

## Product datasheet for **MG208536**

### **Stxbp4 (BC032881) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Stxbp4 (BC032881) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Stxbp4
Synonyms:	6030470M02Rik; Synip
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208536 representing BC032881  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGTGATGGTACAGCTTCTGCCCGATCATCCAGCCACTTGACAGGGATCCTGCCTTTGGGTGATTA  
 CAGTTACTAAGGAAACAGGTCTAGGTCTGAAGATCCTAGGCGGAATTAACAGGAATGAAGGACCGCTGGT  
 GTATATTCACGAAGTCATTCTCGGAGGTACTGTTACAAGGATGGACGTTTGAAGCCAGGAGATCAACTT  
 GTCTCAATAAACAAGGAATCTATGATTGGTGTATCATTGAAGAAGCAAAAAGCATAATTACCAGAGCCA  
 AGTTGAGGTCAGAATCTCCCTGGGAGATAGCATTATCAGACAAAAGTCTTACTGTGGCCATCCAGGAAA  
 TATTTGCTGTCCATCCCCACAAGTGTGAGAAGACTGTGGACCTCAAACCTCAACATTTACTCTTCTTTCC  
 TCTCCCTCTGAACACTACTTCAAAGACTTCATCCACTCCCAGACTCAGGACTCCACTTTCCTTCTT  
 GTAAGCAATTCAGACAAAACCTGAACACGATAAAACAGAACATAGTCCAATTACTTCTTTGGACAACAG  
 CCCTGCAGATACATCTAATGCAGACATTGCTCCAGCCTGGACTGATGATGATTCTGGACCACAAGGAAA  
 ATTTCCCTAAATCCTTCTGTTCCGCTTAAGGCAGAGAAACTGAAATGGCTCTCAATTACCTCGGTATAC  
 AGCCAACAAGGAACAACGTGAAGCCCTGAGAGAGCAAGTCCAGGCCGACTCAAAGGGGACTGTGTCTTT  
 TGGAGATTTGCTCCAGGTTGCCAGAAGTTGTTTTGCTTGCAAGTGGATGAAGTAAATGTTGGTGTCCAT  
 GAAATCCCAGCATCTTAGACTCACAGCTTCTCCCTGTGATTCTCTAGAAGCAGATGAAGTGGGAAAAC  
 TTAGACAAGAAAGAAACGCTGCTCTAGAGGAACGGAATGTGCTTAAGGAGAAGTTACTGGAATCAGAAAA  
 GCACAGGAAACAATTGATAGAAGAACTCCAGAATGTGAAGCAGGAAGCCAAAGCTGTAGCTGAGGAAACC  
 CGAGCTCGCAAGCCGATTTCATCTCGCAGAAGCTGCACAGCGCAGGCACACGGGATGGAATGGATT  
 ATGAAGAGGTGATCCGTCTGCTAGAGGCTGAGGCTCAGAATTAAGGCTCAGCTCGCTGATTATTCTGA  
 CAAAAATAAGAAAGTGTCCAGGACTTGAGAAAAAGAGTCAACGTTCTTGACTGCCAATTGCGAAAATCA  
 GAAATGGCTCGGAAAGCATTCAAGGCGTCCACTGAAAGGCTCCTTGGTTTCATAGAGGCTATTCAAGAAG  
 TTCTTTGGATAGTTCTGCTCCTTTATCAACTTTAAGTAAAAGAAGAGCTGTGCTCGCATCTCAGACTTC  
 GCTTCCACTGCTGGCAAGGAACGGACGCAGCTTCCCAGCAACCCTGCTTCTGGAATCCAAGGAGCTTGTC  
 AGATCTGTCGCGCCATACTTGATATGGACTGTAAGTTATCATTATCATCTTCTTCTTCTCTCTCTCTCT  
 CCTCTCTTCTCTCTCTTCTTCTTGTAAATTTATTAACAAAGCAGAAGAAAGACCTT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG208536 representing BC032881  
 Red=Cloning site Green=Tags(s)

MSDGTASARSSSPLDRDPFRVITVTKETGLGLKILGGINRNEGPLVYIHEVIPGGDCYKDGRLKPGDQL  
 VSINKESMIGVSFEEAKSIITRAKLRSESPWEIAFIRQKSYCGHPGNICCPSPQVSEDCGPQTSTFTLLS  
 SPSETLLPKTSSTPQTQDSTFPSCAKIQTKEPHDKTEHSPITSLDNPADTSNADIAPAWTDDDSGPQGK  
 ISLNPSVRLKAEKLEMALNYLGIQPTKEQREALREQVQADSKGTVSFGDFVQVARSLFCLQLDEVNVGVH  
 EIPSIILDSQLLPCDSLEADEVGKLRQERNAALEERNVLEKLESEKHKRQLIEELQNVKQEAQAVAEET  
 RALRSRIHLAEAAQRQAHEMEMDYEEVIRLLEAEVSELKAQLADYSDQNKESVQDLRKRVTVLDQLRKS  
 EMARKAFKASTERLLGFIEAIQEVLLDSSAPLSTLSERRAVLASQTSPLLLARNGRSFPATLLLESKELV  
 RSVRAILDMDCKLSLSSSSPSSSSSFSSSSCNLLNKAERP

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** BC032881

**ORF Size:** 1601 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:** [BC032881](#), [AAH32881](#)

**RefSeq Size:** 1807 bp

**RefSeq ORF:** 1601 bp

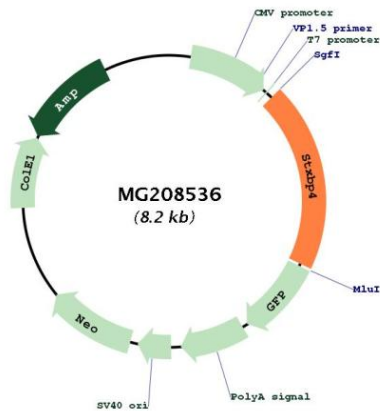
**Locus ID:** 20913

**Cytogenetics:** 11 D

**Gene Summary:**

Plays a role in the translocation of transport vesicles from the cytoplasm to the plasma membrane. Inhibits the translocation of SLC2A4 from intracellular vesicles to the plasma membrane by STX4A binding and preventing the interaction between STX4A and VAMP2. Stimulation with insulin disrupts the interaction with STX4A, leading to increased levels of SLC2A4 at the plasma membrane. May also play a role in the regulation of insulin release by pancreatic beta cells after stimulation by glucose.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG208536