

## Product datasheet for **MC206770**

### Syt1 (BC042519) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Syt1 (BC042519) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Syt1
Synonyms:	AW124717; G630098F17Rik; Syt1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC042519

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GGGGACCAAGACTCGCACCATCTCCCGGTCGGTCCCTCGCTCCAGGAAAAGAAGACTTTGGCGCGCTCGAA
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TTTCCTAATCTGTGATATCTAGATGTTTTTAATAAGATGTTCTATTTTAACTATGTAATTGACTGAG
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TCCATCCAGCAAACTCTCAGAATTAGAACAGATGCAGAGGACAAGGAGAAAATCCTTTCTGTGGACG
AACAGCACATTTTCAACATTAACCACAGATGATAGGAAAGGCACACTCATAGGTGAGATTAACAGGA
GACTCAAATGAGGGGCTTCTACTTAAGGACCAAGTCTACCAAGAGAAGGAGTTGACTTTAAAAA AAAAAAAA

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**Restriction Sites:**

RsrII-NotI

**ACCN:**

BC042519

**Insert Size:**

1266 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:**
[BC042519](#), [AAH42519](#)

RefSeq Size: 3789 bp

RefSeq ORF: 1266 bp

Locus ID: 20979

Cytogenetics: 10 56.52 cM

**Gene Summary:** Calcium sensor that participates in triggering neurotransmitter release at the synapse (PubMed:11242035). May have a regulatory role in the membrane interactions during trafficking of synaptic vesicles at the active zone of the synapse (PubMed:7961887). It binds acidic phospholipids with a specificity that requires the presence of both an acidic head group and a diacyl backbone. A Ca(2+)-dependent interaction between synaptotagmin and putative receptors for activated protein kinase C has also been reported. It can bind to at least three additional proteins in a Ca(2+)-independent manner; these are neurexins, syntaxin and AP2. Plays a role in dendrite formation by melanocytes (By similarity).[UniProtKB/Swiss-Prot Function]