

Product datasheet for SC118116

Synaptotagmin V (SYT5) (NM_003180) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptotagmin V (SYT5) (NM_003180) Human Untagged Clone
Tag:	Tag Free
Symbol:	Synaptotagmin V
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118116 sequence for NM_003180 edited (data generated by NextGen Sequencing)

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ATGTTCCCGGAGCCCCAACCCCGGGCCTCCATCGCCCGACACGCTCCCGACTCCAGT
CGCATCAGCCACGGCCCAAGTGCCTCCCTGGGCCCTGGCCACCATCGTGCTGGTCTCAGGC
CTCCTCATCTTACAGCTGTGTTTCTGTCTCTACCGGAAGAGCTGTCGGAGGCGGACAGGC
AAGAAGAGCCAGGCCAAGCCCAGGTCCACCTTCAGGAAGTGAAGGGGCTGGGCCAGAGT
TACATAGACAAGGTGCAGCCAGAAGTAGAGGAGCTGGAGCCAGCACCATCCGGGCCAGGG
CAGCAGGTGGCAGACAAGCATGAGCTAGGACGACTGCAGTACTCCCTGGATTATGACTTC
CAGAGTGGCCAGCTGCTGGTGGGCATTCTGCAAGCAATGGGATTGGCAGCCTTGGATCTT
GGTGGCTCCTCGGACCCCTATGTGCGGGTCTACCTGCTGCCGGACAAACGGAGGCGGTAC
GAGACCAAGGTGCATCGGCAGACGCTGAACCCTCACTTTGGGGAGACCTTCGCCTTCAAG
GTCCCCTACGTGGAGCTGGGGGGCAGGGTCTGGTTCATGGCGGTGTACGACTTCGACCCG
TTCTCTCGCAATGACGCCATCGGGGAGGTGCGGGTCCCTATGAGCTCCGTGGACCTGGGG
CGGCCAGTGCAGGCCTGGCGGGAGCTGCAGGCGGCTCCGCGGGAGGAGCAGGAGAAGCTT
GGGGACATCTGCTTCTCCCTCCGCTATGTCCCCACGGCCGGGAAGCTCACCGTCAATCGTC
CTGGAGGCTAAAAACCTGAAGAAGATGGACGTAGGAGGACTGTCAGATCCATACGTCAG
GTCCACCTGCTGCAGGGCGGCAAAAAGGTGCGGAAGAAGAAAACCACCATCAAGAAGAAC
ACTCTGAACCCCTATTACAACGAAGCTTTCAGCTTCGAGGTGCCCTGTGACCAAGTCCAG
AAGGTGCAGGTGGAGCTGACCGTCTGGACTACGACAAGCTGGGCAAGAACGAGGCCATC
GGGAGGGTGGCCGTGGGGGCGGCCGCGCGGGGCTGGCCTGCGGCACTGGGCGGACATG
CTGGCCAACCCGCGGCGGCCATTGCCAGTGGCACTCGCTGCGGCCCGGACCGAGTG
AGGCTGCTGCCTGCGCCCTGA

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Clone variation with respect to NM_003180.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003180 unedited
 GTATACGACTCACTATAGCGGCACGCGAATTCGCACGAGGGCCCGCAGCAGGGTGCTT
 GAGTGTCTCTGCAGAAAAGACTCCAGGACCCCGCCACCATGTTCCCGGAGCCCCAACCC
 CGGGGCCCTCCATCGCCGACACGCTCCCGACTCCAGTCGCATCAGCCACGGCCAGTGC
 CCCCTGGGCCCTGGCCACCATCGTGTGGTCTCAGGCCCTCTCATCTTCAGTGTCTGTT
 TCTGTCTCTACCGGAAGAGCTGTCGGAGCGGACAGGCAAGAAGGCCAGGCCAAGCCC
 AAGTCCACCTTCAGGAAGTGAAGGGGCTGGCCAGAGTTACATAGACAAGGTGCAGCCAG
 AAGTAGAGGAGCTGGAGCCAGCACCATCCGGGCCAGGGCAGCAGGTGGCAGACAAGCATG
 AGCTAGGACGACTGCAGTACTCCCTGGATTATGACTTCCAGAGTGGCCAGCTGCTGGTGG
 GCATTCTGCAAGCAATGGGATTGGCAGCCTTGGATCTTGGTGGCTCCTCGGACCCCTATG
 TGGCGGTCTACCTGCTGCCGACAAACGGAGGCGGTACGAGACCAAGGTGCATCGGCAGA
 CGCTGAACCTCACTTTGGGGAGACCTTCGCTTCAAGTCCCCTACGTGGAGCTGGGGG
 GCAGGGTGTGGTGTGCGGGTGTACGACTTCGACCGCTTCTCTCGCAATGACGCCATCG
 GAGAAGTGCGGTCCCTATGAGCTNCGTGGACCTGNGGCGGNAGTGCANGCCTGCCAGG
 AGCTGCAAGCGGCTCCGACGGAAGAGGAGAAGCTNNGGACATCTGCTTCTNCCCTCCG
 TATGTCCACGGNCGGGAGCTCACCGTATCGTCTGGAAGCTAAAAACCTGAGA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003180 unedited
 ATGGACCGCGCGGCAATCTAGAGTCGAGACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTAACCGGAGCTGCTGAATATTAATTGGGCCCAAAAGCAGGGCAGGGATGGGCTGTGT
 TGGAAAAAAGAGGAAAGCAAACGAGCTATGGCTGATTGTCAAAGCAGGGGCAGCACCCG
 GGGGCAGGAAAAACCAGGCTGCCTTCCCTTCCCGGGTCCCTGGGGCATCTGGGTGTGTC
 CGCGAGGGTCGGGGGAGTGTGCTGGAAAGTTGCCGTGATTGGCATCGTTGGGGTGAAAA
 AACATGGAATGGTTCAAATGGTTGGGTTGGGAGGGGGGGGAGGGTAACCGCCAAAGGAA
 GTTAAAGGGGGGCTGGCTTGGTTTTTGCCGGTCTCGGGAGTCTGGGGTCAGGGGCTAA
 AGTCCAGGCTTGCCCGGGGCTCGGGGCGGAGTAAGGGCCAGGCACAACCCTAACTCG
 GTCCGGGGGCCGAGCGAGTGCCACTGGGCACTGGGCCGCGCCCTTTGCCAATTATGTC
 CGTCAGCGGCCGAACTCAACCCGCGGGGGGCGCCCAAGCCCCCTCCCGAGGACTTGT
 CCTGCCACCTTGCTAATCCCACCGTCACCCCCACTGACTTCTGTCCCCGCCCCAGGC
 TCCTCTACCCCAACCTTCCCCCACTGGTCTACCCACCCACTTCCGTTCTGCCCTCC
 TCCCCCCTCCCGCCATCCTCTGCCATTTTTCCCTCCTTTTCCCCCCCCCTCCCC
 CTTATCCACATTCTCTATTTTCGCCCTTCCCTTCTCCCCCTCCCCCGCCTTTCCTC
 TTTCCCCCTCCCCCTTCCCTACTCTCCCCCTTACCCCTCTTCGCCACCCCTATC
 TCCCGCCTTCTACTCCCCCTCTCCCATCCCACCCCAATTCCN

Restriction Sites:

NotI-NotI

ACCN:

NM_003180

Insert Size:

1840 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).

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_003180.1 , NP_003171.1
RefSeq Size:	2052 bp
RefSeq ORF:	1161 bp
Locus ID:	6861
UniProt ID:	O00445
Cytogenetics:	11p
Domains:	C2
Protein Families:	Secreted Protein, Transmembrane
Gene Summary:	<p>Synaptotagmins, such as SYT5, are a family of type III membrane proteins characterized by cytoplasmic repeats related to protein kinase C (see MIM 176960) regulatory (C2) domains, which are thought to bind calcium. Synaptotagmins may act both as negative regulators of vesicle fusion, allowing fusion in the presence of calcium, and as calcium receptors or sensor molecules (summary by Hudson and Birnbaum, 1995 [PubMed 7597049]).[supplied by OMIM, Feb 2011]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>