

Product datasheet for **SC330217**

Syntaxin 5A (STX5) (NM_001244666) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Syntaxin 5A (STX5) (NM_001244666) Human Untagged Clone
Tag: Tag Free
Symbol: STX5
Synonyms: SED5; STX5A
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC330217 representing NM_001244666.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

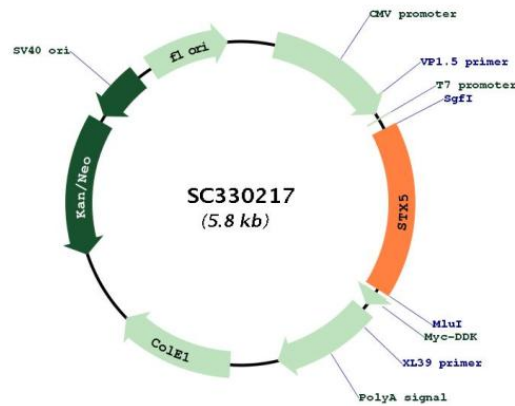
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ATGATCCCGCGGAAACGCTACGGGTCTAAGAACACGGATCAGGGTGTCTACCTGGGTCTCTCAAAGACA  
CAGGTCTGTCCCCTGCAACTGCTGGCAGTAGCAGCAGCGACATCGCCCCCTGCCCCCCCAGTGACC  
CTCGTCCCTCCCCCTCCCGACACCATGTCCTGCCGGGATCGGACCCAGGAGTTTCTGTCTGCCTGCAAG  
TCGCTGCAGACCCGTGAGATGGAATCCAGACAAATAAGCCAGCTTTGCGTGTCTCCGACAACGCAGT  
GAATTCACCTCATGGCCAAGCGCATTGGGAAAGACCTTAGCAACACATTTGCCAAGCTGGAGAAGCTG  
ACAATCTTGGCAAAGCGCAAGTCCCTCTTTGATGATAAAGCAGTGGAAATTGAAGAGCTAACATATATC  
ATCAAACAGGACATCAATAGCCTCAACAAACAAATTGCTCAGCTCCAGGATTTCTGTGAGAGCCAAGGGC  
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TCTATGTCCAATGACTTCAAATCGGTTTTAGAAGTGAGGACAGAGAACCTGAAGCAGCAGAGGAGCCGG  
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CAGCAGCTGCAGCTCATTGACGAGCAGGATTCCTACATCCAGAGTCGGGCAGACACCATGCAGAACATT  
GAGTCGACAATTGTTGAGTTGGGCTCCATCTTTTCAGCAGTTGGCACACATGGTTAAGGAACAGGAGGAA  
ACCATTCAGAGTGTCTTTTGTTCCTCTCTCCCGCCTTGTCCCAGGATCGACGAGAACGTGCTAG
```

Restriction Sites: Sgfl-Mlul



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Plasmid Map:



ACCN: NM_001244666

Insert Size: 966 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).

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_001244666.1](https://www.ncbi.nlm.nih.gov/RefSeq/seq/statements/NC_019961.1)

RefSeq Size: 1872 bp

RefSeq ORF: 966 bp

Locus ID: 6811

UniProt ID: [Q13190](#)

Cytogenetics: 11q12.3

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: SNARE interactions in vesicular transport

MW: 35.5 kDa

Gene Summary: This gene encodes a member of the syntaxin or t-SNARE (target-SNAP receptor) family. These proteins are found on cell membranes and serve as the targets for v-SNAREs (vesicle-SNAP receptors), permitting specific synaptic vesicle docking and fusion. The encoded protein regulates endoplasmic reticulum to Golgi transport and plays a critical role in autophagy. Autoantibodies targeting the encoded protein may be a diagnostic marker for endometriosis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Sep 2011]
Transcript Variant: This variant (2) uses an alternate splice site in the 3' coding region, which results in a frameshift and early stop codon compared to variant 1. The encoded isoform (2) is shorter and has a distinct C-terminus, compared to isoform 1.