

## Product datasheet for MR205822

### Serpib5 (NM\_009257) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Serpib5 (NM_009257) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Serpib5
Synonyms:	1110036M19Rik; AI462524; AI646751; Maspin; ovalbumin; PI-5; Spi7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205822 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATGCCCTGAGACTGGCAAATTCAGCTTTTGCTGTTGACTTGTTCAAACAACATGTGAAAGGGACC  
CAGCAGGAAACATTCTCTCTCCAATATGCCTCTACTTCTGTCCCTTGCACAAGTGGGCACCAA  
AGGCGACACAGCAAATGAAATTGGACAGGTCCTTCATTTGAGAATGTCAAAGATGTACCCTTTGGGTTT  
CAAACAGTCACTTCTGATGTTAATAAGCTCAGTCTTTTTACTCTTTGAACTTGTCAAGCGACTCTACA  
TAGACAAATCCCTGAACCCTTACAGAATTTATCAGTCTACCAAAGACCATATGCAAAAGAATTGGA  
AACTGTTGACTTCAAAGACAACTGGAAGAAACGAAAGGTCAAATTAACAGCTCCATTAAGGAGCTCACA  
GATGGCCACTTTGAGGACATTTTGTGAGAGAAGCAGTATAAGTGACCAGACCAAAATCCTTGTGGTTAATG  
CTGCCTACTTTGTTGAAAGTGGATGAAGAAATTTCCGGAATCAGAAACAAAAGAATGTCCTTTTCAAGT  
CAGCAAGACAGACACCAAAACCCGTACAAATGATGAATCTTGAGGCCACTTTCTGCTTGGGTAACATTGAT  
GACATCAGCTGTAAGATCATAGAATTCCTTTCCAGAATAAGCATCTGAGTATGCTCATTGTGCTCCCA  
AGGACGTGGAGGATGAGTCCACAGGCTGGAGAAGATTGAACAGCAACTCAACCCAGAAACATTGTTACA  
GTGGACCAACCCAGTACCATGGCCAATGCCAAAGTCAAATTTCCCTCCCAAAGTTTAAGGTAGAAAAG  
ATGATTGATCCCAAGGCTAGTCTGGAAGCCTAGGCTGAAAAGTCTTCAATGAAAGTACATCGGATT  
TCTCTGGAATGTGAGACCAAGGAGTGCCTGTCAAATGTGATTCATAGAGTATGCCTAGAAAATAAC  
CGAAGATGGTGGTGAAGTCCATCGAGGTGCCAGGTCCTCGGATCTTACAGCACAAGGATGAATTCAATGCT  
GACCATCCATTTATTTATATCATTAGACACAACAAAACCTGAAACATCATTTTCTTTGGCAAATCTGTT  
CTCCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205822 protein sequence  
 Red=Cloning site Green=Tags(s)

MDALRLANSFAVDL FKQLCERDPAGNILFSPICLSTSLSLAQVGTGKGDANEIGQVLHFENVKDVPPFGF  
 QTVTSDVNKLSSFYSLKLVKRLYIDKSLNPSTEFISSTKRPYAKELETVDKDKLEETKGGQINSSIKELT  
 DGHFEDILSENSISDQTKILVVNAAYFVGKWMKFPESSETEKCPFRISKTDTKPVQMMNLEATFCLGNID  
 DISCKIIELPFQNKHLSMLIVLPKDVVEDESTGLEKIEQQLNPETLLQWTPSTMANAKVKLSLPKFKVEK  
 MIDPKASLESGLKSLFNSTSDFSGMSETKGVSLSNVIHRVCLEITEDGGESIEVPGSRILQHKDEFNA  
 DHPFIYIIRHNKTRNIIFFGKFCSP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_009257

**ORF Size:** 1128 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\\_009257.2](#)

**RefSeq Size:** 2565 bp

**RefSeq ORF:** 1128 bp

**Locus ID:** 20724

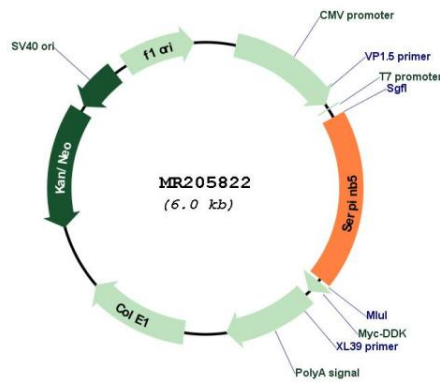
**UniProt ID:** [P70124](#)

**Cytogenetics:** 1 E2.1

**MW:** 42.1 kDa

**Gene Summary:** Tumor suppressor. It blocks the growth, invasion, and metastatic properties of mammary tumors. As it does not undergo the S (stressed) to R (relaxed) conformational transition characteristic of active serpins, it exhibits no serine protease inhibitory activity (By similarity). [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR205822