

## Product datasheet for **MR219759**

### Spam1 (NM\_009241) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Spam1 (NM_009241) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Spam1
Synonyms:	AV039194; Ph-20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR219759 representing NM\_009241  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGAGAGTTGAGATTTAAGCACCTCTTTTGGGGGAGCTTTGTTGAATCTGGGGGCACATTCCAACACAG  
 TGTTAATCTTCTTTTGGATTCCATGCTCCTTGACTGTGGATTATAGGGCAGCACCAATTTTATCAAATAC  
 AACTTTCCTTTGGATTTGGAATGTCCAACTGAACGTTGTGTAGGAAATGTTAATGATCCAAATAGATCTG  
 AGCTTCTTCTCTTAATTGGAAGCCCCGAAAACCTGCCACAGGGCAACCTGTCACATTATTTTATGTTG  
 ATCGACTTGGTTGTATCCTCACATAGATGCAAACCAAGCAGAACATTATGGAGGAATACCTCAGAGGGG  
 CGATTATCAAGCTCATTGCGCAAAGCTAAGACTGACATAGAGCATTACATTCCAGACGACAAATGGGC  
 TTAGCTATCATTGACTGGGAAGAATGGAGGCCTACCTGGTTGAGAACTGGAAACCTAAGGATAACTACA  
 GGAATAAGTCTATTGAATTGGTCCAATCAACTAATCCAGGACTTAGTATCACAGAAGCCACCCAGAAAGC  
 CATAACAATTTGAAGAGGCAGGAAGGAAGTTTATGGAAGGAACTTTACACCTGGGAAATTCCTTCGA  
 CCAAACAGCTATGGGGTTATTATCTATTTCTGATTGTTATAACAATAAGTTTCAAGACCTAAGTATG  
 ATGGGCAGTGCCTGCTGTGAAAAGAAAAGAAATGATAATCTTAAATGGCTATGGAAAGCAAGCACCGG  
 CCTTACCCTACTGTCTATTTGAAGAAAGACTTGAAGTCCAATCGACAAGCTACCCTCTATGTCCGCTAC  
 CGAGTTGTGGAAGCTATCAGAGTGTCCAAGTTGGGAATGCATCGGATCCAGTCCCGATTTTTGTCTATA  
 TCCGCTCTGTTTTACTGATCGTACCTCTGAATACCTCTAGAGGATGACCTTGTGAATACAATTTGGTGA  
 AATTGTTGCTCTGGGTACCTCTGGAATTATAATATGGGATGCTATGAGTTTAGCACAACGTGCGGCAGGT  
 TGCCCAATCCTACATAAATACATGCAGACGACCCTGAATCCATACATAGTCAATGTTACCCTAGCAGCCA  
 AAATGTGCAGCCAAACACTTTGTAAATGAGAAAGGCATGTGTTCAAGAAGAAAAGAAAGTTCCAGATGATA  
 TCTTCACTTGAACCCAAGTCATTTTATATTATGTTAACGAACTGGAAAGTACGAAGTCTTGGCAAC  
 CCCAGGTTGGAGACTTAGAATACTTTTCTGAACATTTTAAATGCAGCTGTTTTAGCAGAATGACATGTA  
 AGGAGACATCTGATGTAATAAATGTACAAGACGTGAATGTGTGCGTGGTACAATGTTTGTATAAAAGC  
 CAAGGTAGAACCAACCCAGCCTTCTACCTCCTACCTGGCAAAGCCTTCTATTTATGACAACACTTGGT  
 CATGTGCTGTACCATCTGCCACAAGATATTTTTGTTTTCCAGGAAGACACTAGTCAGTACTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR219759 representing NM\_009241  
 Red=Cloning site Green=Tags(s)

MGELRFKHLFWGSFVESGGTFQTVLIFLLIPCSLTVDYRAAPILSNTTFLWIWNVPTERCVGNVNDPIDL  
 SFFSLIGSPRKATGQPVTLFYVDRLGLYPHIDANQAEHYGGIPQRGDYQAHLRKAKTDIEHYIPDDKLG  
 LAIIDWEWRPTWLRNWKPKDNYRNKSIELVQSTNPGLSITEATQKAIQQFEEAGRKFMEGTLHLGKFLR  
 PNQLWGYLFPDCYNNKFQDPKYDQCFAVEKKRNDNLKWLWKASTGLYPSVYLKDLKSNRQATLYVRY  
 RVVEAIRVSKVGNASDPVPIFVYIRLVFTDRTSEYLLEDDLVTIIGEIVALGTSGIIWDAMSLAQRAG  
 CPILHKYMQTTLNPNYIVNVTLAAKMCSQTLCNEKGMCSRREKSSDVYHLNPSHFDIMLTETGKYEVLGN  
 PRVGDLEYFSEHKCSCFSRMTCKETSDVKNVQDVNVCVGDNVCIKAKVEPNPAFYLLPGKSLLFMTTLG  
 HVLYHLPQDIFVFPKTLVSTP

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9076\\_c04.zip](https://cdn.origene.com/chromatograms/mm9076_c04.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_009241

**ORF Size:** 1536 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\\_009241.3](#), [NP\\_033267.2](#)

**RefSeq Size:** 2107 bp

**RefSeq ORF:** 1539 bp

**Locus ID:** 20690

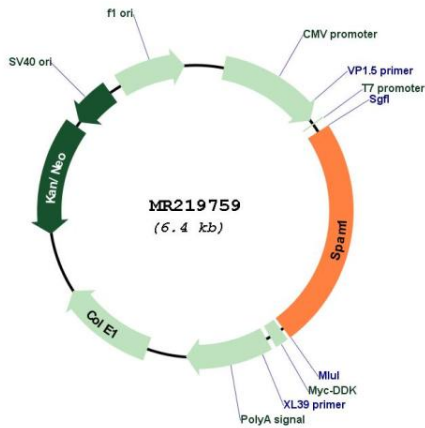
**UniProt ID:** [P48794](#)

**Cytogenetics:** 6 11.28 cM

**MW:** 58.5 kDa

**Gene Summary:** Involved in sperm-egg adhesion. Upon fertilization sperm must first penetrate a layer of cumulus cells that surrounds the egg before reaching the zona pellucida. The cumulus cells are embedded in a matrix containing hyaluronic acid which is formed prior to ovulation. This protein aids in penetrating the layer of cumulus cells by digesting hyaluronic acid. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR219759