

## Product datasheet for **RG206445**

### SERPINI2 (NM\_006217) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SERPINI2 (NM_006217) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SERPINI2
Synonyms:	MEPI; PANCPIN; PI14; TSA2004
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206445 representing NM_006217 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATCCAAAACCTGATGAGAGAAGTCAAAATGGACACAATCTTCTGTGGAGTCTTCTATTGCTGTTTT  
TTGGAAGTCAAGCCTCAAGATGCTCAGCTCAAAAAATACCGAATTTGCAGTGGATCTTTATCAAGAGGT  
TTCCTTATCTCATAAGGACAACATTATATTTTCACCCCTTGAATAACTTTGGTTCTTGAGATGGTACAA  
CTGGGAGCCAAAGAAAAGCACAGCAGCAGATAAGACAACTTTAAAACAACAGGAAACCTCAGCTGGGG  
AAGAATTTTTTGTACTGAAGTCATTTTTCTCTGCCATCTCAGAGAAAAACAAGAATTTACATTTAATCT  
TGCCAATGCCCTACCTTCAAGAAGGATTCACGTGAAAGAACAGTATCTCCATGGCAACAAGGAATTT  
TTTCAGAGTGCTATAAACTGGTGGATTTCAAGATGCAAGGCTTGTCAGAGATGATAAGTACCTGGG  
TAGAAAAGAAAACAGATGGAAAAATTAAGACATGTTTTTCAGGGGAAGAAATTTGGCCCTCTGACTCGGCT  
TGTCTGGTGAATGCTATTTATTTCAAAGGAGATTGGAACAGAAATTCAGAAAAGAGGACACACAGCTG  
ATAAATTTTACTAAGAAAAATGGTTCAACTGTCAAATTTCCAATGATGAAGGCTCTTCTGAGAACAAAAT  
ATGGTTATTTTTCTGAATCTTCCCTGAACCTACCAAGTTTTAGAATTGCTTACAAAGGTGATGAATTTAG  
CTTAATTATCATACTTCTGCAGAAGGTATGGATATAGAAGAAGTGAAAAACTAATTACTGCTCAACAA  
ATCCTAAAATGGCTCTCTGAGATGCAAGAAGGGAAGTAGAAATAGCCCTCCCTAGATTTAAAGTAGAAC  
AAAAAGTAGACTTCAAAGACGTTTTGTATTCTTTGAACATAACCGAGATATTTAGTGGTGGCTGCGACCT  
TTCTGGAATAACAGATTCATCTGAAGTGTATGTTTCCCAAGTGACGCAAAAAGTTTTCTTTGAGATAAAT  
GAAGATGGTAGTGAAGCTGCAACATCAACTGGCATAACATCCCTGTGATCATGAGTCTGGCTCAAAGCC  
AATTTATAGCAAATCATCCATTTCTGTTTATTATGAAGCATAATCCAACAGAATCAATTCTGTTTATGGG  
AAGAGTGACAAATCCTGACACCCAGGAGATAAAAGGAAGAGATTTAGATTCATG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG206445 representing NM\_006217  
 Red=Cloning site Green=Tags(s)

MIQNL MREVKMDTIFLWSLLLLFFGSQASRCSAQKNTFAVDLYQEVSLSHKDNIIFSPLGITLVLEMVQ  
 LGAKGKAQQQIRQTLKQQETSAGEEFFVLKSFSAISEKKQEFNFLANALYLQEGFTVKEQYLHGNKEF  
 FQSAIKLVDFQDAKACAEMISTWVERKTDGKIKDMFSGEEFGPLTRLVLVNAIYFKGDWQKQKFRKEDTQL  
 INFTKKNGSTVKIPMMKALLRTRKYGYFSESSLNYQVLELSYKGDEFSLIILPAEGMDIEEVEKLITAQQ  
 ILKWLSEMQEEVEISLPRFKVEQKVDVLYSLNITEIFSGGCDLSGITDSSEVYVSQVTQKVFFEIN  
 EDGSEAATSTGIHIPVIMSLAQSQFIANHPFLFIMKHNPTESILFMGRVTNPDTQEIKGRDLDSL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_006217

**ORF Size:** 1245 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.

**RefSeq:** [NM\\_006217.3](#), [NP\\_006208.1](#)

**RefSeq Size:** 1445 bp

**RefSeq ORF:** 1218 bp

**Locus ID:** 5276

**UniProt ID:** [O75830](#)

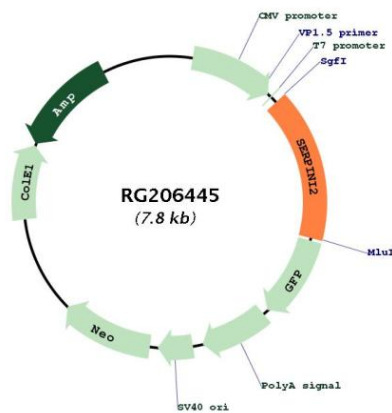
**Cytogenetics:** 3q26.1

**Domains:** SERPIN

**Protein Families:** Druggable Genome, Secreted Protein

**Gene Summary:** The gene encodes a member of a family of proteins that acts as inhibitors of serine proteases. These proteins function in the regulation of a variety of physiological processes, including coagulation, fibrinolysis, development, malignancy, and inflammation. Expression of the encoded protein may be downregulated during pancreatic carcinogenesis. Alternative splicing results in multiple transcript variants for this gene. [provided by RefSeq, Jan 2013]

## Product images:



Circular map for RG206445