

Product datasheet for **SC327611**

Synaptotagmin 14 (SYT14) (NM_001146261) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptotagmin 14 (SYT14) (NM_001146261) Human Untagged Clone
Tag:	Tag Free
Symbol:	Synaptotagmin 14
Synonyms:	SCAR11; sytXIV
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001146261, the custom clone sequence may differ by one or more nucleotides

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ATGGCGAGCGCATCATGGCGATTGAAGGTGGAGAGAGAACCTGTGGAGTACATGAACTTA
TCTGTATTAGAAAAGATAGGGTATTTCTCTGTGGCCAGGCTGGAGTACAGTGGCACCATC
TTGGCTCACTGCAACTCCGCTCCTGGGTTCAAACGATTCTTCTGCCTCAGCATCCCAA
GTAAGTGGGACTACAGTATCTCCAGAGGCAGTTGGATTTTTGTGAGTGTGGGGTGT
ATTATCTGTAGTCTCTCTTTTCTCTATATTAATAAGAAGTCTGTTTTGAAAATGTT
GGCGGGTTTTCCAGATCTTGGTTCAGAATACAGTACAAGGAAGAATTCACAAGATAAAAT
TATAATTCCTACATGGACAAAGATGAGCATGGTTCATCCTCTGAAAGTGAAGATGAAGCG
CTGGGTAATATCATGAGGCCTTATCCAGAACACACAATTCCAGACTACCACTGGCAGAT
TCTAGACAAAGGAAGTATGCTTGGGAAACAAGGCAGAAATACAGTCTCTATCGGCAGAG
TATGATGGATACAGTAGTGAAGCATCAATAGATGAAGGAAACTGCATTACAGAAATGAGA
AGAACACCCCGCTGGATGAATTGCAGCCACCACCATATCAGGATGACAGTGGTTCTCCC
CATCTGTCATGTACACCCTCAGAAATGGGGACAGTAAATGTGAATTTTCCACTGCAGC
AACAGTCCAAGATGCTCATATAACAAGTCCCAAGTGAAGGAAGCACAGGTCATGAAATA
GAAAGTTTTTCATAATAAAGGATATGAAGAAGATGTTCCAAGTGCAGCACTGCAGTCTG
AGCCCTGAAGATATGTCAGCTCAAGGATCATCTTCGCAGCTTCCTAAACCTTTTGTCT
GAGCCAGAAGCTAAATATGGCACACTGGATGTGACTTTTACTATGACTCACAAGAACAG
AAGCTTCTGGTAACAGTGACAGCTGTACAGACATCCCAACATATAACAGGACAGGTGGC
AACTCATGGCAAGTACACCTTGTCTTCTACCTATAAAGAAACAGAGAGCAAAAACCAGC
ATCCAGAGAGGACCATGCCCTGTCTTACAGAAACATTTAAATTAATCATGTTGAATCT
GAGATGATTGAAATTATGCAGTTCGGTTTAGACTGTATGGTGTACATCGCATGAAAAAA
GAAAAGATTGTGGGGGAAAAGATTTTTTTATTTAACAAAATTGAATCTTCAAGGAAAAAT
TCATTGCCTGTGATATTGGAACCTTCTTACAATCATTCTGGCTGTGACTCCCAATGAGC
GTGTCAGAAATGTCGTGTAGTGAAGTACATCCTCATGTGAGTCTCTTGAACATGGCTCA
GTTCCAGAAATCTTATTGGCCTGCTTTATAATGCCACAAGTGAAGACTATCAGCAGAA
GTGATAAAGGCAGCCACTTCAAAAATTTGGCAGCAAACAGACCACCAATGGACTGTTC
TGTTGTCTAAAACACTTGATAGGTGGACAGGTTTATATAATCCGAGATACATATGTTAAG
TTAACTCTACTGAATCCATGGGTCAAGAGATGTCCAAATGCAAGACATCCATCCGAGA
GGGCAGCCAAATCCAGTATATAAGGAACTTTTGTCTTTCAAGTGGCCCTATTTAGCTT
TCTGATGTGACTCATACTGTCTGTATAACAACGCAGCATGAAAAGAAAAGAGATG
ATAGGCTGGATTTCTTTAGGTCTCAACAGCTCTGGAGAAGAAGAACTCAATCACTGGACT
GAAATGAAAGAGTCAAAAGGACAGCAAGTATGTAGATGGCATGCGTTGCTAGAGTCA

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Restriction Sites: Please inquire

ACCN: NM_001146261

Insert Size: 5186 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_001146261.1](#), [NP_001139733.1](#)

RefSeq Size: 5186 bp

RefSeq ORF: 1860 bp

Locus ID: 255928

Cytogenetics: 1q32.2

Protein Families: Transmembrane

Gene Summary: This gene is a member of the synaptotagmin gene family and encodes a protein similar to other family members that mediate membrane trafficking in synaptic transmission. The encoded protein is a calcium-independent synaptotagmin. Mutations in this gene are a cause of autosomal recessive spinocerebellar ataxia-11 (SCAR11), and a t(1;3) translocation of this gene has been associated with neurodevelopmental abnormalities. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 4. [provided by RefSeq, Dec 2011]

Transcript Variant: This variant (1) encodes the longest isoform (1). **Sequence Note:** This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.