

Product datasheet for **RG209124**

STX1B (NM_052874) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STX1B (NM_052874) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STX1B
Synonyms:	GEFSP9; STX1B1; STX1B2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209124 representing NM_052874 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGATCGGACTCAAGAGCTGCGGAGTGCGAAAGACAGTGATGATGAAGAGGAGGTGGTCCACGTGG
ATCGGGACCACCTTCATGGATGAGTTCTTTGAACAGGTGGAAGAGATCCGGGGCTGCATTGAGAACTGTC
GGAGGATGTGGAGCAGGTGAAAAACAGCATAGCGCCATCCTGGCCGCACCAACCCAGATGAGAAGACC
AAACAGGAGCTGGAGGATCTCACTGCAGACATCAAGAAGACGGCCAACAAGGTTCCGGTCCAAATTGAAAG
CGATCGAGCAAAGCATTGAACAGGAGGAGGGGCTGAACCGTTCCTCCGCGGACCTGCGCATCCGCAAGAC
CCAGCACTCCACACTGTCCCAGGAAAGTTCGTGGAGGTAATGACCGAATATAACGCGACCCAGTCCAAGTAC
CGGACCGCTGCAAGGACCGGATCCAGCGCAACTGGAGATCACTGGAAGGACCACCAACGAAGAAC
TGAAGACATGCTGGAGAGCGGGAAGCTGGCCATCTTCACAGATGACATCAAAATGGACTCACAGATGAC
GAAGCAGGCGCTGAATGAGATTGAGACGAGGCACAATGAGATCATCAAGCTGGAGACCAGCATCCGCGAG
CTGCACGATATGTTTGTGGACATGGCCATGCTCGTAGAGAGCCAGGAGAGATGATTGACCGCATCGAGT
ACAACGTGGAACATTCTGTGGACTACGTGGAGCGAGCTGTGTCTGACACCAAGAAAGCAGTGAATATCA
GAGCAAGGCCCGGAGGAAGAAAATCATGATCATCATTTGCTGTGTGGTGTGGGGTGGTCTTGGCGTCG
TCCATTGGGGGACGCTGGGCTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209124 representing NM_052874
Red=Cloning site Green=Tags(s)

MKDRTQELRS AKDS DDEEEVVH VDRDHF MDEF FEQVEE IRGCIEKLS EDVEQVKKQHSAILAAPNPDEKT
 KQELEDLTADIKKTANKVRSK LKAIEQSIEQEEGLNRSSADLRIRK TQHSTLSRKFVEVMTEYNATQSKY
 RDRCKDRIQRQLEITGR TTTNEELEDMLESGKLAIFTDDIKMDSQMTKQALNEIETRHN EIIKLETSIRE
 LHDMFVDMAMLVESQ GEMIDRIEY NVEHSVDYVERAVSDTKKAVKYQSKARRKKIMIIICCVVLGVVLAS
 SIGGTLGL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_052874

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:

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_052874.1](#), [NP_443106.1](#)

RefSeq Size: 1709 bp

RefSeq ORF: 867 bp

Locus ID: 112755

UniProt ID: [P61266](#)

Cytogenetics: 16p11.2

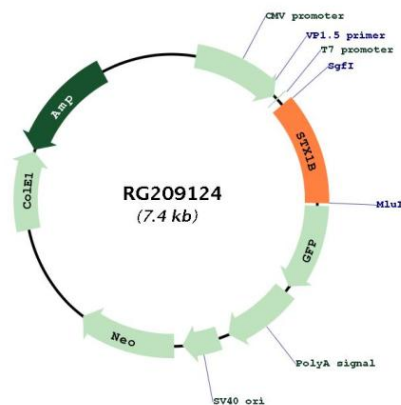
Domains: t_SNARE, SynN

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: SNARE interactions in vesicular transport

Gene Summary: The protein encoded by this gene belongs to a family of proteins thought to play a role in the exocytosis of synaptic vesicles. Vesicle exocytosis releases vesicular contents and is important to various cellular functions. For instance, the secretion of transmitters from neurons plays an important role in synaptic transmission. After exocytosis, the membrane and proteins from the vesicle are retrieved from the plasma membrane through the process of endocytosis. Mutations in this gene have been identified as one cause of fever-associated epilepsy syndromes. A possible link between this gene and Parkinson's disease has also been suggested. [provided by RefSeq, Jan 2015]

Product images:



Circular map for RG209124