

Product datasheet for **SC327419**

Syntaxin 1a (STX1A) (NM_001165903) Human Untagged Clone

Product data:

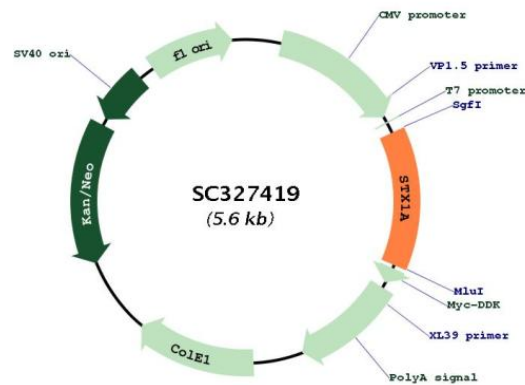
Product Type:	Expression Plasmids
Product Name:	Syntaxin 1a (STX1A) (NM_001165903) Human Untagged Clone
Tag:	Tag Free
Symbol:	STX1A
Synonyms:	HPC-1; P35-1; STX1; SYN1A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC327419 representing NM_001165903. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGAAGGACCGAACCAGGAGCTCCGCACGGCCAAGGACAGCGATGATGATGATGATGTCGCTGTCACC
GTGGACCGAGACCGCTTCATGGATGAGTTCTTTGAGCAGGTGGAGGAGATTCGAGGCTTCATTGACAAG
ATCGCAGAGAACGTGGAGGAGGTGAAGCGGAAGCACAGTGCCATCCTGGCATCCCCAACCCCGATGAG
AAGACGAAGGAGGAGCTGGAAGAACTCATGTCCGACATAAAGAAGACAGCAAACAAGTTCTGTTCCAAG
TTAAAGAGCATCGAGCAGTCCATCGAGCAAGAGGAAGGCCTGAACCGCTCCTCCGCTGACCTGAGGATC
CGGAAGACACAGCACTCCACGCTGTCCAGAAAGTTTGTGGAGGTCATGTCGGAGTACAACGCCACGCAG
TCCGACTACCGGAGCGCTGCAAAGGCCGATCCAGAGGCAGCTGGAGATCACCGCAGGACCACGACC
AGTGAGGAGCTGGAGGACATGCTGGAGAGTGGGAACCCCGCCATCTTTGCCTCTGGGATCATCATGGAC
TCCAGCATCTCGAAGCAGGCTCTGAGCGAGATTGAGACGGCACAGTGAGATCATCAAGCTGGAGAAC
AGCATCCGTGAGCTACACGACATGTTTATGGACATGGCCATGCTCGTGGAGAGCCAGACTATGTGGAGA
GGGCCGTGTCTGACACCAAGAAGGCCGTCAAGTACCAGAGCAAGGCGGCCGGAAGAAAATCAT TGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-MluI



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Plasmid Map:


ACCN: NM_001165903

Insert Size: 756 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001165903.1](#)

RefSeq Size:	2092 bp
RefSeq ORF:	756 bp
Locus ID:	6804
UniProt ID:	Q16623
Cytogenetics:	7q11.23
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways:	SNARE interactions in vesicular transport
MW:	29 kDa
Gene Summary:	<p>This gene encodes a member of the syntaxin superfamily. Syntaxins are nervous system-specific proteins implicated in the docking of synaptic vesicles with the presynaptic plasma membrane. Syntaxins possess a single C-terminal transmembrane domain, a SNARE [Soluble NSF (N-ethylmaleimide-sensitive fusion protein)-Attachment protein REceptor] domain (known as H3), and an N-terminal regulatory domain (Habc). Syntaxins bind synaptotagmin in a calcium-dependent fashion and interact with voltage dependent calcium and potassium channels via the C-terminal H3 domain. This gene product is a key molecule in ion channel regulation and synaptic exocytosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009]</p> <p>Transcript Variant: This variant (2) lacks an internal segment in the 3' coding region, as compared to variant 1. The resulting isoform (2) is shorter and has a distinct C-terminus, as compared to isoform 1.</p>