

## Product datasheet for **MR224784**

### Stxbp1 (NM\_009295) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Stxbp1 (NM_009295) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Stxbp1
Synonyms:	AI317162; AI326233; MMS10-G; Ms10g; Munc-18a; Munc18-1; N-sec1; nsec1; Rb-sec1; Sxtbp1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR224784 representing NM\_009295  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCCCATTGGCCTCAAGGCGGTGGTCCGAGAGAAGATCATGCATGATGTGATCAAGAAGGTGAAGA  
 AGAAGGGCGAGTGAAGGTGCTGGTGGTGGACAGTTAAGCATGAGGATGCTGTCTCCTGCTGCAAGAT  
 GACAGACATCATGACCGAGGGCATCACAAATTGTGGAGGATATCAACAAGCGCCGAGAGCCACTCCCCAGC  
 CTGGAGGCCGTGTACCTCATCACCCATCTGAGAAGTCTGTCCACTCTCTGATCAGTGATTTTAAGGACC  
 CGCCGACTGCTAAATATCGGGCTGCGCATGTGTTCTTACAGACTCGTGTCCAGATGCCCTATTTAACGA  
 GCTGTTAAATCCCGAGCAGCCAAAGTCATCAAGACGCTGACGGAAATCAACATTGCGTTTCTCCCTAT  
 GAGTCCCAGGTGATTCCCTGGACTCCGCTGACTCTTCCAAAGCTTCTACAGCCCTCACAAGGCGCAGA  
 TGAAGAATCCGATACTGGAACGCCTGGCAGAGCAGATCGCAACCCTGTGTCCACCCTGAAGGAGTATCC  
 AGCTGTGCGGTATCGGGGGGAGTACAAGGACAATGCCTTGTGGCTCAGCTGATCCAGGACAAGCTGGAT  
 GCCTATAAAGCCGACGATCCAACAATGGGGGAGGGTCCCGACAAGGCACGGTCCCAGCTCCTGATCCTGG  
 ATCGTGGCTTTGACCCAGCTCCCTGTGCTCCATGAACTGACATTCCAGGCTATGAGTTATGACCTGCT  
 GCCTATCGAAAATGATGTTTACAAGTATGAGACCAGCGGCATTGGAGAGGCGCGGGTGAAGGAGGTGCTA  
 CTGGATGAGGACGATGACCTGTGGATTGCGCTGCGACACAAGCACATCGCAGAGGTGTCCAGGAAGTCA  
 CCCGGTCTCTGAAGGACTTTTCTCTAGCAAGAGGATGAACACTGGCGAGAAGACCACCATGCGGGACCT  
 GTCCCAGATGCTGAAGAAAATGCCCCAGTACCAGAAGGAGCTCAGCAAGTATTCGACTCACCTGCACCTT  
 GCTGAAGACTGCATGAAGCATTACCAAGCACTGTAGACAAACTCTGCCGCTGGAGCAGGACCTGGCAA  
 TGGGCACAGATGCTGAGGGGGAAAAAATCAAGGACCCCATGAGAGCCATTGTCCCATCCTGCTGGATGC  
 GAACGTCAGCACTTACGACAAAATCCGTATCATCTTCTACATCTTCTGAAGAACGGTATCACTGAG  
 GAGAACCCTAAACAAACTCATCCAGCAGCTCAGATACCCCGAGGACAGCGAGATCATACCAACATGG  
 CTCACCTCGGCGTGCCCATCGTCACGGATTCCACACTACGCCGCCGAAGCAAACCGGAGCGGAAGGAGCG  
 TATCAGTGAGCAGACCTACCAGCTCTCACGATGGACCCCGATCATTAAAGACATTATGGAGGACACTATC  
 GAAGACAAGCTGGATACAAAGCACTACCCATACATCTCTACCCGCTCGTCCGCTCCTCAGCACCCTG  
 CTGTGAGTGCCCGCTATGGACATTGGCACAAGAATAAGGCCCCCGGGGAGTACCGCAGCGGTCCCGCCT  
 CATTATTTTATCCTTGGGGGTGTGAGCCTGAATGAGATGCGCTGTGCTTACGAAGTGACCCAGGCCAAC  
 GGCAAGTGGGAAGTGTGATAGGATCCACGCACATTCTACCCACAGAAACTGCTGGACACGCTGAAGA  
 AGCTGAATAAAACAGATGAAGAAATAAGCAGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR224784 representing NM\_009295  
 Red=Cloning site Green=Tags(s)

MAPIGLKAVVGEKIMHDVIKVKKKKGEWKVLVVDQLSMRMLSSCKMTDIMTEGITIVEDINKRREPLPS  
 LEAVYLITPSEKSVHSLISDFKDPPTAKYRAAHVFFDSCPDALFNELVKSRAAKVIKTLTEINI AFLPY  
 ESQVYSLDSADSFQSFYSPHKAQMKNPILERLAEQIATLCATLKEYPAVRYRGEYKDNALLAQLIQDKLD  
 AYKADDPTMGEKPKARSQLLILDRGDFPSSPVLHELTFQAMSYDLLPIENDVYKYETSGIGEARVKEVL  
 LDEDDLWIALRHKHIAEVSQEVTRSLKDFSSSKRMNTGEKTTMRDLSQMLKMPQYQKELSKYSTHLHL  
 AEDCMKHYQGTVDKLCRVEQDLAMGTD AEGEKIKDPMRAIVPILLDANVSTYDKIRIILLYIFLNGITE  
 ENLNKLIQHAQIPPEDSEIITNMAHLGVPIVTDSTLRRRSKPERKERISEQTYQLSRWTP I IKDIMEDI  
 EDKLDTKHYPYISTRSSASFSTTAVSARYGHWHKNKAPGEYRSGPRLIIFILGGVSLNEMRCAYEVTQAN  
 GKWEVLIGSTHILTPQKLLD TLKLNKTDEEISS

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

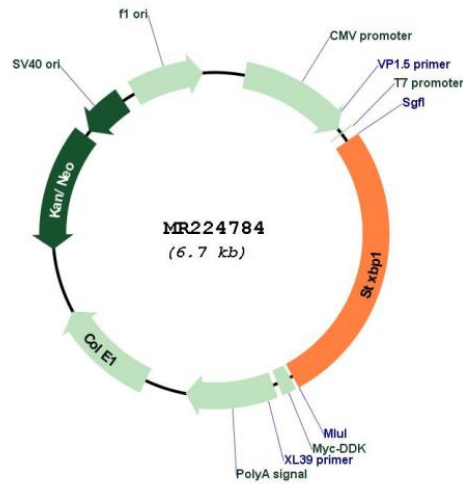
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM\_009295

ORF Size: 1782 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_009295.2</a> , <a href="#">NP_033321.2</a>
<b>RefSeq Size:</b>	3874 bp
<b>RefSeq ORF:</b>	1785 bp
<b>Locus ID:</b>	20910
<b>UniProt ID:</b>	<a href="#">O08599</a>
<b>Cytogenetics:</b>	2 22.09 cM
<b>MW:</b>	68 kDa
<b>Gene Summary:</b>	Participates in the regulation of synaptic vesicle docking and fusion through interaction with GTP-binding proteins (By similarity). Essential for neurotransmission and binds syntaxin, a component of the synaptic vesicle fusion machinery probably in a 1:1 ratio. Can interact with syntaxins 1, 2, and 3 but not syntaxin 4. May play a role in determining the specificity of intracellular fusion reactions (By similarity).[UniProtKB/Swiss-Prot Function]