

Product datasheet for **MG219759**

Spam1 (NM_009241) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spam1 (NM_009241) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Spam1
Synonyms:	AV039194; Ph-20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG219759 representing NM_009241
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGAGAGTTGAGATTTAAGCACCTCTTTTGGGGGAGCTTTGTTGAATCTGGGGGCACATTCCAACACAG
 TGTTAATCTTCTTTTGATTCCATGCTCCTTGACTGTGGATTATAGGGCAGCACCAATTTTATCAAATAC
 AACTTTCCTTTGGATTTGGAATGTCCAACTGAACGTTGTGTAGGAAATGTTAATGATCCAATAGATCTG
 AGCTTCTTCTCTTAATTGGAAGCCCCGAAAACCTGCCACAGGGCAACCTGTCACATTATTTTATGTTG
 ATCGACTTGGTTGTATCCTCACATAGATGCAAACCAAGCAGAACATTATGGAGGAATACCTCAGAGGGG
 CGATTATCAAGCTCATTGCGCAAAGCTAAGACTGACATAGAGCATTACATTCCAGACGACAAATGGGC
 TTAGCTATCATTGACTGGGAAGAATGGAGGCCTACCTGGTTGAGAACTGGAAACCTAAGGATAACTACA
 GGAATAAGTCTATTGAATTGGTCCAATCAACTAATCCAGGACTTAGTATCACAGAAGCCACCCAGAAAGC
 CATAACAATTTGAAGAGGCAGGAAGGAAGTTTATGGAAGGAACCTTACACCTGGGGAAATTCCTTCGA
 CCAAACAGCTATGGGGTTATTATCTATTTCTGATTGTTATAACAATAAGTTTCAAGACCTAAGTATG
 ATGGGCAGTGCCTGCTGTGAAAAGAAAAGAAATGATAATCTTAAATGGCTATGGAAAGCAAGCACCGG
 CCTTACCCTACTGTCTATTTGAAGAAAGACTTGAAGTCCAATCGACAAGCTACCCTCTATGTCCGCTAC
 CGAGTTGTGGAAGCTATCAGAGTGTCCAAGTTGGGAATGCATCGGATCCAGTCCCGATTTTTGTCTATA
 TCCGCTCTGTTTTACTGATCGTACCTCTGAATACCTTAGAGGATGACCTTGTGAATACAATTTGGTGA
 AATTGTTGCTCTGGGTACCTCTGGAATTATAATATGGGATGCTATGAGTTAGCACAACTGCGGCAGGT
 TGCCCAATCCTACATAAATACATGCAGACGACCCTGAATCCATACATAGTCAATGTTACCCTAGCAGCCA
 AAATGTGCAGCCAAACACTTTGTAATGAGAAAGGCATGTGTTCAAGAAGAAAAGAAATTCAGATGTATA
 TCTTCACTTGAACCCAAGTCATTTTATGATTATGTTAACGAACTGGAAAGTACGAAGTTCTTGGCAAC
 CCCAGGTTGGAGACTTAGAATACTTTTCTGAACATTTTAAATGCAGCTGTTTTAGCAGAATGACATGTA
 AGGAGACATCTGATGTAATAAATGTACAAGACGTGAATGTGTGCGTGGTACAATGTTGTATAAAAGC
 CAAGGTAGAACCAACCCAGCCTTCTACCTCCTACCTGGCAAAGCCTTCTATTTATGACAACACTTGGT
 CATGTGCTGTACCATCTGCCACAAGATATTTTTGTTTTCCACGGAAGACACTAGTCAGTACTCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG219759 representing NM_009241
 Red=Cloning site Green=Tags(s)

MGELRFKHLFWGSFVESGGTFQTVLIFLLIPCSLTVDYRAAPILSNTTFLWIWNVPTERCVGNVNDPIDL
 SFFSLIGSPRKTATGQPVTLYVDRLGLYPHIDANQAEHYGGIPQRGDYQAHLRKAKTDIEHYIPDDKLG
 LAIIDWEEWRPTWLRNWKPKDNYRNKSIELVQSTNPGLSITEATQKAIQQFEEAGRKFMEGTLHLGKFLR
 PNQLWGYLFPDCYNNKFQDPKYDGQCPAVEKKRNDNLKWLWKASTGLYPSVYLKDLKSNRQATLYVRY
 RVVEAIRVSKVGNASDPVPIFVYIRLVFTDRTSEYLLEDDLVTIGEIVALGTSGIIWDAMSLAQRRAAG
 CPILHKYMQTTLPYIVNVTLAAKMCSQTLCNEKGMCSRRESVDVYLHLNPSHFDIMLTETGKYEVLGN
 PRVGDLEYFSEHKCSCFSRMTCKETSDVKNVQDVNVCVGDNVCIKAKVEPNPAFYLLPGKSLLFMTTLG
 HVLYHLPQDIFVFPKTLVSTP

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-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: 2096 bp

RefSeq ORF: 1539 bp

Locus ID: 20690

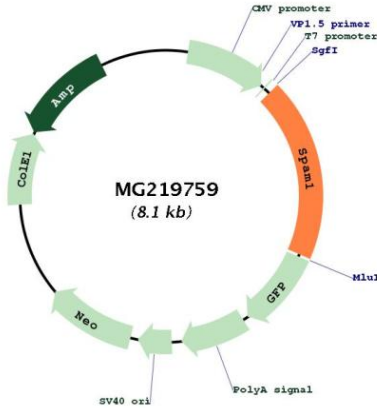
UniProt ID: [P48794](#)

Cytogenetics: 6 11.28 cM

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 MG219759