

Product datasheet for RC224764

SPAG11B (NM_058201) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPAG11B (NM_058201) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SPAG11B
Synonyms:	EDDM2B; EP2; EP2C; EP2D; HE2; HE2C; SPAG11; SPAG11A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224764 representing NM_058201 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGAGGCAACGATTGCTCCCGTCCGTACCAGCCTTCTCCTTGTGGCCCTGCTGTTCCAGGATCGTCTC
AAGCCAGACATGTGAACCACTCAGCCACTGAGGCTCTCGGAGAACTCAGGAAAGAGCCCTGGGCAAGG
CACAAACGGGTTTCAGCTGCTACGCCACGCAGTAAACGGGACCTTTACCACCGCGCACCCACCTTAC
CAAGGGGATGTTCCACCGGAATTAGAAATACCATCTGCCGTATGCAGCAAGGGATCTGCAGACTTTTTT
TCTGCCATTCTGGTGAGAAAAAGCGTGACATTTGCTCTGATCCCTGGAATAGGTGTTGCGTATCAAATAC
AGATGAAGAAGAAAAGAGAAACCAGAGATGGATGGCAGATCTGGGATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC224764 representing NM_058201 Red=Cloning site Green=Tags(s)
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MRQRLPSVTSLLLVALLPFGSSQARHVNHSATEALGELRERAPQGQTNFQLLRHAVKRDLLPPRTPPY
QGDVPPGIRNTICRMQQGICRLFFCHSGEKKRDICSDPWNRCVSNTEEGKEKPEMDGRSGI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:	https://cdn.origene.com/chromatograms/mk8011_h06.zip
Restriction Sites:	SgfI-MluI


[View online »](#)

Cloning Scheme:


ACCN: NM_058201

ORF Size: 399 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.

RefSeq: [NM_058201.1](#), [NP_478108.1](#)

RefSeq Size: 718 bp

RefSeq ORF: 402 bp

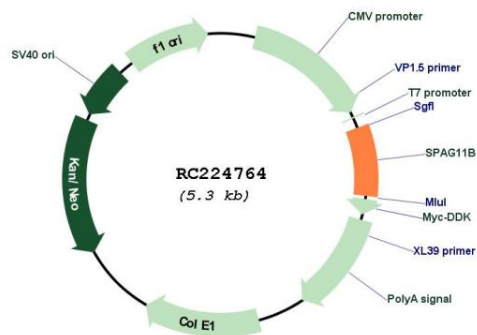
Locus ID: 10407

UniProt ID: [Q08648](#)

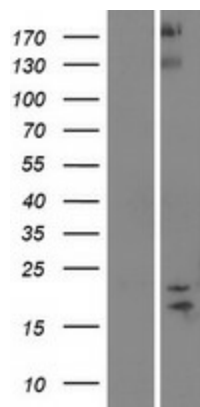
Cytogenetics: 8p23.1
Protein Families: Secreted Protein
MW: 12.1 kDa

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]

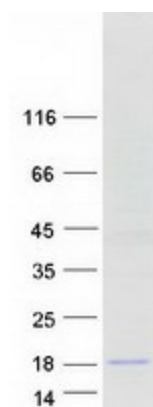
Product images:



Circular map for RC224764



Western blot validation of overexpression lysate (Cat# [LY409232]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224764 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SPAG11B protein (Cat# [TP324764]). The protein was produced from HEK293T cells transfected with SPAG11B cDNA clone (Cat# RC224764) using MegaTran 2.0 (Cat# [TT210002]).