

Product datasheet for **MG207666**

Serpind1 (NM_008223) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Serpind1 (NM_008223) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Serpind1
Synonyms:	AA985900; AI303446; HC-II; Hcf2; HCII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207666 representing NM_008223
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAAACATCCACTCTGCACTCTTCTTTCTCTCATCACATTTATGTGATTGGGAGCAAAGGCCTTGCTG
 AGCAGCTAACTAATGAAAACCTGACCACGTCCTCCTGCCTGCTAACTTCCACAAAAGAAAACACAGTCAC
 CAATGACTGGATCCCAGAGGGGGAAGAGGATGAGGACTACCTGGACCTGGAGAAGCTGCTTGGTGAAGAT
 GACGACTACATTTATATCATCGATGCCGTTTCCCCGACAGACTCAGAATCAAGTCTGGCAACATCCTGC
 AGCTTTTCCAAGCAAGAGCCGGATCCAGCGTCTTAATATCCTCAATGCAAAGTTTGCCTTCAACCTTTA
 CCGAGTCTGAAGGACCAGGCTACCACATCTGATAACCTTTCATAGCACCTGTTGGCATTCTACTGCC
 ATGGGGATGATCTCCTTAGGTCTGAGGGGAGAGACCCATGAAGAAGTACACTCAGTTCTACACTTCAGAG
 ACTTTGTCAATGTAGCAGCAAGTACGAGGTTACCACCATTACAATCTCTTTCGAAAGCTGACCCATCG
 TCTATTACAGGAGGAATTTGGGTACACACTTCGGTCAGTTAATGGCCTTTATATTCAGAAGCAGTTTCCC
 ATACGGGAGGACTTCAAAGCTGCTATGAGAGAGTTTTACTTTGCTGAGGCCAGGAGGCTAACTCCCGAG
 ATCCTGCCTTCATATCAAAGGCAAAACAACCACATTCTGAAACTACCAAGGGCCTTATAAAAAGAGCTCT
 GGAGAATATAGATCCTGCTACTCAGATGCTGATTCTGAACTGCATCTACTTCAAAGGAAGTTGGGTGAAT
 AAATCCAGTAGAAATGACGCACAACCACAACCTCCGGCTGAATGAGAGAGAAGTAGTCAAAGTCTCCA
 TGATGCAAACAAAGGGAATTTCTTGCAGCAATGACCAGGAGCTAGACTGTGACATTTCCAGCTGGA
 GTACGTAGGGGCGATCAGCATGCTTATTGTAGTCCACGGAAGCTATCGGGAATGAAGACTCTTGAAGCA
 CAGCTTACACCCAGGTGGTGGAGAGATGGCAAAAAGCATGACAACAGAAGTCTGAGAGGTAAGTCTTGC
 CAAAGTTAAGCTTGAGAAGAATTACAACCTGGTGGAGGTCCTTAAGTCCATGGGAATCACAAGACTCTT
 CAACAAGAATGGCAATATGTCAGGCATCTCAGACCAGAGGATCGCCATTGACCTGTTCAAGCACCAAAGT
 ACCATCACAGTGAATGAAGAGGGTACCCAAGCTGCAGCTGTAAGTACAGTGGGGTTCATGCCGCTGTCTA
 CCCAAGTCCGATTCAGTGTGACCCGTCCTTCTGTTCTAGTGTATGAGCACCGAACCAAGCTGTCTGCT
 CTTTCATGGGAAAAGTGACCAACCCTGCCAAGTCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207666 representing NM_008223
 Red=Cloning site Green=Tags(s)

MKHPLCTLLSLITFMCIGSKGLAEQLTNEMLTTSFLPANFHKENTVTNDWIPEGEEDDYLDLEKLLGED
 DDYIYIIDA VSPDSESSAGNILQLFQGKSRIQRLNILNAKFANLYRVLKDQATSDNLFIAVPGISTA
 MGMISLGLRGETH EEVHSLVLFHRDFVNASSKYEVTTIHNLFRKLTHRLFRRNFGYTLRSVNGLYIQKQFP
 IREDFKAAMREFYFAEAQEANFPDPAFISKANNHILKLTGLIKEALENIDPATQMLILNCIYFKGTWVN
 KFPVEMTHNHFRLNEREVVKVSMQTKGNFLAANDQELDCDILQLEYVGGISMLIVVPRKLSGMKTLEA
 QLTQPQVVERWQKSMNRTREVLLPKFKLEKNYLVVLKSMGITKLFNKNGNMSGISDQRIADLFDKHQS
 TITVNEEGTQAAAVTTVGFMPPLSTQVRFVDRPFLFLVVEHRTSCLLFMGKVTNPAKS

TRTRPLE – GFP Tag – V

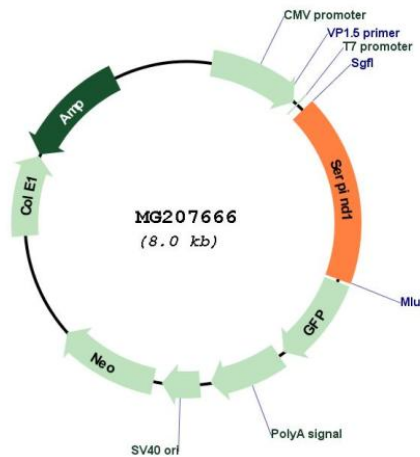
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_008223

ORF Size: 1434 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_008223.4](#)

RefSeq Size: 2160 bp

RefSeq ORF: 1437 bp

Locus ID: 15160

UniProt ID: [P49182](#)

Cytogenetics: 16 10.74 cM

Gene Summary: Thrombin inhibitor activated by the glycosaminoglycans, heparin or dermatan sulfate. In the presence of the latter, HC-II becomes the predominant thrombin inhibitor in place of antithrombin III (AT). Also inhibits chymotrypsin, but in a glycosaminoglycan-independent manner.[UniProtKB/Swiss-Prot Function]