

## Product datasheet for **MR216780**

### **Syt6 (NM\_018800) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Syt6 (NM_018800) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Syt6
Synonyms:	3110037A08Rik; AW048930; sytVI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR216780 representing NM\_018800  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGCGGGTTTGGGGGCCGAGGGCCTCGGTGCCAGCGCGCCTCGCGTCTCTGTGTTCTCTGTGCC  
 GGGCCCGCCGCCCTCTCGGGCTGGACGTTGAGACTTGTGCGAGCTTCGAGCTGCAGTCCCCGGAGCA  
 GAGTCCAAGCGCGCAGACTCAGGCACCTCTGTACGCTCCTCGCCGTGGTAGTTATTGTGTGTGGCGTG  
 GCCCTGGTGGCAGTTTTTCTCTTTCTCTTTGGAAGCTGTGCTGGATGCCCTGGAGGAAGAAAGAGGCC  
 CCAGCCCTTCTTCTGCTAACCTGCTTCAGAGACTCTCCAGAGCCCAGCTCCAGAGGCAACATGGCGGA  
 TAAGCTGAAGGACCCAGTGCCTGGGCTTCTGGAGGCAGCTGTGAAGATCAGCCACACTTCCCCAGAC  
 ATCCAGCCGAGGTGCAGATGTCGGTCAAAGAGCACATCATGCGCCACACAAAGTGCAGCGACAGACCA  
 CAGAGCCAGCATCTCCACCAGGCACACATCCTTCAAGCGCCACCTGCCACGACAGATGCATGTCTCCAG  
 CGTGGACTATGGCAATGAGCTGCCGCCGGCTGCCGCCGAGCAGCCACCAGTATTGGCCGTATCAAGCCT  
 GAGCTTTACAAGCAGAAGTCAGTGGATGGGGATGATGCCAAGTCCGAGGCCGCAAGAGCTGTGGGAAGA  
 TCAACTTCAGCCTCCGCTATGACTATGAAAGCGAGACGCTGATTGTGCGCATCCTGAAGGCCCTTACCT  
 CCCTGCCAAGGACTTTTGCAGGAGTTTCTGACCCTTATGTTAAGATCTACCTCCTGCCTGACCGCAAGTGC  
 AAGCTGCAGACCCGGGTGCACCGCAAGACCCTGAACCCACCTTTGATGAGAACTTCCACTTCCCCGTGC  
 CCTACGAGGAGCTGGGTGACCGCAAGCTGCATCTCAGTGTCTTTGACTTTGACCGCTTCTCCCGCATGA  
 CATGATTGGGGAGGTCACTCGGACAATCTCTTTGAGGCCTCTGACCTGTCCCGGAGACCTCCACTCTGG  
 AAGGACATCCAGTACGCTACTAGTAAAAGTGTGGACTTGGGAGAGATCATGTTCTCCCTCTGTACTCTGC  
 CCACAGCAGGCAGGCTCACCCCTCACAGTGATCAAGTGTGAAATCTCAAAGCAATGGACATCACAGGTA  
 CTAGATCCCTACGTCAAAGTATCCCTACTGTGTGATGGACGGAGGCTGAAAAAGAAGAAAAACGACCATA  
 AAAAAGAACACCCATAACCCATCTACAACGAGGCCATCATCTTTGACATCCCCCAGAAAAACATGGACC  
 AAGTGAGCCTGCTCATCTCCGTTATGGACTATGATAGAGTTGGCCACAACGAGATCATAGGAGTCTGTAG  
 AGTGGGGATCAATGCTGAAGGCCTTGGCAGGGACCACTGGAATGAGATGTTGGCGTACCCACGAAAGCCC  
 ATTGCGCACTGGCACTCCTTGGTGGAGGTAAGAAATCCTTCAAAGAGGGGACCCCTCGGTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR216780 representing NM\_018800  
 Red=Cloning site Green=Tags(s)

MSGVWGAGGPRCQAALAVLASLRCRAPPPLGLDVETCRSFELQSPEQSPSAADSGTSVSL LAVVVIVCGV  
 ALVAVFLFLFWKLCWMPWRKKEASSPSSANPASETLQSPSSRGNMADKLDPSALGFLEAAVKISHTSPD  
 IPAEVQMSVKEHIMRHTKLQRQTTEPASSRHTSFKRHLPRQMHVSSVDYGNELPPAAAEQPTSIGRIKP  
 ELYKQKSVDGDDAKSEAAKSCGKINFSLYDYESETLIVRILKAFDLPAKDFCGSSDPYVKIYLLPDRKC  
 KLQTRVHRKTLNPTFDENFHPVPEELADRKLHLSVDFDRFSRHDIMIGEVI LDNLFEASDLRETSIW  
 KDIQYATSEVDLGEIMFSLCYLPTAGRLTLTVIKRNLKAMDITGSDPYVKVSLLCDGRRLKKKKTII  
 KKNTLNPIYNEAIIIFDIPPENMDQVSLLSVMDYDRVGHNEIIGVCRVGINAEGLGRDHWNEMLAYPRKP  
 IAHHWSLVEVKKSFKEGTPRL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9028\\_e06.zip](https://cdn.origene.com/chromatograms/mm9028_e06.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_018800

**ORF Size:** 1533 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\\_018800.5](#)

**RefSeq Size:** 4416 bp

**RefSeq ORF:** 1536 bp

**Locus ID:** 54524

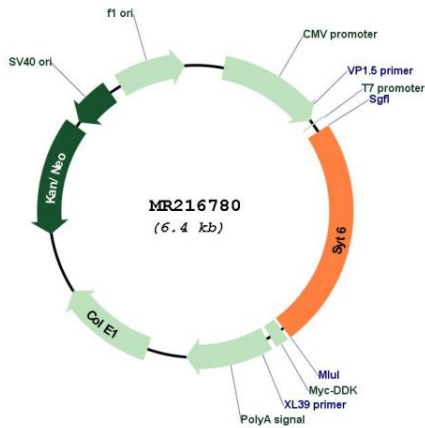
**UniProt ID:** [Q9R0N8](#)

**Cytogenetics:** 3 F2.2

MW: 57.7 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]

Product images:



Circular map for MR216780