

## Product datasheet for **MG226169**

### Spo11 (NM\_001083959) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Spo11 (NM\_001083959) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Spo11  
**Synonyms:** A1449549; Spo11a; Spo11b  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG226169 representing NM\_001083959  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGTTCGCGCCTATGGGGCCGAGGCCTCGTTCTTCGACGCCCTGGATCGGCACAGGGCTTCCCTGT  
TGGCCATGGTGAAGAGAGGCGCAGGGGAGACCCCTGCCGGGGCCACCCCGTGGCCTCTAGGTTTGATGA  
TTCTGTCGGCCTTCGGATGATACCTCAGTGTACCACAAGAAAAATCAGAAGCGATTACCAAATCAGTT  
AAGAAATTCGCTCTGATTCTGAAAGTATTGTCCATGATTATAAATTAATACAGAGCGACTTATGCAA  
CCAAGAGGAGCAATGCTCATTCTGTGTTGACCTTGCATCTGCATAGAGACATATACTACACTGACAGCCA  
GCTCTTTGGGAACCAGGCTGCGGTGGACAGCGCCATCGATGACATTTCCCTGTATGCTGAAAGTGCCAGG  
AGGAGTCTGCACGTGCTATCTACTTCCAAGGATTGATTGCTGGCAACTGAGATACATGGAGGAAGATG  
GTACCAGAGTCCAGTGTACCTGTAGTGCCACGGCTACTGCTGTGCCGACTAACATTCAAGGAATGCAGCA  
TCTGATCACAGATGCGAAGTTTCTGTTAATAGTCGAGAAGGATGCAACATTTCCAGCGCTCCTGGACGAC  
AACTTCTGCAGCAGGATGTCCCCGTGCATCATGGTTACGGGAAAGGGCGTTCCAGATCTGAACACGAGGC  
TCTTGGTAAAGAAGCTGTGGGACACCTTCATATTCCTGTTTTACACTGGTCGATGCAGATCCCTACGG  
CATCGAGATAATGTGCATCTATAAGTACGGATCCATGTCCATGTCTTTGAAGCTCACAATCTCACTATC  
CCAACAATCAGATGGCTTGGTCTCCTCCCTTCTGATATCCAGAGGTTAAATATACCTAAGGATAGTTTGA  
TCCCACTGACAAAAGCATGACCAGATGAAGCTGGACAGCATCCTGAAGAGGCCTTACATTACCTACCAGCC  
CCTCTGAAAAAAGAGCTGGAGATGATGCGAGACTCTAAGATGAAGGCAGAGATCCAAGCCTTGACCTTG  
CTGTCGCAGACTACCTGTCCAGAGTGTACTTACCAACAAGCTGAGGTTTGGAGGATGGATC

**ACGGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG226169 representing NM\_001083959  
 Red=Cloning site Green=Tags(s)

MAFAPMGPEASFFDALDRHRASLLAMVKRGAGETPAGATRVASRFDDSVGLRMIPQCTTRKIRSDSPKSV  
 KKFALILKVLSMIYKLIQSDTYATKRSNAHSVLTLLHHRDIYYTDSQLFGNQAAVDSAIDDISCMLKVPR  
 RSLHVLSTSKGLIAGNLRYMEEDGTRVQCTCSATATAVPTNIQGMQHLITDAKFLIVEKDATFQRLLDD  
 NFCSRMSPCIMVTGKGVDPDLNTRLLVKKLWDTFHIPVFTLVADAPYGIEIMCIYKYGSMMSFEAHNLTI  
 PTIRWLGLLPSDIQRLNIPKDSLIPLTKHDQMKLDSILKRPYITYQPLWKKELEMMADSKMKAIEIQALTL  
 LSSDYLSRVYLPNKLRFGGWI

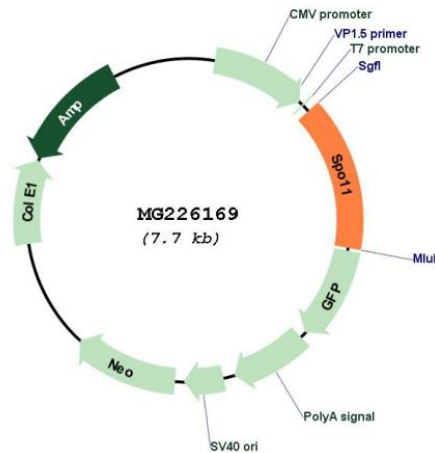
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001083959

<b>ORF Size:</b>	1113 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001083959.1</a> , <a href="#">NP_001077428.1</a>
<b>RefSeq Size:</b>	1641 bp
<b>RefSeq ORF:</b>	1116 bp
<b>Locus ID:</b>	26972
<b>UniProt ID:</b>	<a href="#">Q9WTK8</a>
<b>Cytogenetics:</b>	2 95.64 cM
<b>Gene Summary:</b>	Isoform 1: Component of a topoisomerase 6 complex specifically required for meiotic recombination. Together with TOP6BL, mediates DNA cleavage that forms the double-strand breaks (DSB) that initiate meiotic recombination (PubMed:26917764). The complex promotes relaxation of negative and positive supercoiled DNA and DNA decatenation through cleavage and ligation cycles. Essential for the phosphorylation of SMC3, HORMAD1 and HORMAD2 (PubMed:22346761).[UniProtKB/Swiss-Prot Function]