

Product datasheet for **MG224898**

Syt12 (NM_134164) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syt12 (NM_134164) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Syt12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224898 representing NM_134164 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGTGGACGTGACAGAATATCATCTGAGCGTCATCAAGAGCCCCCAGGCTGGGAGGTGGGTGTCT
ATGCTGCCGGGGCCCTGGCTCTGCTGGGAATTGCTGCTGTGAGTCTATGGAAGCTCTGGACATCGGGGAG
CTTCCCAGCCCCCTCCCGTTCCCTAATTACGACTACAGGTACCTGCAGCAGAAATATGGAGAGGCCTAT
GTGGAGGCTAAGCTGAAGCGGGTCCCTCCTTGGAAATGACCAGCGGACCACTACTCGGGGACCACCCAGCC
GCAAAGGCAGCCTTAGTATAGAAGACACCTTTGAAAGCATCAGTGAGCTGGGACCCCTGGAGCTGATGGG
CCGGGAAGTGGACTTAGCCCCCTATGGTACTCTCCGAAAGTCACAGTCCGGCTGACTCTCTGAATTCATC
TCCTCTGTGAGCAACACCTTTGGCAGGATTTACCCTGGCCAGGTGGAGGTGAGCATGGACTATGATG
GAGCCTCCACACCCTCCACGTGGCAGTACTACAAGGCAAAGACCTCCTGGAGCGCGAGGAGGCCACCTT
CGAGTCTGCTTCATGCGTGTGAGTCTGCTGCCAGACGAACAGATCGTGGGCATCTCCCGGATCCAGAGG
AATGCCTATTCCATCTTCTCGATGAGAAGTTCTCTGTCCCCCTGGATCCACAGCCCTGGAGGAGAAGA
GCCTTAGATTTTCTGTGTTGGTATCGACGAGGATGAGCGGAATGTGAGCACCGGCGTGGTGGAGCTGAA
GCTGTCCGTTCTGGATCTCCCGCTGCAGCCCTCAGTGGCTGGCTATACTTGACAGGACCAGAATAAGGCT
GCTGACGCTGTGGGAGAGATCCTGCTGTCCCTCAGTTACCTGCCACAGCTGAGCGGCTGACTGTGGTTG
TGGTGAAGCCAAGAATCTCATCTGGACCAATGAGAAGAGCACAGCAGACCCCTTCGTCAAAGTATACCT
GCTGCAGGATGGGAGGAAAATGAGCAAGAAGAAGACGGCTGTGAAGAGGGATGACCCCAACCCAGTGTTT
AACGAAGCCATGATCTTCTCAGTGCCAGCCATTGTGCTACAGGACCTGTCTCTCCGGGTGACAGTGGCTG
AGAGCAGCAGCGACGGCCGTGGGACAACGTGGGCCATGTATCATTGGGCCAGGGGTGAGTGGCATGGG
CACCACATTGGAACAGATGCTGGCCACACTACGCAGGCTGTGTCCATGTGGCATCCAGTCCGGCGA
AAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG224898 representing NM_134164
 Red=Cloning site Green=Tags(s)

MAVDVTEYHLSVIKSPPGWEVGVYAAGALALLGIAAVSLWKLWTSGSFPSPSPFPNYDYRYLQQKYGEAY
 VEAKLRVPPWNDQRTTTRGPPSRKGSLSIEDTFESISELGPLELMGRELDLAPYGTLRKSQSADSLNSI
 SSVSNFTFGQDFTLGQVEVSMDDYDGASHTLHVAVLQGKDLLEREEATFESCFMRVSLLPDEQIVGISRIQR
 NAYSIFFDEKFSVPLDPTALEEKSLRFSVFGIDEDEERNVSTGVVELKLSVLDLPLQPFSGWLYLQDQNK
 ADAVGEILLSLSYLPTAERLTVVVVKAKNLIWTNEKSTADPFVKVYLLQDGRKMSKKKTAVKRDDPNPVF
 NEAMIFSVPAIVLQDLSLRVTVAESSSDGRGDNVGHVIGPGVSGMGTTHWNQMLATLRPVMWHHPVRR
 N

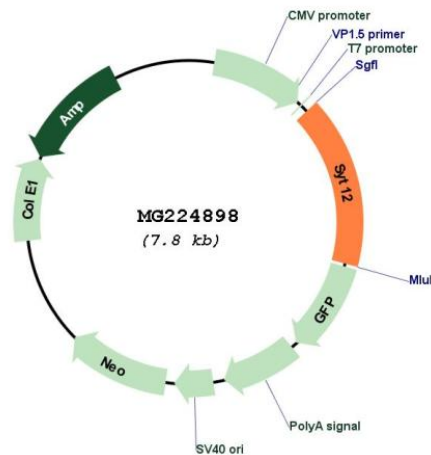
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_134164
ORF Size:	1263 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_134164.5 , NP_598925.1
RefSeq Size:	3277 bp
RefSeq ORF:	1266 bp
Locus ID:	171180
UniProt ID:	Q920N7
Cytogenetics:	19 A
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]