

Product datasheet for **MC219400**

Stxbp1 (NM_009295) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stxbp1 (NM_009295) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Stxbp1
Synonyms:	AI317162; AI326233; MMS10-G; Ms10g; Munc-18a; Munc18-1; N-sec1; nsec1; Rb-sec1; Sxtbp1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219400 representing NM_009295
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCCATTGGCCTCAAGGCGGTGGTCCGAGAGAAGATCATGCATGATGTGATCAAGAAGGTGAAGA
 AGAAGGGCGAGTGAAGGTGCTGGTGGTGGACAGTTAAGCATGAGGATGCTGTCTCTCTGCTGCAAGAT
 GACAGACATCATGACCGAGGGCATCACAAATTGTGGAGGATATCAACAAGCGCCGAGAGCCACTCCCCAGC
 CTGGAGGCCGTGTACCTCATCACCCATCTGAGAAGTCTGTCCACTCTCTGATCAGTGATTTTAAGGACC
 CGCCGACTGCTAAATATCGGGCTGCGCATGTGTTCTTACAGACTCGTGTCCAGATGCCCTATTTAACGA
 GCTGTTAAATCCCGAGCAGCCAAAGTCATCAAGACGCTGACGGAAATCAACATTGCGTTTCTCCCTAT
 GAGTCCCAGGTGATTCCCTGGACTCCGCTGACTCTTCCAAAGCTTCTACAGCCCTCACAAGGCGCAGA
 TGAAGAATCCGATACTGGAACGCCTGGCAGAGCAGATCGCAACCCTGTGTGCCACCCTGAAGGAGTATCC
 AGCTGTGCGGTATCGGGGGAGTACAAGGACAATGCCTTGCTGGCTCAGCTGATCCAGGACAAGCTGGAT
 GCCTATAAAGCCGACGATCCAACAATGGGGGAGGGTCCCGACAAGGCACGGTCCCAGCTCCTGATCCTGG
 ATCGTGGCTTTGACCCAGCTCCCTGTGCTCCATGAACTGACATTCCAGGCTATGAGTTATGACCTGCT
 GCCTATCGAAAATGATGTTTACAAGTATGAGACCAGCGGCATTGGAGAGGCGCGGGTGAAGGAGGTGCTA
 CTGGATGAGGACGATGACCTGTGGATTGCGCTGCGACACAAGCACATCGCAGAGGTGTCCAGGAAGTCA
 CCCGGTCTCTGAAGGACTTTTCTCTAGCAAGAGGATGAACACTGGCGAGAAGACCACCATGCGGGACCT
 GTCCCAGATGCTGAAGAAAATGCCCCAGTACCAGAAGGAGCTCAGCAAGTATTGACTCACCTGCACCTT
 GCTGAAGACTGCATGAAGCATTACCAAGGCACTGTAGACAAAATCTGCCGCTGGAGCAGGACCTGGCAA
 TGGGCACAGATGCTGAGGGGGAAAAAATCAAGGACCCCATGAGAGCCATTGTCCCCTCCTGCTGGATGC
 GAACGTCAGCACTTACGACAAAATCCGTATCATCCTTCTTACATCTTCTGAAAGAACGGTATCACTGAG
 GAGAACCATAAACAACTCATCCAGCAGCTCAGATACCCCGAGGACAGCGAGATCATACCAACATGG
 CTCACCTCGGCGTGCCCATCGTCACGGATTCCACACTACGCCGCCGAAGCAAACCGGAGCGGAAGGAGCG
 TATCAGTGAGCAGACCTACCAGCTCTCACGATGGACCCCGATCATTAAAGACATTATGGAGGACACTATC
 GAAGACAAGCTGGATACAAAGCACTACCCATACATCTCTACCCGCTCGTCCGCTCCTTACGACCACTG
 CTGTGAGTGCCCGCTATGGACATTGGCACAAGAATAAGGCCCCCGGGGAGTACCGCAGCGGTCCCCGCT
 CATTATTTTTCATCCTTGGGGTGTGAGCCTGAATGAGATGCGCTGTGCTTACGAAGTGACCCAGGCCAAC
 GGCAAGTGGGAAGTGTGATAGGATCCACGCACATTCTACCCACAGAACTGCTGGACACGCTGAAGA
 AGCTGAATAAAACAGATGAAGAAATAAGCAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_009295
- Insert Size:** 1785 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_009295.2](#), [NP_033321.2](#)

RefSeq Size: 3874 bp

RefSeq ORF: 1785 bp

Locus ID: 20910

UniProt ID: [O08599](#)

Cytogenetics: 2 22.09 cM

Gene Summary: Participates in the regulation of synaptic vesicle docking and fusion through interaction with GTP-binding proteins (By similarity). Essential for neurotransmission and binds syntaxin, a component of the synaptic vesicle fusion machinery probably in a 1:1 ratio. Can interact with syntaxins 1, 2, and 3 but not syntaxin 4. May play a role in determining the specificity of intracellular fusion reactions (By similarity).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) lacks an alternate exon in the coding region, (compared to variant 1), which results in a frameshift. The resulting isoform (b) has a shorter and distinct C-terminus, compared to isoform a.