

## Product datasheet for MC225200

### Sptbn1 (NM\_009260) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sptbn1 (NM_009260) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sptbn1
Synonyms:	9930031C03Rik; AL033301; elf1; elf3; mKIAA4049; Spnb-2; Spnb2; SPTB2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC225200 representing NM_009260 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGTTGCAGAGGACATCCAGCATTTAGGGCCGCTGTGCGCCGCCTACACCGGGCAGGTGCCTTACA  
ACTACAACCAACTGGAAGGAAGATTC AACAGCTCCAAGATGAGCGTGAAGCTGTACAGAAGAAGACCTT  
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CCGAGAATTTGCTCGAGACACAGGAAACATTGGGCAGGAGCGTGTGGATACAGTTAATAACATGGCAGAT  
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 TGACCATTCATGGTCTGGAATGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_009260
- Insert Size:** 6465 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_009260.2](#), [NP\\_033286.2](#)
- RefSeq Size:** 9049 bp
- RefSeq ORF:** 6465 bp
- Locus ID:** 20742
- UniProt ID:** [Q62261](#)

**Cytogenetics:** 11 17.44 cM

**Gene Summary:** Fodrin, which seems to be involved in secretion, interacts with calmodulin in a calcium-dependent manner and is thus candidate for the calcium-dependent movement of the cytoskeleton at the membrane.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (2) contains different segments for its 5' UTR, 5' coding region, 3' coding region and 3' UTR, compared to variant 1. The resulting protein (isoform 2) has shorter and distinct N- and C- termini when it is compared to isoform 1.