

## Product datasheet for **RC238116**

### Synaptotagmin 1 (SYT1) (NM\_001291901) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptotagmin 1 (SYT1) (NM_001291901) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SYT1
Synonyms:	BAGOS; P65; SVP65; SYT
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC238116 representing NM_001291901 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGTGAGCGAGAGTCACCATGAGGCCCTGGCAGCCCCGCTGTCACCACTGTCGCGACTGTTCTGCCAA  
GCAACGCCACAGAGCCAGCCAGTCCTGGAGAAGGAAAGGAAAGATGCATTTTCTAAGCTGAAGGAGAAGTT  
TATGAATGAGTTGCATAAAATCCATTGCCACCGTGGCCTTAATTGCAATAGCCATAGTCGCAGTCCTT  
TTAGTCCTGACCTGCTGCTTTTGTATCTGTAAAGAAATGTTTGTCAAAAAGAAAAACAAGAAGAAGGGAA  
AGGAAAAAGGAGGGAAGAAATGCCATTAACATGAAAGATGTAAGAACTTAGGGAAGACGATGAAAGATCA  
GGATGATGATGCTGAAACTGGATTGACAGATGGAGAAGAAAAAGAAGAACCCAAAGAAGAGGAGAAACTG  
GGAAAACCTTCAGTATTCCTGGATTATGATTTCCAAAAAACCAGCTGCTGGTAGGGATCATTACAGGCTG  
CCGAACGCCCGCCTGGACATGGGGGGCACAATCTGATCCTTACGTGAAAGTGTCTGCTACCTGATAA  
GAAGAAGAAATTTGAGACAAAAGTCCACCGAAAAACCTTAATCCTGTCTCAATGAGCAATTTACTTTT  
AAGGTACCATACTCGAATTGGGTGGCAAAACCCTAGTGATGGCTGTATATGATTTTGTATGCTTTCTCTA  
AGCATGACATCATTGGAGAATTTAAAGTCCCTATGAACACAGTGGATTTTGGCCATGTAACCTGAGGAATG  
GCGTGACCTGCAAAGTCTGAGAAGGAAGAGCAAGAGAAATTTGGGTGATATCTGCTTCTCCCTTCGCTAC  
GTACCTACTGCTGGTAAGCTGACTGTTGTCTATTCTGGAGGCAAAGAACCTGAAGAAGATGGATGTGGGTG  
GCTTATCCGATCCTTATGTGAAGATTCATCTGATGCAGAAATGGTAAGAGGCTGAAGAAGAAAAAGACAAC  
AATTAAGAAGAACACTTAACCCCTACTACAATGAGTCATTCAGCTTTGAAGTACCTTTTGAACAAATC  
CAGAAAGTGCAGGTGGTGGTAACTGTTTGGACTATGACAAGATTGGCAAGAACGATGCCATCGGCAAAG  
TCTTTGTGGGCTACAACAGCACCGGCGCGAGCTGCGCACTGGTCAGACATGCTGGCAACCCAGGCG  
ACCTATTGCCAGTGGCACACCCTGCAGGTAGAGGAGGAAGTTGATGCCATGCTGGCCGTCAGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC238116 representing NM\_001291901  
 Red=Cloning site Green=Tags(s)

MVSESHHEALAAPPVTTVATVLPNSATEPASPGEKEDAFSKLKEKFMNELHKIPLPPWALIAIAIVAVL  
 LVL TCCFCICKKCLFKKNKKGKEKGGKNAINMKDVKDLGKTMKDQDDAETGLTDGEEKEEPKEEEKL  
 GKLYSLDYDFQNNQLLVGIIQAAELPALDMGGTSDPYVKVFLLPDKKKKFETKVHRKTLNPFVNEQFTF  
 KVPYSELGGKTLVMAVYDFDRFSKHDIIIGEFKVPMTNTVDFGHVTEEWRDLQSAEKEEQEKLGDICFSLRY  
 VPTAGKLTVVILEAKNLKMDVGLSDPYVKIHLMQNGKRLKKKTTIKKNTLNPYYNESFSFEVPEFQI  
 QKVQVVVTVLDYDKIGKNDIAIGKVFVGYNSTGAELRHWSMLANPRRPIAQWHTLQVEEEDAMLAVKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

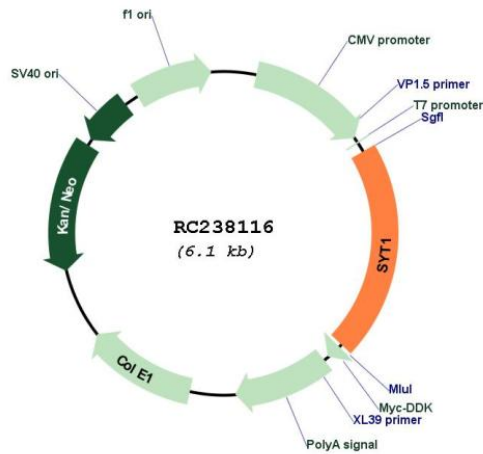
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001291901

<b>ORF Size:</b>	1257 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001291901.2</a>
<b>RefSeq Size:</b>	4752 bp
<b>RefSeq ORF:</b>	1260 bp
<b>Locus ID:</b>	6857
<b>Cytogenetics:</b>	12q21.2
<b>Protein Families:</b>	Secreted Protein, Transmembrane
<b>MW:</b>	47.7 kDa
<b>Gene Summary:</b>	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]