

Product datasheet for **MG206024**

Syt5 (NM_016908) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syt5 (NM_016908) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Syt5
Synonyms:	SytV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206024 representing NM_016908 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCCCGGAACCCCGACCCTGGGGTCTCCAGCGCCTAAGACACCTCCAGACTCCAGCCGCATCAGGC
AGGGCGCAGTGCCTGCCTGGGTCTGGCTACCATCGTGTGGGCTCGGGCCTCCTGGTCTTCAGCAGTTG
TTTCTGTCTACCGGAAGCGTGTGGGAGACGGATGGGCAAAAAGAGTCAGGCCAAGCCCAAGTCCAT
CTTCAGGAAGTGAAGGAGCTGGCCGGAGTTACATAGATAAGGTTTCAGCCTGAAATAGAGGAGCTGGACC
GGTCACCATCCATGCCTGGACAGCAGGTATCAGACAAACACCAGTAGGCCGACTGCAGTATTCAGTGA
CTATGACTTCCAGACTGGCCAGCTCCTGGTGGGCATCTTGCAAGCTCAGGGACTGGCTGCCTGGACCTA
GGAGGTTCCCTCAGATCCCTATGTTAGTGTCTATCTGCTGCCAGACAAGCGGAGGGCAGATGAGACCAAGG
TGCATCGGCAGACCCTGAATCCACACTTTGGAGAGACATTTGCCTTCAAGGTCCCACGTGGAAGTGG
GGCAGAGTGTGGTCAATGGCGGTGATGACTTTGATCGGTTCTCCCGCAACGATGCCATCGGGGAGGTG
CGGGTGCCTATGAGTTCAGTGAACCTGGGGCGGCCGTGCAGGCCCTGGAGAGAGCTGCAGGTGGCTCCCA
AAGAGGAGCAAGAGAACTGGGGACATCTGCTTCTCTCCGTTATGTCCACGGCCGGGAAGCTCAC
CGTCATTGTCTTGAAGCTAAAACTGAAGAAATGGATGTAGGAGGACTCTCAGATCCCTATGTGAAG
GTGCACCTGCTCCAGGGAGGTAAGAAAGTTTCGCAAGAAGAAACACCATTAAAGAAGAACCCTGAACC
CCTATTACAACGAGGCCCTCAGCTTTGAGGTGCCCTGTGACCAGGTGCAGAAAGTCCAGGTGGAGCTGAC
TGTTCTGGATTATGACAACTGGGGAAGAATGAGGCCATCGGGAGAGTGGCGGTGGGCGCAGCAGTCGGT
GGGGCTGGCCTGCGGCACTGGGCTGACATGTTGGCCAACCCAGGCGCCCATTCGCCAGTGGCACTCTC
TGCGGCCCCCTGACAGAGCCAGGCCAATACCAGCACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206024 representing NM_016908
 Red=Cloning site Green=Tags(s)

MFPEPPTLGSPAPKTPPDSSRIRQGA VPAWLATIVLGSGLLVFSSCFCLYRKRRCRRRMGKKSQAQAQVH
 LQEVKELGRSYIDKVQPEIEELDRSPSPMGQQVSDKHQLGRLQYSLDYDFQTGQLLVGILQAQGLAALDL
 GGSSDPYVSVYLLPDKRRRHETKVHRQTLNPHFGETFAFKVPYVELGGRVLMVAVYDFDRFSRNDAI GEV
 RVPMSVNLGRP VQAWRELQVAPKEEQEKLGDICFSLRYVPTAGKLTIVIVLEAKNLKMDVGGLSDPYVK
 VHLLQGGKKVRKKKTTIKKNTLNPHYNEAFSFEVPCDQVQKVQVELTVLDYDKLGKNEAIGRVAVGAAVG
 GAGLRHWADMLANPRRPIAQWHS LRPPDRARPI PAP

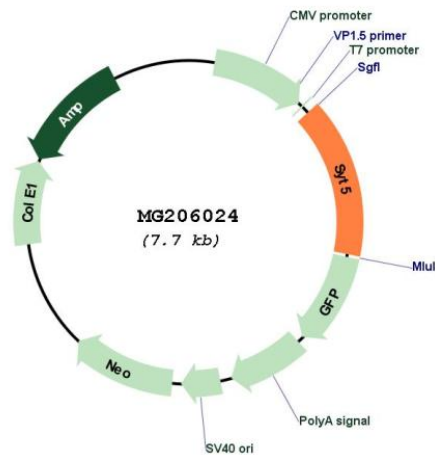
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_016908

ORF Size:	1158 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:	<ol style="list-style-type: none">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_016908.2 , NP_058604.1
RefSeq Size:	1764 bp
RefSeq ORF:	1161 bp
Locus ID:	53420
UniProt ID:	Q9R0N5
Cytogenetics:	7 A1
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. Regulates the Ca(2+)-dependent secretion of norepinephrine in PC12 cells. Required for export from the endocytic recycling compartment to the cell surface.[UniProtKB/Swiss-Prot Function]