

Product datasheet for **SC309400**

Synaptotagmin VII (SYT7) (NM_004200) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptotagmin VII (SYT7) (NM_004200) Human Untagged Clone
Tag:	Tag Free
Symbol:	Synaptotagmin VII
Synonyms:	IPCA-7; IPCA7; PCANAP7; SYT-VII; SYTVII
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_004200 edited
 CTCTGGGAGCCCGGAGGGAAACCGGCGACGAGGGGACCATGTACCGGGACCCGGAGGCGGC
 CAGCCCAGGGGCGCCCTCGCGCGACGTCTGCTGGTCTCTGCCATCATCACCGTCAGCCT
 TAGCGTCACTGTCTGCTCTCTGCGGCTCTGCCACTGGTGTGAGCGCAAACGGGCAAACG
 CTACAAGAATTCCTTGGAGACGGTGGGCACGCCAGACTCAGGGCGTGGGCGCAGTGAGAA
 GAAGGCTATCAAGTTGCCTGCAGGAGGGAAGGCGGTGAACACAGCCCCGTGCCAGGCCA
 GACACCCACGATGAGTCCGACCGCCGACCCAGCCAGCTTCTCCGTCTCAGACCTCGT
 CAACTCCCTCACCAGCGAGATGCTCATGCTCTCCCAGGCTCCGAGGAGGATGAGGCCCA
 CGAGGGTTGCAGCCGAGAGAACCTGGGCGGATCCAGTTCAGTGTGCGCTACAACCTTCCA
 GGAGTCCACGCTCACCGTGAAGATCATGAAGGCCAGGAGCTGCCGGCCAAGGACTTCAG
 CGGCACCAGCGACCCCTTCGTAAGATCTACCTGCTGCCGACAAGAAGCACAAGCTGGA
 GACCAAGGTGAAGCGGAAGAACCTGAACCCCACTGGAACGAGACCTTCTCTTTGAAGG
 TTTTCCCTATGAGAAGGTGGTGCAGAGGATCCTCTACCTCCAAGTCTGGACTATGACCG
 CTTTCAGCCGAACGACCCATTGGGGAGGTGCCATCCCCCTTAAACAAGGTGGACCTGAC
 CCAGATGCAGACCTTCTGGAAGGATCTGAAGCCATGCAGCGATGGGAGTGGGAGCCGAGG
 GGAGCTGCTCTTGTCTCTGCTACAACCCCTCTGCCAATCCATCATCGTGAACATCAT
 CAAAGCCCGAACCTCAAAGCCATGGACATCGGGGGCACATCAGACCCCTACGTGAAGGT
 ATGGGTGATGTACAAGGACAAGCGGGTGGAGAAGAAGAAGACGGTACGATGAAGAGGAA
 CCTGAACCCCATCTTCAATGAGTCTTCGCTTCGATATCCCCACGGAGAAGCTGAGGGA
 GACGACCATCATCACTGTATGGACAAGGACAAGCTCAGCCGCAATGACGTCATCGG
 CAAGATCTACCTGTCTGGAAGAGCGGGCCAGGGGAGGTGAAGCACTGGAAGGACATGAT
 TGCCCGTCCCCGGCAGCCCGTGGCCAGTGGCACCAGTGAAGGCCTGAGTGGGGCCAAG
 GGAGGCCAGGGGCGGAGGGCCAGGTCCCATCATGCCCTCACCCTTTATGCACAAC
 GCCCGGCTGAGCCCTGCCATAGGGAGGGGAGGACCCCTGAGGGCTCAGCCAGGGAGGG
 GTCCCAGGACTCAACTGGCCCCGTTTCTAGGAAGTACCAGCCCATCCCCACAGTCCA
 GCTCCGGGAAGGGGCTCTGGGAGGCATTTTCTGCTTTGCCCTTTTCTTCTGACTTA
 CTAATACTAAAGAAGTTGGGGAGCTCGAGAGCCAGACGGCCAGACAGGCAGACCCTCC
 AGAGGCCCGCCAGGTGGGCATGGTCCCCATTTTCTTTAAGGCAGCACCTGGAGTGGAGA
 GAGGCCACTCCCTCTCCAGCCCCGATGTGGACCCGGGGAGGGGAGGCTGAGGCGTTTGG
 CCCCAGGCTGGCCAGGAGAGGCCATCCCCAGGGCAGTTTCAAGTCCCGGCTGGGCCCTG
 AATGTCGAGGATAGTATATAGCCCGCTCCTGGGTCTGGAGCTGTGGCCCTTTGACTCG
 TAAA
 AAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_004200 unedited
 CCACAAGACCCCNCCCCCTTCCCCCGGTTCAAATTTGTATACTCATATAG
 CGGGCCGCGNATATCGCACCGTCTGNAGGAGCCGCGNAGNAACCGGCGACGAGGGGA
 CCATGTACCGGGACCCGCGNAGCGCCAGCCAGGGCGCCCTCGCGCGACGTCTGCTGGT
 CTCTGCCATCATCACCGTCAGCCTTAGCGTCACTGTCGTCTCTGCGGCTCTGCCACTG
 GTGTCAGCGCAAACCTGGGCAAACGCTACAAGAATTCCTTGGAGACGGTGGGCACGCCAGA
 CTCAGGGCGTGGGCGCAGTGAGAAGAAGGCTATCAAGTTGCCTGCAGGAGGGAAGGCGGT
 GAACACAGCCCCGTGCCAGGCCAGACACCCACGATGAGTCCGACCGCCGACCGAGCC
 ACGTTCCTCCGTCTCAGACCTCGTCAACTCCCTCACCAGCGAGATGCTCATGCTCTCCC
 AGGCTCCGAGGAGGATGAGGCCACGAGGGTGCAGCCGAGAGAACCTGGGCCGATCCA
 GTTCAGTGTGCGCTACAACCTCCAGGAGTCCACGCTCACCGTGAAGATCATGAAGGCCCA
 GGAGCTGCCGGCAAGGACTTACGCGGCCAGCGACCCCTTCGTCAGATCTACCTGCT
 GCCCGACAAGAGCACAAGCTGGAGACCAAGGTGAAGCGGAAGAACCTGAACCCCACTGG
 AACGAGACCTTCTCTNTGAAGGGTNTCCCTATGAAAGGGTGGTGCANGAGATCCTCTAC
 CTNCAAGTCTGGACTATGACCGCTTACGCCGCAACGACCCCACTGGGGAGGTGCCATC
 CCCCCTTACCAAGGTGGACCTGACCCAGAGCAGACCTTCTGGAAGGATCTGAACCATGCA
 CCGATGGGAGTGGGAGCCGAGGGGAGCCGTCTGGNNTCTCTGCTAACACCCCTTTGCCA
 CTCCTCATNGG

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_004200 unedited GGACTAACTATGGACCGTAGCCCCCATCTANGATCGAGTTTAAAACCCCTTTTTTTTTTT TTTAA AAACAAAGGGCCACAGTTCAGGACCCAAGAGCGGGCTTTTTCTTTCCTCAAAATTTAG GGCCACCCGGCCCTGAAAACGCCCAGGGGATGGGCCTTCTGGCCAGGCCGGGGCC AAAACCTTAACCTCCCCTCCCCGGTCCAAATTGGGGGCTGGAAAAGGAATGGCCCTC TCCACTCCAGGGGCTGCCTTAAAAAAAATGGGGGACCATGCCCCCTGGGGGGCCTTGG AGGGGTTTGCCTGTTTGGCCCTTTGGCTTTTAAACCCCAATTTTTTTATTTTAATA AGTCAGGAAAAAAGGGGCAAAACAGGAAAATGCCTCCAAAACCCCTCCCGGAACTG GACTGGGGGGATGGGGCTGGTACTTCTAAAAACGGGGCCATTTGAGTCCTGGGACCC CTCCCTGGGTGAACCTCAGGGGCCCCCTCCCTATGGGAGGGGGCTCAAGCCGGGCGT TGTGCATAAAGTGGGAGGGCATGATGGGGACCTGGGCCCTCGGCCCTGGGCCTCCCT TGGCCCCATTTAAGCCTTAATTGGGGCCACTGGGCCACGGGCTCCGGGGACAGGCAAT CATGTCTTCCAAGGTTAACCTCCCCTGGGCCGTTTTTCAGGAAGGTAGATCTTGCCG ATAAACTCATTGGGGCTGAACCTTGGCCTTGCCATGAAAAGGATGAATGATGGCCGCCTC CCTCACCTTCTCCGGGGATATCCAAGCGAAGGACTCTTGAAAAGGC
Restriction Sites:	NotI-NotI
ACCN:	NM_004200
Insert Size:	1900 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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<u>NM_004200.2</u> , <u>NP_004191.2</u>
RefSeq Size:	4609 bp
RefSeq ORF:	1212 bp
Locus ID:	9066
UniProt ID:	<u>O43581</u>
Cytogenetics:	11q12.2

Protein Families: Secreted Protein, Transmembrane

Gene Summary: 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. A similar protein in rodents mediates hormone secretion and lysosome exocytosis. In humans, expression of this gene has been associated with prostate cancer. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Oct 2011]

Transcript Variant: This variant (2) lacks an exon in the 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.