

## Product datasheet for MC223775

### Stxbp5l (NM\_00114612) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Stxbp5l (NM_00114612) 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:	>MC223775 representing NM_00114612 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAAGAAGTTTAATTTCCGAAAAGTTTTGGATGGCTTAAGTGCCTCTTCCCCTGGCAGTGGTAGCAGCA  
GTGGCAGTAACAGTGGTGGGCTGGAAGTGGCTCTGTCCATCCAGGAGGACTGCAGGGCTCCGAGAGA  
GGAAATTCAGGAAAGCCTGACTTCAGACTATTTCCAGATTTGCAAGACAGTTCGGCATGGGTTTCCTTAT  
CAGCCCACAGCATTGGCCTTTGATCCAGTCCAGAAAATCTTAGCTATTGGAACAAGAACAGGTGCTATAC  
GAATACTTGGGAGGCCTGGTGTGACTGTTACTGCCAACATGAAAAGTGGTGGCGGTGCTTTGCAGCTCCA  
ATTCCTCATCAATGAGGGCGCGTTGGTCACTGCGAGTTCAGATGACACGCTTCATTTGTGGAATCTGAGA  
CAGAAAAGGCCGCCATTCTCCATTCTCTAAATTTAACAGAGAACGAATTACTTACTGTCTACCTT  
TCCAGAGTAAATGGCTCTATGTTGGAACAGAAAGAGGAAATACACATATTGTAATATTGAATCTTTTCA  
TCTTTCTGGATATGTCATCATGTGGAACAAGGCAATTGAACTCTCCACCAAGACTCATCCAGGCCAGTT  
GTACATTTAAGTATAGCCCAAGAGATGAAGGAAAAGTAAATAGGTTACGAGAATGGCACTGTGGTGT  
TCTGGGACTTGAAATCTAAAAGAGCAGAACTGAGAGTTTATTATGATGAGGCTATTCATCAATTGATTG  
GCATCATGAGGGCAAACAATTTCATGTGCAGCCACTCAGATGGTAGCTTTATGGAACCTGAAAAGC  
CCAAGCCGCCCTTTCAAACCACAGTCCACATGGAAAAAGTCAAAGAGAAGGAAGAAAGTCTGAGTCTT  
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GCTGTATATGACAAAGCTTGCAGAAGACCAAGTTTAAACCATCATGCATGGGAAAGCAATTACAGTGCTT  
GAGATGGATCATCTATTGTTGAGTTTCTAACGTTATGTGAAACGCCCTATCCAATGAATTTCAAGAAC  
CCTATGCTGTTGCTGACTTCTAGAGAAAGATCTCATCGTAGTTGACCTGACACAAACCAATTTTCCAAT  
CTTTGAAAATCCATATCCAATGGACATTCATGAGTCACCTGTTACATGCACAGCATATTTTGCCGATTGC  
CCTCCAGATTTGATTCTAGTACTCTATTCTATAGGAGTCAAGCATAAAAAACAAGGATACAGTAATAAGG  
AATGGCCAGTCAGTGGAGGAGCTTGGAACCTCGGAGCACAACTTATCCAGAAATATTATTACTGGTCA  
TGCTGATGGAACAATAAAATTTGGGATGCTTCAGCAATGACACTGCAGATGTTGTACAAGCTAAAAACT  
TCCAAAGTGTGAAAAGCAGAAGGCAGGAGAAGGCAAACAGACGTGTGAACTTGTAGAGGAAGATCCCT



TTGCTGTGCAGATGATCTACTGGTGTCCAGAGAGCAGAATATTTTGTGTCTCTGGAGTCTCTGCATATGT  
 CATAATTTATAAATTCAGCAGACATGAAGTCACAACAGAAATAGTGTCTACTAGAGGTACGACTTCAGTGT  
 GATGTTGAAGACATTATTACTCTGAGCCAGAAACAAGCCCTCCATTTCCAGATCTCTCCTCAACTTC  
 CTCCTTAAGGAGTCTTTCTGGAAGCACTAATACTGTGTCTAGTGAAGGAGTGACAAAGGACAGCATCCC  
 GTGCCCTCAGTGTTAAAACACGGCCAGTACGAATGCCGCCGGGCTATCAAGCAGATCTTGTATTTCAGTTG  
 GTGTGGTAGATGGTGAAGCTCCTCAGCAAATACCAGCCTTTCTATAAGCTCAGCATATGAATAGTGG  
 CATTGGAAACTGCAGTGGGCTGGTTGTGGTGGATTTTCATACAGAAGACAGTGTCTTAAGCATGGGGG  
 CATTGACCTCTATAGATCAAGTGACCTGTACCAGCGACAGCCCCGGTCTCCTCGAAAGAACAGGCAGTTC  
 ATTGCAGGCTTAACAGAGCTGAATGATAGTCCAGTTCCTCTGAACTTGAGCGCTGCAAGTCCCCACCT  
 CAGACCATGTAATGGACTGCACAAGTCCAACCTCTCAGAGTTGCAGTTCTGGAAAACGCTTTTCCAG  
 TGCTGACGTTTCAAAGTAAATCGCTGGGGTCTGGAAGACCACCATTTAGAAAGGCACAGTCAAGTGT  
 TGCATGGAGATTTCTTACCAGTTACAAGTGAAGAAACCCGAGAGAATTCCTATAATCGCTCCAGGAGCT  
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 TCCCTAAATCTACCATCATCAGATGAACAAAGGTTTACAGAGCCGGTGGTGGTATTGCCAAGTGGTACAT  
 TCCTCTACTGAAAGGAGCAGTGCTAACATTTTCTGCATGGACAGAAGTGGCAGTTAATGCAGCCTCC  
 ATACGAAGTATGGAGAGATCCAAACAACACAGATGAAAATGAAAAAACCTGGAAAAGGAAATTTGGTCATG  
 AACTACTCGTCTTCATCCAAGAGATGGGAGACCATCAGTATACGATAATCTGCTCAGAAAAACAAGCCA  
 AAGTCTTCTCACTGCCTTCCCAGACCTGCCTTTATGTTCAACAATCACCCGAGACGTCGTTTCATATTGCA  
 AGCAGATGTGGTGGTCAATGTGCAACAGTGCCTGCCTGGCTGCTTTTGTGCAAAATGGGCATATCATGATA  
 ATGAGCTTACCTAGTCTTCGCCAATGTTGGATGTTAATTTATTTGCCACTGACAGACATGAGAATAGCAC  
 GGACATTTTGTTTACTAATGAAGGACAGGCATTATACCTCGTCTCTCCCACTGAAATTCACGGTTAAC  
 ATATAGCCAAGAAATGTGTGATAATATTCAGGACATGTTAGGCGATTTGTTTACTCCCAGAGACACCA  
 GAAGCCCAAATAGAGGCTTTCTCAAGGGACTATTTGGTGGAAAGTGGACAGACATTCGACAGAGAAGAAC  
 TCTTCGGGGAAGCCTCAGCAGGAAAAGCATCCCGAAGCCTCGCACAGCACATCCCTGGGCCAGGTAGTAT  
 AGAAGGGATGAAAGGTGCTGCTGGCGGGGTGATGGGAGAGCTGACCCGAGCCGGATTGCACTTGTAGAG  
 AGAGGGCAGCGTCTGGGCGAGCTGGAAGAGAAGACTGCGGGCATGATGACCAGCGCAGAAGCGTTTTCCA  
 AGCAGGCACATGAGCTAATGCTGAAGTATAAGGATAAAGAAGTGGTACCAGTTCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-MluI

**ACCN:**

NM\_001114612

**Insert Size:**

3486 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\\_001114612.1](#), [NP\\_001108084.1](#)

**RefSeq Size:** 11992 bp

**RefSeq ORF:** 3486 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]