

Product datasheet for **MR207423**

Serpinc1 (NM_080844) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Serpinc1 (NM_080844) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Serpinc1
Synonyms:	A1114908; At-3; At3; ATIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR207423 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTATCCCCTGGGCGAGGAAGTGGGCTGCTGGTGAGAGGAAGCTTTGTCTCCTCTCTCTGCTCCTCA
 TCGGTGCCTTGGGCTGTCTATCTGTACAGGAAACCCCTGTGGACGACATCTGCATAGCGAAGCCCCGAGA
 CATCCCCGTGAATCCCTTGTGCATTTACCGCTCCCTGGGAAGAAGGCCACCGAGGAGGATGGCTCAGAG
 CAGAAGGTTCCAGAAGCCACCAACCGCGGGTCTGGAACTGTCCAAGGCCAATTCGCGATTTGCCACTA
 ACTTCTACCAGCACCTGGCAGACTCCAAGAATGACAACGACAACATTTTCTGTCAACCCTTGAGCATCTC
 CACTGCTTTTGTATGACCAAGCTGGGTGCCTGTAACGACTCTCAAGCAGCTGATGGAGGTTTTTAA
 TTTGATACCATCTCCGAGAAGACATCCGACCAGATCCACTTCTTTTGGCAAACCTGAAGTCCGACTCT
 ATCGAAAAGCCAAAGTCTCTGACTTGGTATCAGCAAACCGCCTTTTGGAGACAAATCCCTCACCTT
 CAACGAGAGCTATCAAGATGTTAGTGAGTTGTCTATGGAGCCAAGCTCCAGCCCCTGGACTTCAAGGAG
 AATCCGGAGCAATCCAGAGTGACCATCAACAACCTGGGTAGCTAATAAGACTGAAGCCGCATCAAAGATG
 TCATCCCACAGGGCGCCATTAACGAGCTCACTGCCCTGGTTCTGGTTAACACCATTTACTTCAAGGGCCT
 GTGGAAGTCAAAGTTCAGCCCTGAGAACACAAGGAAGGAACCGTTCTATAAGGTCGATGGGCAGTCATGC
 CCAGTGCCTATGATGTACCAGGAAGGCAAATTCAAATACCGGCGCGTGGCAGAGGGCACCCAGGTGCTAG
 AGCTGCCCTTCAAGGGGATGACATCACCATGGTGCTCATCTGCCAAGCCTGAGAAGAGCCTGGCCAA
 GGTGGAGCAGGAGCTCACCCAGAGTGTGCAGGAGTGGCTGGATGAGCTGTGAGACTATGCTTGTG
 GTCCACATGCCCCGCTTCCGACCGAGGATGGCTTCAAGGAGCAGCTGCAAGACATGGGCTCA
 TTGATCTCTTCCAGCCCTGAAAAGTCCCAACTCCAGGGATCGTTGCTGGAGGCAGGACCTATGT
 CTCGACGCATCCACAAGCATTCTTGGAGTAAATGAGGAAGGCAGTGAAGCAGCAGCGAGTACTTCT
 GTCGTGTTACTGGCCGCTCACTGAACCCCAATAGGGTGACCTTCAAGGCCAACAGGCCCTTCTGGTTC
 TTATAAGGAAGTTGCACTGAACACTATTATATTCATGGGGAGAGTGGCTAATCCTTGTGTGAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207423 protein sequence
 Red=Cloning site Green=Tags(s)

MYSFGAGSGAAGERKLCLLSLLLIGALGCAICHGNPVDDICIAKPRDIPVNPLCIYRSPGKKATEEDGSE
 QKVPEATNRRVWELSKANSRFATNFYQHLADSKNDNDNIFLSPLSISTAFAMTKLGACNDTLKQLMEVFK
 FDTISEKTSQIHFHFAKLNCRLYRKANKSSDLVSANRIFGDKSLTFNESYQDVSEVVYGAQLPLDFKE
 NPEQSRVTINNWKTEGRIKDVIPQGAINELTALVLVNTIYFKLWKSKEFSPENTRKEPFYKVDGQSC
 PVPMMYQEGKFKYRRVAEGTQVLELFPKGDITMVLILPKPEKSLAKVEQELTPELLQEWLDELSETMLV
 VHMPRFRTEDGFSLKEQLQDMGLIDLF SPEKSQLPGIVAGRRDDL YVSDAFHKAFLEVN EEGSEAAASTS
 VVITGRSLNPNRVTFKANRPFLVLI REVALNTIIFMGRVANPCVN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_080844

ORF Size: 1398 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_080844.5](#)

RefSeq Size: 2171 bp

RefSeq ORF: 1398 bp

Locus ID: 11905

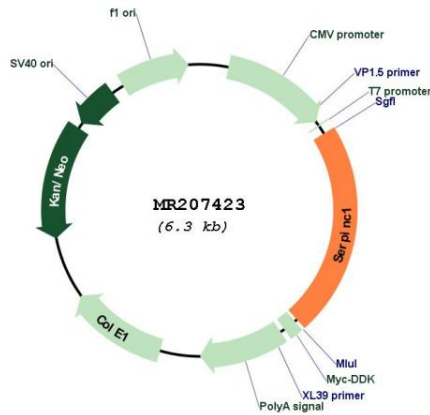
UniProt ID: [P32261](#)

Cytogenetics: 1 69.75 cM

MW: 52 kDa

Gene Summary: Most important serine protease inhibitor in plasma that regulates the blood coagulation cascade. AT-III inhibits thrombin, matrilysin-3/TMPRSS7, as well as factors IXa, Xa and XIa. Its inhibitory activity is greatly enhanced in the presence of heparin (By similarity).
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207423