

Product datasheet for **RG215059**

SPAG16 (NM_001025436) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SPAG16 (NM_001025436) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SPAG16
Synonyms: PF20; WDR29
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG215059 representing NM_001025436
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGCTCAGCGAGGGATGCCAGCTCCGCCGTGAGGGTCCTGGAAGAGGCGTTGGGCATGGGTTTGA
 CGGCAGCCGGGGACGCGAGGGACACGGCGGACGCGGTGGCGGCTGAGGGCGCCTACTACCTGGAACAGGT
 CACCATAACTGAAGCATCTGAAGATGACTATGAATATGAAGAGATACCAGATGACAATTTTAGCATCCCA
 GAAGGTGAAGAAGATCTGGCAAAGCAATTCAGATGGCCAAGAAGAGGCTACAGATACTGAAATTTTGG
 AACGAAAACAGTTCTTCCTTCAAAGCATGCAGTACCTGAAGTAATAGAAGACTTCTCTGCAATTTCTT
 GATCAAAATGGGAATGACCAGAACTCTTGATTGCTTTCAGTCTGAATGGTATGAGTTAATACAGAAAGGA
 GTGACTGAACTTAGAACTGTTGGGAATGTTCCAGATGTCTACACCCAGATTATGCTTTTGGAAAATGAGA
 ACAAAAATTTAAAGAAAGATTTGAAGCACTACAAACAAGCAGCTGAGTATGTTATTTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG215059 representing NM_001025436
 Red=Cloning site Green=Tags(s)

MAAQRGMPSSAVRVLEEALGMGLTAAGDARDTADAVAAEGAYYLEQVTITEASEDDYEEYEEIPDDNFSIP
 EGEEEDLAKAIQMAQEATDTEILERKTVLPSKHAVEVIEDFLCNFLIKMGMRTRLDQFQSEWYELIQKG
 VTELRTVGNVPDYVTQIMLLENENKNLKKDLKHYKQAAEYVIF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

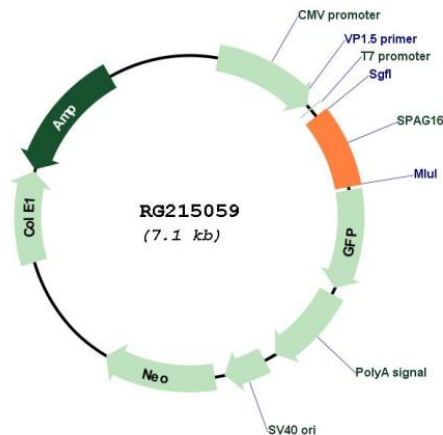


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001025436

ORF Size: 549 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_001025436.2, NP_001020607.1</u>
RefSeq Size:	1296 bp
RefSeq ORF:	552 bp
Locus ID:	79582
UniProt ID:	<u>Q8N0X2</u>
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]