

Product datasheet for SC336010

Synaptotagmin 1 (SYT1) (NM_001291901) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptotagmin 1 (SYT1) (NM_001291901) Human Untagged Clone
Tag:	Tag Free
Symbol:	SYT1
Synonyms:	BAGOS; P65; SVP65; SYT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC336010 representing NM_001291901. Blue=Insert sequence Red=Cloning site Green=Tag(s)

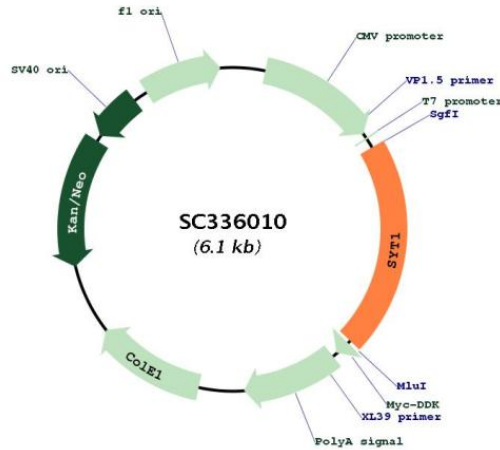
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GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGT GAGCGAGAGT CACCATGAGGCCCTGGCAGCCCGCCTGT CACCACTGTGCGGACTGTTCTGCCA
AGCAACGCCACAGAGCCAGCCAGTCTGGAGAAGGAAAGGAAGATGCATTTTCTAAGCTGAAGGAGAAG
TTTATGAATGAGTTGCATAAAATTCATTGCCACCGTGGCCTTAATTGCAATAGCCATAGTCGCAGTC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-MluI

Plasmid Map:



ACCN: NM_001291901

Insert Size: 1260 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_001291901.1](#)

RefSeq Size: 4752 bp

RefSeq ORF: 1260 bp

Locus ID: 6857

Cytogenetics: 12q21.2

Protein Families: Secreted Protein, Transmembrane

MW: 47.3 kDa

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 (4) differs in the 5' UTR and uses an alternate in-frame splice site in the central coding region 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.