

Product datasheet for **MR209242**

Stxbp2 (NM_011503) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stxbp2 (NM_011503) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Stxbp2
Synonyms:	C79054; Munc-18-2; Munc-18b; Munc18b; muSec1; Sxtbp2; Sxtp2; Unc18-2; Unc18b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209242 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCCCTTGGGGCTGAAGGCGGTGGTAGGGGAAAAATTTAAGCGCGTCATCCGGAGCGTTAAGA
 AGGATGGCGAGTGAAGGTCCTCATCATGGATCACCCGAGCATGCGAATCTTGTCATCCTGTGTAAAAT
 GTCAGATATCCTGGCGGAGGCATCACCATCGTGAAGACATCAACAAACGGAGAGAACCCATTCCCAGC
 TTGGAGGCAATTTATTTGCTGAGTCCCACGGAGAAGTCGGTTCAGGCCCTGATTGCGGACTTCCAGGGAA
 CACCAACCTTCACCTACAAAGCAGCCATATCTTCTCACTGACACATGCCCTGAGCCCTGTTCAGTGA
 ACTGGGCCGCTCTCGCTGGCGAAGGCGGTGAAGACATTGAAAGAGATCCACCTTGCCTTCTCCCTAT
 GAGGCCAGGTGTTCTCTGATGCCACATAGCACCTAACCTTTACTGTCCATTCGAGCAGGGG
 AGCGGGGGCGGCAGCTCGATGCACTGGCCAGCAGATAGCCACACTGTGTCCACTTTCAGGAATACCC
 ATCCATCCGATACCGCAAGGGTCCAGAAGACACAGCCAGCTGGCCCATGCTGTCTGGCCAAGCTGAAC
 GCCTTCAAGGCAGACACTCCAGTCTGGGCGAGGGCCAGAGAAAACACGCTCACAGCTACTCATAATGG
 ACCGGGACGACAGCCCGTGTCCCACTATTACACGAACTCACGTTCCAAGCCATGGCCTATGATCTTCT
 GGACATCGAACAGGACACATACAGGTATGAGACCACAGGGCTGAGTGAGTCCCGGAGAAGGCTGTCTCT
 CTGGATGAAGATGATGACCTGTGGGTGGAACCTTCGGCACATGCACATAGCAGATGTTTCCAAGAAGTCA
 CAGAACTCTGAAGACATTTCTGTGAGAGTAAGAGGCTGACCACAGACAAGGCCAACATCAAAGACCTGTC
 CCACATCTGAAAAGATGCCACAGTATCAGAAGGAGCTGAACAAGTACTCTACGCACCTGCATTTGGCA
 GATGACTGCATGAAGCATTTCAAGGCTCGGTGGAGAAGCTGTGCAGTGTGGAGCAGGACCTGGCCATGG
 GCTCTGATGCAGAGGGTGAAGAATCAAGGACCCATGAAGCTGATTGTCCCGGTCTGTGGATGCCTC
 GGTGCCACCCTACGACAAGATCCGGTTCGTTGCTCTACATCCTTCTGCGGAATGGGGTGAAGGAGGAG
 AACCTGGCCAAGCTGATCCAGCATGCCAACGTGCAGTCGTACAGCAGCCTCATCCGGAATCTGGAGCAGC
 TGGGCGGCACTGTACCAACTCCGCGGGCTCAGGGACCTTAGCCGGCTGGAGCGGAGAGAGCGCATGGA
 GCCCACTACCAGCTGTCTCGTGGTCCCAGTCATCAAGGATGTGATGGAGGATGTGGTGGAGGACCGG
 CTAGACCGAAAGCTGTGGCCCTTTGTGTCTGACCCTGCCCTGTGCTAGCTCCCAGGCAGCTGTCAGCG
 CTCGCTTTGGCCACTGGCACAAAAACAAAGCTGGAGTAGAGGCCCGGGCTGGGCTAGGCTCATCGTGTA
 CATTGTGGGTGGTGTCCCATGTGCGAAATGAGGGCTGCCTATGAGGTGACCAGGGCCACTGAGGGCAAG
 TGGGAGGTGCTCATAGGCTCTTCTCACATCCTTACTCCAACCCGCTTCTCGATGACCTCAAGACACTGG
 ATCAGAAGCTGGAGGGTGTGGCCCTGCC

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209242 protein sequence
 Red=Cloning site Green=Tags(s)

MAPLGLKAVVGEKILSGVIRSVKKGGEWKVLIMDHPSMRILSSCKMSDILAEGITIVEDINKRREPIPS
 LEAIYLLSPTEKSVQAL IADFQGTPTFTYKAAHIFFTDTCPEPLFSELGRSRLAKAVKTLKEIHLAFLPY
 EAQVFSLDAPHSTYNLYCPFRAGERGRQLDALAQIATLCATLQEYPSIRYRKGPEDTAQLAHAVLAKLN
 AFKADTPSLGEGPEKTRSQLLIMDRAADPVSPLLHELTFQAMAYDLLDIEQDTRYRYETTGLSESREKAVL
 LDEDDLWVELRHMHIADVSKKVELLKTFCESKRLTTDKANIKDLSHILKKMPQYQKELNKYSTHLHLA
 DDCMKHFKGSVEKLCVSEQDLAMGSDAEGEKIKDAMKLI PVVLLDASVPPYDKIRVLLL YILLRNGVSEE
 NLAKLIQHANVQSYSSLIRNLEQLGGVTNSAGSGTSSRLERRERMEPTYQLSRWSPVIKDV MEDVVEDR
 LDRKLPWFVSDPAPVPSSQAAVSARFGHWHKNKAGVEARAGPRLIVYIVGGVAMSEMRAAYEVTRATEGK
 WEVLIGSSHILTPTRFLDDLKTL DQKLEGVALP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_011503

ORF Size: 1782 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:**
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: 2703 bp

RefSeq ORF: 1782 bp

Locus ID: 20911

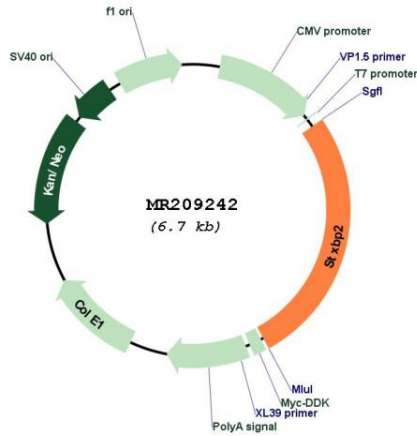
UniProt ID: [Q64324](#)

Cytogenetics: 8 1.92 cM

MW: 66.4 kDa

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]

Product images:



Circular map for MR209242