

Product datasheet for **RG206998**

SPO11 (NM_198265) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPO11 (NM_198265) 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:	>RG206998 representing NM_198265 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTTTGCACCTATGGGGCCCGAGGCCTCGTTCCTCGACGTTTTGGACCGACACAGGGAGTCCCTGC
TGGCTGCCCTGAGGAGAGGTGGCAGGGAGCCCCAACTGGGGGAAGCCGCTGGCCTCCAGGTTGAAGA
TTCTGTGGGTCTCAGATGGTATCCCATTGCACCACCAGAAAGATCAAAAGTGATTCACCAAAATCAGCT
CAAAAATTTCTCTAATCCTTAAATATTGTCCATGATTATAAATTAGTACAGAGCAACACTTATGCAA
CCAAAAGGGACATATATTACACTGACAGTCAACTCTTTGGTAACCAGACTGTCGTCGACAATATTATCAA
TGACATTTCTTGCATGTTAAAAGTGTCAAGGAGGAGTCTACATATATTATCTACATCAAAAAGGTTTAATT
GCTGGCAACTTAAGATACATCGAGGAAGATGGCACAAAGTGAATTGTACCTGTGGTGCAACGGCTGTTG
CTGTGCCATCGAATATCAAGGAATTCGGAATTTAGTTACAGATGCAAAGTTTGTATTAATTGTAGAAAA
AGATGCAACATTTAGCGGCTCCTAGATGACAACCTTTGCAACAAATGTCTCCTTGATCATGATTACG
GGAAAGGGAGTTCCTGATCTAACACAAGACTTTTAGTCAAGAACTGTGGGATACATTTTCTGTTCTG
TTTTACTCTTTGATAGTGTATCCACATGGCATAGAAATAATGTGCATCTATAAGTATGGATCTATGTC
TATGCTTTTTGAAGCTCATCATCTCACAGTTCAGCTATTAGATGGCTTGGTCTTCTCCCTTCTGATCTT
AAAAGATTAAGTACCTAAAGTAGTTTGAATCCACTGACAAAAGGGACCAAAATGAACTTGACAGTA
TCCTGAGGAGACCTTATGTTACCTGCCAACCATTTGGAGAAAAGAAATGGAAATATGGCAGACTCTAA
AATGAAGGCAGAAATTCAGCTTTGACTTTCCTATCATCAGATTATCTTCCAGAGTGTACTTACCTAAC
AAATTAATTTGGAGGATGGATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206998 representing NM_198265
Red=Cloning site Green=Tags(s)

MAFAPMGPEASFFDVLDHRHRESLLAALRRGGREPPTGGSRLASRFEDSVGLQMVSHCTTRKIKSDSPKSA
 QKFSLIKILSMIYKLVQSNITYATKRDIYYTDSQLFGNQTVVDNIINDISCMKVSRRSLHILSTSKGLI
 AGNLRYIEEDGTKVNCCTGATAVAVPSNIQGIRNLVTDKAFVLI VEKDATFQRLLDNFCNKLSPCIMIT
 GKGVPLNTRLLVKKLWDTFHVPVFTLVADDPHGIEIMCIYKYGSMSMSFEAHLTVPAIRWLGLLPSDL
 KRLNVPKDSLIPLTKRDQMKLDSILRRPYVTCQPFWRKEMEIMADSKMKAIEIQALTFLSSDYLSRVYLPN
 KLFKGGWI

TRTRPLE - GFP Tag - V

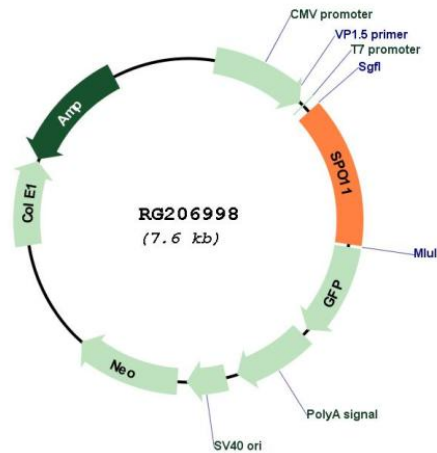
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_198265

ORF Size:	1074 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_198265.2
RefSeq Size:	1712 bp
RefSeq ORF:	1077 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]