

## Product datasheet for **SC302404**

### SPAG16 (NM\_001025436) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SPAG16 (NM_001025436) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPAG16
Synonyms:	PF20; WDR29
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC302404 representing NM_001025436. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTGCTCAGCGAGGGATGCCAGCTCCGCCGTGAGGGTCCTGGAAGAGGCGTTGGGCATGGGTTTG
ACGGCAGCCGGGGACGCGAGGGACACGGCGGACGCGGTGGCGGCTGAGGGCGCCTACTACCTGGAACAG
GTCACCATAACTGAAGCATCTGAAGATGACTATGAATATGAAGAGATACCAGATGACAATTTTAGCATC
CCAGAAGGTGAAGAAGATCTGGCAAAGCAATTCAGATGGCCCAAGAACAGGCTACAGATACTGAAATT
TTGGAACGGAAAACAGTTCTTCCTTCAAAGCATGCAGTACCTGAAGTAATAGAAGACTTTCTCTGCAAT
TTCTTGATCAAAATGGGAATGACCAGAACTCTTGATTGCTTTCAGTCTGAATGGTATGAGTTAATACAG
AAAGGAGTGACTGAACCTAGAAGTGTGGGAATGTTCCAGATGTCTACCCAGATTATGCTTTTGGAA
AATGAGAACAAAATTTAAAGAAAGATTTGAAGCACTACAAACAAGCAGCTGAGTATGTTATTTTTAA

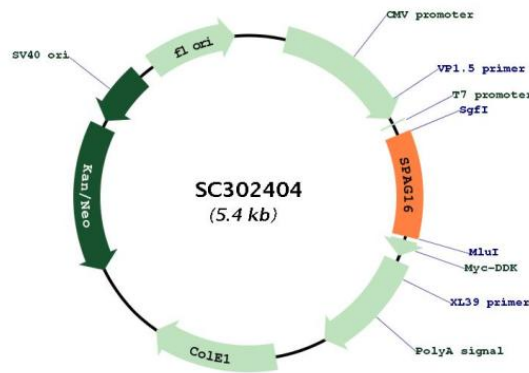
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-MluI



[View online »](#)

Plasmid Map:



**ACCN:** NM\_001025436

**Insert Size:** 552 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: [NM\\_001025436.2](#)

RefSeq Size: 1287 bp

RefSeq ORF: 552 bp

Locus ID: 79582

UniProt ID: [Q8N0X2](#)

Cytogenetics: 2q34

MW: 20.6 kDa

**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]  
Transcript Variant: This variant (2) differs in the 3' UTR and lacks a large portion of the 3' coding region, compared to variant 1. The encoded isoform (2) is significantly shorter and has a distinct C-terminus, compared to isoform 1.