

Product datasheet for **RG221227**

SPO11 (NM_012444) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SPO11 (NM_012444) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SPO11
Synonyms: CT35; SPATA43; TOPOVIA; TOPVIA
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG221227 representing NM_012444
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCTTTGCACCTATGGGGCCGAGGCTCGTTCCTCGACGTTTTGGACCGACACAGGGAGTCCCTGC
 TGGCTGCCCTGAGGAGAGGTGGCAGGGAGCCCCAACTGGGGGAAGCCGCTGGCCTCCAGTTCTGAGGT
 TCTTGCATCTATAGAAAATATTCCAAGACATAATCACAAGCTTGGCAAGAAATGAAGCACCTGCATTC
 ACGATAGACAACAGATCAAGCTGGGAAAACATAAAGTTTGAAGATTCTGTGGTCTTCAGATGGTATCCC
 ATTGCACCACCAGAAAGATCAAAAGTGATTCACCAAAATCAGCTCAAAAATTTTCTAATCCTTAAAAT
 ATTGTCCATGATTTATAAATTAGTACAGAGCAACACTTATGCAACCAAAAGGGACATATATTACACTGAC
 AGTCAACTCTTTGGTAACCAGACTGTCGTCGACAATATTCAATGACATTTCTTGCATGTTAAAAGTGT
 CAAGGAGGAGTCTACATATATTCTACATCAAAAGGTTTAAATTGCTGGCAACTTAAGATACATCGAGGA
 AGATGGCACCAAGTGAATTGTACCTGTGGTGCAACGGCTGTTGCTGTGCCATCGAATTTCAAGGAATT
 CGGAATTTAGTTACAGATGCAAAGTTTGTATTAATTGTAGAAAAGATGCAACATTTTCAGCGCTCCTAG
 ATGACAACTTTTGCAACAAATTTCTCCTTGCATCATGATTACGGGAAAGGGAGTTCCTGATCTAAACAC
 AAGACTTTTAGTCAAGAAACTGTGGGATACATTTTCATGTTCTCTTTCACTCTTTGTAGATGCTGATCCA
 CATGGCATAGAAAATATGTGCATCTATAAGTATGGATCTATGTCTATGTCTTTTGAAGCTCATCTCA
 CAGTTCAGCTATTAGATGGCTTGGTCTTCTCCCTTCTGATCTTAAAAGATTAATGTACCTAAAGATAG
 TTTGATCCACTGACAAAAGGGACCAATGAAACTTGACAGTATCCTGAGGAGACCTTATGTTACCTGC
 CAACCATTTTGGAGAAAAGAAATGGAAATATGGCAGACTCTAAAATGAAGGCAGAAATCAAGCTTTGA
 CTTTCTATCATCAGATTATCTTCCAGAGTGTACTTACCTAACAAATTAATTTGGAGGATGGATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221227 representing NM_012444
 Red=Cloning site Green=Tags(s)

MAFAPMGPEASFFDVLDHRHRESLLAALRRGGREPPTGGSRLLASSEVLASIEIENIQDIITSLARNEAPAF
 TIDNRSSWENIKFEDSVGLQMVSHCTTRKIKSDSPKSAQKFSLLKILSMIYKLVQSNTYATKRDIYYTD
 SQLFGNQTVVDNIINDISCMKIVSRRLHILSTSKGLIAGNLRYIEEDGTVKVNCTCGATAVAVPSNIQGI
 RNLVTDKAFVLI VEKDATFQRLLDDNFCNKLSPCIMITGKGVDPDLNTRLLVKKLWDTFHVPVFTLVADP
 HGIEIMCIYKYGSMSMSFEAHHLTVP AIRWLGLLPSDLKRLNVPKDSLIP LTKRDQMKLDSILRRPYVTC
 QPFWRKEMEIMADSKMKA EI QAL TFLSSDYLSRVYLPNKLKFGGWI

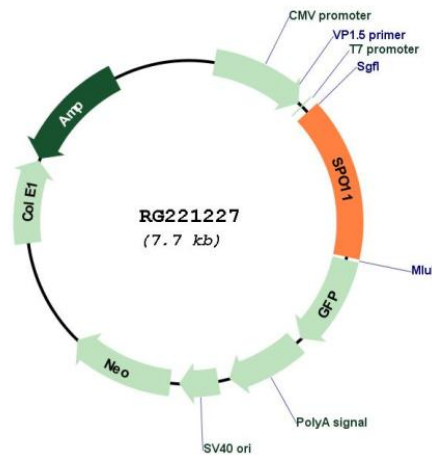
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_012444

ORF Size:	1188 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_012444.3
RefSeq Size:	1826 bp
RefSeq ORF:	1191 bp
Locus ID:	23626
UniProt ID:	Q9Y5K1
Cytogenetics:	20q13.31
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	Meiotic recombination and chromosome segregation require the formation of double-strand breaks (DSBs) in paired chromosome homologs. During meiosis in yeast, a meiotic recombination protein is covalently-linked to the 5' end of DSBs and is essential for the formation of DSBs. The protein encoded by this gene is similar in sequence and conserved features to the yeast meiotic recombination protein. The encoded protein belongs to the TOP6A protein family. Several transcript variants encoding different isoforms have been found for this gene, but the full-length nature of only two of them have been described. [provided by RefSeq, Jul 2008]