

## Product datasheet for **MG207423**

### Serpinc1 (NM\_080844) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Serpinc1 (NM_080844) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Serpinc1
Synonyms:	A1114908; At-3; At3; ATIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207423 representing NM\_080844  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTATCCCCTGGGCGAGGAAGTGGGCTGCTGGTGAGAGGAAGCTTTGTCTCCTCTCTCTGCTCCTCA  
 TCGGTGCCTTGGGCTGTGCTATCTGTACGGAAACCCTGTGGACGACATCTGCATAGCGAAGCCCCGAGA  
 CATCCCCTGTAATCCCTTGTGCATTTACCGCTCCCTGGGAAGAAGGCCACCGAGGAGGATGGCTCAGAG  
 CAGAAGGTTCCAGAAGCCACCAACCGCGGGTCTGGAACTGTCCAAGGCCAATTCGCGATTTGCCACTA  
 ACTTCTACCAGCACCTGGCAGACTCCAAGAATGACAACGACAACATTTTCTGTCAACCTTGAGCATCTC  
 CACTGCTTTTGTATGACCAAGCTGGGTGCCTGTAAACGACTCTCAAGCAGCTGATGGAGGTTTTTAA  
 TTTGATACCATCTCCGAGAAGACATCCGACCAGATCCACTTCTTCTTTGCCAACTGAACTGCCGACTCT  
 ATCGAAAAGCCAAAGTCTCTGACTTGGTATCAGCCAACCGCCTTTTGGAGACAAATCCCTCACCTT  
 CAACGAGAGCTATCAAGATGTTAGTGAGTTGTCTATGGAGCCAAGCTCCAGCCCCTGGACTTCAAGGGAG  
 AATCCGGAGCAATCCAGAGTGACCATCAACAACCTGGTAGCTAATAAGACTGAAGCCCGCATCAAAGATG  
 TCATCCCACAGGGCGCCATTAACGAGCTCACTGCCCTGGTTCTGGTTAACACCATTTACTTCAAGGGCCT  
 GTGGAAGTCAAAGTTCAGCCCTGAGAACAAGGAAGGAACCGTTCTATAAGGTCGATGGGCAGTCATGC  
 CCAGTGCCTATGATGTACCAGGAAGGCAAATTCAAATACCGGCGCGTGGCAGAGGGCACCCAGGTGCTAG  
 AGCTGCCCTTCAAGGGGATGACATCACCATGGTGTCTATCTGCCCAAGCCTGAGAAGAGCCTGGCCAA  
 GGTGGAGCAGGAGCTCACCCAGAGTGTCTGCAGGAGTGGCTGGATGAGCTGTGAGACTATGCTTGTG  
 GTCCACATGCCCGCTTCCGACCGAGGATGGCTTCACTCTGAAGGAGCAGCTGCAAGACATGGGCTCA  
 TTGATCTCTTCCAGCCCTGAAAAGTCCCAACTCCAGGGATCGTTGCTGGAGGCAGGACGACCTCTATGT  
 CTCGACGCAATCCACAAGCATTCTTGAGGTAATGAGGAAGCAGTGAAGCAGCAGCGAGTACTTCT  
 GTCGTGTTACTGGCCGCTCACTGAACCCCAATAGGGTGACCTTCAAGGCCAACAGGCCCTTCTGGTTC  
 TTATAAGGAAGTTGCACTGAACACTATTATATTCATGGGGAGAGTGGCTAATCCTTGTGTGAAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207423 representing NM\_080844  
 Red=Cloning site Green=Tags(s)

MSPGAGSGAAGERKLCLLSLLLIGALGCAICHGNPVDDICIAKPRDIPVNPLCIYRSPGKKATEEDGSE  
 QKVPEATNRRVWELSKANSRFATNFYQHLADSKNDNDNIFLSPLSISTAFAMTKLGACNDTLKQLMEVFK  
 FDTISEKTSQIHHFFAKLNCRLYRKANKSSDLVSANRLF GDKSLTFNESYQDVSEVVYGAQLQLDFKE  
 NPEQSRVTINNWKTEGRIKDVIPQAINELTALVLVNTIYFKGLWKSFKSPENTRKEPFYKVDGQSC  
 PVPMMYQEGKFKYRRVAEGTQVLELPPFKGDDITMVLILPKPEKSLAKVEQELTPELLQEWLDELSETMLV  
 VHMPFRFTEDGFSLEQLQDMGLIDLF SPEKSQLPGIVAGGRDDLIVSDAFHKAFLEVNEEGSEAAASTS  
 VVITGRSLNPNRVTFKANRPFLVLIREVALNTIIFMGRVANPCVN

**TRTRPLE** - GFP Tag - V

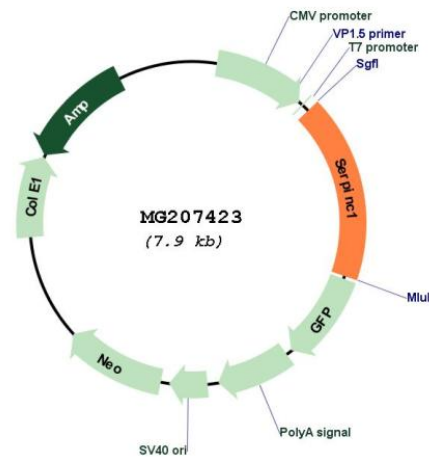
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_080844

ORF Size: 1395 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.

<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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_080844.5</a>
<b>RefSeq Size:</b>	1999 bp
<b>RefSeq ORF:</b>	1398 bp
<b>Locus ID:</b>	11905
<b>UniProt ID:</b>	<a href="#">P32261</a>
<b>Cytogenetics:</b>	1 69.75 cM
<b>Gene Summary:</b>	Most important serine protease inhibitor in plasma that regulates the blood coagulation cascade. AT-III inhibits thrombin, matriptase-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]