

Product datasheet for **MG221633**

Stx1b (NM_024414) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stx1b (NM_024414) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Stx1b
Synonyms:	Stx1b2; Stx1bl; Syn1b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG221633 representing NM_024414 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGATCGGACTCAGGAGCTGCGGAGTGCGAAAGACAGTGATGATGAAGAGGAGGTGGTCCACGTGG
ATCGAGACCACTTTATGGATGAGTTCTTCGAGCAGGTGGAAGAGATCCGAGGCTGCATCGAGAACTGTC
TGAGGATGTGGAGCAAGTAAGAAACAGCACAGCGCCATTCTTGCCGCCCAACCCGATGAGAAGACT
AAACAGGAGTTGGAGGACCTCACGGCAGACATCAAAAAGACGGCAAACAAGGTCCGGTCCAAGTTGAAAG
CGATCGAGCAAAGCATTGAGCAGGAAGAGGGGCTGAATCGTTCCTCTGCGGACCTGCGCATCCGTAAGAC
CCAGCACTCCACACTCTCACGGAAGTTCGTGGAGGTAATGACCGAATATAATGCAACTCAGTCCAAGTAC
CGGACCGCTGCAAGGACCGAATCCAGAGGCAGCTGGAGATCACTGGCAGGACTACTACCAATGAAGAAC
TAGAAGACATGTTGAAAGCGGGAAGCTGGCCATCTTCACTGATGATATCAAAATGGACTCGCAGATGAC
AAAGCAAGCTCTGAATGAGATCGAGACAAGGCACAATGAGATCATCAAACCTGAAACCAGCATTGAGAG
CTGCACGACATGTTTGTGGACATGGCCATGCTCGTAGAGAGCCAGGGTGAGATGATCGACCGAATTGAGT
ACAACGTGGAACATTCCGTGGACTACGTGGAACGAGCCGTGTCTGACACCAAGAAAGCTGTGAAGTATCA
GAGCAAGGCCAGGAGGAAGAAAATTATGATCATCATTTGCTGTGTGGTGTGGGGTGGTCTTGGCGTCA
TCCATTGGGGGACACTGGGCTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG221633 representing NM_024414
Red=Cloning site Green=Tags(s)

MKDRTQELRS AKSDSDEEEVVHVD RDHF MDEF FEQVEE IRGCIEKLS EDVEQVKKQHSAILAAPNPDEKT
 KQEL EDLTADIKKTANKVRSK LKAI EQSIEQEGLNRSSADLRIRKTQHSTLSRKFVEVMTEYNATQSKY
 RDRCKDRIQRQLEITGR TTTNEELEDMLESGKLAIF TDDIKMDSQMTKQALNEIETRHNEIIKLETSIRE
 LHDMFVDMAML VESQ GEMIDRIEY NVEHSVDYVERAVSDTKKAVKYQSKARRKKIMIIICCVVLGVVLAS
 SIGGTLGL

TRTRPLE - GFP Tag - V

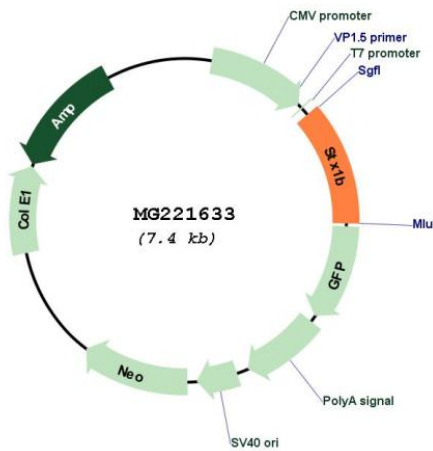
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_024414

ORF Size: 864 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_024414.2 , NP_077725.1
RefSeq Size:	1574 bp
RefSeq ORF:	867 bp
Locus ID:	56216
UniProt ID:	P61264
Cytogenetics:	7 F3
Gene Summary:	Potentially involved in docking of synaptic vesicles at presynaptic active zones (By similarity). May mediate Ca(2+)-regulation of exocytosis acrosomal reaction in sperm.[UniProtKB/Swiss-Prot Function]