

Product datasheet for **RR208993**

Stxbp2 (NM_031126) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stxbp2 (NM_031126) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Stxbp2
Synonyms:	Munc18b
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR208993 representing NM_031126
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCCCTTGGGGCTGAAGGCGGTGGTGGAAAAAATTCTAAGTGGAGTCATCCGGAGCGTTAAGA
 AGGATGGCGAGTGAAGGTACTCATCATGGATCATCCGAGCATGCGAATCTTGTCATCCTGTGTA
 GTCAGATATCTTGGCGGAGGCATCACCATTGTGGAAGACATCAACAAACGGAGAGAACCATTCCAGC
 TTGGAGGCAATTTATTTGCTGAGTCCCACAGAGAAGTCGGTTCAGGCTCTGATTGCGGACTTCCAGGGGA
 CACCAACCTTCACCTACAAAGCAGCCATATCTTCTCACGGACACGTGCCCGAGCCCTTGTTCAGTGA
 ACTGGGCCGCTCTCGCTGGCGAAGGTGGTGAAGACACTGAAAGAGATCCACCTCGCCTTCTCCCTAT
 GAGGCCAGGTGTTCTCTCTGGATGCCCGCACAGCACCTAACCTTTATTGCCATTTTCGGGCAGGGG
 AGCGGGGGCGGCAGCTCGATGTGCTGGCCAGCAGATAGCCACACTGTGTCCACTTTCAGGAATACCC
 ATCCATTCGCTACCGCAAGGGCCAGAAGACACAGCCAGCTGGCCCATGCTGTCTGGCCAAGCTGAAC
 GCCTTCAAGGCAGACACTCCAGTCTGGGCGAGGGCCAGAGAAAACACGCTCACAGTTGCTCATATGG
 ACCGGGCAGCAGACCCCGTGTCCCGCTATTACATGAACTCACATTCCAAGCCATGGCCTATGATCTTCT
 GCACATCGAGCAGGACACATACAGGTATGAGACCACAGGACTGAGCGAGTCCCGGGAGAAGGCTGTGCTC
 CTGGATGAAGACGATGACCTGTGGGTGGAATCCGGCACATGCACATAGCGGATGTGTCCAAGAAGGTCA
 CGGAGCTCCTGAAGACATTTCTGTGAGAGCAAGCGGCTGACCACAGACAAGGCCAACATCAAAGACCTGTC
 CCACATCTGAAAAAGATGCCACAGTATCAGAAGGAGTTGAACAAGTACTCCACGCACCTGCACTTGGCA
 GATGACTGCATGAAGCACTTCAAGGGCTCGGTGGAGAAGCTGTGCGGTGTGGAGCAGGACCTGGCCATGG
 GCTCTGATGCAGAGGGTGAAGATCAAGGACACCATGAAACTGATTGTCCCGTGTGTGGATGCCTC
 CGTGCCACCCTATGACAAGATCCGGTTCGCTGCTCTACATCCTTCTGCGGAACGGTGTGAGTGAGGAA
 AATCTGGCCAAGCTGATCCAGCATGCTAATGTGAGTCTACAGCAACCTCATCCGGAACCTGGAGCAGC
 TGGGGGGCACTGTACCAACTCTGCGGGCTCAGGGACCTTAGCCGGCTGGAGCGGAGAGAACGCATGGA
 GCCACCTACCAGCTGTCTCGTGGTCCCAGTCATCAAGGACGTGATGGAGGATGTGGTGGAGGACCGG
 CTAGACCGAAAGCTGTGGCCCTTCTGTCTGACCTGCCCTGTGTCTAGCTCCAAGCAGCTGTACGCA
 GTGCTCGCTTTGGCCACTGGCATAAAAACAAAGCTGGTATAGAGGCTCGGGCTGGACCCAGGCTCATCGT
 GTACATTTGGTGGTGTGCGCATGTCTGAAATGAGGGTCTTATGAGGTGACCAGAGCCACTGAAGGC
 AAGTGGGAGTACTTATAGGCTTCTCCACATCCTCACTCAACCCGCTTCTCGATGACCTCAGGACCC
 TGGATCAGAAGCTGGAGGACATAGCCCTGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208993 representing NM_031126
 Red=Cloning site Green=Tags(s)

MAPLGLKAVVVEKILSGVIRSVKKGDEWKVLIMDHPMSRILSSCKMSDILAEGITIVEDINKRREPIPS
 LEAIYLLSPTEKSVQALIADFQGTPTFTYKAAHIFFTDTCPEPLFSELGRSRLAKVVKTLKEIHLAFLPY
 EAQVFLSDAPHSTYNLYCPFRAGERGRQLDVLAAQIATLCATLQEYPSIRYRKGPEDTAQLAHAVLAKLN
 AFKADTPSLGEGPEKTRSQLLIMDRAADPVSPLLHELTFQAMAYDLLHIEQDTRYETTGLSESREKAVL
 LDEDDLWVELRHMHIADVSKVTELLKTFCESKRLTTDKANIKDLSHILKMPQYQKELNKYSTHLHLA
 DDCMKHFKGSVEKLCGVEQDLAMGSDAEGEKIKDTMKLIVPVLLDASVPPYDKIRVLLLYILLRNGVSEE
 NLAKLIQHANSYSNLIRNLEQLGGVTNSAGSGTSSRLERRERMEPTYQLSRWSPVIKDVMDVVEDR
 LDRKLPWFVSDPAPVSSQAAVSSARFGHWHKNGAGIEARAGPRLIVYIVGGVAMSEMRAAYEVTRATEG
 KWEVLIGSSHILTPTRFLDDLRLTDQKLEDIALP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

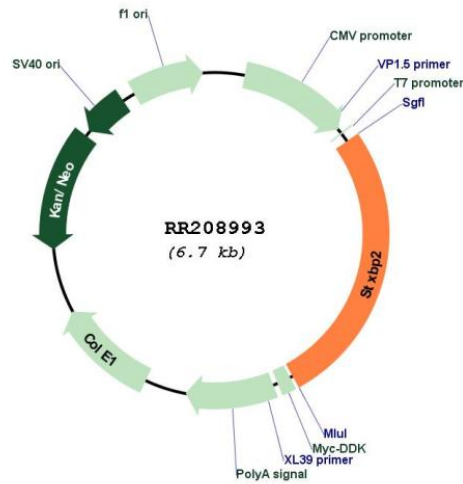
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_031126

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:	<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_031126.1 , NP_112388.1
RefSeq Size:	2118 bp
RefSeq ORF:	1785 bp
Locus ID:	81804
UniProt ID:	Q62753
Cytogenetics:	12p12
MW:	66.7 kDa
Gene Summary:	syntaxin binding protein; important for synaptic vesicle exocytosis; may be a component of the SNARE complex; may be involved with pancreatic beta-cell exocytosis [RGD, Feb 2006]