

## Product datasheet for **RC202803**

### SPANXE (NM\_145665) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SPANXE (NM\_145665) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** SPANXE  
**Synonyms:** SPANX-E  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC202803 representing NM\_145665  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACAAACAATCCAGTGCCGGCGGGTGAAGAGGAGCGTCCCCTGTGATTCCAACGAGGCCAACGAGA  
TGATGCCGGAGACCTCGAGTGGTACTCAGACCCGCAACCTGCTCCGAAAAAATAAAAACATCTGAGTC  
CTCGACCATACTAGTGGTTCGCTACAGGAGGAACGTGAAAAGAACATCTCCAGAGGAACCTGGTGAATGAC  
CACGCCCGAGAGAACAGAATCAACCCCTCCAAATGGAGGAGGAGGAATTCATGGAATAATGGTTGAA  
TACCTGCAAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC202803 representing NM\_145665  
Red=Cloning site Green=Tags(s)  
MDKQSSAGGVKRSVPCDSNEANEMMPETSSGYSQPAPKPKLKTSESSTILVVRYRRNVKRTSPEELVND  
HARENRIINPLQMEEEEFMEIMVEIPAK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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Cloning Scheme:



ACCN: NM\_145665

ORF Size: 291 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_145665.1](#), [NP\\_663698.1](#)

**RefSeq Size:** 469 bp

**RefSeq ORF:** 293 bp

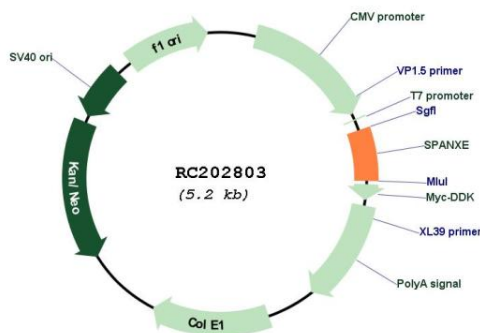
**Locus ID:** 171489

**Cytogenetics:** Xq27.2

**MW:** 11.4 kDa

**Gene Summary:** Temporally regulated transcription and translation of several testis-specific genes is required to initiate the series of molecular and morphological changes in the male germ cell lineage necessary for the formation of mature spermatozoa. This gene is a member of the SPANX family of cancer/testis-associated genes, which are located in a cluster on chromosome X. The SPANX genes encode differentially expressed testis-specific proteins that localize to various subcellular compartments. This particular gene encodes a sperm protein that contains a consensus nuclear localization signal but, although a role in spermatogenesis is suggested, the specific function of this family member has not yet been determined. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RC202803