

Product datasheet for **SC126211**

SPAG6 (NM_172242) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPAG6 (NM_172242) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPAG6
Synonyms:	CFAP194; CT141; FAP194; pf16; Repro-SA-1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_172242 edited
GAGTAGCGGCTCCCGTCGGAGGCCGAGTCGTCGCCACGATCGCCCCCTTGGTGGACTCGC
AGGCCGAGCGGCTTCCCCGACAGCTCGAGGAGGGCAGACGGCGGGGGGCCCATGAG
TCAGAGGCAGGTGCTGCAAGTGTTCGAGCAATACCAGAAGGCCAGGACCCAGTTCGTGCA
GATGGTGGCGGAGCTGGCGACTAGACCCAAAACATCGAGACGCTGCAGAACGCGGGTGT
AATGCTTTTGTGAGAACTCTTCTTCTGGACGTGGTCCCAACAATTCAACAGATTGCTGC
TTTGGCTCTTGGGAGACTGGCCAATTATAATGATGACCTAGCAGAAGCTGTTGTGAAGTG
CGACATTTCCACAGCTTGTTTTATTTCATTGGCAGAACAGAATCGCTTCTACAAGAAAGC
AGCTGCCTTTGTGTTACGAGCAGTTGGTAAACATTCTCCCCAGCTAGCTCAGGCAATAGT
CGATTGTGGAGCACTGGATACGCTGGTCATATGCTTGGAAAGATTTTGACCCTGGAGTCAA
GGAGGCTGCAGCCTGGGCACTTAGATATATTGCAAGACATAATGCAGAAGTGCACAAGC
TGTGGTGGATGCAGGAGCTGTTCTCTTTTAGTACTCTGTATCCAGGAGCCAGAAATTGC
TTTGAAGGGATTGCTGCTTCGGCCCTCAGTGATATTGTAAGCATTCTCCAGAGTTAGC
ACAGACAGTAGTGGATGCAGGAGCTGTTGCTCATTTAGCCAGATGATCCTGAACCCTGA
TGCTAAATTGAAGCATCAGATCCTTTCAGCTCTCAGTCAGTTTTCAAACATTCCGTGGA
TCTGGCAGAAATGGTTGTTGAAGCAGAGATTTTCCAGTTGTAAGTACTTACCTGTCTGAAGGA
CAAGGATGAATACGTGAAGAAAAATGCTTCTACTTTAATTAGAGAGATTGCAAAAACATAC
ACCCGAGCTTTCACAGCTGGTAGTTAACGCAGGAGGGTGTGTCGGTGATTGACTGCAT
TGGGTCCTGCAAAGGGAACACACGGCTGCCTGGCATCATGATGCTTGGTTATGTAGCAGC
TCATTCTGAGAACCTAGCAATGGCAGTCATATTTCTAAGGGTGTACCCAGTTGTCAAGT
CTGCTTGTGAGAAGAACCGGAAGATCATATTAAGGCTGCAGCTGCTTGGGCTTAGGACA
GATTGGAAGACACACTCCTGAACACGCACGGGCTGTTGCAGTCACAAATACTTTGCCAGT
TCTGCTTTCTTTGTACATGTCAACAGAAAGTTCTGAGGATCTCCAAGTAAAAAGTAAAA
AGCCATAAAGAATATCCTGCAAAAATGTACCTACTTACCAGCCCTTGAACCATTTCATATA
TGATGCTCCTCCAATATTCTGAAAACATGTGGTTGGACAGTTCAGTAAGGTATTATTTCC
CTGGATATTAGATACACTTCTGCGGAGGGTGGACAGCTATCAACCACTTAATAACTGAG
CAAAGTTATATTGTGATACTCAAATTCACAGCAGAGTAGTTTTGAGTAACAGTAATTAA
TCCTTCTAAATATTTGAACTAAGTATATTCTAGATTTATTTAATGGGAAATACCTTTAGA
TAATATTTTCTAAATTTATGTAATACTTTAAACATTCGTAGCTTGAATATGTGAGGAACT
ATTCATGGTCATTCGCATGCATAGGATTTGTTCTACAGGTAGATTTTAAAAACACGTTAA
AGGGCCTTAAGGCATTTTGTATTCTGTAAAAACACACACACTCGTACATGCAGACAC
CTCCAATGAGATATAGTTAAGAGATGGCATTCAAAAACCTAAATTAATCTAGCCAAATTT
GTCATAGGCATAGGCAAGGAAAGCTGGCCTTGCTAACTATATAGTAGTATACACAAGAGA
AATCTTTGAAGGAGGAAACTGATGACAGATATACAGGGCACTTGAAGGAGACTCTGATGC
TAGTTATATAAGTGCATTAACCTAAGACACGGACTCTGTGGGTAACCTGTAGGTTTTAC
TAAGAATTTAGGAAAAATTTACTCCTTTATCACAAGTTTTCCAACCTCCTTCCCCAC
CCTATCTAAAGTGTTCCTTACCTTTTCATGGGCCAGCGAGGGTAGAATTCAGAATAGAGA
GTTATACTCCTGCATACATGCTCTCCCTCTCATTGAAAGGTTTCTTAGCTAGCTCTGCT
CATGAATGAACAAAGAAGCAGGCATGTAATAATGGATCCTTGTCTAACGTCACATTTCCCA
AGTTTTCAAAGTCACATTTTCAGGTATTTAAGGAATAGTTTGAAGCTAATACCATCAGGC
TCAGAGTTTACATGCATTTTACTTAGGAAGTGGTAAACGGGTGAAAGAGGGTTTCAATA
AAATTTTAAATAAAAACAGCAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_172242 unedited GTGCGGTCAGATTTTGTATACCATCATATAGGCGGCCGCATAACTTCGTATAGCATAACAT TATACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGGAGTA GCGGCTCCCGTCGGAGGCCGAGTCGTGCCACGATCGCCCCCTTGGTGGACTCGCAGGCC GAGCGGCTTCCCCGCAGAGCTCGAGGAGGGCAGACGGCGGGGGGCCCATGAGTCAGA GGCAGGTGCTGCAAGTGTTCGAGCAATACCAGAAGGCCAGGACCCAGTTCGTGCAGATGG TGGCGGAGCTGGCGACTAGACCCCAAACATCGAGACGCTGCAGAACGCGGGTGTAAATGT CTTTGCTGAGAACTCTTCTTGACGTGGTCCCAACAATTCAACAGATTGCTGCTTGG CTCTTGGGAGACTGGCCAATTATAATGATGACCTAGCAGAAGCTGTTGTGAAGTGCAGACA TTCTTCCACAGCTTGTATTATTGATGACGAGAACAGAAATCGCTTCTACTAGAAAGCAGCTG ACTTTGTGTTACGAGCAGTTGGTAAACATTCTCCCGAGCTAGCTCAGGCAATAGTCGATT GTGGAGCACTGGATACGCTGGTCATATGCTTGGAAAGATTTGACCCTGGAGTCAAGGAGG CTGACCCCGGGCACTTAGATATATTGCAAGACATAAAGCAGAACTGTCACACACTGTGG TGGATGCAGGAGCTGTTCTCTTTAACACTCTGTATCCAGGAGCCAGAACTGCTTGAA AGGGATTGCAGGTTTGGCCCTCAATGAAAGTGAAAAGCCTCCCCAAAGTTGCACACCCGA TTGTTGGATCCGGAGCTGCTGCTCATTTTTCCCAAAGATCCCGAACCCAGAGCATAANTT G
Restriction Sites:	Please inquire
ACCN:	NM_172242
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).
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_172242.1 , NP_758442.1
RefSeq Size:	2463 bp
RefSeq ORF:	1377 bp
Locus ID:	9576
UniProt ID:	O75602
Cytogenetics:	10p12.2

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 antibodies from an infertile man. This protein localizes to the tail of permeabilized human sperm and contains eight contiguous armadillo repeats, a motif known to mediate protein-protein interactions. Studies in mice suggest that this protein is involved in sperm flagellar motility and maintenance of the structural integrity of mature sperm. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]

Transcript Variant: This variant (2) lacks an alternate in-frame exon, compared to variant 1, resulting in a shorter protein (isoform 2) that has a distinct C-terminus, compared to isoform 1.