

Product datasheet for **SC126396**

SYT12 (NM_177963) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: SYT12 (NM_177963) Human Untagged Clone
Tag: Tag Free
Symbol: SYT12
Synonyms: SYT11; sytXII
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)
Cell Selection: None
Fully Sequenced ORF: >OriGene sequence for NM_177963 edited

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CTGGAGCCCAGCCGAGCGGCGGCCCTCCGCGGAGCCCGTACAGTCACTGCAGCAGA
CATCATGGCTGTGGATGTGGCAGAATACCATCTGAGCGTCATCAAGAGCCCCCTGGCTG
GGAGGTGGGTGTCTATGCTGCAGGGGCCCTGGCCCTGCTGGGAATCGCAGCTGTGAGCCT
GTGGAAGCTCTGGACGTCGGGGAGCTTCCCCAGCCCTCTCCGTTCCCAATTACGACTA
CAGGTACCTTCAGCAGAAGTACGGCGAGAGCTGCGCAGAGGCCAGGGAGAAGAGAGTGCC
TGCCTGGAATGCCAGCGGGCCAGCACGCGGGGACCACCCAGCCGAAAGGCAGTCTCAG
CATTGAGGACACCTTTGAGAGCATCAGTGAAGTGGGGCTCTGGAGCTGATGGGCCGGGA
GTTGGACCTGGCCCCCTATGGGACCCTCCGGAAGTCCCAGTCGGCCGACTCCCTGAACTC
CATCTCCTCCGTGAGCAACACCTTTGGGACGACTTCACACTGGGCCAGGTGGAGGTGAG
CATGGAGTACGACTGCCTCCCACACGCTGAACGTGGCGGTGATGCAGGGCAAGGACCT
CCTGGAGCGGGAGGAGCCAGCTTCGAGTCTGCTTCATGCGCGTCAGCCTGCTGCCGGA
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TGGAACCCAGTGAATCTTGGGGGCCAGGCACTGTGCTAGGCACCAGCAGGGGTAACACGA
 AGAAGACCCGGCCCTTAGGGCATCAGGAAGACTAGCTCCCCTGCCCGGAGGATCTGCTC
 AGTGCTGATGGCAGCCCAGCTGTGTGGACTCAGGGGGCTCTGAGGGCTAGGGAACAGGA
 AGGGCCTCTTTGACAAGGTAGGAGCTGTGCTTGGAGGGGCAGGAAAAGAACTGAGCATGT
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 CCCAGCCCCAGTAGGAGGAGAGCAGGCAGAGCTTGTATCCCCAGCCTGGTGTCCCGCAG
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 GCCAGCAGGTGGGTATCATCTGCTCGTGGGGCCACCCACAGGTGACAGCATGGACCCT
 CAGGCTGGTCCCTGTTCTTGGTCCATAACTGGTGAATGAGTATGGAGACCCAGGCCAAC
 AAATTATCCCCAGTGATATGGGGGGAGGAGGGCTAGAACAAGGGCCAGGGGACTGGAG
 GCAGGATGGTGGCTTTCCTACCTGACACAGCCATGGCCAGCCCCAAGGCCAGGCTGTC
 TACCCTATGGCCACAGCAGGAGGTGAGCCAGGGCCAGGAGACACATGGCTGGACAAGGC
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 ACTCCCCCTGCCCTCTCCCCTCTCCCTCCCCCTAACTGCATGACATGTTAACTGTG
 TGCCAGGACAGCCGTGGTGGGACCGGTATGCCAACTGGAATGATTCTAGAACCAAAA
 TAAAGTTGGGCGAGGAAGAGGGGCTTCCAGGGAGCCCTGCTCGGCCCTGAATCACCTTC
 GTCTTCTCTAA
 AA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_177963 unedited
 GTTAGGATTTGTATACGACTCATATAGGCGGCCGCGATTCCCGGGCTCTGGAGCCCAGCC
 GGAGCGCGGCCCTCCGCGGAGCCCGGTACAGTCACTGCAGCAGACATCATGGCTGTG
 GATGTGGCAGAATACCATCTGAGCGTCATCAAGAGCCCCCTGGTGGGAGGTGGGTGTC
 TATGCTGCAGGGCCCTGCCCTGCTGGGAATCGCAGCTGTGAGCCTGTGGAAGCTCTGG
 ACGTCCGGGAGCTTCCCCAGCCCTCTCCGTCCCAATTACGACTACAGGTACCTTCAG
 CAGAAGTACGGCGAGAGCTGCGCAGAGGCCAGGGAGAAGAGAGTGCCTGCAATGCC
 CAGCGGGCCAGCAGCGGGGACCACCCAGCCGCAAGGCAGTCTCAGCATTGAGGACACC
 TTTGAGAGCATCAGTGAAGTGGGCCTCTGGAGCTGATGGGCCGGGAGTTGGACCTGGCC
 CCCTATGGGACCTCCGGAAGTCCCAGTCCGGCCGACTCCCTGAATCCATCTCCTCCGTG
 AGCAACACCTTTGGCAGGACTTCACTGNGCCAGGTGGAGGTGAGCATGGAGTACGAC
 ACTGCCTCCACACGCTGAACGTGGCGGTGATGCAGGGCAAGGACCTCCTGGAGCGGGAG
 GAGGCCAGCTTCGAGTCTGCTTTCATGCGCGTCAGCCTGCTGCCGACGAGCAGATCGTG
 GGCATTTCTCGNATCCAGAGAAATGCCTACTCCATCCTCTTTGATGAGAAGTTCTCCATC
 CCCCCTGGATCCACAGNCTGGAAGAGAGGCCCTGCGTTTTCTGTATTTGGCATCC
 ATGAGGATGAGCGCAACGTGAGCAGGGGTGGGTGGAGCTGAACCTTTCTGTGCTTGAAC
 TCCCGTGAACCTTCAGGGGTGGCTCTATTTACAGGAACAAAAA

Restriction Sites:

NotI-NotI

ACCN:	NM_177963
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:	<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_177963.2 , NP_808878.1
RefSeq Size:	3520 bp
RefSeq ORF:	1266 bp
Locus ID:	91683
UniProt ID:	Q8IV01
Cytogenetics:	11q13.2
Protein Families:	Secreted Protein, Transmembrane
Gene Summary:	<p>This gene is a member of the synaptotagmin gene family and encodes a protein similar to other family members that mediate calcium-dependent regulation of membrane trafficking in synaptic transmission. Studies of the orthologous gene in rat have shown that the encoded protein selectively modulates spontaneous synaptic-vesicle exocytosis and may also be involved in regulating calcium independent secretion in nonneuronal cells. Alternative splicing results in multiple transcript variants. The gene has previously been referred to as synaptotagmin XI but has been renamed synaptotagmin XII to be standard with mouse and rat official nomenclature.[provided by RefSeq, Apr 2010]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same isoform (a).</p>