

Product datasheet for **MG217302**

Stxbp4 (NM_011505) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stxbp4 (NM_011505) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Stxbp4
Synonyms:	6030470M02Rik; Synip
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG217302 representing NM_011505
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGTGATGGTACAGCTTCTGCCCGATCATCCAGCCACTTGACAGGGATCCTGCCTTTGGGTGATTA
 CAGTTACTAAGGAAACAGGTCTAGGTCTGAAGATCCTAGGCGGAATTAACAGGAATGAAGGACCGCTGGT
 GTATATTCACGAAGTCATTCTCGAGGTGACTGTTACAAGGATGGACGTTTGAAGCCAGGAGATCAACTT
 GTCTCAATAAACAAGGAATCTATGATTGGTGTATCATTGAAGAAGCAAAAAGCATAATTACCAGAGCCA
 AGTTGAGGTCAGAATCTCCCTGGGAGATAGCATTATCAGACAAAAGTCTTACTGTGGCCATCCAGGAAA
 TATTTGCTGTCCATCCCCACAAGTGTGAGAAGACTGTGGACCTCAAACCTCAACATTTACTCTTCTTTCC
 TCTCCCTCTGAACACTACTTCAAAGACTTCATCCACTCCCAGACTCAGGACTCCACTTTCCTTCTT
 GTAAGCAATTCAGACAAAACCTGAACACGATAAAACAGAACATAGTCCAATTACTTCTTTGGACAACAG
 CCCTGCAGATACATCTAATGCAGACATTGCTCCAGCCTGGACTGATGATGATTCTGGACCACAAGGAAAG
 ATTTCCCTAAATCCTTCTGTTCCGCTTAAGGCAGAGAAACTGAAATGGCTCTCAATTACCTCGGTATAC
 AGCCAACAAGGAACAACGTGAAGCCCTGAGAGAGCAAGTCCAGGCCGACTCAAAGGGGACTGTGTCTTT
 TGGAGATTTGCTCCAGGTTGCCAGAAGTTGTTTTGCTTGCAAGTGGATGAAGTAAATGTTGGTGTCCAT
 GAAATCCCAGCATCTTAGACTCACAGCTTCTCCCTGTGATTCTCTAGAAGCAGATGAAGTGGGAAAAC
 TTAGACAAGAAAGAAACGCTGCTCTAGAGGAACGGAATGTGCTTAAGGAGAAGTTACTGGAATCAGAAAA
 GCACAGGAAACAATTGATAGAAGAACTCCAGAATGTGAAGCAGGAAGCCAAAGCTGTAGCTGAGGAAACC
 CGAGCTGCGAAGCCGATTTCATCTCGCAGAAGCTGCACAGCGCAGGCACACGGGATGGAATGGATT
 ATGAAGAGGTGATCCGTCTGCTAGAGGCTGAGGCTCAGAACTAAAGGCTCAGCTCGCTGATTATTCTGA
 CAAAATAAAGAAAGTGTCCAGGACTTGAGAAAAAGAGTCAACCGTTCTTGACTGCCAATTGCGAAAATCA
 GAAATGGCTCGGAAAGCATTCAAGGCGTCCACTGAAAGGCTCCTTGGTTTCATAGAGGCTATTCAAGAAG
 TTCTTTGGATAGTTCTGCTCCTTTATCAACTTTAAGTAAAAGAAGAGCTGTGCTCGCATCTCAGACTTC
 GCTTCCACTGCTGGCAAGGAACGGACGCAGCTTCCCAGCAACCCTGCTTCTGGAATCCAAGGAGCTTGTC
 AGATCTGTCCGTGCCATACTTGATATGGACTGCTTACCTACGGGTGGGAGGAAGCTTACACAGCAGATG
 GAATCAAGTACTTCATCAACCACGTGACACAGACCACGCTCTGGATCCACCCCGTATGAGCGCCCTGAA
 CCTGCTCTGTGCAGAGGAGAGTGAAGAGGACTGTCCAGAGAGCTAACAGACCCGAAAAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG217302 representing NM_011505
 Red=Cloning site Green=Tags(s)

MSDGTASARSSSPLDRDPAFRVITVTKETGLGLKILGGINRNEGPLVYIHEVIPGGDCYKDGRLKPGDQL
 VSINKESMIGVSFEEAKSIITRAKLRSESPWEIAFIRQKSYCGHPGNICCPSPQVSEDCGPQTSTFTLLS
 SPSETLLPKTSSTPQTQDSTFPSCAKIQTKEPHDKTEHSPITSLDNPADTNSADIAPAWTDDDSGPQGGK
 ISLNPSVRLKAEKLEMALNYLGIQPTKEQREALREQVQADSKGTVSFGDFVQVARSLFCLQLDEVNVGVH
 EIPSIILDSQLLPDSLEADEVGKLRQERNAALEERNVLEKLLSEKHKRQLIEELQNVKQEAKAVAEEET
 RALRSRIHLAAEAQRQAHGMMEMDYEEVIRLLEAEVSELKAQLADYSDQNKESVQDLRKRVTVLDLQRLKS
 EMARKAFKASTERLLGFIEAIQEVLLDSSAPLSTLSERRAVLASQTSPLLLARNGRSFPATLLLESKELV
 RSVRAILDMDCLPYGWEEAYTADGIKYFINHVTQTTSWIHPVMSALNLSCAEESSEEDCPRELTDPKS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_011505
ORF Size:	1671 bp
OTI Disclaimer:	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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_011505.2 , NP_035635.1
RefSeq Size:	6035 bp
RefSeq ORF:	1674 bp
Locus ID:	20913
UniProt ID:	Q9WV89
Cytogenetics:	11 D
Gene Summary:	Plays a role in the translocation of transport vesicles from the cytoplasm to the plasma membrane. Inhibits the translocation of SLC2A4 from intracellular vesicles to the plasma membrane by STX4A binding and preventing the interaction between STX4A and VAMP2. Stimulation with insulin disrupts the interaction with STX4A, leading to increased levels of SLC2A4 at the plasma membrane. May also play a role in the regulation of insulin release by pancreatic beta cells after stimulation by glucose.[UniProtKB/Swiss-Prot Function]