

## Product datasheet for MR215651

### Stxbp5 (NM\_001081344) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Stxbp5 (NM\_001081344) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Stxbp5  
**Synonyms:** 0710001E20Rik; 4930565N16Rik; AW742610; LGL3; mKIAA1006  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR215651 representing NM\_001081344  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGGAAATTCAACATCAGGAAGGTGCTGGACGGCCTGACCGCAGGCTCGTCCTCGGCCTCGCAACAGC  
AGCAACAGCAGCAGCACCCGCTGGGAACGGGAGCCGGAGATCCAGGAGACGCTCCAGTCCGAACACTT  
CCAACCTGCAAGACTGTTGCCATGGATTCCCCTATCAGCCCTCAGCCCTGGCCTTTGATCCCCTTCAG  
AAGATCCTGGCGGTAGGAACTCAGACTGGTCTTAAGGCTCTTGGTCGTCAGGAGTGAATGTTATT  
GCCAGCAGCAGCAGCGGAGCAGCAGTGATCCAACCCAGTTCCTGATTAATGAGGGAGCCCTGTGAGTGC  
CTTGGCTGATGACACCCTACACTTATGGAATTTACGTCAAAAAAGGCCTGCCGTACTACATTCACTTAAA  
TTTTGCAGAGAAAAGGTTACATTTTGCCATCTGCCTTTCCAGAGTAAGTGCTCTATGTGGGCACTGAGC  
GAGGAAACATACACATTGTTAATGTGGAGTCTTCACACTCTCAGGCTATGTCATTATGTGGAATAAAGC  
CATCGAAGTGTCTAAAGCTCACCCAGGACAGTGTGTCATATAAGTGACAATCCCATGGACGAGGGG  
AAGCTTTTGATTGGCTTCGAATCTGGAACAGTAGTCTTATGGGACCTCAAGTCAAAGAAGGCTGACTACA  
GATACACATACGACGAGGCTATTCACCTGTGGCTTGGCATCATGAAGGAAAACAATTTATTTGCAGTCA  
TTCTGACGGTACTTTGACCATATGGAATGTGAGATCCCCTGCTAAACCTGTACAGACCATCACTCCTCAC  
GGAAAACAGTTGAAGGATGGGAAGAAGCCAGAGCCATGCAAGCCATCCTGAAGGTGGATTGAAGACAA  
CAAGATCCGGGGAACCTTTTATTATTTTGTGAGGAGCTTATCCTATGATACCGTGGGAAGAAGACCCTG  
CTTAACAGTGATGCACGGGAAAAGCACAGCAGTCTGGAATGGACTATTCAATCGTTGACTTTTCTCACA  
CTCTGTGAAACGCCATATCCAAACGATTTTCAGGAACCATATGCTGTGGTTGTTCTCCTGGAAAAGGACT  
TAGTGCTGATAGACCTTGCACAAAATGGATACCCTATATTTGAGAATCCCTACCCTTTGAGTATACACGA  
GTCCCCTGTTACATGTTGTGAATATTTGCTGATTGCTCCTGTGGATCTTATTCCTGCACTTTACTCTGTT  
GGAGCTAGACAGAAGCGTCAAGGTTACAGCAAAAAGGAATGGCCCATCAATGGTGGTAATGGGGCTTGG  
GTGCTCAAAGTTACCCAGAAATAATTATACAGGGCATGCTGATGGCTCGGTGAAATTCGGGACGCTTC  
TGCAATAACTCTACAAGTACTATATAAATTAATAACATCTAAAGTATTTGAGAAGTCAAGAAACAAAGAT



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GACAGACAGAACACAGACATTGTAGATGAAGATCCATATGCCATTCAGATCATCTCCTGGTGCCAGAGA  
 GCAGGATGCTGTGCATAGCTGGAGTGTACGCCATGTCATCATCTATAGATTACAGCAAGCAGGAAGTGT  
 TACCGAAGTCAATCCCGATGCTTGAAGTTCGACTGTTATATGAAATAAATGATGTGGATACTCCAGAGGGT  
 GAGCAGCCCCCGCTCTGTCCACCCCGTGGGCAGCTCCAACCCTCAGCCATTCCTCCTCAGTCTCATC  
 CGTCTACCAGCAGCAGCTCATCTGACGGGCTTCGTGATAACGTTCCCTTGCCTAAAAGTAAAAAATCCCC  
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 AAGGCCGACTCTCCCCCTCCCCCTGCCTGTGGTGGAACTACAGTGGAACTGCGTTTGTATCAGCG  
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 AGCAAAGGTGATGTCCTGCAACCCAGAGCTGTGCATACAAGCAGAACATCACCAGAGCTCCTTCGTG  
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 CACCAGAAGCACAACAGAGGCTTCTTCAAAGGCTTATTTGGAGCGGTGCACAATCTTCGATGAGAGA  
 AGAACTATTTGGAGAGTGTCTCGGGAAGGCTCCAGGAGCCTCGCACAAACACATCCCCGGCCCTGTT  
 GGGATCGAAGGTGTGAAAGGAGCCGCTCAGGAGTGGTGGTGAAGTTCGCCGAGCCAGGCTGGCCCTCG  
 ACGAAAAGAGGACAGAAGCTCAGTGACTTGAAGAAAGGACGGCAGCCATGATGTCCAGCGCAGACTCCT  
 CTCCAAACATGCTCATGAGATGATGCTGAAATACAAAGATAAGAAGTGGTACCAGTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR215651 representing NM\_001081344  
 Red=Cloning site Green=Tags(s)

MRKFNIRKVL DGLTAGSSASQQQQQQHPPGNREPEIQETLQSEHFQLCKTVRHGFYQPSALAFDPVQ  
 KILAVGTQTALRLFGRPGVECYQHDSGAAVIQLQFLINEGALVSALADDTLHLWNLRQKRPVAVLHSLK  
 FCRERVTFCHLPFQSKWLYVGTERRGNIHIVNVSFTLSGYVIMWNKAIELSSKAHPGPVVHISDNPMDG  
 KLLIGFESGTVVLDLKSCKADYRYTYDEAIHSVAWHHEGKQFICSHSDGTLTIWNVRSAPKPVQITPH  
 GKQLKDGKPEPCKPILKVELKTTRSSEPFIIILSGGLSYDVGRRPCLTMVHGKSTAVLEMDYSIVDFLT  
 LCETPYPNDFQEPYAVVVLEKDLVLDLAQNGYPIFENPYPLSIHESPVTCCEYFADCPVDLIPALYSV  
 GARQKRQGYSKKEWPIINGNWLGAQSYPEIITGHADGSVKFWDASAITLQVLYKLTSKVFEKSRNKD  
 DRQNTDIVDEDPYAIQIISWCPESRMLCIAGVSAHVIIYRFKQEVLEVIPMLEVRLLYEINDVDTPG  
 EQPPPLSTPVGSSNPQIPPPQSHPTSSSSDGLRDNVPLKVKNSPLKQSPGYQTELVQLVWVGGEPP  
 QQITSLALNSSYGLVVFNGNFIAMVDYLQKAVLLNLSTIELYGSNDPYRREPRSPRKSROPSGAGLCDI  
 TEGTVVPEDRCKSPTSAKMSRKLSPDLKPDLDVKNDFSRSRSSSVTSIDKESRETISALHFCETLTR  
 KADSSPSPCLWVGTTFVITLNLPPGPEQRLLQPVIVSPSGTILRLKGAILRMAFLDGTCLMSPAY  
 EPWKEHNVAEEKDEKELKRRPVSVPSSSQEISENQYAVICSEKQAKVMSLPTQSCAYKQINITSFV  
 LRGDIVALSNSVCLACFCANGHIMTFSLPSLRPLLDVYVPLPLTNMRIARTFCFANNGQALYLVSPTEIQ  
 RLTYSQETCENLQEMLGELFTPVETPEAPNRGFFKGLFGGGAQSLDREELFGESSGKASRSLAQHIPGPG  
 GIEGVKGAASGVVGLARARLALDERGQKLSLEERTAAAMSSADSFSKHAHEMMLKYKDKKWWYQF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV



**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\\_001081344.2](#), [NP\\_001074813.2](#)

**RefSeq Size:** 9074 bp

**RefSeq ORF:** 3351 bp

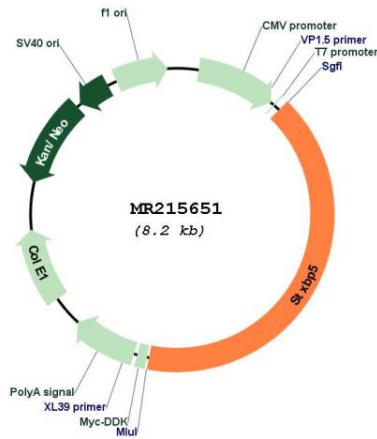
**Locus ID:** 78808

**Cytogenetics:** 10 A1

**MW:** 123.6 kDa

**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]

**Product images:**



Circular map for MR215651