

Product datasheet for **SC306751**

SPAG8 (NM_172312) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	SPAG8
Synonyms:	BS-84; CILD28; CT142; HSD-1; hSMP-1; SMP1; SPAG3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF:	>SC306751 representing NM_172312. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGGAGACCAACGAGTCTACGGAGGGATCGCGGTCGCGGTCGCGATCTTTAGACATACAGCCCAGCTCC GAAGGACTGGGGCCCACTTCGGAACCGTTTCTTCTTCAGATGACAGTCCCAGGTGGCCCTGGCAGCT GCAACCGCAGCAGCTGCAGCGGCTGCATCAGCTGCTGCAGCTACTGCAGCCTTCACCACTGCCAAAGCA GCTGCATTATCTACAAAGACCCAGCGCCCTGTTCTGAGTTCATGGAGCCGCTCTGACCCAGCCTT CTTGGGGAGCCCTGTGCGGGACCCGGCTTTACCCACAATATAGCCCATGGGAGTCTTGGCTTTGAGCCC GTCTATGTTTCTGTATTGCTCAGGACACTTGCACTACAAGTACCAGTCTTCTAATCCTGGCCCTGTT CCAGGCTCTAGCTCTGGGCTGTTCTTGGTCCAGCTCAGGTGCTGGCCATGGCTCTGGCTCTGGCTCT GGTCTCTGGCTGTGGCTCTGTCCCTGGCTCTGGCTCTGGTCTGGTCTGGTCTGGTCTGGTCTGGT CCTGGTCATGGCTCTGGCTCTCATCCTGGTCTGCCTCTGGGCTGGTCCAGACACTGGCCCTGACTCT GAGCTCAGCCCTGTATTCTCCAGGGTTCAGAACTGGTGGCAGATCGGGTCCCTAACTATACCTCC TGGAGTCAGCACTGCCCTGGGAGCCCCAGAAACAACCACTTGGGAATTTTGCAAGTCTTAGAACCG GGTGCCCGAGGACTATGGAAACCCAGACATTAAGGGAAGCTTATGGTTTGCATGAACTTTGCCG CGGGGCCAGTGCCCTCTACAACCTGGGAGGAAGAGAGAGCCACCAACCACTGGATCAAGTCCCAAGC ATGCAGGATGGCTCTGAGAGTTTTTCTTCCGACACGACACCGGGGACTGCTGACTATGCAACTAAG TCACCATGCCCCTCCAGCACCCAGAAAGACTCGTACCAGCCACCAGGAAACGTCTATTGGCCACTT CGAGGGAAGCGTGAAGCATGCTGGAGATGCTCTGCAGCATCAGATCTGTAAGAGGTGCAGGCAGAA CAGGAACCCACAAGGAAGCTCTTCGAGGTGAGTCTGTGACACCATGACTACCGAATGGAGCTGGCA CAAGCAGGGACTCCTGCCCCAACAAAGCTCAGGACTACCGCCAGGAGCAACCTGAGACCTTCTGGATA CAGAGGGCACCACAGCTGCCGACATGGTGGCCATTGCCACCCAGGTACCAGCAGCAGAAAGACTATCTG ACTTGGAAGAATGGGGGTTTACAGGAGTCCAGGAGGTCTTTCCGCTCTCCTAAGAGCCACACCTGGT GAATACTCAGTAACATTTGCGGAATGAATGAACCCCTGTCTGCAGCAGGACATGGACAAATAGGCTC TGCCATCAGGAAATGGGAAGCAAGAAACGGTAACCAAGAGGACAGAGGCTGTGA ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	Sgfl-Mlul
ACCN:	NM_172312
Insert Size:	1506 bp
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:	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:	NM_172312.1
RefSeq Size:	2010 bp
RefSeq ORF:	1506 bp
Locus ID:	26206
UniProt ID:	Q99932
Cytogenetics:	9p13.3
MW:	53.5 kDa
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 (2) represents the longest transcript and encodes the longest isoform (2).