

## Product datasheet for **MR224283**

### Syt9 (NM\_021889) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Syt9 (NM_021889) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Syt9
Synonyms:	Syt5, Sytv
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR224283 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCCCGGGCCAGGGACGCGCTGTGCACCAGGCGCTGCAGCTGCTGGCCGAGCTCTGTGCCCGAGGGG  
 CCCTGGAGCACGACAGCTGCCAAGATTTTCATCTACCACCTGCGGGACCGTGCCAGACCCCGCTCCGCGA  
 CCCAGATATCTCTGTGAGCCTGTAACCCTCGTGGTTACTGCCTGTGGTCTGGCCCTTTTGGTGTCTCT  
 CTTTTCGTGTCTTGGAACTGTGCTGGGTTCCGTGGCAGAGCGAGGCCTGTTCTCTGGTAGCAAAGACA  
 ACAACCAAGAGCCTCTTAATTACACCGACACAGAGACAAACGAGCAGGAGAACAGCGAGGACTTCTAGA  
 CCCACCTACACCTGCCCTGACTCCTCCATGAAGATAAGCCACACTTCCCCGACATTCCCTCTCCACC  
 CAGCCAGGGGCCAGGAGAACTGTGCCATGCCGTCCGTGTCAGCGACAAGTACAGAGCCAACACCAT  
 CAGCTCGGCATAACTCAATCCGAAGACAGCTCAACCTGTGAACCCGGACTTTAATCCAGCAGCTTCA  
 GAGGCAGGAGCAGCTGACTGGGATTGGTAGAATTAACCAGAGTTATACAAACAGAGGTCCTGGACAAC  
 GACGATGGGCGGAGGAGTAACAGCAAAGCCTGCGGGAACTGAATTCATTTTAAATATGACTGCGACT  
 TGGAACAGCTCATTGTGAAGATCCAAAGCCGTCAATCTGCCTGCCAAGGACTTCTCTGGGACTTCAGA  
 TCCTTATGTCAAGATCTACTTGCTTCTGACCGGAAAACAAAACACCAGACTAAAGTTACAGGAAGACC  
 CTGAACCTGTGTTTGTAGAGGTGTTTTATTTCTGTTCACTACAATGACCTTGAAGCTCGGAAGCTTC  
 ACTTCTCTGTGTATGACTTTGACAGGTTCTCTCGCATGACCTGATTGGTCAGGTGGTGGTGACCACTT  
 CTTGACTTGGCCGACTTCCCAGGGAGTGCATCCTTTGGAAGGATATCGAGTATGTCACCAACGATAAT  
 GTGGACTGGGCGAGCTTATGTTTTCACTCTGCTATCTTCCAACGGCTGGCAGGCTGACCATCACCATCA  
 TAAAAGCAAGGAATTTAAAGCGATGGACATAACAGGAGCATCAGATCCCTACGTGAAAGTCTCAGTAT  
 GTGTGACGGCCGAGACTGAAGAAGAGGAAAACCTCCACCAAGAGGAACACGCTTAATCCCGTTTACAAT  
 GAAGCCATAGTCTTCGACGTCCCTCCCAGAGCATCGACCAGATCCACTTGTCCATAGCCGTATGGACT  
 ATGACCGTGTAGGTACAATGAGGTCATTGGCGTGTGCCAAGTAGGAAACGAGGCTGAGCGGCTGGGCAG  
 AGACCACTGGAGTGAGATGCTGTCATATCTCGGAAGCCATCGCACACTGGCACTCTCTGATGGAGAAA  
 CGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR224283 protein sequence  
 Red=Cloning site Green=Tags(s)

MPGARDALCHQALQLLAELCARGALEHDSCQDFIYHLRDRARPRLRDPDISVSLTLVVTACGLALFGVS  
 LFVSWKLCWVWRERGLFSGSKDNNQEPLNYTDEETNEQENSEDFLDPPTPCPDSSMKISHTSPDIPLST  
 QPGGQENCAHAVRVQRQVTEPTPSARHNSIRRQLNLSNPDFNIQQLQRQEQLTGIGRIKPELYKQRLDN  
 DDGRRSNSKACGKLNFLKYDCLEQLIVKIHKAVNLPKDFSGTSDPYVKIYLLPDRKTKHQTKVHRKT  
 LNPVFDEVFVFPVHYNDLEARKLHFSVYDFDRFSRHDLIGQVVVDHFFDLADFPRECILWKDIEYVTDND  
 VDLGELMFSLCYLPTAGRLTITIIKARNLKAMDITGASDPYVKVSLMCDGRRLKRRKSTSKRNTLNPVYN  
 EAVFDVPPESIDQIHLIAVMDYDRVGHNEVIGVCQVGNEAERLGRDHWSEMLSYPKPIAHWHSLEK  
 R

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_021889

ORF Size: 1476 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\\_021889.4](#), [NP\\_068689.2](#)

RefSeq Size: 3816 bp

RefSeq ORF: 1476 bp

Locus ID: 60510

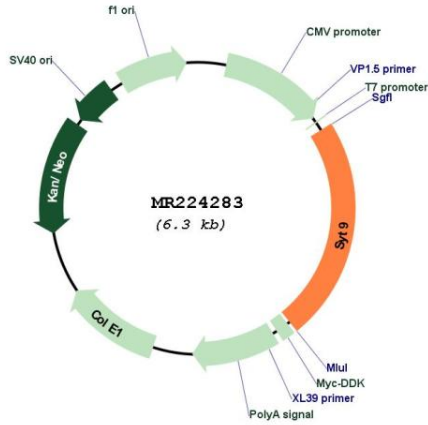
UniProt ID: [Q9R0N9](#)

Cytogenetics: 7 E3

MW: 56.3 kDa

Gene Summary: May be involved in Ca(2+)-dependent exocytosis of secretory vesicles through Ca(2+) and phospholipid binding to the C2 domain or may serve as Ca(2+) sensors in the process of vesicular trafficking and exocytosis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224283