

## Product datasheet for **RR203399**

### Syt1 (NM\_001033680) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Syt1 (NM_001033680) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Syt1
Synonyms:	P65
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RR203399 representing NM\_001033680  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGAGTGCCAGTCATCCTGAGGCCCTGGCCGCCCTGTCACTACTGTTGCGACCCTGTCCACACA  
 ATGCCACTGAGCCAGCCAGTCCTGGGGAAGGGAAGGAAGATGCCTTTTCCAAGCTGAAGCAGAAGTTTAT  
 GAATGAGCTGCATAAAATTCCATTGCCACCGTGGCCTTAATAGCCATAGCCATAGTTGCGGTCCTTTTA  
 GTCGTAACCTGCTGCTTTTGTGTCTGTAAGAAATGTTTGTTCAAAAAGAAAAACAAGAAGAGGGGAAGG  
 AAAAGGGAGGAAAGAACGCCATTAACATGAAAGACGTGAAAGACTTAGGGAAAGCCATGAAGGATCAGGC  
 CCTAAGGATGACGATGCTGAAACCGGACTGACTGATGGAGAAGAAAAGGAGCCCAAGGAAGAGGAG  
 AAAGTGGAAAGCTCCAATATTCCTGACTGACTGACTTCCAGAATAACCAGCTGTTGGTGGGAATCATCC  
 AGGCTGCTGAAGTGGCCGCTGGACATGGGGGTACATCCGATCCATACGTCAAAGTCTTCTGCTGCC  
 TGACAAAAAGAAGAAATTTGAGACTAAAGTCCACCGAAAACCTCAATCCAGTCTTCAATGAACAATTT  
 ACTTTCAAGGTGCCCTACTCGGAATTAGGTGGCAAACCTGGTATGGCTGTGTATGACTTTGATCGCT  
 TCTCCAAGCATGACATCATCGGAGAGTTCAAAGTTCCTATGAACACCGTGGATTTTGCCATGTGACCGA  
 GGAGTGGCGTGATCTCCAGAGCGCTGAGAAAGAAGAGCAAGAGAAACTGGGTGACATCTGCTTCTCCCTC  
 CGCTACGTCCTACTGCCGGCAAAGTACTGTTGTCTTCTGGAAGCCAAGAACCTGAAGAAGATGGATG  
 TGGGTGGCTTATCTGATCCCTACGTGAAGATTCACCTGATGCAGAACGGTAAGAGGCTGAAGAAGAAAA  
 GACGACGATTAAGAAGAACAACACTCAACCCCTACTACAACGAGTCCTTCAGCTTTGAAGTCCGTTGCG  
 CAAATCCAGAAAGTCAAGTGGTGGTAACTGTTTGGACTATGACAAGATTGGCAAGAACGACCCATCG  
 GCAAAGTCTTCGTTGGTTACAACAGCACTGGGGCGGAGCTGCGACTGGTCAGACATGCTGGCCAACCC  
 CCGGCGACCCATCGCACAGTGGCACACTCTGCAGGTAGAGGAGGTTGATGCCATGCTGGCTGTCAAG  
 AAGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR203399 representing NM\_001033680  
 Red=Cloning site Green=Tags(s)

MVSASHPEALAAPVTTVATLVPHNATEPASPGEKEDAFSKLKQKFMNELHKIPLPPWALIAIAIVAVLL  
 VVTCCFCVCKKCLFKKNKKGKEKGGKNAINMKDVKDLGKTMKDQALKDDDAETGLTDGEEKEEPKEEE  
 KLGKLYSLDYDFQNNQLLVGIIQAELPALDMGGTSDPYVKVFLLPDKKKKFETKVHRKTLNPFVNEQF  
 TFKVPYSELGGKTLVMAVYDFDRFSKHDIIGEFKVMNTVDFGHVTEWRDLQSAEKEEQEKLGDICFSL  
 RYVPTAGKLTVVILEAKNLKMDVGGGLSDPYVKIHLMQNGKRLKKKTTIKKNTLNPYYNESFSFEVPFE  
 QIQKVQVVVTVLDYDKIGKNDIAIGKVFVGYNSTGAELRHWSMLANPRRPIAQWHTLQVEEVEDAMLAVK  
 KK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja1561\\_d05.zip](https://cdn.origene.com/chromatograms/ja1561_d05.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001033680

**ORF Size:** 1263 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001033680.2](#), [NP\\_001028852.2](#)

**RefSeq Size:** 1896 bp

**RefSeq ORF:** 1266 bp

**Locus ID:** 25716

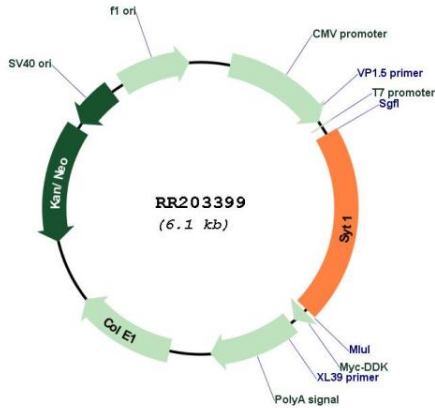
**UniProt ID:** [P21707](#)

**Cytogenetics:** 7q21

MW: 47.4 kDa

Gene Summary: integral component of synaptic vesicle membranes; important for exocytosis and vesicle trafficking to the active zone of synapses; may be the calcium sensor for calcium-dependent exocytosis [RGD, Feb 2006]

**Product images:**



Circular map for RR203399