

Product datasheet for **MC219481**

Stxbp1 (NM_001113569) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stxbp1 (NM_001113569) 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: >MC219481 representing NM_001113569
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCCATTGGCCTCAAGGCGGTGGTCGGAGAGAAGATCATGCATGATGTGATCAAGAAGGTGAAGA
 AGAAGGGCGAGTGAAGGTGCTGGTGGTGGACAGTTAAGCATGAGGATGCTGTCTCTCTGCAAGAT
 GACAGACATCATGACCGAGGGCATCACAAATTGTGGAGGATATCAACAAGCGCCGAGAGCCACTCCCCAGC
 CTGGAGGCCGTGTACCTCATCACCCATCTGAGAAGTCTGTCCACTCTCTGATCAGTGATTTTAAGGACC
 CGCCGACTGCTAAATATCGGGCTGCGCATGTGTTCTTACAGACTCGTGTCCAGATGCCCTATTTAACGA
 GCTGGTAAATCCCGAGCAGCCAAAGTCATCAAGACGCTGACGGAAATCAACATTGCGTTTCTCCCTAT
 GAGTCCCAGGTGATTCCCTGGACTCCGCTGACTCTTCCAAAGCTTCTACAGCCCTCACAAGGCGCAGA
 TGAAGAATCCGATACTGGAACGCCTGGCAGAGCAGATCGCAACCCTGTGTCCACCCTGAAGGAGTATCC
 AGCTGTGCGGTATCGGGGGGAGTACAAGGACAATGCCTTGCTGGCTCAGCTGATCCAGGACAAGCTGGAT
 GCCTATAAAGCCGACGATCCAACAATGGGGGAGGGTCCCGACAAGGCACGGTCCCAGCTCCCTGATCCTGG
 ATCGTGGCTTTGACCCAGCTCCCTGTGCTCCATGAACTGACATTCCAGGCTATGAGTTATGACCTGCT
 GCCTATCGAAAATGATGTTTACAAGTATGAGACCAGCGGCATTGGAGAGGCGCGGGTGAAGGAGGTGCTA
 CTGGATGAGGACGATGACCTGTGGATTGCGCTGCGACACAAGCACATCGCAGAGGTGTCCAGGAAGTCA
 CCCGGTCTCTGAAGGACTTTTCTCTAGCAAGAGGATGAACACTGGCGAGAAGACCACCATGCGGGACCT
 GTCCCAGATGCTGAAGAAAATGCCCCAGTACCAGAAGGAGCTCAGCAAGTATTCGACTCACCTGCACCT
 GCTGAAGACTGCATGAAGCATTACCAAGGCACTGTAGACAAAATCTGCCCGTGGAGCAGGACCTGGCAA
 TGGGCACAGATGCTGAGGGGGAAAAAATCAAGGACCCCATGAGAGCCATTGTCCCCTCCTGCTGGATGC
 GAACGTCAGCACTTACGACAAAATCCGTATCATCCTTCTCTACATCTTCCCTGAAGAACGGTATCACTGAG
 GAGAACCCTAAACAACTCATCCAGCAGCTCAGATACCCCGAGGACAGCGAGATCATACCAACATGG
 CTCACCTCGGCGTGCCCATCGTCACGGATTCCACACTACGCCGCCGAAGCAAACCGGAGCGGAAGGAGCG
 TATCAGTGAGCAGACCTACCAGCTCTCACGATGGACCCCGATCATTAAAGACATTATGGAGGACACTATC
 GAAGACAAGCTGGATACAAAGCACTACCCATACATCTCTACCCGCTCGTCCGCTCCTCAGCACCCTG
 CTGTGAGTGCCCGCTATGGACATTGGCACAAGAATAAGGCCCCCGGGGAGTACCGCAGCGGTCCCGCCT
 CATTATTTTTCATCCTTGGGGGTGTGAGCCTGAATGAGATGCGCTGTGCTTACGAAGTGACCCAGGCCAAC
 GGCAAGTGGGAAGTGTGATAGGTTCTACTCACATTCTACTCCCACAAATTCCTCATGGACCTGAGAC
 ACCCCGACTTCAGGGAGTCTCTAGGGTATCTTTGAGGATCAGGCTCCAACAATGGAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001113569
- Insert Size:** 1812 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:	<ol style="list-style-type: none">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:	<u>NM_001113569.1, NP_001107041.1</u>
RefSeq Size:	4005 bp
RefSeq ORF:	1812 bp
Locus ID:	20910
UniProt ID:	<u>O08599</u>
Cytogenetics:	2 22.09 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).</p>