

Product datasheet for **SC102031**

SPAG16 (AK090574) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPAG16 (AK090574) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPAG16
Synonyms:	SZFP41
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for AK090574, the custom clone sequence may differ by one or more nucleotides

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TTCAGGTCATCTGGGAGAACTTAAATTCTTCTCTGCTATTACAATTCTTCTCACTCAGTTGCCTGCCT
CTTTTTTTTTTAAATTTACTTGTGACTGAGTTGAAGCCACGATTTTACTTTCTTAATGATCTGACTT
TCATAAGTTGATAAGTCATGAAATCATTATCTTACATTATATGAGATATGAGATAAATCATAAATCATAT
GAAATTGATAAAGTCATATGAAAACCAACCCACCATATGTTCACTGTCTACTTGTGTCCATCTTCGTCCC
ACGCACCCCAACAAGGACCTTCCCGCCATGTGCCTCAAACATCAGTTCCTGACTCAGGGCCTTTGTATTT
GCAGTGCCCGTTGCAAAGAGCACAATTCTTTATTTTATCTGTGGCTTGTCCGTCATGTCTTTTTTCCAT
GACACCTCCACACAGGCCTTCCCTGCCTGCCTGGTTTAAAATCCAGCCCTTACCCTTCTCCTTTATT
CTTCTCCCTAGCAATTTCCACCATGCTGCCTGGTGTATTTTCTCATTCTCTGTGGCTTCTACACTAGA
AAATATTTCCCTTTTGTTCACCACTATGAGTCTAGACCCATGACTGCCATACAGCAGGCATTCCATAAAT
GCACCTGTGGAGAGTTGACCCATGCTTGTGCGTGACTTCTGTCTGATTTTTTCTGTGTGCAGCATAA
GAAGCGCTAATAGGGAGAACCAACTTGGCTAAAACACACCAGGCTTTTTACCTTAGTCTGTACCTGGG
CTGTATCCCTTCAACCTAAAGCTAAAAGTCAATTGTGAACCTTTTGGTCTGATGCTAAAGAAGGGAA
AACAGGTACAGGAAATCCCATTTGGATGCTTGGCTTCCAGGATTTCTGCCATGATTCCAGAAATCCCACAG
CTCCAACATGATTGCAAAGACTCCCTGCTCATTTTTCTCAGCATGCACAGCGCTGCCCTGTCTCAGTT
GCAACTCGACAGAGCCGATTTACTCCAGAACCAATCCACACACCTGCTCATCTGCCCGAGAGGAGT
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TAGATAGGCAGCAGTGGCCTTACAGATGCTGACAGATGATCTGATTAGATGCACAGTTGCTGGGTGGCGT
CTGGGGCCAGTCTATTGGCAGTTCTGGGAGTGGGAACATTTGGGCTCTGCAAAGATGGTTTACCTTTA
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GACATATATATGTATATGTATGCCCATTTATATAAAAGACTAGTTTTTAGAGAAATTTAGGTTACAGC
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ATCAACATCCCCCTTCCAGAGTGGTACATTTGTTACAATTGATGAAACTACATTGACACTATCGGCCAAA
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CTACTGAAGGACACCTTAATTGCTTCCAAGTTTTGTTGATTATGAATAAAGATGCTATAAAC
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5' Read Nucleotide Sequence:

>OriGene 5' read for AK090574 unedited
 GGGGTGCACATTAGGTATACGACTCACTATAGGCGGCCGGAATTCGCACGACCTCGTGC
 CGAATTCGGCAGGAGGCCCGCCCTCGGCCTCCCAAAGTCTGGGATTACGGACGTGAG
 CCACTGCGCCCGGCCAGCACAGTGTGGTACTCCACCACCTCAAGAAAGCCTTT
 GAGGTTAGGATTTTCAGGTCATCTGGGAGAAGTAAATTTCTTCTGCTATTACAATT
 CTTCTCACTCAGTTGCCTGCCTTTTTTTTTTTAATTTACTTGTGACTGAGTTGAAGC
 CCAGCATTTTACTTTCTTAATGATCTGACTTTCATAAGTTGATAAGTCATGAAATCATT
 ATCTTACATTATATGAGATATGAGATAAATCATAAATCATATGAAATTGATAACTCATAT
 GAAAACCAACCCACCATATGTTCACTGTCTACTTGTGTCCATCTTCGTCCCACGACCC
 CACAAGGACCTTCCCGCCATGTGCCTCAACATCAGTTCCTGACTCAGGGCCTTTGTAT
 TTGCAGTGCCCGTTGCAAAGAGCACAATTCTTTATTTTATCTGTGGCTTGCCCGTCATGT
 CTTTTTTCCATGACACCTCCACACAAGCCCTTCCCTGCCTGGCCTGTTTTAAATTC
 AGCCCTTACCCTTTCCTTTATTCTTCTCCCTAGCAATTTACCATGCTTGCCTGCGT
 ATTTCCCTCATTTCCCTGTGGGCTTACTACTAAAAATTTTTCCCTTTTGTCCCATTT
 TATGTCTAGACCCATGACTCGCCTACAGAAGGCTTCCAATAATGCACCTGTGGAGAATT
 TGACCATGCTTTGTGCGGACCTACGGCCGAATTTTTTTTGGGTGGACCCTAACATACGC
 TTTTGGGAAACCTCCTTG

3' Read Nucleotide Sequence:

>OriGene 3' read for AK090574 unedited
 TTGGTACATCTATGNACNCGCGCCGATGCTAGNGATCGGTTTTTTTTTTTTTTTTTGG
 TTTATAGCATCTTTATTCATAATCAACAAAAGTGAAGCAATTAAGGTGCCTTCAGTA
 GGTGAATGGATAAATAAGTCATGGTACTTCCAGACAATAGCATATTATTCAATGAGAAAA
 AAAAAAAAAAAGAGCTAGCAAGCTACGAAAAGACATGGAAGAACTTAAATCCACATTAC
 TAAGTGAACAAAATCAATCTGAAAAGGCTGCATACTTTATGGTTCAGAGGCAAAATTATG
 GAGACAAAAGAAAATAGCCAGGAGTTTAGAGGAGTAGGCGAAACACAGAGGATTATTGGG
 ACAGTGAACCGGCTTTTATCCTTCTGTAATAATGCATACATGTCATTATTCAATTTGCT
 CAACCCACAGAATGCACATCAAGACTGAACCCTAATTAACCATGGACTTTGGCCGATAG
 TGTCAATGTAGTTTCATCAATTGTAACAAATGTACCACTCTGAAGGGGGATGTTGATGAT
 GGGGGAGGCTGTGTATATGTGAGGATAGGGGATATTTGGGAAATCTCTTGCCTTCTTG
 CCCATTTTGTGTGCACCTAAAATTTCTCTAAAAACTAGTCTTTTATATAAATGGGCATA
 CATATACATATATGGTAAGCCTAAAATATCCGTTGCAATAAATTTAAAGGAGAAATA
 TTGAAGCCCTGTACAGTGAATGTGTTTTCTCCATATTTCCGGAATTTATGAGGGAG
 TGAACCACTTAGGAGTAAGGCAAAGCGGATAAAGAAGGGGAACAGAACCTGCTCCAGGG
 TTTTTTAGGGAGGGAAGAGGGAATCGCCAGCACCTCCCGAGAGTCTACCTGACATTGGC
 ACTAATGTGGTG

Restriction Sites:

NotI-NotI

ACCN:

AK090574

Insert Size:

2750 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).

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: [AK090574.1](#)

RefSeq Size: 2442 bp

RefSeq ORF: 2442 bp

Locus ID: 79582

Cytogenetics: 2q34

Gene Summary: Cilia and flagella are comprised of a microtubular backbone, the axoneme, which is organized by the basal body and surrounded by plasma membrane. SPAG16 encodes 2 major proteins that associate with the axoneme of sperm tail and the nucleus of postmeiotic germ cells, respectively (Zhang et al., 2007 [PubMed 17699735]).[supplied by OMIM, Jul 2008]