

Product datasheet for **MG209242**

Stxbp2 (NM_011503) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stxbp2 (NM_011503) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Stxbp2
Synonyms:	C79054; Munc-18-2; Munc-18b; Munc18b; muSec1; Sxtbp2; Sxtp2; Unc18-2; Unc18b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209242 representing NM_011503
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCCCTTGGGGCTGAAGGCGGTGGTAGGGGAAAAATTTAAGCGCGTCATCCGGAGCGTTAAGA
 AGGATGGCGAGTGAAGGTCCTCATCATGGATCACCCGAGCATGCGAATCTTGTCATCCTGTGTTAAAAT
 GTCAGATATCCTGGCGGAGGCATCACCATCGTGAAGACATCAACAAACGGAGAGAACCCATCCAGC
 TTGGAGGCAATTTATTTGCTGAGTCCCACGGAGAAGTCGGTTCAGGCCCTGATTGCGGACTTCCAGGGAA
 CACCAACCTTCACCTACAAAGCAGCCATATCTTCTCACTGACACATGCCCTGAGCCCTGTTCAGTGA
 ACTGGGCCGCTCTCGCTGGCGAAGGCGGTGAAGACATTGAAAGAGATCCACCTTGCTTCTCCCTAT
 GAGGCCAGGTGTTCTCTGATGCCACATAGCACCTAACCTTTACTGTCCATCCGAGCAGGGG
 AGCGGGGGCGGCAGCTCGATGCACTGGCCAGCAGATAGCCACACTGTGTCCACTTTCAGGAATACCC
 ATCCATCCGATACCGCAAGGGTCCAGAAGACACAGCCAGCTGGCCCATGCTGTCTGGCCAAGCTGAAC
 GCCTTCAAGGCAGACACTCCAGTCTGGGCGAGGGCCAGAGAAAACACGCTCACAGCTACTCATAATGG
 ACCGGGACGACAGCCCGTGTCCCACTATTACACGAACTCACGTTCCAAGCCATGGCCTATGATCTTCT
 GGACATCGAACAGGACACATACAGGTATGAGACCACAGGGCTGAGTGAGTCCCGGAGAAGGCTGTCCCTC
 CTGGATGAAGATGATGACCTGTGGGTGGAACCTTCGGCACATGCACATAGCAGATGTTTCCAAGAAGTCA
 CAGAACTCTGAAGACATTTCTGTGAGAGTAAGAGGCTGACCACAGACAAGGCCAACATCAAAGACCTGTC
 CCACATCTGAAAAGATGCCACAGTATCAGAAGGAGCTGAACAAGTACTCTACGCACCTGCATTTGGCA
 GATGACTGCATGAAGCATTTCAAGGGCTCGGTGGAGAAGCTGTGCAGTGTGGAGCAGGACCTGGCCATGG
 GCTCTGATGCAGAGGGTGAAGAATCAAGGACGCCATGAAGCTGATTGTCCCGGTGCTGTGGATGCCTC
 GGTGCCACCTACGACAAGATCCGGTCTGTTGCTCTACATCCTTCTGCGGAATGGGGTGAAGTGAAGGAG
 AACCTGGCCAAGCTGATCCAGCATGCCAACGTGCAGTCTGACAGCAGCTCATCCGGAATCTGGAGCAGC
 TGGGCGGCACTGTACCAACTCCGCGGGCTCAGGGACCTTAGCCGGCTGGAGCGGAGAGAGCGCATGGA
 GCCACCTACCAGCTGTCTCGTGGTCCCAGTCATCAAGGATGTGATGGAGGATGTGGTGGAGGACCGG
 CTAGACCGAAAGCTGTGGCCCTTTGTGTCTGACCCTGCCCTGTGCTAGCTCCCAGGCAGCTGTACGG
 CTCGCTTTGGCCACTGGCACAAAAACAAAGCTGGAGTAGAGGCCCGGGCTGGGCTAGGCTCATCGTGA
 CATTGTGGGTGGTGTCCCATGTGCGAAATGAGGGCTGCCTATGAGGTGACCAGGGCCACTGAGGGCAAG
 TGGGAGGTGCTCATAGGCTCTTCTCACATCCTTACTCCAACCCGCTTCTCGATGACCTCAAGACTG
 ATCAGAAGCTGGAGGGTGTGGCCCTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209242 representing NM_011503
 Red=Cloning site Green=Tags(s)

MAPLGLKAVVGEKILSGVIRSVKKGGEWKVIMDHPSMRILSSCKMSDILAEGITIVEDINKRREPIPS
 LEAIYLLSPTEKSVQALIADFQGTPTFTYKAAHIFFTDTCPEPLFSELGRSRLAKAVKTLKEIHLAFLPY
 EAQVFLSDAPHSTYNLYCPFRAGERGRQLDALAQQIATLCATLQEYPSIRYRKGPEDTAQLAHAVLAKLN
 AFKADTPSLGEGPEKTRSQLIMDRAADPVSPLLHELTFQAMAYDLLDIEQDTRYETTGLSEGREKAVL
 LDEDDDLWVELRHMHIADVSKKVELLKTFCESKRLTTDKANIKDLSHILKKMPQYQKELNKYSTHLHLA
 DDCMKHFKGSVEKLCVSEQDLAMGSDAEGEKIKDAMKLI VPVLLDASVPPYDKIRVLLLYILLRNGVSEE
 NLAKLIQHNVQSYSSLIRNLEQLGGTNTSAGSGTSSRLERRERMEPTYQLSRWSPVIKDVMEVDVDR
 LDRKLWPFVSDPAPVPSSQAAVSARFGHWHKNGVVEARAGPRLIVYIVGGVAMSEMRAAYEVTRATEGK
 WEVLIGSSHILTPTRFLDDLKTLDDQKLEGVALP

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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_011503.5
RefSeq Size:	2704 bp
RefSeq ORF:	1782 bp
Locus ID:	20911
UniProt ID:	Q64324
Cytogenetics:	8 1.92 cM
Gene Summary:	Involved in intracellular vesicle trafficking and vesicle fusion with membranes. Contributes to the granule exocytosis machinery through interaction with soluble N-ethylmaleimide-sensitive factor attachment protein receptor (SNARE) proteins that regulate membrane fusion. Regulates cytotoxic granule exocytosis in natural killer (NK) cells (By similarity). [UniProtKB/Swiss-Prot Function]