

## Product datasheet for **MG209328**

### Stxbp1 (BC031728) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Stxbp1 (BC031728) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Stxbp1
Synonyms:	Munc-18a, Munc18-1, MMS10-G, Ms10g, N-sec1, Rb-sec1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>BC031728 ORF sequence, MG209328 may differ due to SNPs.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCCCCATTGGCCTCAAGGCGGTGGTGGAGAGAAGATCATGCATGATGTGATCAAGAAGTGAAG
AAGAAGGGCGAGTGAAGGTGCTGGTGGACCAGTTAAGCATGAGGATGCTGTCTCCTGCTGCAAG
ATGACAGACATCATGACCGAGGGCATCACAAATTGTGGAGGATATCAACAAGCGCCGAGAGCCACTCCCC
AGCCTGGAGGCCGTGTACCTCATACCCCATCTGAGAAGTCTGTCCACTCTCTGATCAGTGATTTAAG
GACCCGCCGACTGCTAAATATCGGGCTGCGCATGTGTTCTTACAGACTCGTGTCCAGATGCCCTATTT
AACGAGCTGGTAAAAATCCCGAGCAGCCAAAGTCATCAAGACGCTGACGAAATCAACATTGCGTTTCTC
CCCTATGAGTCCCAGGTGATTCCCTGGACTCCGCTGACTCTTCCAAAGCTTCTACAGCCCTCACAAAG
GCGCAGATGAAGAATCCGATACTGGAACGCTGGCAGAGCAGATCGCAACCCTGTGTGCCACCCTGAAG
GAGTATCCAGCTGTGCGGTATCGGGGGGAGTACAAGACAATGCCTTGTGGCTCAGCTGATCCAGGAC
AAGCTGGATGCCATAAAGCCGACGATCCAACAATGGGGGAGGGTCCCGACAAGGCACGGTCCCAGCTC
TGATCCCTGGATCGTGGCTTTGACCCAGCTCCCTGTGTCCATGAACTGACATTCCAGGCTATGAGT
TATGACCTGTGCCTATCGAAAATGATGTTTACAAGTATGAGACCAGCGCATTGGAGAGGCCGGGGTG
AAGGAGGTGCTACTGGATGAGGACGATGACCTGTGGATTGCGCTGCGACACAAGCACATCGCAGAGGTG
TCCCAGGAAGTACCCCGTCTCTGAAGGACTTTTCTCTAGCAAGAGGATGAACACTGGCAGAGAAGACC
ACCATGCGGGACCTGTCCAGATGTGAAGAAAATGCCCCAGTACCAGAAGGAGCTCAGCAAGTATTCG
ACTCACCTGCACCTTGTGAAGACTGCATGAAGCATTACCAAGGCACTGTAGACAACTCTGCCCGGTG
GAGCAGGACCTGGCAATGGGCACAGATGCTGAGGGGAAAAAATCAAGGACCCCATGAGAGCCATTGTC
CCCATCCTGTGGATGCGAACGTCAGCACTTACGACAAAATCCGTATCATCTTCTCATCTTCTCCTG
AAGAACGGTATCACTGAGGAGAACCTAAACAACACTCATCCAGCAGCTCAGATACCCCGAGGACAGC
GAGATCATCACCAACATGGCTCACCTCGGCGTGCCCATCGTACGATTCCACACTACGCCGCCGAAGC
AAACCGGAGCGGAAGGAGCGTATCAGTGAGCAGACCTACCAGCTCTCACGATGGACCCCGATCATTAAA
GACATTATGGAGGACACTATCGAAGACAAGCTGGATACAAAGCACTACCCATACATCTCTACCCGCTCG
TCCGCGTCTTACGACCACTGCTGTGAGTGCCCGCTATGGACATTGGCACAAGAATAAGGCCCCCGGG
GAGTACCCGAGCGGTCCCGCCTCATTATTTTATCCTTGGGGGTGTGAGCCTGAATGAGATGCGCTGT
GCTTACGAAGTGACCCAGGCCAACGGCAAGTGGGAAGTGTGATAGTTTACTCACATTCTCACTCCC
ACCAAATTCCTCATGGACCTGAGACACCCCGACTTCAGGGAGTCTCTAGGGTATCTTTGAGGATCAG
GCTCCAACAATGGAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by MG209328  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MAPIGLKAVVGEKIMHDIKVKVKKKGEWKVLVVDQLSMRMLSSCKMTDIMTEGITIVEDINKRREPLP
SLEAVYLITPSEKSVHSLISDFKDPPTAKYRAAHVFFTDSCPDALFNELVKSRAAKVIKLTLEINIAFL
PYESQVYSLDSADSFQSFYSPHKAQMKNPILERLAEQIATLCATLKEYPAVRYRGEYKDNALLAQLIQD
KLDAYKADDPMTGEGPDKARSQLLILDRGFDPPSPVLHELTFQAMSYDLLPIENDVYKYETSGIGEARV
KEVLLDEDDLWIALRHKHIAEVSQEVTRSLKDFSSSKRMNTGEKTTMRDLSQMLKKMPQYQKELSKYS
THLHLAEDCMKHYQGTVDKLCRVEQDLAMGTDAEGEKIKDPMRAIVPILLDANVSTYDKIRIILLYIFL
KNGITEENLNKLIQHAQIPPEDSEIITNMAHLGVPIVTDSTLRRRSKPERKERISEQTYQLSRWTPPIK
DIMEDTIEDKLDTKHYPYISTRSSASFSTAVSARYGHHKKNKAPGEYRSGPRLIIFILGGVSLNEMRC
AYEVTQANGKWEVLIGSTHILTPKFLMDLRHPDFRESSRVSFEDQAPTME
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFLSRDGGYSSVVDSHMHFKAIIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** BC031728

**ORF Size:** 1809 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 Size:** 3617 bp

**RefSeq ORF:** 1811 bp

**Locus ID:** 20910

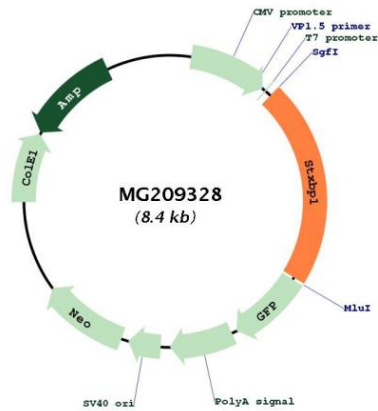
**Cytogenetics:** 2 22.09 cM

**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 MG209328