

Product datasheet for RC211653

SPANXA1 (NM_013453) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPANXA1 (NM_013453) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SPANXA1
Synonyms:	CT11.1; CT11.3; NAP-X; SPAN-X; SPAN-Xa; SPAN-Xb; SPANX; SPANX-A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<p>>RC211653 ORF sequence</p> <p>Red=Cloning site Blue=ORF Green=Tags(s)</p> <p>TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC</p> <p>ATGGACAAACAATCCAGTGCCGGCGGGGTGAAGAGGAGCGTCCCCTGTGATTCCAACGAGGCCAACGAGATGATGCCGAGACCCCACTGGGACTCAGACCCGCAACCTGCTCCTAAAAAATGAAAACATCTGAGTCTCGACCATACTAGTGGTTCGCTACAGGAGGAACCTTTAAAGAACATCTCCAGAGGAAGTCTGAATGACCACGCCCAGAGAACAGAATCAACCCCTCCAAATGGAGGAGGAGGAATTCATGGAATAATGGTTGAAATACCTGCAAAG</p> <p>ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA</p>
Protein Sequence:	<p>>RC211653 protein sequence</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MDKQSSAGGVKRSVPDCSNEANEMMPETPTGSDPQPAPKKMKTSESSTILVVRYYRRNFKRTSPEELLNDHARENRLNPLQMEEEEFMEIMVEIPAK</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Chromatograms:	https://cdn.origene.com/chromatograms/mk6473_d10.zip
Restriction Sites:	SgfI-MluI


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Cloning Scheme:


ACCN: NM_013453

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.

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

RefSeq: [NM_013453.3](#)

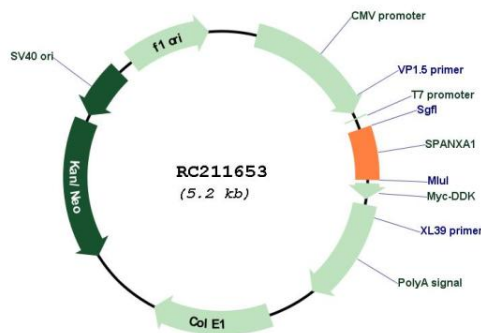
RefSeq Size: 418 bp

RefSeq ORF: 294 bp

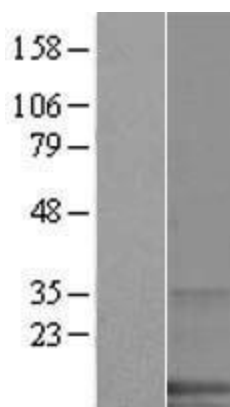
Locus ID: 30014
UniProt ID: [Q9NS26](#)
Cytogenetics: Xq27.2
MW: 11 kDa

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 A2, which appears to be a duplication of the A1 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 spermatozoa while attempting to further define its role in spermatogenesis. [provided by RefSeq, Jul 2008]

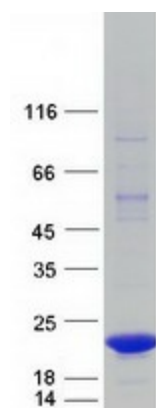
Product images:



Circular map for RC211653



Western blot validation of overexpression lysate (Cat# [LY415587]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211653 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SPANXA1 protein (Cat# [TP311653]). The protein was produced from HEK293T cells transfected with SPANXA1 cDNA clone (Cat# RC211653) using MegaTran 2.0 (Cat# [TT210002]).