

## Product datasheet for **RN204869**

### Syt3 (NM\_019122) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Syt3 (NM_019122) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Syt3
Synonyms:	SIII
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN204869 representing NM\_019122  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCTGGGGACTACGAAGATGACCTCTGTGCGGGCCCTCATCTGGTTTCAGACCTCTGTGCACGGA  
 TCCGAGATGCTGATACCAATGACAGGTGTCAAGAGTTCAACGAAGTCAAGTCAAGAGGATATCCCCGGGG  
 TCCGGATGCAGACATTTCCGTGAGCCTGCTGTGAGTATCGTGACGTTCTGTGGCATCGTCTCTGGGT  
 GTCTCTCTCTTCGTGTCCTGGAAGTTGTGCTGGGTGCCCTGGAGGGACAAAGGGGGCTCAGCAGTGGGTG  
 GTGGCCCCCTGCGCAAAGACTTAGCCCCGGGGTGGGCTGGCAGGCCTGGTAGGAGGTGGTGGCACCA  
 TCTGGGAGCCAGCCTAGGTGGCCATCCCCTGCTGGGTGGTCCGCACCATCATGCACACCCAGCCACCAT  
 CCACCATTTGCTGAAGTCTGGAACCAGGTGCCCTGGGGGCTCTGAGCCTCCAGAACCTTCTACCTGG  
 ACATGGACTCATATCCAGAGGCTGCTGTGGCCTCTGTGGTAGCTGCTGGGGTCAAACCAAGCCAGACATC  
 CCCTGAGCTGCCTTCTGAGGGTGAACAGGCTCTGGGCTGCTCCTGCTGCCTCCTAGTGGTGGGGCTTG  
 CCCAGTGCCAGTCTCATCAGCAGGTACAAGTCTAGCACCCACCACCAGGTACCCAGCCCTGCCTCGGC  
 CCCTCACCCAGCAGACCTGACCACCAAGCAGACCCAAGCAGTGAAGGAGCGACCACCTGCACTGCCTT  
 ACCCTGCCAGGCGGAGAGGAGAAAAGCCAAGCTCATCGGTGAGTCAAGCCAGAGCTATACCAGGGCACT  
 GGACCTGGTGGCCGGCAACGGGCGGGGCTCTGGGGAGGCAGGGGCACCTGTGGCCGCATCAGTTTTG  
 CCCTTCGGTACCTCTATGGCTCTGACCAGCTCGTGGTGGGATCCTTCAGGCCCTGGATCTCCAGCAAA  
 GGACTCCAATGGGTTCTCAGACCCTACGTCAAGATCTACCTGTTGCCTGATCGCAAAAAGAAAGTTCCAG  
 ACCAAGGTGCACAGGAAGACGCTGAACCCTATCTCAACGAGACGTTTCAGTTTTCGGTACCTTGGCCG  
 AGCTGGCGCAGCGCAAGCTGCATTCAGTGTCTATGACTTCGACAGATTCTCGAGGCAGATCTCATCGG  
 CCAGGTGGTTTTGGACAACCTGCTGGAGCTTGCTGAACAGCCCCCTGACCGTCCACTCTGGAGGGACATC  
 CTGGAGGGTGGCTCGAAAAGGCAGATCTTGGGGAGCTCAACTTCTCACTCTGCTACCTCCCCACGGCCG  
 GGCTCCTCACCGTGACCATCAAAGCCTCTAACCTCAAAGCAATGGACCTCACTGGTTTCTCAGACCC  
 CTACGTGAAGGCCTCTCTGATCAGCGAGGGGCGGCTCTGAAGAAACGGAAGACCTCCATTAAGAAGAAC  
 ACGCTGAACCCACATACAACGAGGCCCTGGTGTTCGACGTGGCTCCGGAGAGCGTGGAGAAGCTGGGTC  
 TCAGTATCGCAGTGGTAGACTATGACTGCATCGGCCACAATGAAGTATCGGGGTGTGCCGCTGGGCC  
 AGAGGCCGCTGACCCACATGGCAGAGAACACTGGGCAGAGATGCTGGCTAACCTCGCAAGCCTGTGGAG  
 CACTGGCACAGTGTGGAGGAGAAGACTCTAAGCAGCTTTACCAAGGGCGGCAAGGATTGTCAGAGA  
 AAGAGAATTCAGAGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_019122

**Insert Size:** 1767 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\\_019122.1](#), [NP\\_061995.1](#)

**RefSeq Size:** 2096 bp

**RefSeq ORF:** 1767 bp

**Locus ID:** 25731

**UniProt ID:** [P40748](#)

**Cytogenetics:** 1q22

**Gene Summary:** member of the synaptotagmin family; brain specific calcium/phospholipid-binding protein; essential for calcium-dependent synaptic vesicle exocytosis; may be the calcium sensor for fast calcium-triggered neurotransmitter release [RGD, Feb 2006]