

## Product datasheet for PH321009

### SPANXB1 (NM\_032461) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	SPANXB1 MS Standard C13 and N15-labeled recombinant protein (NP_115850)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC221009
Predicted MW:	11.8 kDa
Protein Sequence:	<p>&gt;RC221009 protein sequence</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MGQQSSVRRLLKRSVPCESEANEANEANKTMPETPTGSDPQPAPKKMKTSSESSTILVVRYYRRNVKRTSP EELVNDHARENRPDQMEEEFIEITTERPKK</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
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_115850</a>
RefSeq Size:	469
RefSeq ORF:	309
Synonyms:	B1; CT11.2; SPANX-B; SPANXB; SPANXB2; SPANXF1; SPANXF2
Locus ID:	728695
UniProt ID:	<a href="#">Q9NS25</a>
Cytogenetics:	Xq27.1


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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 family member contains an additional 18 nucleotides in its coding region compared to the other family members in the same gene cluster. This family member is also subject to gene copy number variation. Although the protein encoded by this gene contains consensus nuclear localization signals, the major site for subcellular localization of expressed protein is in the cytoplasmic droplets of ejaculated spermatozoa. This protein provides a biochemical marker for studying the unique structures in spermatozoa, while attempting to further define its role in spermatogenesis. [provided by RefSeq, Apr 2014]

**Product images:**


Coomassie blue staining of purified SPANXB1 protein (Cat# [TP321009]). The protein was produced from HEK293T cells transfected with SPANXB1 cDNA clone (Cat# [RC221009]) using MegaTran 2.0 (Cat# [TT210002]).