

Product datasheet for **SC310751**

SPAG8 (NM_001039592) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	SPAG8
Synonyms:	BS-84; CILD28; CTI42; HSD-1; hSMP-1; SMP1; SPAG3
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	<p>>NCBI ORF sequence for NM_001039592, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGGAGACCAACGAGTCTACGGAGGGATCGCGGTCGCGGTCGCGATCTTTAGACATACAG CCCAGCTCCGAAGGACTGGGGCCCACTTCGGAACCGTTTCCTTCTTCAGATGACAGTCCC AGGTCGGCCCTGGCAGCTGCAACCGCAGCAGCTGCAGCGGCTGCATCAGCTGCTGCAGCT ACTGCAGCCTTCACCACTGCCAAAGCAGCTGCATTATCTACAAAGACCCAGCGCCCTGT TCTGAGTTCATGGAGCCGCTCTGACCCAGCCTTCTGGGGAGCCCTGTGCGGGACCC GGCTTTACCCACAATATAGCCCATGGGAGTCTTGGCTTTGAGCCCGTCTATGTTTCCTGT ATTGCTCAGGACACTTGCACCTACAAGTACCATAGTTCTAATCCTGGCCCTGTTCCAGGC TCTAGCTCTGGGCTGTCTTGGTTCCAGCTCAGGTGCTGGCCATGGCTCTGGCTCTGGC TCTGGTCTGGCTGTGGCTCTGTCCCTGGCTCTGGCTCTGGTCTGGTCTGGTCTGGTCTGGT CCTGGCTCTGGTCTGGTCTGGTCTGGTCTGGTCTGGTCTGGTCTGGTCTGGTCTGGTCTGGT CCAGACACTGGCCCTGACTCTGAGCTCAGCCCTGTATTCTCCAGGGTTCAGAAACCTG GTGGCAGATCGGGTCCCTAACTATACCTCCTGGAGTCAGCACTGCCCTGGGAGCCCCAG AAACAACCACCTTGGGAATTTTGAAGTCTTAGAACCGGGTGCCCGAGGACTATGGAAA CCCCCAGACATTAAGGGAAGCTTATGTTTGTATGAAACTTTGCCGCGGGGCCAGTGC CTCCTCTACAACTGGGAGGAAGAGAGAGCCACCAACCCTGGATCAAGTCCCAAGCATG CAGGATGGCTCTGAGAGTTTTTCTCCGACACGGACACCGGGGACTGCTGACTATGCAA CTAAAGTCACCATGCCCTCCAGCACCACCCAGAAAGACTCGTACCAGCCACCAGGAAAC GTCTATTGGCCACTTCGAGGGAAGCGTGAAGCCATGCTGGAGATGCTCCTGCAGCATCAG ATCTGTAAAGAGGTGCAGGCAGAACAGGAACCCACAAGGAAGCTCTTCGAGGTTGAGTCT GTGACACACCATGACTACCGAATGGAGCTGGCACAAGCAGGGAAGTCTGCCCAACAAAG CCTCAGCACTACCGCCAGGAGCAACCTGAGACCTTCTGGATACAGAGGGCACCACAGCTG CCGGGTGTCAAGTAAATCAGGACATTGGACACACCATTCGGGAAGAACTGCAGCTTCTCA ACACCAAGTACCCTTGTCTCTGGGGAACCTTTGCCCTATGAACCTGAGAATTACCCCTAC CAATTGGGAGAAATATCTTCCTTCCCTGTCCCGGAGGAAGGCTGGGTGGTGGAGGGGGG AGAATGACTCCTTCTGA </pre>
Restriction Sites:	Please inquire
ACCN:	NM_001039592



OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001039592.1</u> , <u>NP_001034681.1</u>
RefSeq Size:	1715 bp
RefSeq ORF:	1458 bp
Locus ID:	26206
UniProt ID:	<u>Q99932</u>
Cytogenetics:	9p13.3

Gene Summary:

The correlation of anti-sperm antibodies with cases of unexplained infertility implicates a role for these antibodies in blocking fertilization. Improved diagnosis and treatment of immunologic infertility, as well as identification of proteins for targeted contraception, are dependent on the identification and characterization of relevant sperm antigens. The protein encoded by this gene is recognized by sperm agglutinating antibodies from an infertile woman. This protein is localized in germ cells of the testis at all stages of spermatogenesis and is localized to the acrosomal region of mature spermatozoa. This protein interacts with ACT (activator of CREM in testis) and may play a role in CREM (cAMP response element modulator)-ACT-mediated gene transcription during spermatogenesis. This protein may also play a role in spermatogenesis by regulating microtubule formation and cell division. Alternatively spliced variants that encode different protein isoforms have been described but the full-length sequences of only two have been determined. [provided by RefSeq, Jul 2012]

Transcript Variant: This variant (1) includes an alternate exon in the 3' coding region, compared to variant 2. The resulting protein (isoform 1) is shorter and has a distinct C-terminus, compared to isoform 2.