

Product datasheet for **RC208858**

SPANX (SPANXC) (NM_022661) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SPANX (SPANXC) (NM_022661) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SPANX
Synonyms: CT11.3; CTp11; SPANX-C; SPANX-E; SPANXE
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC208858 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAACTACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACAAACAATCCAGTGCCGGCGGGGTGAAGAGGAGCGTCCCCTGTGAATCCAACGAGGTGAATGAGA
 CGATGCCGGAGACCCCACTGGGACTCAGACCCGCAACCTGCTCCTAAAAAATGAAAACATCTGAGTC
 CTCGACCATACTAGTGGTTCGCTACAGGAGGAACGTGAAAAGAACATCTCCAGAGGAAGTCTGAATGAC
 CACGCCCGAGAGAACAGAATCAACCCCTCCAAATGGAGGAGGAGGAATTCATGGAATAATGGTTGAAA
 TACCTGCAAAG

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC208858 protein sequence
 Red=Cloning site Green=Tags(s)

MDKQSSAGGVKRSVPCESEVNETMPETPTGSDPQPAPKKMKTSESSTILVRYRRNVKRTSPEELLND
 HARENRLNPLQMEEEEFMEIMVEIPAK

TRTRPLE**QKLISEEDLA**NDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6774_a08.zip

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_022661

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_022661.2](#), [NP_073152.1](#)

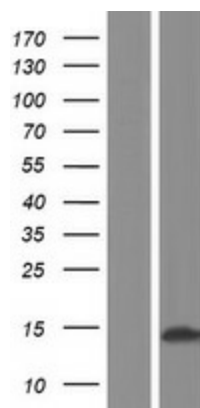
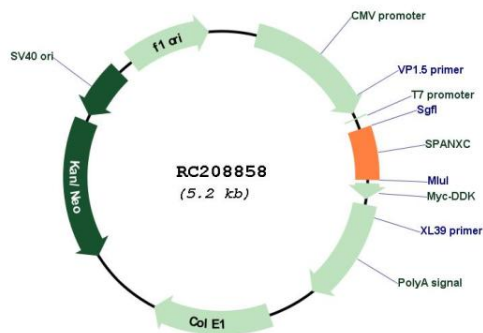
RefSeq Size: 441 bp

RefSeq ORF: 294 bp

Locus ID: 64663
UniProt ID: [Q9NY87](#)
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, which is located in a gene cluster on chromosome X. The SPANX genes encode differentially expressed testis-specific proteins that localize to various subcellular compartments. This particular gene encodes a protein that localizes to the nucleus and is expressed in highly metastatic cell lines, making the protein a potential diagnostic and prognostic marker. The protein belongs to a family of cancer/testis antigens and represents a potential target for cancer immunotherapy. [provided by RefSeq, Jul 2008]

Product images:



Western blot validation of overexpression lysate (Cat# [LY411604]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208858 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).