

Product datasheet for **MC223866**

Stxbp5l (NM_172440) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Stxbp5l
Synonyms:	9430094L02; A830015P08Rik; LLGL4; T2dml; t2mdl; tomosyn-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223866 representing NM_172440 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGAAGTTTAATTTCCGAAAAGTTTTGGATGGCTTAAGTGCCTCTTCCCCTGGCAGTGGTAGCAGCA
GTGGCAGTAACAGTGGTGGGCTGGAAGTGGCTCTGTCCATCCAGGAGGGACTGCAGGGCTTCCGAGAGA
GGAAATTCAGGAAAGCCTGACTTCAGACTATTTCCAGATTTGCAAGACAGTTCGGCATGGGTTTCCTTAT
CAGCCACAGCATTGGCCTTTGATCCAGTCCAGAAAATCTTAGCTATTGGAACAAGAACAGGTGCTATAC
GAATACTTGGGAGGCCTGGTGTGACTGTTACTGCCAACATGAAAGTGGTGGGCTGTCTTGCAGCTCCA
ATTCTCATCAATGAGGCGCGTTGGTCAGTGCAGTTGAGATGACACGCTTCATTTGTGGAATCTGAGA
CAGAAAAGGCCGCCATTCTCCATTCTCTAAATTTAACAGAGAACGAATTACTTACTGTCTACCTT
TCCAGAGTAAATGGCTCTATGTTGGAACAGAAAGAGGAAATACACATATTGTAATATTGAATCTTTCAT
TCTTTCTGGATATGTCATCATGTGGAACAAGGCAATTGAACTCTCCACCAAGACTCATCCAGGCCAGTT
GTACATTTAAGTGATAGCCCAAGAGATGAAGGAAAAGTGTAAATAGGTTACGAGAATGGCACTGTGGTGT
TCTGGGACTTGAATCTAAAAGAGCAGAACTGAGAGTTTATTATGATGAGGCTATTCATTCAATTGATTG
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CCAAGCCGCCCTTTCCAAACCACAGTCCACATGGAAAAAGTCAAAGAGAAGGAAGAAAGTCTGAGTCTT
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GCTGTCATATGACAAAGCTTGCAAGACCAAGTTTAAACCATCATGCATGGGAAAGCAATTACAGTGCTT
GAGATGGATCATCTATTGTTGAGTTTCTAACGTTATGTGAAACGCCCTATCCAATGAATTTCAAGAAC
CCTATGCTGTTGCTGACTTCTAGAGAAAGATCTCATCGTAGTTGACCTGACACAAACCAATTTTCCAAT
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CCTCCAGATTTGATTCTAGTACTCTATTCTATAGGAGTCAAGCATAAAAACAAGGATACAGTAATAAGG
AATGGCCAGTCAGTGGAGGAGCTTGAACCTCGGAGCACAACCTTATCCAGAAATTATTACTGGTCA
TGCTGATGGAACAATAAAATTTGGGATGCTTCAGCAATGACACTGCAGATGTTGTACAAGCTAAAAACT
TCCAAAGTGTGTTGAAAAGCAGAAGGCAGGAGAAGGCAAACAGACGTGTGAACCTGTAGAGGAAGATCCCT



TTGCTGTGCAGATGATCTACTGGTGTCCAGAGAGCAGAATATTTTGTGTCTCTGGAGTCTCTGCATATGT
CATAATTTATAAATTCAGCAGACATGAAGTCACAACAGAAATAGTGTCTACTAGAGGTACGACTTCAGTGT
GATGTTGAAGACATTATTACTCCTGAGCCAGAAACAAGCCCTCCATTTCAGATCTCTCCTCTCAACTTC
CTCCTTCAAGGAGTCTTTCTGGAAGCACTAATACTGTGTCTAGTGAAGGAGTGACAAAGGACAGCATCCC
GTGCCTCAGTGTTAAAACACGGCCAGTACGAATGCCGCCGGGCTATCAAGCAGATCTTGTTATTCAGTTG
GTGTGGGTAGATGGTGAGCCTCCTCAGCAAATTACCAGCCTTTCTATAAGCTCAGCATATGGAATAGTGG
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CATTGACCTCTATAGATCAAGTGACCTGTACCAGCGACAGCCCGGTCTCTCGAAAGAACAGGCAGTTC
ATTGCAGACAACTTTTGCATGCGTGGGCTGTCTAACTTTTATCCTGATTTAACGAAACGGATCCGTAATT
CCTATCAGAGCTTAACAGAGCTGAATGATAGTCCAGTTCCTTGGAACTTGAGCGTGCAAGTCCCCAC
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AGTGCTGACGTTTCAAAAGTAAATCGCTGGGGTCTGGAAGACCACCATTTAGAAAGGCACAGTCAGTG
CTTGATGGAGATTTCTTACCAGTTACAAGTGAAGAAACCCGAGAGAATTCCTATAATCGTCCAGGAG
CTCTAGCATCTCCAGTATTGACAAAGATTCTAAGAAGCAATTACAGCTTTATACTTCATGGAATCCTTT
GCACGGAAAAATGACTCTACCGTTTCCCCTTGCTGTTTGTGGAACTAGTCTGGGAATGGTAGTACTCA
TCTCCCTAAATCTACCATCATCAGATGAACAAAGGTTTACAGAGCCGGTGGTGGTATTGCCAAGTGGTAC
ATTCCTCTCACTGAAAGGAGCAGTGCTAACATTTTCTGCATGGACAGAACTGGCAGTTTAAATGCAGCCT
CCATACGAAGTATGGAGAGATCCAACAACACAGATGAAATGAAAAACCTGGAAAAGGAAATTGGTCA
TGAAGTACTCGTCTTATCCCAAGAGATGGGAGACCATCAGTATACGATAATCTGCTCAGAAAAACAAGC
CAAAGTCTTCTCACTGCCTTCCAGACCTGCCTTTATGTTTCAACATCACCGAGACGTCGTTTCATATTG
CAAGCAGATGTGGTGGTATGTGCAACAGTGCCTGCCTGGCCTGCTTTTGTGCAATGGGCATATCATGA
TAATGAGCTTACCTAGTCTTCGCCCAATGTTGGATGTTAATTATTTGCCACTGACAGACATGAGAATAGC
ACGGACATTTTGTTTTACTAATGAAGGACAGGCATTATACCTCGTCTCTCCACTGAAATTCACGGTTA
ACATATAGCCAAGAAATGTGTGATAATATTCAGGACATGTTAGGCGATTTGTTTACTCCATAGAGACAC
CAGAAGCCCAAAATAGAGGCTTTCTCAAGGGAATTTTGGTGGAAAGTGGACAGACATTCGACAGAGAAGA
ACTCTTCGGGAAGCCTCAGCAGGAAAAGCATCCCGAAGCCTCGCACAGCACATCCCTGGGCCAGGTAGT
ATAGAAGGGATGAAAGTGTCTGCTGGCGGGTGTGGGAGAGCTGACCCGAGCCCGGATTGCACTTGATG
AGAGAGGGCAGCGTCTGGCGGAGCTGGAAGAGAAGACTGCGGGCATGATGACCAGCGCAGAAGCGTTTTC
CAAGCAGCGACATGAGCTAATGCTGAAGTATAAGGATAAGAAGTGGTACCAGTCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_172440

Insert Size:

3558 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_172440.3</u> , <u>NP_766028.2</u>
RefSeq Size:	12064 bp
RefSeq ORF:	3558 bp
Locus ID:	207227
UniProt ID:	<u>Q5DQR4</u>
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]