

Product datasheet for RC212748

SPANXA2 (NM_145662) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SPANXA2 (NM_145662) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SPANXA2
Synonyms: CT11.1; CT11.3; SPANX; SPANX-A; SPANX-C; SPANXA; SPANXC
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC212748 representing NM_145662
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAAACAATCCAGTGCCGGCGGGTGAAGAGGAGCGTCCCCTGTGATTCCAACGAGGCCAACGAGA
TGATGCCGAGACCCCACTGGGACTCAGACCCGCACTGCTCCTAAAAAATGAAAACATCTGAGTC
CTCGACCATACTAGTGGTTCGCTACAGGAGGAACCTTAAAAGAACATCTCCAGAGGAACTGCTGAATGAC
CACGCCGAGAGAACAGAATCAACCCCTCCAAATGGAGGAGGAGGAATTCATGGAATAATGGTTGAA
TACCTGCAAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC212748 representing NM_145662
Red=Cloning site Green=Tags(s)
MDKQSSAGGVKRSVPCDSNEANEMMPETPTGSDPQPAPKKMKTSESSTILVVRYRRNFKRTSPEELLND
HARENRIINPLQMEEEEFMEIMVEIPAK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8103_f07.zip

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_145662

ORF Size: 291 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_145662.4](#)

RefSeq Size: 420 bp

RefSeq ORF: 294 bp

Locus ID: 728712

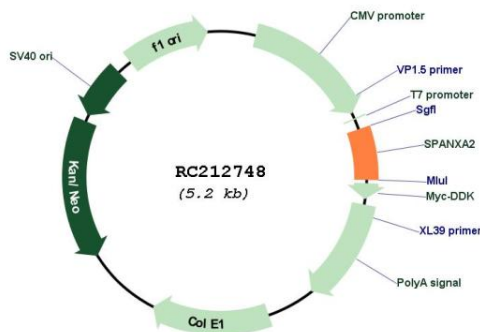
UniProt ID: [Q9NS26](#)

Cytogenetics: Xq27.2

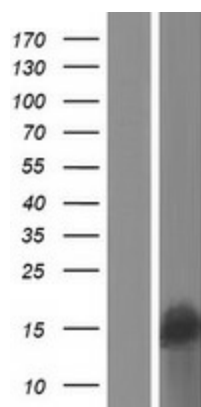
MW: 11 kDa

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 maps to chromosome X in a head-to-head orientation with SPANX family member A1 and appears to be a duplication of that locus. The protein encoded by this gene targets to the nucleus where it associates with nuclear vacuoles and the redundant nuclear envelope. Based on its association with these poorly characterized regions of the sperm nucleus, this protein provides a biochemical marker to study unique structures in spermatazoa while attempting to further define its role in spermatogenesis. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC212748



Western blot validation of overexpression lysate (Cat# [LY407887]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212748 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).