

Product datasheet for **RG205462**

SPATA16 (NM_031955) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SPATA16
Synonyms:	NYD-SP12; SPGF6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG205462 representing NM_031955
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGATGCAGGAAGCAGTAGGAGTTTGGAGAATGCAGTGAATAGGATCTATCATGATCAGCTTGTTC
 AGATAAACACAAGCAAGAAAAATGTCCACCTTAGCGCACCCACCTAACATCCTGGAAATGTCACAAGAGAT
 TAAGAAAACTGTGGAGGTAACAGGTAGAAATCACACTTGAAGAACAAAAATGACAAAGGCGATCAAA
 GAAAAACAAGCAATGATTTAGAGAAAGCAGCCTTTAAACGGAAGGCAGAAAGGTGAAGGAAAGCCAACTA
 GAAAGAAACAGGCAAGATAACAGAACTTGACAATCAGTTAATCACCATGCCTCTGCCTCACATCCCCTT
 AAAGAACATAATGGATGTGGAATGAAGTTGGTCTACATTGATGAAATGGGTGTTTCGCTATGAGTTTGT
 GAGTCCTTCATGTCTACTGGGAGTCAGCCAACATGCCAAGCTGCTGAAATAGTAGACCTTTGAGTGTA
 ATAATTTTCAGCTTTCTGCCTCAGATTGACAAATGGCTTCAGGTAGCCTTAAAGGATGCCAGCTCTTGCTA
 TAGACAAAAGAAATACGCCTTGGCAGCAGGACAGTTTCAAGCAGCACTTGAAGTTTGCAGCAAGGAGCA
 GTTCTGGGAGAACATTTGATGCACCTGCTGAAGATATAGCAAGCGTGGCAAGTTTCATTGAGACAAAGC
 TTGTTACCTGTTATCTACGGATGAGGAAACCAGATCTTGCCCTGAATCATGCACACAGGAGCATTGTTTT
 AAACCCAGCCTATTTCCGGAATCATCTTCGTCAGCAACAGTGTTTAGATGTCTGGAGAGGTATTCAGAG
 GCTGCCCGGAGTGCCATGATTGCTGACTACATGTTCTGGCTTGGTGGAGGAAGGGAAGAGAGCATAAGCA
 AGCTCATCAAACTGTATTGGCAGGCCATGATTGAGGAAGCCATCACCAGAGCTGAATCTTTCTCGGTTAT
 GTACACACCATTTGCGCAAAAAATAAGAGCTGATAAAATAGAAAAAGTAAAGATGCTTTCACAAAAACT
 CATCTGCATATGCAGAGTATATGTACACAGATCTTCAAGCACTCCACATGTTGCCTCAGACAGTTGACT
 GGTCTCTTTTCTCCCAACAATATCTCTGACTCTTGGGTTCAAAAAACAAGATGATGAAAAATTTT
 GGAAAAATATCAAGCAGGAAGCTGCCGATATTCACAGAGCATAAAACACCTTTTCGGTCTGACAGAGAA
 GATACAGTGAGGCAATGGAGACAATGGGGAAGCGAATCTTGCCAATATTGGATTTTATTAGAAGCACCC
 AATTGAATGGGAGTTTTCTGCATCCTCAGGTGTGATGGAGAAGTTGCAATATGCCAGCCTCCTCAGCCA
 GCTGCAGAGAGTAAGGAGCAGTCCAGGTGATTAATCAAGCAATGGCAGAGCTAGCAACCATTCCTC
 CTACAGGACATCAGTCAACAGGAGGCAGAAATTGCTGCAGTCACTAATGGCAGATGCTATGGACACCTTG
 AAGGAAGAAGAAACAATAATGAACGTGTGTGAATATGATCCAAAAGTTGGACAAATTGAAGATTTTCT
 ATACCAATTAGAGGACAGTTTCTTAAAACTAAAACTGAGAAGTCTCGAAGGCAAAAAACAAAAATG
 AAGCGACTTCAAACTGTTTCAGCAAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205462 representing NM_031955
 Red=Cloning site Green=Tags(s)

MDAGSSRSLENVNRHYDQLVPKINTSKKMSTLAHPNILEMSQEIKKNCGGKQVEITLERTKMTKGIK
 EKQSNLDLEKAAFKRKAEGEGKPTRKKQAKITELDNQLITMPLPHIPLKNIMDVEMKLVYIDEMGVRYEFV
 ESFMSTGSQPTCQAAEIVDPLSVHNFSLPQIDKWLQVALKDASSCYRQKKYALAAGQFRTALELCSKGA
 VLGEPFDAPAEDIAVSASFIEITKLVTCLRMKPDALNHAHRSIVLNPAFYFRNHLRQATVFRCLERYSE
 AARSAMIADYMFWLGGGREESISKLIKLYWQAMIEEAITRAESFSVMYTPFATKIRADKIEKVDAFTKT
 HPAYAEYMYDLQALHMLPQTVDWSSFPQYLLTLGFKNKDDGKFLKISSRKLPIFTEHKTPTFGLTRE
 DTVRQMETMGKRILPILDFIRSTQLNGSFPASSGVMEKLQYASLLSQLQRYKEQSQVINQAMAEATIPY
 LQDISQQAELLQSLMADAMDTLEGRNNNNERVWNMIQKVGQIEDFLYQLEDSFLKTKKLRTARRQKTKM
 KRLQTVQQR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031955

ORF Size: 1707 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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_031955.2](#), [NP_114161.2](#)

RefSeq Size: 2070 bp

RefSeq ORF: 1710 bp

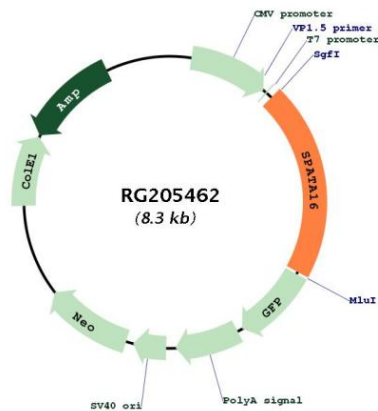
Locus ID: 83893

UniProt ID: [Q9BXB7](#)

Cytogenetics: 3q26.31

Gene Summary: This gene encodes a testis-specific protein that belongs to the tetratricopeptide repeat-like superfamily. The encoded protein localizes to the Golgi apparatus and may play a role in spermatogenesis. [provided by RefSeq, May 2010]

Product images:



Circular map for RG205462