

# **Product datasheet for RC221184**

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OriGene Technologies, Inc.

# SPAG11B (NM 058203) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** SPAG11B (NM\_058203) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: SPAG11B

Synonyms: EDDM2B; EP2; EP2C; EP2D; HE2; HE2C; SPAG11; SPAG11A

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

Cell Selection: Neomycin

ORF Nucleotide >RC221184 representing NM\_058203

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGAGGCAACGATTGCTCCCGTCCGTCACCAGCCTTCTCCTTGTGGCCCTGCTGTTTCCAGGATCGTCTC AAGCCAGACATGTGAACCACTCAGCCACTGAGGCTCTCGGAGAACTCAGGGAAAGAGCCCCTGGGCAAGG CACAAACGGGTTTCAGCTGCTACGCCACGCAGTGAAACGGGACCTCTTACCACCGCGCACCCCACCTTAC CAAGAACCTGCATCAGATTTAAAAGTTGTTGACTGCAGGAGAAGTGAAGGCTTCTGCCAAGAATACTGTA

ATTATATGGAAACACAAGTAGGCTACTGCTCTAAAAAGAAGACGCCTGCTGTTTACAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC221184 representing NM\_058203

Red=Cloning site Green=Tags(s)

MRQRLLPSVTSLLLVALLFPGSSQARHVNHSATEALGELRERAPGQGTNGFQLLRHAVKRDLLPPRTPPY

QEPASDLKVVDCRRSEGFCQEYCNYMETQVGYCSKKKDACCLH

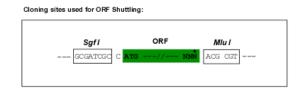
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

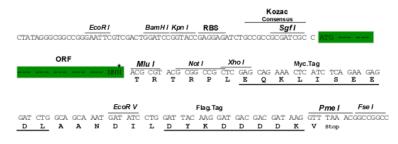
**Restriction Sites:** Sgfl-Mlul





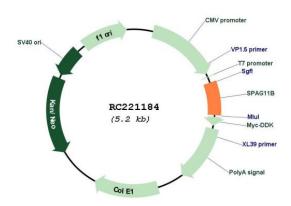
#### **Cloning Scheme:**





<sup>\*</sup> The last codon before the Stop codon of the ORF

## Plasmid Map:



**ACCN:** NM\_058203

ORF Size: 339 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



## SPAG11B (NM\_058203) Human Tagged ORF Clone - RC221184

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.

RefSeq: <u>NM 058203.2</u>, <u>NP 478110.1</u>

 RefSeq Size:
 651 bp

 RefSeq ORF:
 342 bp

 Locus ID:
 10407

 UniProt ID:
 Q08648

 Cytogenetics:
 8p23.1

**Protein Families:** Secreted Protein

**MW:** 12.7 kDa

**Gene Summary:** This gene encodes several androgen-dependent, epididymis-specific secretory proteins. The

specific functions of these proteins have not been determined, but they are thought to be involved in sperm maturation. Some of the isoforms contain regions of similarity to beta-defensins, a family of antimicrobial peptides. The gene is located on chromosome 8p23 near the defensin gene cluster. Alternative splicing of this gene results in seven transcript variants encoding different isoforms. Two different N-terminal and five different C-terminal protein sequences are encoded by the splice variants. Two additional variants have been described, but their full length sequences have not been determined. [provided by RefSeq, Jul 2008]