

Product datasheet for **SC327119**

Synaptotagmin 14 (SYT14) (NM_001146264) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptotagmin 14 (SYT14) (NM_001146264) Human Untagged Clone
Tag:	Tag Free
Symbol:	Synaptotagmin 14
Synonyms:	SCAR11; sytXIV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC327119 representing NM_001146264.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGCGAGCGCATCATGGCGATTGAAGGTGGAGAGAGAACCTGTGGAGTACATGAACTTATCTGTATTA
GAAAAGATAGGGTATTTCTCTGTGGCCAGGCTGGAGTACAGTGGCACCCTTTGGCTCACTGCAACTTC
CGCTCCTGGGTTCAAACGATTCTTCTGCCTCAGCATCCCAAGTAACTGGGACTACAGTATCTCCAGAG
GCAGTTGGATTTTGTACAGCTGTTGGGGTGTATTATCTTGATGCTGCTCCTTTTCTCTATATTAAT
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AGACAAAGGAAGTATGCTTGGGAAACAAGGCAGAAATACAGTCTCTATCGGCAGAGTATGATGGATAC
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GACAGTAAATGTGAATTTCCCACTGCAGCAACAGTCCAAGATGCTCATATAACAAGTGCCCAAGTGAA
GGAAGCACAGGTCATGAAATAGAAAGTTTTATATAAAGGATATGAAGAAGATGTTCCAAGTGACAGC
ACTGCAGTCTGAGCCCTGAAGATATGTACAGTCAAGGATCATCTTCGAGCTTCCTAAACCTTTTGAT
CCTGAGCCAGAAGCTAAATATGGCACACTGGATGTGACTTTTGACTATGACTCACAAGAACAGAAGCTT
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CAAATGAGCGTGTGAGAAATGTCGTGTAGTGAAAGTACATCCTCATGTGAGTCTCTTGAACATGGCTCA
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GGCAGCCACTTCAAAATTTGGCAGCAACAGACCACCAATACATATGTTAAGTTAACTCTACTGAAT
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GAACTCAATCACTGGACTGAAATGAAAGAGTCAAAGGACAGCAAGTATGTAGATGGCATGCGTTGCTA
GAGTCATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: Sgfl-MluI

ACCN: NM_001146264

Insert Size: 1803 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:	<u>NM_001146264.2</u>
RefSeq Size:	5129 bp
RefSeq ORF:	1803 bp
Locus ID:	255928
Cytogenetics:	1q32.2
Protein Families:	Transmembrane
MW:	67.2 kDa
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 (2) lacks an exon in the 3' coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (2) is shorter than 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.