

## Product datasheet for **RR206348**

### Stx1b (NM\_012700) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Stx1b (NM\_012700) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Stx1b  
**Synonyms:** Stx1b2; Stx2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR206348 representing NM\_012700  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAAGGATCGGACTCAGGAGCTGCGGAGTGCAAAGACAGTGACGATGAAGAGGAAGTGGTTCATGTGG  
ATCGAGACCACTTATGGATGAGTTCCTTGAGCAGGTGGAAGAGATCCGAGGCTGCATCGAGAACTGTC  
CGAGGATGTGGAGCAAGTGAAGAAACAGCACAGTGCCATTCTTGCTGCCCAACCCCGATGAGAAGACT  
AAACAGGAGCTGGAGGACCTCACGGCAGACATCAAAAAGACGGCAACAAGGTCCGGTCCAAGTTGAAAG  
CGATCGAGCAGAGCATTGAGCAGGAAGAGGGGTTGAATCGTTCTTCTGCAGACCTGCGTATCCGTAAGAC  
CCAGCACTCCACACTCTCACGGAAGTTCGTGGAGGTAATGACCGAATATAATGCAACTCAGTCTAAGTAC  
CGGGACCCTGCAAGGACCGTATCCAGAGGCAGCTGGAGATCACTGGCAGGACTACTACCAACGAAGAGC  
TGGAAAGACATGTTGAAAGCGGGAAGCTGGCCATCTTACGGACGACATCAAAATGGACTCGCAGATGAC  
AAAGCAAGCCCTGAATGAGATAGAGACAAGGCACAATGAGATCATCAACTGGAAACCAGCATCCGAGAG  
CTGCACGACATGTTTGTGGACATGGCCATGCTCGTGGAGAGCCAGGTTGAGATGATCGACCGAATTGAGT  
ACAATGTGGAACATTCTGTGGACTACGTGGAGCGAGCCGTGTCGACACCAAGAAAGCTGTGAAATATCA  
GAGCAAGGCCAGGAGGAAGAAAATTATGATCATATTTGCTGTGTGGTGTGGGGTGGTCTTGGCGTCA  
TCTATTGGGGGACACTGGGCTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR206348 representing NM\_012700  
 Red=Cloning site Green=Tags(s)

MKDRTQELRS AKSDSDEEEVVHVRDRDHFMD EFFEQVEEIRGCI EKL SEDVEQVKKQHSAILAAPNPDEKT  
 KQ ELEDLTADIKKTANKVRSK LKAIEQSIEQE EGNR SSADLRIRK TQHS TL SRKFVEVMTEYNATQSKY  
 RDRCKDRIQRQLEITGR TTTN EELEDMLESGK LAIF TDDIKMDSQMTKQALNEIETRHN EIIKLETSIRE  
 LHDMFVDMAMLVESQ GEMIDRIEYNVEHSVDYVERAVSDTKKAVKYQSKARRKKIMIIICCVVLGVVLAS  
 SIGGTLGL

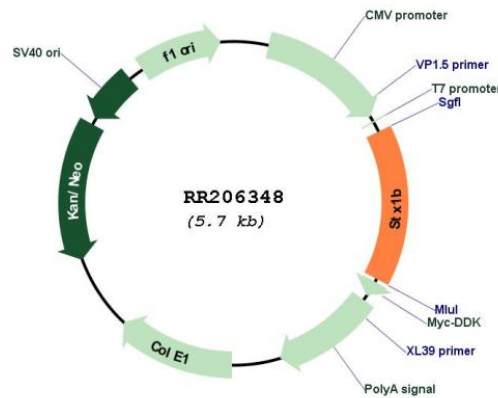
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_012700

**ORF Size:** 864 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<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>	<p><a href="#">NM_012700.2</a>, <a href="#">NP_036832.1</a></p>
<b>RefSeq Size:</b>	<p>1690 bp</p>
<b>RefSeq ORF:</b>	<p>867 bp</p>
<b>Locus ID:</b>	<p>24923</p>
<b>UniProt ID:</b>	<p><a href="#">P61265</a></p>
<b>Cytogenetics:</b>	<p>1q37</p>
<b>MW:</b>	<p>33.2 kDa</p>
<b>Gene Summary:</b>	<p>protein that binds to N-type calcium channels and forms a synaptic core complex; involved in synaptic vesicle docking, calcium-dependent synaptic transmission and vesicular transport [RGD, Feb 2006]</p>