

Product datasheet for **SC324101**

Synaptotagmin VI (SYT6) (NM_205848) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptotagmin VI (SYT6) (NM_205848) Human Untagged Clone
Tag:	Tag Free
Symbol:	SYT6
Synonyms:	sytVI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_205848.2
 TGGGGCCGTCGTGCCCCGCCAGTGCGGCCGGGGCGGGGTTTCGAGCTGCTGCTCGGCA
 AGCCTGGGTGTCTAGGGCATGAGCGGAGTGTGGGGGGCCGGCGGGCTCGGTGCCAGGAG
 GCGCTCGGGTCTCGCTCGTGTGCCGGGCCGGCCGCCCTCTCGGGCTGGACGTG
 GAGACTTGTGGAGCTTCGAGCTGCAGCCCCAGAGCGGAGTCCCAGCGGGCAGGCGCA
 GCTGTGCTGGATGCCCTGGAGGAACAAGGAGGCCTCCAGTCCCTTTCTGCTAATCCCC
 CTTGGAAGCCCTCCAGAGCCCCAGCTTCAGAGGCAACATGGCGGACAAGCTGAAGGACCC
 CAGCACCTGGGCTTCTGGAGGCGCCGTGAAGATCAGCCACACGTCCCCAGATATCCC
 AGCTGAGGTGCAGATGTCGGTCAAGGAGCACATCATGCGTCACACCCGGTGCAGCGCA
 AACTACAGAGCCAGCGTCATCCACCAGGCACACGTCTTCAAGCGCCACCTGCCAAGGCA
 GATGCATGTCTCCAGTGTAGACTATGGCAATGAGCTTCCACCAGCAGCAGAGCAGCCAC
 CAGCATTGGCCGCATCAAGCCTGAGCTCTACAAGCAGAAGTCGGTGGATGGGAGGATGC
 CAAGTCTGAGGCCACCAAGAGCTGCGGGAAGATCAACTTCAGCCTACGCTACGATTACGA
 GACCGAGACCCTGATTGTGCGTATCCTGAAGGCTTTTGACCTCCCTGCCAAGGACTTTTG
 TGAAGCTCTGACCTTATGTCAAGATCTACCTCTGCCTGACCGCAAATGCAAGCTGCA
 GACCCGGGTGCACCGCAAGACCCGAACCCACCTTTGATGAGAACTTCCACTTCCCTGT
 GCCCTATGAGGAGCTGGCTGACCGCAAGCTGCATCTCAGTGTCTTCGACTTTGACCGCTT
 CTCCCGCCATGACATGATTGGCGAGGTCATCCTGGACAACCTCTTTGAGGCCTCTGACCT
 GTCTCGGGAACCTCCATCTGGAAGGATATCCAATATGCCACAAGTAAAAGCGTGGACTT
 GGGAGAGATCATGTTCTCCCTTTGCTACCTGCCACTGCAGGCAGGCTCACCTCACAGT
 GATTAAGTGTGCGAACCTCAAGGCGATGGACATCACAGGCTATTAGATCCCTATGTGAA
 AGTGTCTTGTCTGTGATGGGCGGAGGCTGAAGAAGAAGAAAACAACCATAAAGAAAAA
 CACTCTCAATCCTGTCTACAATGAGGCCATCATTTTGACATTTCCCGGAAAACATGGA
 TCAAGTCAGCCTGCTCATCTCAGTCATGACTATGATCGAGTGGGCCACAATGAGATCAT
 AGGAGTCTGTCGTGGGGATCACTGCTGAAGGCTGGGCAAGGACCACTGGAACGAGAT
 GCTGGCATAACCCCGGAAGCCCATCGCACACTGGCACTCCTTGGTGGAGGTAAAGAAATC
 CTTCAAAGAGGAAAACCTCGGTTGTGATTTTATTACAGTGGATGCTGCAAGCAGAGAGA
 CTGCCACCTGGAGTTAGGATGGCAGGGCCGAGCTGCTAGCTTCGACAGTGAAGCTCGTG
 CCCATCTCGAAACCACCTCCAACACCATGAGATGTGCAGCCAAATAACACAAATGGGAC
 TCAGCAATGTTCTTTGCACTTGTCAACCGTCTAACAGTGTGTGTCAGTCCGAGTGG
 CGGCAGCAGCGCAGCCGTCCTGACTCCAGAGTCTTACCTGCTCCTGTGTAGGTCAAGG
 CTGAGACACTTGTATGTGGTCAAGATCTGTCTTAGTCTTTTGTGCTCCCAAGGTGATGT
 TTTTGTGGTTTTTCACTTTTATGGGTCTGCTGGTAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAA

Restriction Sites: ECoRI-NOT

ACCN: NM_205848

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_205848.2](#), [NP_995320.1](#)

RefSeq Size: 4370 bp

RefSeq ORF: 1278 bp

Locus ID: 148281

UniProt ID: [Q5T7P8](#)

Cytogenetics: 1p13.2

Protein Families: Secreted Protein, Transmembrane

Gene Summary: The protein encoded by this gene belongs to the synaptotagmin family. Synaptotagmins share a common domain structure that includes a transmembrane domain and a cytoplasmic region composed of 2 C2 domains, and are involved in calcium-dependent exocytosis of synaptic vesicles. This protein has been shown to be a key component of the secretory machinery involved in acrosomal exocytosis. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Dec 2011]
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 3. Variants 2 and 3 encode the same protein.