

## Product datasheet for **MR224488**

### **Sntb2 (NM\_009229) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Sntb2 (NM_009229) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sntb2
Synonyms:	Snt2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR224488 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGTGTGGACGCGGCCACCAAGCGGGGCTGGTGGAGCTGCTTCTAAGGGAGCGCTGGTGCGGG  
 TGGTGGCCGAGCTCAGTGGCGAGAGCCTGAGCCTGACGGGCGACGCCCGCGCAGTCGAGCCTGAGCCGCC  
 GGCGGCCGCTTCAACGGTCTTCCGAACGGCGGGCGGGCGAGTCTCTGCCCGGGAGCCGAACCGTGGC  
 CTGGGGCCGCCAGCCCTCCCGCGCCGCCCGCGGTCCCGCGGGGAAGCGAGCGCCTCGCCGCCGTGC  
 GCCGAGTGCAGTGGTGAAGCAAGAGGGCGGGCGCCTGGGCATCAGCATCAAGGGCGGCCGAGAACCG  
 GATGCCGATCCTCATCTCAAGATCTTCCCGGGGCTGGCGGCCGACCAGAGCCGGGCGCTGCGGCTGGG  
 GACGCCATCCTGTCGGTGAACGGCACCGACCTGCGCCAGGCCACCCAGCAGCCGCGTGCAGGCGCTGA  
 AGCGCGCGGGCAAGGAGGTGCTGCTGGAGTCAAATTCATCCGAGAAGTAACACCATATATCAAGAAACC  
 ATCTTTAGTATCAGATCTGCCATGGGAAGTGCCTCTCCCGAGTCTCAAGCTTTAGTGGCAGTGAAGAC  
 TCTGGCTCTCAAAGCATCAGAACCACCAAGGACAGGAAGGTATCCCTCTCAAAATGTCTTTGCTG  
 CTCGAAACCTGAGCATGCCAGATCTGGAGAACAGATTGATAGAGCTACATTCTCCTGATAGCAGGAACAC  
 CTTGATCTTACGCTGCAAGGATACGGCCACAGCACACTCCTGGTTCGTAGCTATCCACACCAACATAATG  
 GCTCTCTCCACAGGACTGGCTGAGCTCAATGCCATGCTTGGTGAACCAAGTACAGCGGGAGGCAGCA  
 AGGAAGTCAAGCATATTGCTGGCTGGCAGAGCAGGCAAAGCTGGATGGTGGACGACAGCAGTGGAGGCC  
 TGTTCTCATGGCTGTGACTGAGAAGGACTTGCTACTTTATGACTGCATGCCTGGACAAGAGATGCCTGG  
 GCATACCGGTGCATAGCTACCCTTTGTTGCCACAAGTTGGTTCATTACAGTTCTGGATGTCGGTCCAC  
 CCTCCCTTGGATCTGACCTGACCTTTGCTACCAGGACAGGCTCTCGGCAGGGCATTGAGATGCATCTTT  
 CAGGGTTGAAACTCATCGGATTTGTCGACCTGGACCAGAATACTTGTTCAGGGCTGCCATGCTGCTGCT  
 GAGCTGATCAAGGAAGTCTCCCTAGGCTGCACCTTAAGTGGCCAAGAGGTAAGGTTCACTGTCCACTATG  
 AACACGGGTTCACTATCACCAGAGACAATGGAGGCGCCAGCAGCATATTGTACCGCTATCCCTTTGAACG  
 GCTGAAGATGCTGCTGATGATGGAATCAGAAATCTCTATTTGGATTTTGGTGGCCCTGAGGGAGAAGT  
 ACTATGGACCTGCATTCTGTCCAAAGCCGATTGTATTTGATTGCACACGTTCTATCCGCCAAAGTCA  
 CTCGCATGGGACTGCTTGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR224488 protein sequence  
 Red=Cloning site Green=Tags(s)

MAVWTRATKAGLVELLLRERWVRVVAELSGESLSLTGDAAAVEPEPPAAAFNGLPNGGGGESLPGSPNRRG  
 LGPPSPAPPARGPAGEASASPPVRRVRVVKQEAGGLGISIKGGRENRMPIILISKIFPGLAADQSRALRLG  
 DAILSVNGTDLRQATHDQAVQALKRAGKEVLEVKFIREVTPYIKKPSLVSDLPWEGASPSQSPFSGSED  
 SGSPKHQNTTKDRKVIPLKMCFAARNLSMPDLENRLIELHSPDSRNTLILRCKDTATAHSWFVAIHTNIM  
 ALLPQVLAELNAMLGATSTAGGSKEVKHIAWLAEQAKLDGGRQQWRPVLMAVTEKDLLLYDCMPWTRDAW  
 ASPCHSYPLVATRLVHSGSGCRSPSLGSDLTFATRTGSRQGIEMHLFRVETHRDLSTWTRILVQGCHAAA  
 ELIKEVSLGCTLSGQEVRFVHYEHGFTITRDNGGASSILYRYPFERLKMADDGIRNLYLDFGGPEGEL  
 TMDLHSCPPIVFLHTFLSAKVTRMGLLV

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_009229

**ORF Size:** 1563 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.

**RefSeq:** [NM\\_009229.5](#)

**RefSeq Size:** 4423 bp

**RefSeq ORF:** 1563 bp

**Locus ID:** 20650

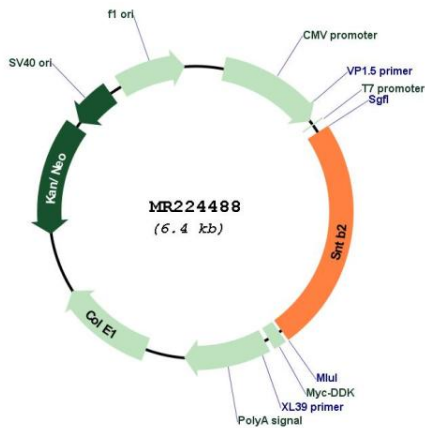
**UniProt ID:** [Q61235](#)

**Cytogenetics:** 8 53.38 cM

**MW:** 56.4 kDa

**Gene Summary:** Adapter protein that binds to and probably organizes the subcellular localization of a variety of membrane proteins. May link various receptors to the actin cytoskeleton and the dystrophin glycoprotein complex. May play a role in the regulation of secretory granules via its interaction with PTPRN (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR224488