

Product datasheet for **MG224283**

Syt9 (NM_021889) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syt9 (NM_021889) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Syt9
Synonyms:	Syt5, Sytv
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG224283 representing NM_021889
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCCGGGCCAGGGACGCGCTGTGCACCAGGCGCTGCAGCTGCTGGCCGAGCTCTGTGCCCGAGGGG
 CCCTGGAGCACGACAGCTGCCAAGATTTTCATCTACCACCTGCGGGACCGTGCCAGACCCCGCTCCGCGA
 CCCAGATATCTCTGTGAGCCTGTAACCCTCGTGGTTACTGCCTGTGGTCTGGCCCTTTTGGTGTCTCT
 CTTTTCTGTCTTGAAACTGTGCTGGGTTCCGTGGCGAGAGCGAGGCCTGTTCTCTGGTAGCAAAGACA
 ACAACCAAGAGCCTTTAATTACACCGACACAGAGACAAACGAGCAGGAGAACAGCGAGGACTTCTAGA
 CCCACCTACACCTGCCCTGACTCCTCCATGAAGATAAGCCACACTTCCCCGACATTCCCCTCTCCACC
 CAGCCAGGGGCCAGGAGAACTGTGCCATGCCGTCCGTGTCAGCGACAAGTCACAGAGCCAACACCAT
 CAGCTCGGCATAACTCAATCCGAAGACAGCTCAACCTGTGCAACCCGGACTTTAATATCCAGCAGCTTCA
 GAGGCAGGAGCAGCTGACTGGGATTGGTAGAATTAACCAGAGTTATACAAACAGAGGTCCTGGACAAC
 GACGATGGGCGGAGGAGTAACAGCAAAGCCTGCGGGAACTGAATTCATTTTAAAAATATGACTGCGACT
 TGGAACAGCTCATTGTGAAGATCCAAAGCCGTCAATCTGCCTGCCAAGGACTTCTCTGGGACTTCAGA
 TCCTTATGTCAAGATCTACTTGCTTCTGACCGGAAAACAAAACACCAGACTAAAGTTACAGGAAGACC
 CTGAACCTGTGTTTGTAGAGGTGTTTTATTTCTGTCTACTACAATGACCTTGAAGCTCGGAAGCTTC
 ACTTCTCTGTGTATGACTTTGACAGGTTCTCTCGCATGACCTGATTGGTCAGGTGGTGGTGGACCACTT
 CTTGACTTGGCCGACTTCCCAGGGAGTGCATCCTTTGGAAGGATATCGAGTATGTCACCAACGATAAT
 GTGGATCTGGGCGAGCTTATGTTTTCACTCTGCTATCTTCCAACGGCTGGCAGGCTGACCATCACCATCA
 TAAAAGCAAGGAATTTAAAGCGATGGACATAACAGGAGCATCAGATCCCTACGTAAAAGTCTCACTGAT
 GTGTGACGGCCGGAGACTGAAGAAGAGGAAAACCTCCACCAAGAGGAACACGCTTAATCCCGTTTACAAT
 GAAGCCATAGTCTTCGACGTCCCTCCCAGAGCATCGACCAGATCCACTTGTCCATAGCCGTATGGACT
 ATGACCGTGTAGGTACAAATGAGGTCATTGGCGTGTGCCAAGTAGGAAACGAGGCTGAGCGGCTGGGCAG
 AGACCACTGGAGTGAGATGCTGTCATATCTCGGAAGCCCATCGCACACTGGCACTCTCTGATGGAGAAA
 CGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG224283 representing NM_021889
 Red=Cloning site Green=Tags(s)

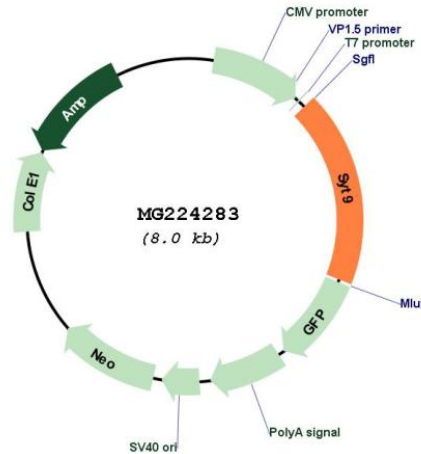
MPGARDALCHQALQLLAELCARGALEHDSCQDFIYHLRDRARPRLRDPDISVSLTLVVTACGLALFGVS
 LFVSWKLCWVPWRERGLFSGSKDNNQEPLNYTDTETNEQENSEDFLDPPTPCPDSSMKISHTSPDIPLST
 QPGGQENCAHAVRVQRQVTEPTPSARHNSIRRQLNLSNPDFNIQQLQRQEQLTGIGRIKPELYKQRSLDN
 DDGRRSNSKACGKLNFIKLYDCDLEQLIVKIHKAVNLPKDFSGTSDPYVKIYLLPDRKTKHQTKVHRKT
 LNPVFDEVFLFPVHYNDLEARKLHFSVYDFDRFSRHDLIQVVVDHFFDLADFPRECILWKDIEYVTNDN
 VDLGELMFLCYLPTAGRLTITIIKARNLKAMDITGADPYVKVSLMCDGRRLKKRKTSTKRNTLNPVYN
 EAVFVDPPEIDQIHLIAVMDYDRVGHNEVIGVCQVGNEAERLGRDHWSEMLSYPKPIAHWHSLEMEK
 R

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Plasmid Map:



ACCN: NM_021889

ORF Size: 1473 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

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]