

## Product datasheet for PH311653

### SPANXA1 (NM\_013453) Human Mass Spec Standard

#### Product data:

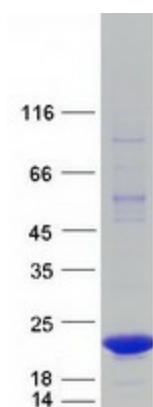
Product Type:	Mass Spec Standards
Description:	SPANXA1 MS Standard C13 and N15-labeled recombinant protein (NP_038481)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC211653
Predicted MW:	11 kDa
Protein Sequence:	>RC211653 protein sequence Red=Cloning site Green=Tags(s)  MDKQSSAGGVKRSVPCDSNEANEMMPETPTGSDPQPAPKKMKTSESSTILVRYRRNFKRTSPEELLND HARENRIINPLQMEEEEFMEIMVEIPAK  TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_038481</a>
RefSeq Size:	418
RefSeq ORF:	291
Synonyms:	CT11.1; CT11.3; NAP-X; SPAN-X; SPAN-Xa; SPAN-Xb; SPANX; SPANX-A
Locus ID:	30014
UniProt ID:	<a href="#">Q9NS26</a>
Cytogenetics:	Xq27.2



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**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:**

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]).