

## Product datasheet for **MG205802**

### Spop (BC043131) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Spop (BC043131) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Spop
Synonyms:	TEF2, Pcif1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205802 representing BC043131 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCAAGGGTTCCAAGTCTCCACCTCCGGCAGAAATGTCGAGTGGTCCCCTTCCGAGAGCTGGTGCT  
ATACACAGATCAAGGTAGTGAAGTTCTCTACATGTGGACCATCAATAACTTTAGTTTTTCCGGGAGGA  
AATGGGTGAAGTCATAAAAAGTTCAACTTTTTTCATCAGGAGCCAATGATAAACTGAAATGGTGTTCGCA  
GTAACCCGAAAGGGCTAGATGAAGAAAGCAAAGATTACCTGTCGCTTTACCTGTTGGTTCAGCTGTC  
CAAAGAGTGAAGTTCGGGCAAAGTTCAAGTTCTCCATCCTGAATGCCAAGGAGAAGAAACCAAAGCTAT  
GGAGAGTCAGCGAGCTTATAGGTTTCGTGCAAGGCAAGACTGGGGATTCAAAAATTCATCCGCAGAGAT  
TTTCTCTTGACGAGGCCAATGGGCTTCTCCCTGATGACAAGCTCACCTCTTCTGTGAGGTGAGTGAG  
TACAAGACTCTGTCAATATTTCTGGGCAGAATACTATGAACATGGTAAAGGTTCCGAAATGCCGGTTGGC  
AGATGAGTTAGGAGGGCTGTGGGAGAACTCTCGATTCACCGACTGCTGCTGTGTGTGGCTGGTCAAGAA  
TTCCAGGCTCACAAGGCTATCTTAGCAGCTCGGTCTCCAGTCTTCAGTGCCATGTTTGAACATGAAATGG  
AGGAGAGCAAAAAGAATCGGGTTGAGATTAACGACGTGGAGCCTGAGGTGTTAAGGAGATGATGTGCTT  
CATCTACACGGGAAGGCCCGAACCTCGACAAGATGGCTGACGACTTGTGGCAGCTGCCGATAAGTAC  
GCCCTGGAGCGTCTGAAGTCTGTGTGAGGACGCCCTCTGCAGTAACCTCTCTGTGGAGACGCTGCAG  
AGATTCTCATCCTGGCTGACCTCCACAGCGCAGATCAGCTGAAGACGCAGGCAAGTTGATTTTCATCAACTA  
TCATGTTTCGGATGTCTTGGAGACCTCTGGGTGGAAGTCAATGGTGGTGTACATCCCCACTTAGTGGCA  
GAAGCATACCGTTCTCTGGCTTCAGCACAGTGCCTTTCTGGGGCCCCACGAAACGCCTGAAGCAAT  
CC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >MG205802 representing BC043131  
 Red=Cloning site Green=Tags(s)

MSRVSPPPPAEMSSGPVAESWCYTQIKVVKFSYMWTINNFSCREEMGEVIKSSTFSSGANDKLKWLCLR  
 VNPKGLDEESKDYLSL YLLL VSPCKSEVRKFKFSILNAKGEETKAMESQRAYRFVQGDWGFKKFIRRD  
 FLLDEANGLLPDDKLTLCFCEVSVVQDSVNI SGQNTMMVAVPECLADELGGWENSRFTDCLCVAGQE  
 FQAHKAILAARSPVFSAMFEHEMEESSKNRVEINDVEPEVFKEMMCFIYTGKAPNLDKMADLLAAADKY  
 ALERLKMCDALCSNL SVENAAEILILADLHSADQLKTAQVDF INYHADVLETSGWKSMMVSHPHLVA  
 EAYRSLASAQCPFLGPPRKRLKQS

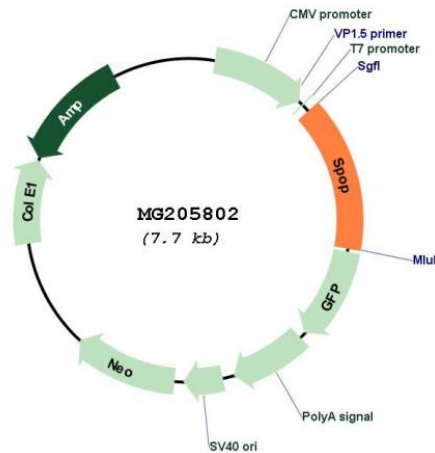
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** BC043131

<b>ORF Size:</b>	1124 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="#">BC043131</a> , <a href="#">AAH43131</a>
<b>RefSeq Size:</b>	2533 bp
<b>RefSeq ORF:</b>	1124 bp
<b>Locus ID:</b>	20747
<b>Cytogenetics:</b>	11 59.01 cM
<b>Gene Summary:</b>	Component of a cullin-RING-based BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex that mediates the ubiquitination of target proteins, leading most often to their proteasomal degradation. The cullin-RING-based BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex containing homodimeric SPOP has higher ubiquitin ligase activity than the complex that contains the heterodimer formed by SPOP and SPOPL (By similarity). In complex with CUL3, involved in ubiquitination and proteasomal degradation of BRMS1, DAXX, PDX1/IPF1, GLI2 and GLI3. In complex with CUL3, involved in ubiquitination of H2AFY and BMI1; this does not lead to their proteasomal degradation. Inhibits transcriptional activation of PDX1/IPF1 targets, such as insulin, by promoting PDX1/IPF1 degradation.[UniProtKB/Swiss-Prot Function]