

## Product datasheet for **MR209328**

### Stxbp1 (NM\_001113569) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Stxbp1 (NM_001113569) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Stxbp1
Synonyms:	AI317162; AI326233; MMS10-G; Ms10g; Munc-18a; Munc18-1; N-sec1; nsec1; Rb-sec1; Sxtbp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR209328 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCCCATTGGCCTCAAGGCGGTGGTCCGAGAGAAGATCATGCATGATGTGATCAAGAAGGTGAAGA  
 AGAAGGGCGAGTGAAGGTGCTGGTGGTGGACCGTTAAGCATGAGGATGCTGTCTCTCTGCAAGAT  
 GACAGACATCATGACCGAGGGCATCACAAATTGTGGAGGATATCAACAAGCGCCGAGAGCCACTCCCCAGC  
 CTGGAGGCCGTGTACCTCATACCCCATCTGAGAAGTCTGTCCACTCTCTGATCAGTGATTTTAAGGACC  
 CGCCGACTGCTAAATATCGGGCTGCGCATGTGTTCTTACAGACTCGTGTCCAGATGCCCTATTTAACGA  
 GCTGTTAAATCCCGAGCAGCCAAAGTCATCAAGACGCTGACGGAAATCAACATTGCGTTTCTCCCTAT  
 GAGTCCCAGGTGATTCCCTGGACTCCGCTGACTCTTCCAAAGCTTCTACAGCCCTCACAAGGCGCAGA  
 TGAAGAATCCGATACTGGAACGCCTGGCAGAGCAGATCGCAACCCTGTGTCCACCCTGAAGGAGTATCC  
 AGCTGTGGGTATCGGGGGGAGTACAAGGACAATGCCTTGTGGCTCAGCTGATCCAGGACAAGCTGGAT  
 GCCTATAAAGCCGACGATCCAACAATGGGGGAGGGTCCCGACAAGGCACGGTCCCAGCTCCTGATCCTGG  
 ATCGTGGCTTTGACCCAGCTCCCTGTGCTCCATGAAGTACATTCCAGGCTATGAGTTATGACCTGCT  
 GCCTATCGAAAATGATGTTTACAAGTATGAGACCAGCGGCATTGGAGAGGCGCGGGTGAAGGAGGTGCTA  
 CTGGATGAGGACGATGACCTGTGGATTGCGCTGCGACACAAGCACATCGCAGAGGTGTCCAGGAAGTCA  
 CCCGGTCTCTGAAGGACTTTTCTCTAGCAAGAGGATGAACACTGGCGAGAAGACCACCATGCGGGACCT  
 GTCCCAGATGCTGAAGAAAATGCCCCAGTACCAGAAGGAGCTCAGCAAGTATTGACTCACCTGCACCTT  
 GCTGAAGACTGCATGAAGCATTACCAAGCACTGTAGACAAAATCTGCCGCTGGAGCAGGACCTGGCAA  
 TGGGCACAGATGCTGAGGGGGAAAAAATCAAGGACCCCATGAGAGCCATTGTCCCCTCTGCTGGATGC  
 GAACGTCAGCACTTACGACAAAATCCGTATCATCCTTCTACATCTTCTGAAGAACGGTATCACTGAG  
 GAGAACCATAAACAACACTCATCCAGCAGCTCAGATACCCCGAGGACAGCGAGATCATACCAACATGG  
 CTCACCTCGGCGTGCCCATCGTCACGGATTCCACACTACGCCGCCGAAGCAAACCGGAGCGGAAGGAGCG  
 TATCAGTGAGCAGACCTACCAGCTCTCACGATGGACCCCGATCATTAAAGACATTATGGAGGACACTATC  
 GAAGACAAGCTGGATACAAAGCACTACCCATACATCTCTACCCGCTCGTCCGCTCCTCAGCACCCTG  
 CTGTGAGTGCCCGCTATGGACATTGGCACAAGAATAAGGCCCCCGGGGAGTACCGCAGCGGTCCCGCCT  
 CATTATTTTATCCTTGGGGGTGTGAGCCTGAATGAGATGCGCTGTGCTTACGAAGTACCCAGGCCAAC  
 GGCAAGTGGGAAGTGTGATAGGTTCTACTCACATTCTACTCCCACAAATTCCTCATGGACCTGAGAC  
 ACCCCGACTTCAGGGAGTCTTAGGGTATCTTTGAGGATCAGGCTCCAACAATGGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR209328 protein sequence  
 Red=Cloning site Green=Tags(s)

MAPIGLKAVVGEKIMHDVIKKVKKKGEWKVLVVDQLSMRMLSSCCKMTDIMTEGITIVEDINKRREPLPS  
 LEAVYLITPSEKSVHSLISDFKDPPTAKYRAAHVFFDSCPDALFNELVKSRAAKVIKTLTEINIAFLPY  
 ESQVYSLDSADSFQSFYSPHKAQMKNPILERLAEQIATLCATLKEYPAVRYRGEYKDNALLAQLIQDKLD  
 AYKADDPTMGEGDPKARSQLLILDRGDFPSSPVLHELTFQAMSYDLLPIENDVYKYETSGIGEARVKEVL  
 LDEDDLWIALRHKHIAEVSQEVTRSLKDFSSSKRMNTGEKTTMRDLSQMLKMPQYQKELSKYSTHLHL  
 AEDCMKHVQGTVDKLCRVEQDLAMGTDAGEKIKDPMRAIVPILLDANVSTYDKIRIILLYIFLKNNGITE  
 ENLNKLIQHAQIPPEDSEIITNMAHLGVPIVTDSTLRRRSKPERKERISEQTYQLSRWTPIIKDIMEDTI  
 EDKLDTKHYPYISTRSSASFSTTAVSARYGHWKKNKAPGEYRSGPRLIIFILGGVSLNEMRCAYEVTQAN  
 GKWEVLIGSTHILTPTKFLMDLRHPDFRESSRVSFEDQAPTME

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001113569

**ORF Size:** 1812 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\\_001113569.1](#), [NP\\_001107041.1](#)

**RefSeq Size:** 4005 bp

**RefSeq ORF:** 1812 bp

**Locus ID:** 20910

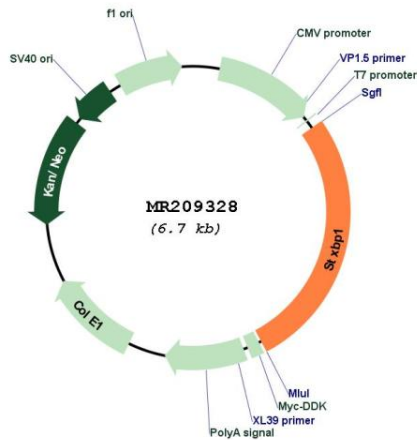
**UniProt ID:** [O08599](#)

**Cytogenetics:** 2 22.09 cM

**MW:** 68.7 kDa

**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]

**Product images:**



Circular map for MR209328