTACTTTGTACAAAATACAAAATGCAAATCCAAGGAGTACAGACC AGTAGTGACAGGCACACTGCACAACAGCAACCTTGTCTAGCAAGACAGGAGTTTTTAA TTTTATTTTAGTGAATACATGCATTATATAAAACAACAACAACAACAACAACAAAAAC AAAGAGGCTAGAGATTTACCGTTTCTACCCCCAAAATAACGCTTGTATCAAGACTTTG GAGGGGATGGGGGAAAAGAATTTAAAAGGCAAATAATTTTTTTTTTTCATAAAAAGTAAA GCTACCATAAAACATTTTTTTTTTCTGTCACACTGATTAATTTCTTCTGAAAAGCCGCAC ATATAGACAAAACAAAACAAAATTCCTGAACTGGACAAACAGCAAATACTCAACAGGT TGTTAACCTAGGTAACAGTTCAGTAGTTTAAAGAATCTTTTAGACATCTGGAAGCCTTTC TATTCATTCCTCAGTACAGTGTCCAGCCATCCTGCTTGTTTTTTCCCTCCAATACCTC CCAGAACAGAAACACTTGCATCGAGTCTGTTCTAAGAAGTNTTTGAAAAGAAGCGA TGTACAAAATATTTAACAGAAGTATGAAAGATGCAGGANAGGAGTCTTCTTCGTAGCA AAGTAGTCGTTGCTTTCATGGGTTCTTTGGATACTCTNCAGGGTTTGTATCTGCC CATGAATAACACAGCACCTGTAGAATTATGTCGGATGAAAACAGAAAGGTC </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006216
<b>Insert Size:</b>	2000 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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).

**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:** [NM\\_006216.2](#), [NP\\_006207.1](#)

**RefSeq Size:** 2120 bp

**RefSeq ORF:** 1197 bp

**Locus ID:** 5270

**UniProt ID:** [P07093](#)

**Cytogenetics:** 2q36.1

**Domains:** SERPIN

**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]  
Transcript Variant: This variant (1) encodes isoform a.