

## Product datasheet for MR219939

### Sun5 (NM\_029599) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sun5 (NM_029599) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sun5
Synonyms:	1700021O15Rik; Spag4l; SPAG4L-2; SRG4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR219939 representing NM_029599 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGCCCGGACGAGGAACATCGGGCCTTGTGTACCTACCTGAAGACACAACCTCACAGTGGCAGGCCTA  
GGAGGGCGTCCAAGAAGCTATATCAGCAGAATGGCAGAGCCAGCCCCGCAAACATGACCTGGCTCAC  
CTACCTAGCCTGCTTCTGAGGACTCAGACCCAGCAAGTTTTCTTAACACCTGCAGATGCAAGTTGTT  
TGCCAGAAAGTCATGAAAAGATGGCCCTTCTGGTCTCTGTGTTTTGGCTTCTGGATGTTTTCCATGC  
ACTTACCATCAAAGTGGAAGTCTGGCAGGATGACAGCATAAATGGTCCATTGCAGAGCCTGAGGATGTA  
CCAGGAGAAGGTACGACATCACACTGGGAAATCCAGGACCTACGAGGTAGCATGAACCAGCTCATTGCC  
AACTCCAGAAGATGGAAGCCATATCTGATGAGCAAAAAATGGCCAGAAAATAATGAAGATGATTCAAG  
GTGATTACATTGAAAAGCCAGACTTTGCCCTGAAGTCCATAGGGGCCAGCATCGACTTCGAGCACACGTC  
AGCCACGTATAACCACGACAAGGCTCGCTCCTACTGGAAGTGGATCCGACTGTGGAAGTACGCGCAGCCC  
CCGGATGTGATCCTTGAGCCAAACGTGACACCTGGGAAGTGTGGCCCTTTGCCAGTGACCGCGCCAGG  
TGACCATCCGTTTGGCCAGAAAGTCTACCTGTCCAACATTACACTGCAGCACATTCCTAAGACAATCTC  
GTTGTGCGGAAGCCTGGACACCCGACCAAAGGACTTTGTCATCTATGGCTTGAGAGCCTACCCAGGGAG  
GAAGTGTTCCTAGGGCATTCCAGTTTCAGCCAGAAAACATCATCAAACGTTTCAGCTCCAGAACCTGC  
CACCCAGGAGCTTTGCTGCAGTCAAGGTGAAGATCTCCAGCAACTGGGGGAACCCCTCGCTTACCTGCAT  
GTACCGTGTGCGTGTGCACGGCTCTGTAACCCCTCCCAAAGACTCACACCTAGAGCCCTATCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR219939 representing NM\_029599  
 Red=Cloning site Green=Tags(s)

MPRTRNIGALCTLPEDTTHSGRPRRGVQRSYISRMAEPAPANMTWLTYLACFLRTQTQQVFLNTRCKLF  
 CQKVMKMGLLVLCVFGFWMFMSHLPSKVEVWQDSDSINGPLQLSRMYQEKVRHHTGEIQDLRGSMNQLIA  
 KLQKMEAISDEQKMAQKIMKMIQGDYIEKPDFALKSIGASIDFEHTSATYNHDKARSYWNWIRLWNYAQP  
 PDVILEPNVTPGNCWAFASDRGQVTIRLAQKVYLSNITLQHIPKTIISLGSGLDTAPKDFVIYGLLESLPRE  
 EVFLGAFQFQPENIIQTFQLQNLPPRSFAAVKVKISSNWGNPRFTCMYRVRVHGSVTPPKDASHLEPLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9038\\_a10.zip](https://cdn.origene.com/chromatograms/mm9038_a10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_029599

**ORF Size:** 1044 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\\_029599.2](#)

**RefSeq Size:** 1155 bp

**RefSeq ORF:** 1047 bp

**Locus ID:** 76407

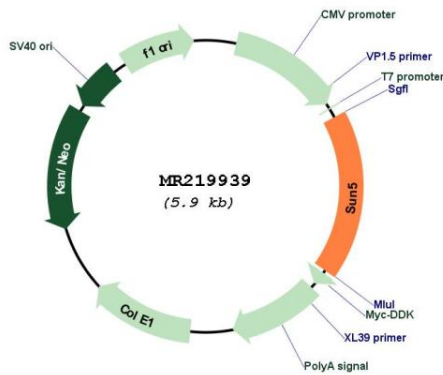
**UniProt ID:** [Q9DA32](#)

**Cytogenetics:** 2 H1

**MW:** 40.4 kDa

**Gene Summary:** Plays an essential role in anchoring sperm head to the tail. Is responsible for the attachment of the coupling apparatus to the sperm nuclear envelope.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR219939