

## Product datasheet for **MG226171**

### Spo11 (NM\_001083960) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Spo11 (NM_001083960) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Spo11
Synonyms:	AI449549; Spo11a; Spo11b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226171 representing NM_001083960 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGCGTTCGCGCCTATGGGGCCGAGGCTCGTTCTTCGACGCCCTGGATCGGCACAGGGCTTCCCTGTGGCCATGGTGAAGAGAGGCGCAGGGGAGACCCCTGCCGGGGCCACCCCGTGGCCTCTAGGTTTGATGATTCTGTGGCCTTCGGATGATACCTCAGTGTACCACAAGAAAAATCAGAAGCGATTACCAAATCAGTTAAGAAATTCGCTCTGATTCTGAAAGTATTGTCCATGATTATAAATTAATACAGAGCGACTTATGCACCAAGAGAGACATATACTACACTGACAGCCAGCTTTGGGAACCAGGCTGCGGTGGACAGCGCCATCGATGACATTTCCGTATGCTGAAAGTGCCAGGAGGAGTCTGCACGTGCTATCTACTTCCAAGGGATTGATTGCTGGCAACTTGAGATACATGGAGGAAGATGGTACCAGAGTCCAGTGTACCTGTAGTGCCACGGCTACTGCTGTGCCGACTAACATTC AAGGAATGCAGCATCTGATCACAGATGCGAAGTTTCTGTTAATAGTCGAGAA GGATGCAACATTTAGCGGCTCCTGGACGACAACCTTTCGACGAGGATGTCCCGTGCATCATGGTTACGGAAAGGGCGTTCAGATCTGAACACGAGGCTCTTGGTAAAGAAGCTGTGGGACACCTTTCATATTCCTGTTTTACACTGGTCGATGCAGATCCCTACGGCATCGAGATAATGTGCATCTATAAGTACGGATCCATGTCATGTCTTTTGAAGCTCACAAATCACTATCCCAACAATCAGATGGCTTGGTCTCCTCCCTCTGATATCAGAGGTTAAATATACCTAAGGATAGTTTGATCCCACTGACAAAGCATGACCAGATGAAGCTGGACAGCATCTGAAGAGGCTTACATTACCTACCAGCCCCTCTGGAAAAAGAGCTGGAGATGATGGCAGACTCTAAGATGAAGGCAGAGATCCAAGCCTTGACCTTGCTGTGTCGTCAGACTACCTGTCCAGAGTGTACTTACCCAAC AAGCTGAGGTTTGGAGGATGGATC

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG226171 representing NM\_001083960  
 Red=Cloning site Green=Tags(s)

MAFAPMGPEASFFDALDRHRASLLAMVKRGAGETPAGATRVASRFDDSVGLRMIPQCTTRKIRSDSPKSV  
 KKFALILKVLSMIYKLIQSDTYATKRDIYYTDSQLFGNQAAVDSAIDDISCMLKVPRRSLHVLSTSKGLI  
 AGNLRYMEEDGTRVQCTCSATATAVPTNIQGMQHLITDAKFLIIVEKDQATFQRLLDNFCSRMSPCIMVT  
 GKGVLDLNTLLVKKLWDTFHIPVFTLVADDPYIGIEIMCIYKYGSMMSFEAHNLTIPTIRWLGLLPSDI  
 QRLNIPKDSLIPLTKHDQMKLDSILKRPYITYQPLWKKELEMMADSKMKAIEIQALTLLSSDYLSRVYLPN  
 KLRFGGWI

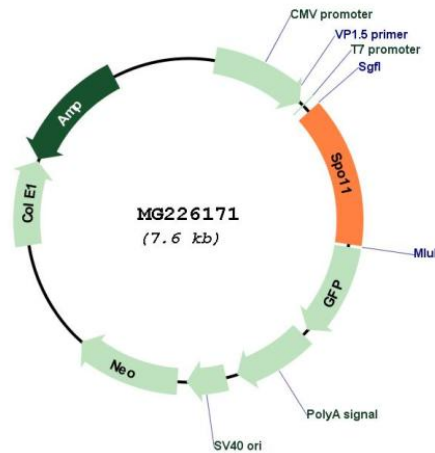
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001083960

<b>ORF Size:</b>	1074 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<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_001083960.1</a> , <a href="#">NP_001077429.1</a>
<b>RefSeq Size:</b>	1602 bp
<b>RefSeq ORF:</b>	1077 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>	<p>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]</p>