

Product datasheet for RC206998

SPO11 (NM_198265) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPO11 (NM_198265) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SPO11
Synonyms:	CT35; SPATA43; TOPOVIA; TOPVIA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206998 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGGCCTTTGCACCTATGGGGCCGAGGCCTCGTTCTTCGACGTTTTGGACCGACACAGGGAGTCCCTGC
TGGCTGCCCTGAGGAGAGGTGGCAGGGAGCCCCAACTGGGGGAAGCCGCTGGCCTCCAGGTTTGAAGA
TTCTGTGGGTCTCAGATGGTATCCATTGCACCACCAGAAAGATCAAAAGTGATTCACCAAAATCAGCT
CAAAAATTTCTCTAATCCTTAAATATTGTCCATGATTATAAATTAGTACAGAGCAACACTTATGCAA
CCAAAAGGGACATATATTACACTGACAGTCAACTCTTTGGTAACCAGACTGTCGTCGACAATATTATCAA
TGACATTTCTTGCATGTTAAAAGTGTCAAGGAGGAGTCTACATATATTATCTACATCAAAAGGTTTAAAT
GCTGGCAACTTAAGATACATCGAGGAAGATGGCACAAAGTGAATTGTACCTGTGGTGCAACGGCTGTTG
CTGTGCCATCGAATATCAAGGAATTCGGAATTTAGTTACAGATGCAAAGTTTGTATTAATTGTAGAAAA
AGATGCAACATTTAGCGGCTCCTAGATGACAACCTTTGCAACAAATGTCTCCTTGATCATGATTACG
GGAAAGGGAGTTCTGATCTAACACAAGACTTTTAGTCAAGAACTGTGGGATACATTTTCTGTTCTG
TTTTCACTCTTGTAGATGCTGATCCACATGGCATAGAAATAATGTGCATCTATAAGTATGGATCTATGTC
TATGCTTTTTGAAGCTCATCATCTCACAGTTCAGCTATTAGATGGCTTGGTCTTCTCCCTTCTGATCTT
AAAAGATTAATGTACCTAAAGTAGTTTGAATCCACTGACAAAAGGGACCAAAATGAACTTGACAGTA
TCTGAGGAGACCTTATGTTACCTGCCAACCATTTGGAGAAAAGAAATGGAAATATGGCAGACTCTAA
AATGAAGGCAGAAATCAAGCTTTGACTTTCCTATCATCAGATTATCTTCCAGAGTGTACTTACCTAAC
AAATTAATTTGGAGGATGGATA

ACGCGTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206998 protein sequence
 Red=Cloning site Green=Tags(s)

MAFAPMGPEASFFDVLDRHRESLLAALRRGGREPPTGGSRLASRFEDSVGLQMVSHCTTRKIKSDSPKSA
 QKFSLILKILSMIYKLVQSNTYATKRDIYYTDSQLFGNQTVVDNIINDISCMLKVSRRSLHILSTSKGLI
 AGNLRYIEEDGTKVNCTCGATAVAVPSNIQGIRNLVTDKAFVLI VEKDATFQRLLDNFCNKLSPCIMIT
 GKGVPLNTRLLVKKLWDTFHPVFTLVADDPHGIEIMCIYKYGSMMSFEAHLTVPAIRWLGLLPSDL
 KRLNVPKDSLIPLTRDQMKLDSILRRPYVTCQPFWRKEMEIMADSKMKAIEIQAL TFLSSDYLSRVYLPN
 KLKFGGWI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6331_d02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

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:

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](#)

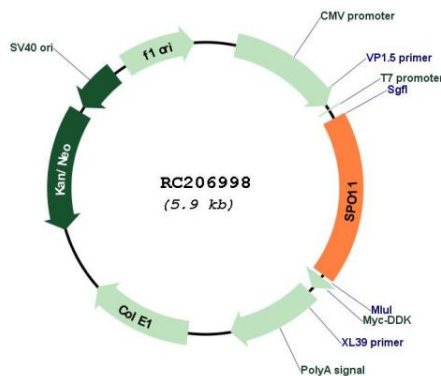
Cytogenetics: 20q13.31

Protein Families: Druggable Genome, Transcription Factors

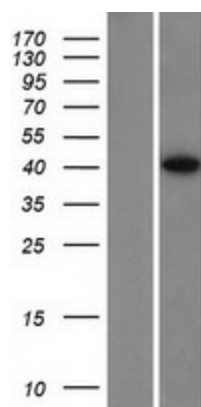
MW: 40.4 kDa

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]

Product images:



Circular map for RC206998



Western blot validation of overexpression lysate (Cat# [LY404993]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206998 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).