

## Product datasheet for **RG208938**

### Synaptotagmin 1 (SYT1) (NM\_005639) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptotagmin 1 (SYT1) (NM_005639) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Synaptotagmin 1
Synonyms:	BAGOS; P65; SVP65; SYT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208938 representing NM_005639 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGAGCGAGAGTCACCATGAGGCCCTGGCAGCCCCGCTGTCACTGTGCGGACTGTTCTGCCAA  
GCAATGCCACAGAGCCAGCCAGTCTGGAGAAGGAAAGGAAGATGCATTTTCTAAGCTGAAGGAGAAGTT  
TATGAATGAGTTGCATAAAATCCATTGCCACCGTGGGCTTAATTGCAATAGCCATAGTCGCAGTCCTT  
TTAGTCCTGACCTGCTGCTTTTGTATCTGTAAGAAATGTTTGTCAAAAAGAAAAACAAGAAGAAGGAA  
AGGAAAAAGGAGGAAGAATGCCATTAACATGAAAGATGTAAGACTTAGGGAAGACGATGAAAGATCA  
GGCCCTCAAGGATGATGCTGAAACTGGATTGACAGATGGAGAAGAAAAAGAAGAACCCAAAGAAGAG  
GAGAAACTGGGAAAACCTCAGTATTCAGTATTGATGATTTCAAAATAACCAGCTGCTGGTAGGGATCA  
TTCAGGCTGCCGAACTGCCCGCCTTGGACATGGGGGCACATCTGATCCTTACGTGAAAGTGTCTGCT  
ACCTGATAAGAAGAAGAAATTTGAGACAAAAGTCCACCGAAAAACCCCTAATCCTGTCTTCAATGAGCAA  
TTTACTTTCAAGGTACCATACTCGGAATTTGGTGGCAAAACCCCTAGTGATGGCTGTATATGATTTTGATC  
GTTTCTCTAAGCATGACATCATTGGAGAATTTAAAGTCCCTATGAACACAGTGGATTTTGGCCATGTAAC  
TGAGGAATGGCGTGACCTGCAAAGTCTGAGAAGGAAGCAAGAGAAATTTGGTGATATCTGCTTCTCC  
CTTCGCTACGTACCTACTGCTGGTAAGCTGACTGTTGTCTGAGGCAAGAACCTGAAGAAGATGG  
ATGTGGGTGGCTTATCCGATCCTTATGTGAAGATTCATCTGATGCAGAATGGTAAGAGGCTGAAGAAGAA  
AAAGACAACAATTTAAAAAGAACACACTTAACCCCTACTACAATGAGTCATTCAGCTTTGAAGTACCTTTT  
GAACAAATCCAGAAAGTGCAGGTGGTGGTAACTGTTTGGACTATGACAAGATTGGCAAGACGATGCCA  
TCGGCAAAGTCTTTGTGGCTACAACAGCACCGGCGGGAGCTGCGACTGGTCAGACATGCTGGCCAA  
CCCCAGGCGACCTATTGCCAGTGGCACACCCTGCAGGTAGAGGAGGAAGTTGATGCCATGCTGGCCGTC  
AAGAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)



**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](#)

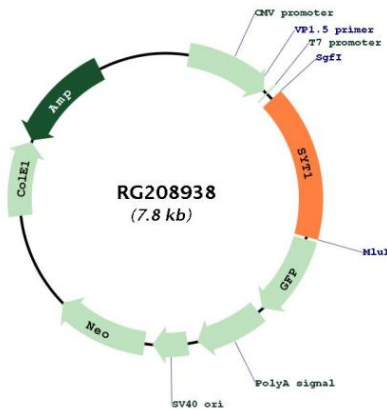
**Cytogenetics:** 12q21.2

**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]

**Product images:**



Circular map for RG208938