

## Product datasheet for **MR207666**

### Serpind1 (NM\_008223) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Serpind1 (NM_008223) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Serpind1
Synonyms:	AA985900; AI303446; HC-II; Hcf2; HCII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207666 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAACATCCACTCTGCACTCTTCTTTCTCTCATCATTATGTGTATTGGGAGCAAAGGCCTTGCTG  
 AGCAGCTAACTAATGAAAACCTGACCACGTCCTCCTGCCTGCTAACTTCCACAAAAGAAAACACAGTCAC  
 CAATGACTGGATCCCAGAGGGGGAAGAGGATGAGGACTACCTGGACCTGGAGAAGCTGCTTGGTGAAGAT  
 GACGACTACATTTATATCATCGATGCCGTTTCCCCGACAGACTCAGAATCAAGTCTGGCAACATCCTGC  
 AGCTTTTCCAAGCAAGAGCCGGATCCAGCGTCTTAATATCCTCAATGCAAAGTTTGCCTTCAACCTTTA  
 CCGAGTCTGAAGGACCAGGCTACCACATCTGATAACCTTTCATAGCACCTGTTGGCATTCTACTGCC  
 ATGGGGATGATCTCCTTAGGTCTGAGGGGAGAGACCCATGAAGAAGTACACTCAGTTCTACACTTCAGAG  
 ACTTTGTCAATGTAGCAGCAAGTACGAGTTACCACCATTACAATCTCTTTCGAAAGCTGACCCATCG  
 TCTATTACAGGAGGAATTTGGGTACACACTTCGGTCAGTTAATGGCCTTTATATTCAGAAGCAGTTTCCC  
 ATACGGGAGGACTTCAAAGCTGCTATGAGAGAGTTTTACTTTGCTGAGGCCAGGAGGCTAACTCCAG  
 ATCCTGCCTTCATATCAAAGGCAAAACAACCACATTCTGAAACTACCAAGGGCCTTATAAAAAGAGCTCT  
 GGAGAATATAGATCCTGCTACTCAGATGCTGATTCTGAACTGCATCTACTTCAAAGGAAGTTGGGTGAAT  
 AAATCCCAGTAGAAATGACGCACAACCACAACCTCCGGCTGAATGAGAGAGAAGTAGTCAAAGTCTCCA  
 TGATGCAAACAAAGGGAATTTCTTGCAGCAATGACCAGGAGCTAGACTGTGACATTCACAGCTGGA  
 GTACGTAGGGGCATCAGCATGCTTATTGTAGTCCACGGAAGCTATCGGGAATGAAGACTCTTGAAGCA  
 CAGCTTACACCCAGGTGGTGGAGAGATGGCAAAAAGCATGACAACAGAAGCTCGAGAGTACTTCTGC  
 CAAAGTTAAGCTTGAGAAGAATTACAACCTGGTGGAGGTCCTTAAGTCCATGGGAATCACAAGCTCTT  
 CAACAAGAATGGCAATATGTGAGGCATCTCAGACCAGAGGATCGCCATTGACCTGTTCAAGCACCAAAGT  
 ACCATCACAGTGAATGAAGAGGGTACCCAAGCTGCAGCTGTAACACTACAGTGGGGTTCATGCCGTGTCTA  
 CCCAAGTCCGATTCACTGTGCAGCGTCCCTTCTGTTCTAGTGTATGAGCACCGAACCAAGCTGTCTGCT  
 CTTTCATGGGAAAAGTGACCAACCCTGCCAAGTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207666 protein sequence  
 Red=Cloning site Green=Tags(s)

MKHPLCTLLSLITFMCIGSKGLAEQLTNEMLTTSFLPANFHKENTVTNDWIPEGEEDYLDLEKLLGED  
 DDYIYIIDAVSPTDSESSAGNILQLFQKSRISRIQLNILNAKFAFNLYRVLKDQATTSDNLFIAVPGISTA  
 MGMIISLGLRGETHEEVHSLVHFRDFVNASSKYEVTTIHNLFRKLTHRLFRNFGYTLRSVNGLYIQKQFP  
 IREDFKAAMREFYFAEAQEANFPDPAFISKANNHILKLTGGLIKEALENIDPATQMLILNCIYFKGTWVN  
 KFPVEMTHNHNFRLLNEREVVKVSMQTKGNFLAANDQELDCDILQLEYVGGISMLIVVPRKLSGMKTLEA  
 QLTPQVVERWQKSMNRTREVLLPKFKLEKNYNLVEVLKSMGITKLFNKNGNMSGISDQRIADLFKHQS  
 TITVNEEGTQAAAVTTVGFMPNSTQVRFTVDRPFLFLVYEHRTSCLLFMGKVTNPAKS

**TR**TRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



ACCN: NM\_008223

ORF Size: 1437 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: 2204 bp

RefSeq ORF: 1437 bp

Locus ID: 15160

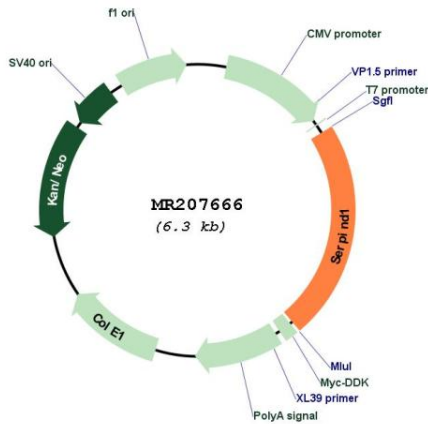
UniProt ID: [P49182](#)

Cytogenetics: 16 10.74 cM

MW: 54.5 kDa

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]

**Product images:**



Circular map for MR207666