

Product datasheet for **MG219939**

Sun5 (NM_029599) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sun5 (NM_029599) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sun5
Synonyms:	1700021O15Rik; Spag4l; SPAG4L-2; SRG4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG219939 representing NM_029599 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCGGACGAGGAACATCGGGCCTTGTGTACCTACCTGAAGACACAACCTCACAGTGGCAGGCCTA
GGAGGGCGTCCAAGAAGCTATATCAGCAGAATGGCAGAGCCAGCCCCGCAAACATGACCTGGCTCAC
CTACCTAGCCTGCTTCTGAGGACTCAGACCCAGCAAGTTTTCTTAACACCTGCAGATGCAAGTTGTT
TGCCAGAAAGTCATGAAAAGATGGCCTTCTGGTCTCTGTGTTTTGGCTTCTGGATGTTTTCCATGC
ACTTACCATCAAAGTGGAAGTCTGGCAGGATGACAGCATAAATGGTCCATTGCAGAGCCTGAGGATGTA
CCAGGAGAAGGTACGACATCACACTGGGAAATCCAGGACCTACGAGGTAGCATGAACCAGCTCATTGCC
AACTCCAGAAGATGGAAGCCATATCTGATGAGCAAAAAATGGCCAGAAAATAATGAAGATGATTCAAG
GTGATTACATTGAAAAGCCAGACTTTGCCCTGAAGTCCATAGGGGCCAGCATCGACTTCGAGCACACGTC
AGCCACGTATAACCACGACAAGGCTCGCTCCTACTGGAAGTGGATCCGACTGTGGAAGTACGCGCAGCCC
CCGGATGTGATCCTTGAGCCAAACGTGACACCTGGGAAGTGTGGCCTTTGCCAGTGACCGCGCCAGG
TGACCATCCGTTTGGCCAGAAAGTCTACCTGTCCAACATTACACTGCAGCACATTCCTAAGACAATCTC
GTTGTGCGGAAGCCTGGACACCCGACCAAAGGACTTTGTATCTATGGCTTGAGAGCCTACCCAGGGAG
GAAGTGTTCCTAGGGCATTCCAGTTTCAGCCAGAAAACATCATCAAACGTTTCAGCTCCAGAACCTGC
CACCCAGGAGCTTTGCTGCAGTCAAGGTGAAGATCTCCAGCAACTGGGGGAACCCCTCGCTTACCTGCAT
GTACCGTGTGCGTGTGCACGGCTCTGTAACCCCTCCCAAAGACTCACACCTAGAGCCCTATCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG219939 representing NM_029599
 Red=Cloning site Green=Tags(s)

MPRTRNIGALCTLPEDTTHSGRPRRGVQRSYISRMAEPAPANMTWLTYLACFLRTQTQQVFLNTRCKLF
 CQKVMKMGLLVLCVFGFWMFMSHLPSKVEVWQDSDINGPLQSLRMYQEKVRHHTGEIQDLRGSMNQLIA
 KLQKMEAISDEQKMAQKIMKMIQGDYIEKPDFALKSIGASIDFEHTSATYNHDKARSYWNWIRLWNYAQP
 PDVILEPNVTPGNCWAFASDRGQVTIRLAQKVYLSNITLQHIPKTIISLGSGLDTAPKDFVIYGLLESLPRE
 EVFLGAFQFQPENIIQTFQLQNLPPRSFAAVKVKISSNWGNPRFTCMYRVRVHGSVTPPKDSHLEPLS

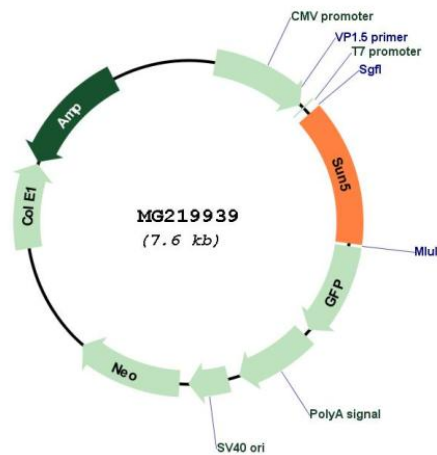
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<ol style="list-style-type: none">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
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]