

Product datasheet for **MR229943**

Syt6 (NM_001276676) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syt6 (NM_001276676) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Syt6
Synonyms:	3110037A08Rik; AW048930; sytVI
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>MR229943 representing NM_001276676
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCCTGGAGGAAGAAAGAGGCCCTCCAGCCCTTCTTCTGCTAACCTGCTTCAGAGACTCTCCAGAGCC
 CCAGCTCCAGAGGCAACATGGCGGATAAGCTGAAGGACCCAGTGCCCTGGGCTTCTGGAGGCAGCTGT
 GAAGATCAGCCACACTTCCCCAGACATCCCAGCCGAGGTGCAGATGTCGGTCAAAGAGCACATCATGCGC
 CACACAAAGCTGCAGCGACAGACCACAGAGCCAGCATCCTCCACCAGGCACACATCCTTCAAGCGCCACC
 TGCCACGACAGATGCATGTCTCCAGCGTGGACTATGGCAATGAGCTGCCGCCGGTGCCGCCGAGCAGCC
 CACCAGTATTGGCCGTATCAAGCCTGAGCTTTACAAGCAGAAGTCAGTGGATGGGGATGATGCCAAGTCG
 GAGGCCCAAGAGCTGTGGGAAGATCACTTCAGCCTCCGCTATGACTATGAAAGCGAGACGCTGATTG
 TCGCATCCTGAAGGCCCTTACCTCCCTGCCAAGGACTTTTGGCGAAGTCTGACCCCTTATGTTAAGAT
 CTACCTCTGCCTGACCGCAAGTCAAGCTGCAGACCCGGGTGCACCGCAAGACCCTGAACCCACCTTT
 GATGAGAACTTCCACTTCCCCGTGCCCTACGAGGAGCTGGCTGACCGCAAGCTGCATCTCAGTGTCTTTG
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 CCTGTCCCGGGAGACCTCCATCTGGAAGGACATCCAGTACGCTACTAGTAAAAGTGTGGACTTGGGAGAG
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 GACATCCCCCAGAAAACATGGACCAAGTGAAGCTGCTCATCTCCGTTATGGACTATGATAGAGTTGGCC
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 GATGTTGGCGTACCCACGAAAGCCATTGCGCACTGGCACTCCTTGGTGGAGGTAAGAAATCCTTCAAA
 GAGTGGCAGGGCCGAGCTGCCAGCTTCGACAGTGAAGCTCATGCCCGTCTCCGAAACCCTCCGACGC
 CA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>MR229943 representing NM_001276676
 Red=Cloning site Green=Tags(s)

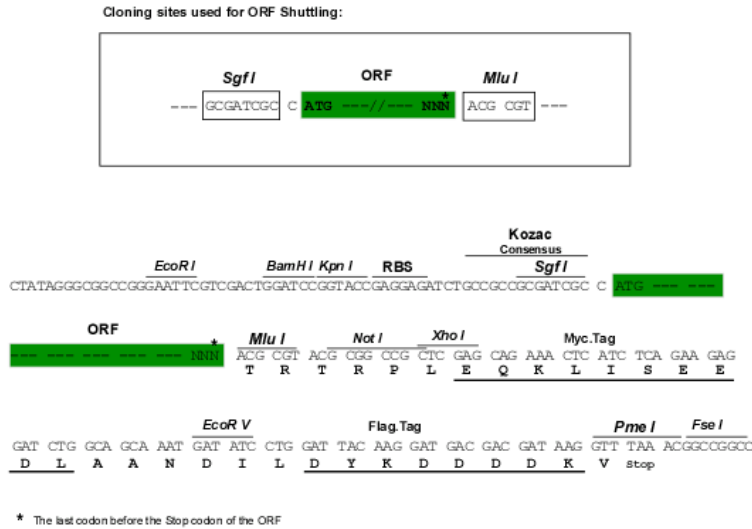
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 EAAKSCGKINFLRYDYESETLIVRILKAFDLPKDFCGSSDPYVKIYLLPDRKCKLQTRVHRKTLNPTF
 DENFHFPVPEELADRKLHLVDFDFRFSRDMIGEVIIDNLFEASDLRETSIWKDIQYATSESVDLGE
 IMFSLCYLPTAGRLTLVIKCRNLKAMDITGSDPYVKVSLLCDGRRLKTKKNTLNPIYNEAIIIF
 DIPPENMDQVSLLSVMDYDRVGHNEIIGVCRVGINAEGLGRDHWNEMLAYPRKPIAHWHSLEVKKSFK
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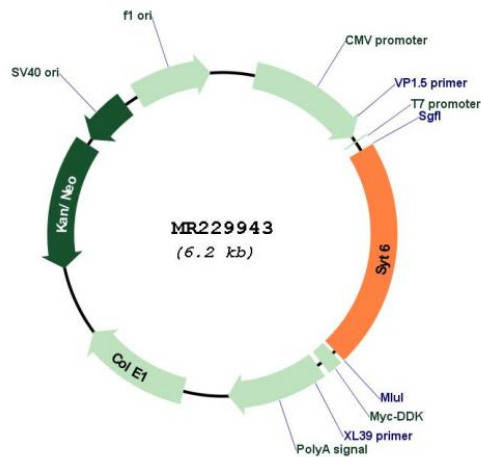
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001276676

ORF Size: 1332 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_001276676.2](#)

RefSeq Size: 4285 bp

RefSeq ORF: 1335 bp

Locus ID: 54524

Cytogenetics: 3 F2.2

MW: 50.7 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 (By similarity). May mediate Ca(2+)-regulation of exocytosis in acrosomal reaction in sperm (PubMed:15774481).[UniProtKB/Swiss-Prot Function]