

## Product datasheet for **MC227614**

### Syt1 (NM\_001252341) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Syt1 (NM\_001252341) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Syt1  
**Synonyms:** AW124717; G630098F17Rik; Sytl  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC227614 representing NM\_001252341  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGTGAGTGCCAGTCGCTCTGAGGCCCTGGCTGCCCTGTCACCACTGTTGCGACCCTGTCCCACACA  
 ACGCCACTGAGCCAGCCAGTCCTGGGGAAGGGAAGGAAGATGCCTTTTCCAAGCTGAAGCAGAAGTTTAT  
 GAATGAACTGCATAAAATCCCATTGCCACCGTGGCCTTAATTGCCATAGCCATAGTTGCGGTCTTCTA  
 GTCGTGACCTGCTGCTTCTGTGTCTGTAAGAAATGTTTGTTCAAAAGAAAACAAGAAGAGGGAAAGG  
 AAAAGGGAGGGAAGAACGCCATTAACATGAAAGACGTGAAAGACTTAGGGAAAGACCATGAAGGATCAGGC  
 CCTAAGGATGACGATGCTGAACTGGACTGACTGATGGAGAAGAAAAGGAGGAGCCCAAGGAAGAGGAG  
 AAAGTGGGAAAGCTTCAATATTCAGTGGACTATGACTTCCAGAATAACCAGCTGCTGGTGGGAATCATCC  
 AGGCTGCTGAACTGCCCCCCTGGACATGGGAGGCACATCTGATCCATACGTCAAAGTCTTCTGCTGCC  
 CGACAAAAGAAGAAGTTTGAGACAAAAGTCCACCGGAAAACCTCAATCCAGTCTTCAATGAACAGTTT  
 ACTTTCAAGGTGCCATACTCGGAATTAGGTGGCAAGACACTGGTATGGCTGTGTATTTTGACCGCT  
 TCTCCAAGCAGACATCATTGGAGAGTTCAAAGTTCCTATGAACACCGTGGATTTTGGCCACGTCACCGA  
 GGAGTGGCGCATCTCCAGAGTCTGAGAAAGAAGAGCAAGAGAACTGGGTGACATCTGCTTCTCCCTC  
 CGTACGTCCTACTGCCGGCAAGCTGACTGTTGTCTTCTGGAAGCCAAGAACCTGAAGAAGATGGATG  
 TGGGTGGCTTATCTGATCCCTATGTAAGATTCACCTGATGCAGAACGGCAAGAGACTGAAGAAGAAAA  
 GACAACGATTAAGAAGAACACACTTAACCCCTACTACAATGAGTCCTTCAAGTTTGAAGTTCCGTTTCGAG  
 CAAATCCAGAAAGTGCAAGTGGTGGTAAGTGTGGACTATGACAAGATTGGCAAGAACGACGCCATCG  
 GCAAAGTCTTTGGGCTACAACAGCACCGCGCAGAGCTGCGACTGGTCAGACATGCTGGCCAACCC  
 CCGGCGACCCATCGCCAGTGGCACACTCTGCAGGTAGAGGAGGAGTTGATGCCATGCTGGCTGTCAAG  
 AAG**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001252341
<b>Insert Size:</b>	1266 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001252341.1</a></u> , <u><a href="#">NP_001239270.1</a></u>
<b>RefSeq Size:</b>	4836 bp
<b>RefSeq ORF:</b>	1266 bp
<b>Locus ID:</b>	20979
<b>UniProt ID:</b>	<u><a href="#">P46096</a></u>
<b>Cytogenetics:</b>	10 56.52 cM
<b>Gene Summary:</b>	<p>Calcium sensor that participates in triggering neurotransmitter release at the synapse (PubMed:11242035). May have a regulatory role in the membrane interactions during trafficking of synaptic vesicles at the active zone of the synapse (PubMed:7961887). It binds acidic phospholipids with a specificity that requires the presence of both an acidic head group and a diacyl backbone. A Ca(2+)-dependent interaction between synaptotagmin and putative receptors for activated protein kinase C has also been reported. It can bind to at least three additional proteins in a Ca(2+)-independent manner; these are neurexins, syntaxin and AP2. Plays a role in dendrite formation by melanocytes (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and it encodes the longer protein (isoform 1). Variants 1 and 2 encode the same protein.</p>