

Product datasheet for **MG216780**

Syt6 (NM_018800) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syt6 (NM_018800) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Syt6
Synonyms:	3110037A08Rik; AW048930; sytVI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG216780 representing NM_018800
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCGGGTGGGGGCGGAGGGCCTCGGTGCCAGGCGCGCTCGGGTCTCTGTGTC
 GGGCCCGCCGCCCTCTCGGGCTGGACGTTGAGACTTGTGCGAGCTTCGAGCTGCAGTCCCCGGAGCA
 GAGTCCAAGCGCGCAGACTCAGGCACCTCTGTACGCTCCTCGCGTGGTAGTTATTGTGTGTGGCGTG
 GCCCTGGTGGCAGTTTTTCTCTTTCTCTTTGGAAGCTGTGCTGGATGCCCTGGAGGAAGAAAGAGGCC
 CCAGCCCTTCTTCTGCTAACCTGCTTCAGAGACTCTCCAGAGCCCAGCTCCAGAGGCAACATGGCGGA
 TAAGCTGAAGGACCCAGTGCCTGGGCTTCTGGAGGCAGCTGTGAAGATCAGCCACACTTCCCCAGAC
 ATCCAGCCGAGGTGCAGATGTCGGTCAAAGAGCACATCATGCGCCACAAAAGTGCAGCGACAGACCA
 CAGAGCCAGCATCTCCACCAGGCACACATCCTTCAAGCGCCACCTGCCACGACAGATGCATGTCTCCAG
 CGTGGACTATGGCAATGAGCTGCCGCCGGCTGCCGCCGAGCAGCCACCAGTATTGGCCGTATCAAGCCT
 GAGCTTTACAAGCAGAAGTCAGTGGATGGGGATGATGCCAAGTCGGAGGCCGCAAGAGCTGTGGGAAGA
 TCAACTTCAGCCTCCGCTATGACTATGAAAGCGAGACGCTGATTGTGCGCATCCTGAAGGCCCTTACCT
 CCCTGCCAAGGACTTTTGCAGGAGTTTCTGACCCTTATGTTAAGATCTACCTCCTGCCTGACCGCAAGTGC
 AAGCTGCAGACCCGGGTGCACCGCAAGACCCTGAACCCACCTTTGATGAGAACTTCCACTTCCCCGTGC
 CCTACGAGGAGCTGGGTGACCGCAAGCTGCATCTCAGTGTCTTTGACTTTGACCGCTTCTCCCGCATGA
 CATGATTGGGGAGGTCACTCGGACAATCTCTTTGAGGCCTCTGACCTGTCCCGGAGACCTCCACTCTGG
 AAGGACATCCAGTACGCTACTAGTAAAAGTGTGGACTTGGGAGAGATCATGTTCTCCCTCTGTACTCTGC
 CCACAGCAGGCAGGCTCACCCCTCACAGTGATCAAGTGTGAAATCTCAAAGCAATGGACATCACAGCATA
 CTCAGATCCCTACGTCAAAGTATCCCTACTGTGTGATGGACGGAGGCTGAAAAAGAAGAAAAACGACCATA
 AAAAAGAACCCTAAACCCATCTACAACGAGGCCATCATCTTTGACATCCCCCAGAAAAACATGGACC
 AAGTGAGCCTGCTCATCTCCGTTATGGACTATGATAGAGTTGGCCACAACGAGATCATAGGAGTCTGTAG
 AGTGGGGATCAATGCTGAAGGCCTTGGCAGGGACCACTGGAATGAGATGTTGGCGTACCCACGAAAGCCC
 ATTGCGCACTGGCACTCCTTGGTGGAGGTAAGAAATCCTTCAAAGAGGGGACCCCTCGGTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG216780 representing NM_018800
 Red=Cloning site Green=Tags(s)

MSGVWAGGPRCQAALAVLASLCRARPPPLGLDVETCRSFELQSPEQSPSAADSGTSVSL LAVVIVCGV
 ALVAVFLFLFWKLCWMPWRKKEASSPSSANPASETLQSPSSRGNMADKLDKPSALGFLEAAVKISHTSPD
 IPAEVQMSVKEHIMRHTKLQRQTTEPASSTRHTSFKRHLPRQMHVSSVDYGNELPPAAAEQPTSIGRIKP
 ELYKQKSVGDGDDAKSEAAKSCGKINFSRLRYDYSETLIVRILKAFDLPAKDFCGSSDPYVKIYLLPDRKC
 KLQTRVHRKTLNPTFDENFHPVPYEELADRKLHLVDFDFRFSRHDMIGEVILDNLFEASDL SRETSIW
 KDIQYATSESVDLGEIMFSLCYLPTAGRLTLTVIKCRNLKAMDITGYSVPYVKVSLLCDGRRLKKKTTI
 KKNTLNPYNEAIIIFDIPPENMDQVSLLSVMDYDRVGHNEIIGVCRVGINAEGLGRDHWNEMLAYPRKP
 IAHWHSLEVEKKSFKEGTPRL

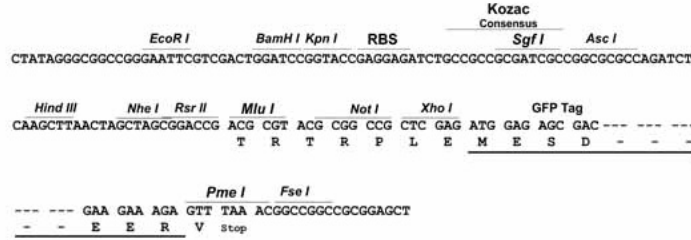
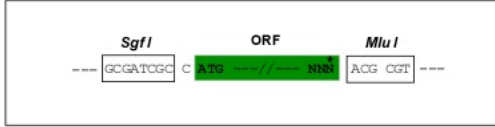
TRTRPLE - GFP Tag - V

Restriction Sites:

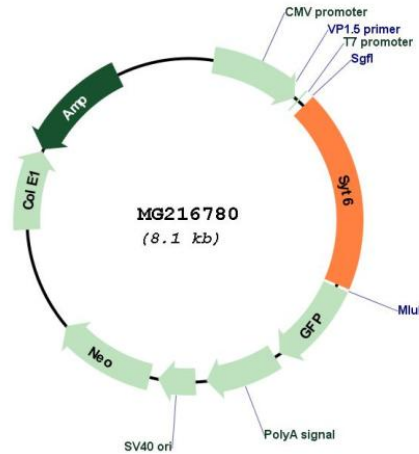
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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

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]