

## Product datasheet for **SC332245**

### SPAG6 (NM\_001253854) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SPAG6 (NM\_001253854) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** SPAG6  
**Synonyms:** CFAP194; CT141; FAP194; pf16; Repro-SA-1  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC332245 representing NM\_001253854.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
ATGCATTCACCTACCATGGATCTCTGGATACCTAATGGACAGGCAGGTGTAATGTCTTTGCTGAGAACT
CTTCTTCTGGACGTGGTCCCAACAATTCACAGACTGCTGCTTTGGCTCTGGGAGACTGGCCAATTAT
AATGATGACCTAGCAGAAGCTGTTGTGAAGTGCACATCTTCCACAGCTTGTATTTCATTGGCAGAA
CAGAATCGCTTCTACAAGAAAGCAGCTGCCTTTGTGTTACGAGCAGTTGGTAAACATTCTCCCCAGCTA
GCTCAGGCAATAGTCGATTGTGGAGCACTGGATACGCTGGTCATATGCTTGAAGATTTTGACCCTGGA
GTCAAGGAGGCTGCAGCCTGGGCACTTAGATATATTGCAAGACATAATGCAGAAGTGCACAAGCTGTG
GTGGATGCAGGAGCTGTTCTCTTTTAGTACTCTGTATCCAGGAGCCAGAAATTGCTTTGAAAAGGATT
GCTGCTTCGGCCCTCAGTGATATTGCAAAGCATTCTCCAGAGTTAGCACAGACAGTAGTGGATGCAGGA
GCTGTTGCTCATTTAGCCAGATGATCCTGAACCTGATGCTAAATTGAAGCATCAGATCCTTTACGCT
CTCAGTCAGGTTTCAAAACATTCCTGGATCTGGCAGAAATGGTTGTTGAAGCAGAGATTTTCCAGTT
GTACTTACCTGTCTGAAGGACAAGGATGAATACGTGAAGAAAAATGCTTCTACTTTAATTAGAGAGATT
GCAAAACATACACCCGAGCTTTCACAGCTGGTAGTTAACGCAGGAGGGTTGCTGCCGTGATTGACTGC
ATTGGGTCCTGCAAAGGGAACACACGGCTGCCTGGCATCATGATGCTTGGTTATGTAGCAGCTCATTCT
GAGAACCCTAGCAATGGCAGTCATCATTTCTAAGGGTGTACCCAGTTGTCAGTCTGCTTGCAGAAAGAA
CCGGAAGATCATATTAAGGCTGCAGCTGCTTGGGCCTTAGGACAGATTGGAAGACACACTCTGAACAC
GCACGGGCTGTTGCAGTCACAAACTTTGCCAGTTCTGCTTTCTTTGTACATGTCAACAGAAAAGTTCT
GAGGATCTCCAAGTAAAAAGTAAAAAGCCATAAAGAATATCCTGCAAAAATGTACCTACTTACCAGCC
CTTGAACCATTTCTATATGATGCTCCTCCCAATATTCTGAAACATGTGGTTGGACAGTTCCAGTAAGGTG
CTGCCGATGATAGCAAAGCTCGACGACTTTTTGTAACAAGTGGTGGCCTTAAAAAGTTCAAGAGATA
AAAGCAGAACCTGGTTCTCTCCTTCAAGAATACATCAACAGTATTAACAGTTGTTACCCCGAGGAAATA
GTGAGGTATTATCCCCTGGATATTCAGATACACTTCTGCAGAGGTTGGACAGCTATCAACCACTTAAT
AACTGA
```

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001253854  
**Insert Size:** 1455 bp



[View online >](#)

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001253854.1</a></u>
<b>RefSeq Size:</b>	2989 bp
<b>RefSeq ORF:</b>	1455 bp
<b>Locus ID:</b>	9576
<b>UniProt ID:</b>	<u><a href="#">O75602</a></u>
<b>Cytogenetics:</b>	10p12.2
<b>MW:</b>	52.5 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) contains several alternate exons in the 5' end that cause a frameshift and use of a downstream translation start site. The resulting isoform (3) has a shorter and distinct N-terminus compared to isoform 1.</p>