

Product datasheet for **SC124765**

SPAG1 (NM_172218) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPAG1 (NM_172218) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPAG1
Synonyms:	CILD28; CT140; DNAAF13; HEL-S-268; HSD-3.8; SP75; TPIS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_172218 edited
 ATGACCACCAAGATTATCCATCATTGTGGGGCTTTGGAACAACAAAAACATTCAAAATT
 CCCATTGAACATCTAGATTTCAAATACATTGAAAAATGTTTCAAGATGTTAAACATCTGGAA
 AAAATTTCTTGGCTGCTCAGATCTGGTGAGGAAGGATATTATCCTGAACCTACAGAAATTT
 TGTGAAAAGCATCTTCAAGCCTTGGCCCTGAAAGCAGAGCTTTGAGGAAAGATAAACCA
 GCAGCAACAGCAGCCAGTTTTACAGCTGAAGAATGGGAAAAAATGATGGTGATATAAG
 AGTTGGGTATCAGAAATTAAGAAAGAAAGATAAAATGCACTTTCATGAACTGAGACA
 TTTCCAGCAATGAAAGATAATTTGCCTCCAGTTCTGGTTCAAACAGCTGTCTTCATGTA
 GGCAAGGAAAAATATTCTAAAAGACCACTAAAAAGAAAACCTCAAGGGATTACGCGGAA
 TGGGATAAATTTGACGTGGAGAAGGAATGTTTAAAAATTGATGAAGATTACAAAGAAAAAG
 ACGGTAATAGACAAGTCACACTTGTCTAAAATTGAGACAAGAATAGATACAGCAGGTCTA
 ACTGAGAAAGAAAAGGATTTTCTTGCCACTCGTAAAAGGAGAAAGGAAATGAAGCTTTC
 AACTCAGGAGATTATGAAGAAGCAGTGATGATTATACCAGGAGCATATCAGCGCTTCCC
 ACTGTAGTTGCCTATAACAATCGAGCTCAAGCAGAAATCAAATTACAGAACTGGAATAGT
 GCTTTTCAGGATTGTGAAAAGGTCTTGGAGTTAGAACCTGGAAACGTAAAGGCTCTTCTG
 CGTCGTGCTACTACATATAAACATCAAAACAAGCTCCGGGAAGCTACAGAAAGATTGAGT
 AAAGTACTAGATGTTGAGCCTGATAATGATTTGGCCAAGAAAACCTTGTCTAGAGGTTGAA
 AGAGATCTGAAAAATTCTGAAGCTGCATCTGAGACTCAAACCAAGGAAAAAGGATGGTT
 ATTCAGGAAATAGAAAACCTCGAAGATGAAGAAGGAAAAAGCGGAAGAAAACATGAAGAT
 GGCGGTGGAGATAAGAAGCCCGGAGCCGGCGGGAGCCGCGCGCGCGCCAGCCGTGC
 GTCATGGGCAACATCCAGAAGAAGCTGACTGGCAAGCCGAAGGCGGCAAGCGGCCGGCA
 AGGGGCGCGCCGAGCGGGGCCAGACCCCGAGGCGCGCGCGGACAAGCGGAGCCACGG
 CGGGCTCTGCGCGCGCGCGCGCGCGCGCGCGCCACCGGGCATCCGGCGCGCGCGGACG
 GCGCGGAGAACCTGCGCGCTGAAGAGCCAGGCAACGAGCTGTTCCGAAGCGGGCAG
 TTCGCGGAGCGCGCGCAAGTACTCGCGGCAATCGCGCTCCTGGAGCCAGCAGGAAGT
 GAAATTGCAGATGATCTAAGTATCTTATATTCAAATAGAGCAGCATGTTACCTAAAAGAA
 GGAAACTGCAGTGGCTGCATTCAAGATTGTAACAGGGCTCTGGAACCTCATCCATTCTCT
 ATGAAACCTCTTCTGAGGCGGGCGATGGCTATGAACTCTAGAGCAGTATGGGAAAGCT
 TATGTGGATTATAAACAGTGTTCAGATAGACTGTGGACTCCAGCTAGCAAATGACAGT
 GTTAACAGGCTATCAAGAATTTAATGGAGCTGGATGGACCAATTTGGCGGAGAAAGCTG
 TCACCTATTCTGCTGTGCTCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 ATGATCTCAAAACAAGCAGGAGACTCCAGCAGCCATCGCCAGCAGGGCATCACAGATGAA
 AAAACATTTAAAGCCCTTAAGGAAGAAGGAAATCAATGTGTAAATGACAAAAACTATAAA
 GACGCCCTCAGTAAATACAGCGAATGCTTAAAGATTAACAATAAGGAATGTGCCATATAT
 ACAACAGAGCTCTCTGTTACTTGAAGCTGTGCCAGTTTGAAGAAGCAAGCAGGACTGT
 GATCAGGCACTTCAAGTATGATGGGAACGTGAAAGCCTTCTATAGACGAGCTCTGGCT
 CATAAAGGACTCAAGAATTATCAGAAAAGCTTAATTGATCTCAATAAAGTTATCTACTA
 GATCCAAGTATTATTGAGGCAAGATGGAAGTGAAGAGGTAAGTACTCCTTAATCTT
 AAGGATAAGACAGCACCATTCAACAAAGAAAAGGAGAGAAGGAAAATTGAGATTCAAGAG
 GTGAATGAAGGCAAGGAGGAGCCTGGAAGACCTGCAGGGGAGGTCTCCATGGGATGCCTT
 GCTTCTGAGAAGGGAGGCAAAAGCAGCAGGTACCAGAAGACCCTGAGAACTTCCGATA
 GCCAAGCCTAATAATGCCTATGAATTTGGTCAGATTATAAATGCTCTCAGTACCAGGAAG
 GATAAAGAAGCCTGTGCACATCTTTAGCCATCACTGCACCAAAAGATTGCGGATGTTT
 TTAAGTAACAACTTGAAGGGGATACATTCCTTCTCTCATTAGTCTCTGAAAAATAAT
 CTTATTGAAAAAGATCCCTCATTGGTGTATCAGCATCTTTATACCTGAGTAAAGCAGAA
 AGGTTTAAGATGATGTTGACACTAATTAGCAAGGGCCAAAAGGAGCTAATTGAACAGCTG
 TTTGAGGACCTTTCGGACACACCAACAACCATTTTACTTTAGAAGATATACAGGCCCTA
 AAAAGGCAGTATGAGCTTTAA

Restriction Sites: NotI-NotI
ACCN: NM_172218

Insert Size:	2800 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.
RefSeq:	<u>NM_172218.1, NP_757367.1</u>
RefSeq Size:	3765 bp
RefSeq ORF:	3760 bp
Locus ID:	6674
UniProt ID:	<u>Q07617</u>
Cytogenetics:	8q22.2
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 expressed by this gene is recognized by anti-sperm agglutinating antibodies from an infertile woman. Furthermore, immunization of female rats with the recombinant human protein reduced fertility. This protein localizes to the plasma membrane of germ cells in the testis and to the post-acrosomal plasma membrane of mature spermatozoa. Recombinant polypeptide binds GTP and exhibits GTPase activity. Thus, this protein may regulate GTP signal transduction pathways involved in spermatogenesis and fertilization. Two transcript variants of this gene encode the same protein. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same protein.