

Product datasheet for SC325080

Synaptotagmin 1 (SYT1) (NM_001135805) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptotagmin 1 (SYT1) (NM_001135805) 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:	>SC325080 representing NM_001135805. Blue=Insert sequence Red=Cloning site Green=Tag(s)

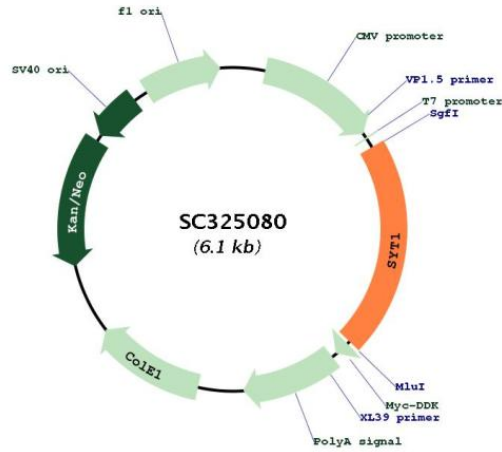
```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGTGAGCGAGAGTCCCATGAGGCCCTGGCAGCCCGCCTGTCACTGTGCGGACTGTTCTGCCA
AGCAACGCCACAGAGCCAGCCAGTCTGGAGAAGGAAAGGAAGATGCATTTTCTAAGCTGAAGGAGAAG
TTTATGAATGAGTTGCATAAAATTCATTGCCACCGTGGCCTTAATTGCAATAGCCATAGTCGCAGTC
CTTTTAGTCTGACCTGCTGCTTTTGTATCTGTAAGAAATGTTTGTTCAAAAAGAAAAACAAGAAGAAG
GGAAAGGAAAAAGGAGGGAAGAATGCCATTAACATGAAAGATGTAAGAACTTAGGAAGACGATGAAA
GATCAGGCCCTCAAGGATGATGATGCTGAAACTGGATTGACAGATGGAGAAGAAAAAGAAGAACCCAAA
GAAGAGGAGAAACTGGGAAACTTCAGTATTCAGTGGATTATGATTTCCAAAATAACCAGCTGCTGGTA
GGGATCATTACAGGCTGCCGAACCTGCCCGCCTTGGACATGGGGGGCACATCTGATCCTTACGTGAAAGTG
TTTCTGTACTGATAAGAAGAAGAAATTTGAGACAAAAGTCCACCGAAAAACCCCTAATCCTGTCTTC
AATGAGCAATTTACTTTCAAGGTACCATACTCGGAATTTGGGTGGCAAAACCCCTAGTGATGGCTGTATAT
GATTTTGTATCGTTTCTCTAAGCATGACATCATTGGAGAATTTAAAGTCCCTATGAACACAGTGGATTTT
GGCCATGTAAGTGAAGATGGCGTGACCTGCAAGTGTGAGAAGGAAGAGCAAGAGAAATTTGGGTGAT
ATCTGCTTCTCCCTTCGCTACGTACCTACTGCTGGTAAGCTGACTGTTGTCATTCTGGAGGCAAGAAGC
CTGAAGAAGATGGATGTGGGTGGCTTATCCGATCCTTATGTGAAGATTCATCTGATGCAGAAATGGTAAG
AGGCTGAAGAAGAAAAAGACAACAATTAAGAAAGAACACACTTAACCCCTACTACAATGAGTCAATTCAGC
TTTGAAGTACCTTTTGAACAAATCCAGAAAGTGCAGGTGGTGGTAACTGTTTTGGACTATGACAAGATT
GGCAAGAACGATGCCATCGGCAAGTCTTTGTGGGCTACAACAGCACCGGCGCGGAGCTGCGACACTGG
TCAGACATGCTGGCAACCCAGGCGACCTATTGCCAGTGGCACACCCTGCAGGTAGAGGAGGAAGTT
GATGCCATGCTGGCCGTCAAGAAGTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```



[View online »](#)

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001135805

Insert Size: 1269 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001135805.1](#)

RefSeq Size: 4841 bp

RefSeq ORF: 1269 bp

Locus ID: 6857

UniProt ID:	P21579
Cytogenetics:	12q21.2
Protein Families:	Secreted Protein, Transmembrane
MW:	47.6 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2, and 3 encode the same isoform (1).</p>