

Product datasheet for **SC322067**

STX17 (NM_017919) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STX17 (NM_017919) Human Untagged Clone
Tag:	Tag Free
Symbol:	STX17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_017919, the custom clone sequence may differ by one or more nucleotides

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ATGTCTGAAGATGAAGAAAAAGTGAAATTACGCCGCTTGAACCAGCTATCCAGAAATTCATTAAGATAG
TAATCCCAACAGACCTGGAAAGGTTAAGAAAGCACCAGATAAATATTGAGAAGTATCAAAGGTGCAGAAT
CTGGGACAAGTTGCATGAAGAGCATATCAATGCAGGACGTACAGTTCAGCAACTCCGATCCAATATCCGA
GAAATTGAGAACTTTGTTTGAAGTCCGAAAGGATGACCTAGTACTTCTGAAGAGAATGATAGATCCTG
TTAAAGAAGAAGCATCAGCAGCAACAGCAGAATTTCTCCAACCTCATTGGAATCTGTAGAAGAACTTAA
GAAGCAATTTAATGATGAAGAACTTTGCTACAGCCTCCTTTGACCAGATCCATGACTGTTGGTGGAGCA
TTTCATACTACTGAAGCTGAAGCTAGTTCTCAGAGTTTGACTCAGATATATGCCTTACCTGAAATTCCTC
AAGATCAAAATGCTGCAGAATCGTGGGAAACCTTAGAAGCGGACTTAATTGAACTTAGCCAACCTGGTCAC
TGACTTCTCTCCTAGTGAATTCTCAGCAGGAGAAGATTGACAGCATTGCAGACCATGTCAACAGTGCT
GCTGTGAATGTTGAAGAGGGAACCAAAACTTAGGGAAGGCTGCAAAATACAAGCTGGCAGCTCTGCCTG
TGGCAGGTGCACTCATCGGGGAATGGTAGGGGTCTATTGGCCTCCTTGCAGGCTTCAAAGTGGCAGG
AATTGCAGCTGCACTTGGTGGTGGGGTGTGGGCTTACAGGTGGAAAATTGATACAAAGAAAGAAACAG
AAAATGATGGAGAAGCTCACTTCCAGCTGTCCAGATCTTCCAGCCAACTGACAAGAAATGCAGTTAA
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Restriction Sites:	Please inquire
ACCN:	NM_017919



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OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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_017919.1](#), [NP_060389.1](#)

RefSeq Size: 2678 bp

RefSeq ORF: 909 bp

Locus ID: 55014

UniProt ID: [P56962](#)

Cytogenetics: 9q31.1

Domains: t_SNARE

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: SNARE interactions in vesicular transport

Gene Summary:

SNAREs, soluble N-ethylmaleimide-sensitive factor-attachment protein receptors, are essential proteins for fusion of cellular membranes. SNAREs localized on opposing membranes assemble to form a trans-SNARE complex, an extended, parallel four alpha-helical bundle that drives membrane fusion (PubMed:23217709, PubMed:25686604, PubMed:28306502). STX17 is a SNARE of the autophagosome involved in autophagy through the direct control of autophagosome membrane fusion with the lysosome membrane (PubMed:23217709, PubMed:25686604, PubMed:28306502). May also play a role in the early secretory pathway where it may maintain the architecture of the endoplasmic reticulum-Golgi intermediate compartment/ERGIC and Golgi and/or regulate transport between the endoplasmic reticulum, the ERGIC and the Golgi (PubMed:21545355).[UniProtKB/Swiss-Prot Function]