

## Product datasheet for MC223595

### Stxbp5l (NM\_00114611) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Stxbp5l (NM_00114611) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Stxbp5l
Synonyms:	9430094L02; A830015P08Rik; LLGL4; T2dm1; t2md1; tomosyn-2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223595 representing NM_00114611 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAAGAAGTTTAATTTCCGAAAAGTTTTGGATGGCTTAAGTGCCTCTTCCCTGGCAGTGGTAGCAGCA  
GTGGCAGTAACAGTGGTGGGCTGGAAGTGCTCTGTCCATCCAGGAGGACTGCAGGGCTCCGAGAGA  
GGAAATTCAGGAAAGCCTGACTTCAGACTATTTCCAGATTTGCAAGACAGTTCGGCATGGGTTTCCTTAT  
CAGCCACAGCATTGGCCTTTGATCCAGTCCAGAAAATCTTAGCTATTGGAACAAGAACAGGTGCTATAC  
GAATACTTGGGAGGCCTGGTGTGACTGTTACTGCCAACATGAAAGTGGTGGCGGTGCTTTGCAGCTCCA  
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CAGAAAAGGCCGCCATTCTCCATTCTCTAAATTTAACAGAGAACGAATTACTTACTGTCTACCTT  
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TGCTGATGGAACAATAAAATTTGGGATGCTTCAGCAATGACACTGCAGATGTTGTACAAGCTAAAAACT  
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TTGCTGTGCAGATGATCTACTGGTGTCCAGAGAGCAGAATATTTTGTGTCTCTGGAGTCTCTGCATATGT
CATAATTTATAAATTCAGCAGACATGAAGTCACAACAGAAATAGTGTCTACTAGAGGTACGACTTCAGTGT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001114611
- Insert Size:** 3315 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\\_001114611.1](#), [NP\\_001108083.1](#)

RefSeq Size: 11821 bp

RefSeq ORF: 3315 bp

Locus ID: 207227

UniProt ID: [Q5DQR4](#)

Cytogenetics: 16 B3

**Gene Summary:** Plays a role in vesicle trafficking and exocytosis inhibition (PubMed:25002582). In pancreatic beta-cells, inhibits insulin secretion probably by interacting with and regulating STX1A and STX4, key t-SNARE proteins involved in the fusion of insulin granules to the plasma membrane (PubMed:21998599). Plays also a role in neurotransmitter release by inhibiting basal acetylcholine release from axon terminals and by preventing synaptic fatigue upon repetitive stimulation (PubMed:24744148). Promotes as well axonal outgrowth (By similarity). [UniProtKB/Swiss-Prot Function]