

Product datasheet for RC209124

STX1B (NM_052874) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STX1B (NM_052874) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	STX1B
Synonyms:	GEFSP9; STX1B1; STX1B2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209124 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAGGATCGGACTCAAGAGCTGCGGAGTGCGAAAGACAGTGATGATGAAGAGGAGGTGGTCCACGTGG
ATCGGGACCACTTCATGGATGAGTTCTTTGAACAGGTGGAAGAGATCCGGGGCTGCATTGAGAACTGTC
GGAGGATGTGGAGCAGGTGAAAAACAGCATAGCGCCATCCTGGCCGACCCAACCCAGATGAGAAGACC
AAACAGGAGCTGGAGGATCTCACTGCAGACATCAAGAAGACGGCCAACAAGGTTCCGTCCAAATTGAAAG
CGATCGAGCAAAGCATTGAACAGGAGGAGGGGCTGAACCGTTCCCTCCGCGGACCTGCGCATCCGCAAGAC
CCAGCACTCCACACTGTCCCAGGAACTTCGTGGAGGTAATGACCGAATATAACGCGACCCAGTCCAAGTAC
CGGACCGCTGCAAGGACCGGATCCAGCGCAACTGGAGATCACTGGAAGGACCACCACCAACGAAGAAC
TGAAGACATGCTGGAGAGCGGGAAGCTGGCCATCTTACAGATGACATCAAAATGGACTCACAGATGAC
GAAGCAGGCGCTGAATGAGATTGAGACGAGGCACAATGAGATCATCAAGCTGGAGACCAGCATCCGCGAG
CTGCACGATATGTTTGTGGACATGGCCATGCTCGTAGAGAGCCAGGAGAGATGATTGACCGCATCGAGT
ACAACGTGGAACATTCTGTGGACTACGTGGAGCGAGCTGTGTCTGACACCAAGAAAGCAGTGAATATCA
GAGCAAGGCCCGGAGGAAGAAAATCATGATCATCATTTGCTGTGTGGTCTGGGGTGGTCTTGGCGTCG
TCCATTGGGGGACGCTGGGCTTG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC209124 protein sequence
Red=Cloning site Green=Tags(s)

MKDRTQELRS AKDS DDEEEVVH VDRDHF MDEF FEQVEE IRGCIEKL SEDVEQVKKQHSAILAAPNPDEKT
 KQEL EDL TADIKK TANKVRSK LKAIEQS IEQEGLNRSSADLRIRKTQHSTLSRKFVEVMTEYNATQSKY
 RDRCKDRIQRQLEITGR TTTN EELEDMLESGK LAIFTDDIKMDSQMTKQALNEIETRHN EIIKLETSIRE
 LHDMFVDMAMLVESQ GEMIDRIEY NVVHSVDYVERAVSDTKKAVKYQSKARRKKIMIIICCVVLGVVLAS
 SIGGTLGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6556_f07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_052874

ORF Size: 864 bp

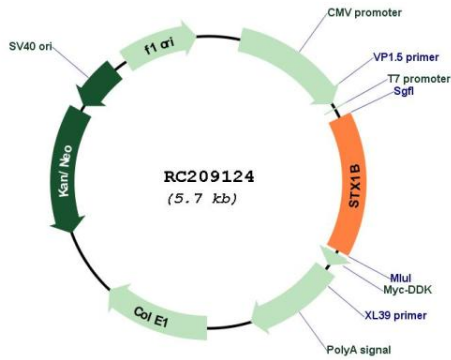
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

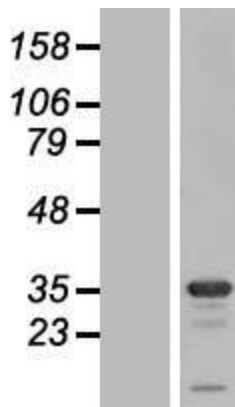
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<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_052874.5
RefSeq Size:	4544 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
MW:	33.2 kDa
Gene Summary:	<p>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]</p>

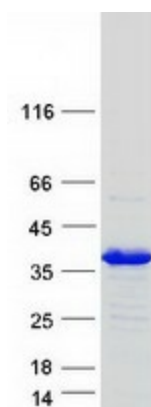
Product images:



Circular map for RC209124



Western blot validation of overexpression lysate (Cat# [LY409417]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209124 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified STX1B protein (Cat# [TP309124]). The protein was produced from HEK293T cells transfected with STX1B cDNA clone (Cat# RC209124) using MegaTran 2.0 (Cat# [TT210002]).