

Product datasheet for SC116605

Synaptotagmin 1 (SYT1) (NM_005639) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptotagmin 1 (SYT1) (NM_005639) Human Untagged Clone
Tag:	Tag Free
Symbol:	Synaptotagmin 1
Synonyms:	BAGOS; P65; SVP65; SYT
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116605 sequence for NM_005639 edited (data generated by NextGen Sequencing)

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ATGGTGAGCGAGAGTCACCATGAGGCCCTGGCAGCCCCGCTGTCAACACTGTGCGGACT
GTTCTGCCAAGCAATGCCACAGAGCCAGCCAGTCCTGGAGAAGGAAAGGAAGATGCATTT
TCTAAGCTGAAGGAGAAGTTTATGAATGAGTTGCATAAAATTCCATTGCCACCGTGGCC
TTAATTGCAATAGCCATAGTCGCGAGTCCTTTTAGTCCTGACCTGCTGCTTTTGTATCTGT
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GAGAAACTGGGAAAACCTCAGTATTCAGTGGATTATGATTTCCAAAATAACCAGCTGCTG
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TACGTGAAAGTGTCTGCTACCTGATAAGAAGAAGAAATTTGAGACAAAAGTCCACCGA
AAAACCCCTAATCCTGTCTTCAATGAGCAATTTACTTTCAAGGTACCATACTCGGAATTG
GGTGGCAAAACCCTAGTGATGGCTGTATATGATTTTGATCGTTTCTTAAGCATGACATC
ATTGGAGAATTTAAAGTCCCTATGAACACAGTGGATTTTGGCCATGTAAGTGAAGAAATGG
CGTGACCTGCAAAGTGTGAGAAGGAAGAGCAAGAGAAATTTGGGTGATATCTGCTCTCC
CTTCGCTACGTACCTACTGCTGGTAAGCTGACTGTTGTCATTCTGGAGGCAAGAACCTG
AAGAAGATGGATGTGGTGGCTTATCCGATCCTTATGTGAAGATTCATCTGATGCAGAAT
GGTAAGAGGCTGAAGAAGAAAAAGACAACAATTTAAAAAGAACACACTTAACCCCTACTAC
AATGAGTCATTCAGCTTTGAAGTACCTTTTGAACAAATCCAGAAAAGTGCAGGTGGTGGTA
ACTGTTTTGGACTATGACAAGATTGGCAAGAACGATGCCATCGGCAAAAGTCTTTGTGGGC
TACAACAGCACCGGCGGGAGCTGCGACTGGTCAAGATGCTGGCAACCCAGGCGA
CCTATTGCCAGTGGCACACCCTGCAGGTAGAGGAGGAAGTTGATGCCATGCTGGCCGTC
AAGAAGTAA

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Clone variation with respect to NM_005639.2
75 c=>t



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005639 unedited</p> <pre>GTATGATTTGTAACCGACTTCTATAGGCGGCCGCGAAATTCGCACGAGGCCGGCACCACC TCCCGGTCCGCCCTCCAGGGNAAAACGGNAAAAGTAGCAAGAGCTAGCAAGAACTAGCA AGAGCTTGAACAAACGCCTGGACTCAGATTGGAAGACTGCTCATTTGTCTACTGCCTCAT TCCTGGAAATTGCACTGGAAGTGTCTGATTATAGAAAAACAGAATAATTCTGAAAGAAAG AAAACAAAGAAAAACATACTCCAGAATTCCTAATAAGAACACTTCACCTGAACCTAAAATG GTGAGCGAGAGTCACCATGAGGCCCTGGCAGCCCCGCCGTGCACCACTGTCGCGACTGTT CTGCCAAGCAATGCCACAGAGCCAGCCAGTCTGGAGAAGGAAAGGAAGATGCATTTTCT AAGCTGAAGGAGAAGTTTATGAATGAGTTGCATAAAATTCATTGCCACCGTGGGCCTTA ATTGCAATAGCCATAGTCGCAGTCTTTTATGCTCCTGACCTGCTGCTTTTGTATCTGTAAG AAATGTTTGTTCAAAAAGAAAAACAAGAAGAAGGGAAAGGAAAAAGGAGGGGAAGAATGCC ATTAACATGAAAGATGTAAGACTTANGGAAGACGATGAAAGATCANGCCCTCAAGGAT GATGATGCTGAACTGGATTGACAGATGGAGAANAANAAGAAGACCCCAAGNNAGAGAG AAACTGGGAAAACTCAGTATTCCTGGATTATGATTTCCAAAATAACCAGCTGCTGTTAG GGATCATTGANGCTGCCGAAGTCCCGCCTTGGCATGGNGGGGCACATCTGATTCTTACG TGAAAAGTTTCTGCTACCTGATTAGAAGAAGAAAATTGAGACAAAAGTCCACCGAAAAC CCTTAATCTGTCTTCATGAGCAATTTACTTTAAG</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005639 unedited</p> <pre>TGATGGGATACAANNACTGGTNNCTNGTNTNNTNACCACAAGAGTAATTTTGTGTA TAAGCACAGATTGTTGTGTTAAAAATATCCTGCATTCCTTCTAACCTGGTTTTATAATTA ATAAAATATTTTGTACAACTCTAATGTCAAACCTTTTGGGAATTATTGTANGTGTG ATAAAAAATTTTCTTTTGAACAGAAATTTACCAGGATGTACATTTTNNNTNTNGNTTA TAAAGGTGAATATNNNTGGGGGGGAGGACCTACTTTNNNNNNNNNCCCCCTTTTTTT TTTTTNNAAAAAAGCCCGGCCAATTTTCTATAAAGGTTAACTTTTTCCCCCTAAACT TTTTTTCCCCATCCCAAAAAAATGGCCCAANANAANAANAAANAAACCCNNAC ACCNCCGGAAACCTTTGGGGTTTTTCTTTTGGCCGAAATTTGAAAATTTGCCCCCG TGTAAGGGCTTTCTCAATTAAGGGACCCCTTTTAACTTTGGAAAAATTTGC CCCAACAGGGCTATTTTGGTTTTGGGGCTTCTTCTTGAGGGCAACCTGATGCCGT GCTAAAAAATGCTTTTTGCCTGGGAGGGAATTCACAAAATTTGGATTTCCCCCGAGTTG GGGGGAAGTTAATCTTGACTCAAATGAATCAATAAAGCCTAGGTTTAATTGCCCTTA AAATTGCAATTAACCGCCTTAGGCCTACCAAGTGGATATTTTTGCTGGAAGCCAACAAC TTTTTCCCGTATAATTTTATTACCTTCTTTTCTTAAGCATTTACTAGGTAAAAAATA ATTTTTTTAAACCTTTTATATCCCTTTTGGAAACCCCTTCCATTCCATTCCCACACC TAAAAAATTTTCCCGGTTAACCCAGGGGGACCACAAAAAATTTCTTTGGCCTCT TCCACCCATATTGTAATAAAAAAATTTTGGGGCCCGGTTATAAGAAT</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_005639
Insert Size:	2770 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:

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_005639.1](#), [NP_005630.1](#)

RefSeq Size: 3244 bp

RefSeq ORF: 1269 bp

Locus ID: 6857

UniProt ID: [P21579](#)

Cytogenetics: 12q21.2

Domains: C2

Protein Families: Secreted Protein, Transmembrane

Gene Summary: The synaptotagmins are integral membrane proteins of synaptic vesicles thought to serve as Ca(2+) sensors in the process of vesicular trafficking and exocytosis. Calcium binding to synaptotagmin-1 participates in triggering neurotransmitter release at the synapse (Fernandez-Chacon et al., 2001 [PubMed 11242035]).[supplied by OMIM, Jul 2010]
Transcript Variant: This variant (1) encodes isoform 1. Variants 1, 2, and 3 encode the same isoform (1).