

Product datasheet for **MC223621**

Stxbp5 (NM_001081344) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stxbp5 (NM_001081344) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Stxbp5
Synonyms:	0710001E20Rik; 4930565N16Rik; AW742610; LGL3; mKIAA1006
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223621 representing NM_001081344 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGAAATTCAACATCAGGAAGGTGCTGGACGGCCTGACCGCAGGCTCGTCCTCGGCCTCGCAACAGC
AGCAACAGCAGCAGCACCCGCCTGGGAACGGGAGCCGGAGATCCAGGAGACGCTCCAGTCCGAACACTT
CCAACCTGCAAGACTGTTGCCATGGATTCCCCTATCAGCCCTCAGCCCTGGCCTTTGATCCCCTTCAG
AAGATCCTGGCGGTAGGAACTCAGACTGGTCTTTAAGGCTCTTGGTCGTCAGGAGTGAATGTTATT
GCCAGCAGCAGCAGCGGAGCAGCAGTGATCCAACCCAGTTCCTGATTAATGAGGGAGCCCTGTGAGTGC
CTTGGCTGATGACACCCTACACTTATGGAATTTACGTCAAAAAAGGCCTGCCGTACTACATTCACCTAAA
TTTTGCAGAGAAAAGGTTACATTTTGCCATCTGCCTTTCCAGAGTAAGTGCTCTATGTGGGCACTGAGC
GAGGAAACATACACATTGTTAATGTGGAGTCTTCACACTCTCAGGCTATGTCATTATGTGGAATAAAGC
CATCGAAGTGTACCTAAAGCTCACCCAGGACCAGTTGTGCATATAAGTGACAATCCCATGGACGAGGGG
AAGCTTTTGATTGGCTTCGAATCTGGAACAGTAGTCTTATGGGACCTCAAGTCAAAGAAGGCTGACTACA
GATACACATACGACGAGGCTATTCACCTGTGGCTTGGCATCATGAAGGAAAACAATTTATTTGCAGTCA
TTCTGACGGTACTTTGACCATATGGAATGTGAGATCCCCTGTAAACCTGTACAGACCATCACTCCTCAC
GGAAAACAGTTGAAGGATGGGAAGAAGCCAGAGCCATGCAAGCCTATCCTGAAGGTGGAGTTGAAGACAA
CAAGATCCGGGGAACCTTTTATTATTTTGTGAGGAGGCTTATCCTATGATACCGTGGGAAGAAGACCCTG
CTTAACAGTGATGCACGGGAAAAGCACAGCAGTCTGGAATGGACTATTCAATCGTTGACTTTTCACA
CTCTGTGAAACGCCATATCCAAACGATTTTCAGGAACCATATGCTGTGGTTGTTCTCCTGGAAAAGGACT
TAGTGCTGATAGACCTTGCACAAAATGGATACCCTATATTTGAGAATCCCTACCCTTTGAGTATACCGA
GTCCCCTGTTACATGTTGTGAATATTTGCTGATTGCTCCTGTGGATCTTATTCCTGCACTTTACTCTGTT
GGAGCTAGACAGAAGCGTCAAGGTTACAGCAAAAAGGAATGGCCCATCAATGGTGGTAATTGGGGCTTGG
GTGCTCAAAGTTACCCAGAAATAATTATACAGGGCATGCTGATGGCTCGGTGAAATTCGGGACGCTTC
TGCAATAACTCTACAAGTACTATATAAATTA AAAACATCTAAAGTATTTGAGAAGTCAAGAAACAAAGAT



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GACAGACAGAACACAGACATTGTAGATGAAGATCCATATGCCATTCAGATCATCTCCTGGTGCCAGAGA
 GCAGGATGCTGTGCATAGCTGGAGTGTACAGCCATGTCATCATCTATAGATTACAGCAAGCAGGAAGTGCT
 TACCGAAGTCAATCCCGATGCTTGAAGTTCGACTGTTATATGAAATAAATGATGTGGATACTCCAGAGGGT
 GAGCAGCCCCCGCTCTGTCCACCCCGTGGGCAGCTCCAACCTCAGCCATTCTCTCAGTCTCATC
 CGTCTACCAGCAGCAGCTCATCTGACGGCTTCGTGATAACGTTCTTAAAGTAAAAAATCCCC
 ACTTAAGCAGTCTCCAGGCTATCAGACAGAGCTGGTCATTTCAGTTGGTGGGTGGGAGACCCCGC
 CAGCAGATCACCAGCCTGGCACTCAACTTTCCTATGGACTGGTGGTTTTTCGGCACTGTAAACGGCATCG
 CAATGGTTGACTACCTCCAGAAAGCAGTACTGCTCAACCTCAGCACCATCGAACTTACGGCTCAAATGA
 TCCTTATCGGAGAGAACCCTCGCTCGCCCGAAAAATCCCGACAGCCTTCAGGAGCGGGCTGTGTGATATC
 ACCGAAGGGACTGTCGTCCCGGAGGATCGCTGCAAAATCTCCCACTCCGCAAAGATGTCAAGGAAATTA
 GCTTGCCAACTGACCTAAAGCCTGATTTAGATGTAAAAGACAATTCCTTCAGCAGATCGCGGAGTTCAAG
 TGTAACCAGCATTGACAAAGAGTCCCGGAAACCATCTCTGCTTTCATTTCTGTGAGACTTTGACGCGG
 AAGGCCGACTCTCCCCCTCCCCCTGCCTGTGGTCCGAACTACAGTGGGAACTGCGTTTGTATCAGCG
 TGAATCTCCCCCGGGCTGAGCAGAGACTCCTTCAGCCAGTGATTGTGTCTCCAAGCGGTACTATATT
 GAGGTTAAAAGGTGCAATCTTGAGGATGGCATTCTGGATGCCACGGGCTGCTTAATGTCTCTGCATAC
 GAACCCTGGAAAGAACACAACGTTGCTGAAGAAAAGACGAAAAGGAGAAATTGAAAAGCGGCGACCTG
 TCTCAGTGTCCCCCTCTCTCTCAGGAAATTAGTGAGAACAGTACGCACTGATATGCTCTGAAAAGCA
 AGCAAAGGTGATGTCCTGCAACCCAGAGCTGTGCATACAAGCAGAACATCACCAGAGCTCCTTCGTG
 CTCCGCGGAGACATTGTCGCACTGAGTAACAGTGTCTGCCTCGCTGCTTCTGTGCCAATGGCCATATCA
 TGACTTTCAGTTTGCCAAGCTTGAGGCCTCTCTGGATGTCTACTACCTGCCCTTACCAACATGCGGAT
 AGCCAGGACATTTGCTTCGCCAACACGAGCAAGCCTTATACCTTGTTCACCTACAGAAATCCAGAGA
 CTCACCTACAGTACAGGAGACATGTGAAAATCTTCAGGAGATGCTCGGTGAACTTTCAGCCTGTAGAGA
 CACCAGAAGCACCACAGAGGCTTCTTCAAAGGCTTATTTGGAGCGGTGCACAATCTCTCGATAGAGA
 AGAACTATTTGGAGAGTGTCTCCTCGGAAAGGCCTCCAGGAGCCTCGCACAAACACATCCCGGGCCCTG
 GGGATCGAAGGTGTGAAAGGAGCCGCTCAGGAGTGGTGGTGAAGTTCGCCGAGCCAGGCTGGCCCTCG
 ACGAAAGAGGACAGAAGCTCAGTGACTTGGAAAGGACGGCAGCCATGATGTCCAGCGCAGACTCCTT
 CTCCAAACATGCTCATGAGATGATGCTGAAATACAAAGATAAGAAGTGGTACCAGTTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2335_e08.zip

Restriction Sites: Sgfl-Mlul

ACCN: NM_001081344

Insert Size: 3351 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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:	<ol style="list-style-type: none">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:	<u>NM_001081344.2, NP_001074813.2</u>
RefSeq Size:	9074 bp
RefSeq ORF:	3351 bp
Locus ID:	78808
Cytogenetics:	10 A1
Gene Summary:	Plays a regulatory role in calcium-dependent exocytosis and neurotransmitter release (By similarity). Inhibits membrane fusion between transport vesicles and the plasma membrane. May modulate the assembly of trans-SNARE complexes between transport vesicles and the plasma membrane. Competes with STXBP1 for STX1 binding. Inhibits translocation of GLUT4 from intracellular vesicles to the plasma membrane.[UniProtKB/Swiss-Prot Function]