

Product datasheet for **MR229803**

Syt1 (NM_001252342) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Syt1 (NM_001252342) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Syt1
Synonyms: AW124717; G630098F17Rik; Sytl
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR229803 representing NM_001252342
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGTGAGTGCCAGTCGTCCTGAGGCCCTGGCTGCCCTGTCCACTGTTGCGACCCTGTCCCACACA
ACGCCACTGAGCCAGCCAGTCCTGGGGAAGGGAAGGAAGATGCCTTTTCCAAGCTGAAGCAGAAGTTTAT
GAATGAACTGCATAAAATCCCATTGCCACCGTGGGCCTTAATTGCCATAGCCATAGTTGCGGTCTTCTA
GTCGTGACCTGCTGCTTCTGTGTCTGTAAGAAATGTTTGTTCAAAAGAAAAACAAGAAGAAGGAAAGG
AAAAGGGAGGGAAGAACGCCATTAACATGAAAGACGTGAAAGACTTAGGGAAAGACCATGAAGGATCAGGA
TGACGATGCTGAAACTGGACTGACTGATGGAGAAGAAAAGGAGGAGCCAAAGGAAGAGGAGAAAATGGGA
AAGCTTCAATATTCAGTGGACTATGACTTCCAGAATAACACAGCTGCTGGTGGGAATCATCCAGGCTGCTG
AACTGCCCGCCCTGGACATGGGAGGCACATCTGATCCATACGTCAAAGTCTTCTGCTGCCCGACAAAA
GAAGAAGTTTGAGACAAAAGTCCACCGGAAAACCTCAATCCAGTCTTCAATGAACAGTTTACTTTCAAG
GTGCCATACTCGGAATTAGGTGGCAAGACACTGGTGATGGCTGTGTATGATTTTGACCGCTTCTCCAAGC
ACGACATCATTGGAGAGTTCAAAGTTCCTATGAACACCGTGGATTTTGGCCAGCTCACCGAGGAGTGCGG
CGATCTCCAGAGTCTGAGAAAAGAAGAGCAAGAGAACTGGGTGACATCTGCTTCTCCCTCCGCTACGTC
CCTACTGCCGGCAAGCTGACTGTTGTCTTCTGGAAGCCAAGAACCTGAAGAAGATGGATGTGGGTGGCT
TATCTGATCCCTATGTAAGATTACCTGATGCAGAACGGCAAGAGACTGAAGAAGAAAAAGACAACGAT
TAAGAAGAACACACTTAACCCCTACTACAATGAGTCTTCAGCTTTGAAGTTCGTTTCGAGCAAATCCAG
AAAGTGAAGTGGTGGTAACTGTTTGGACTATGACAAGATTGGCAAGAACGACGCCATCGGCAAAGTCT
TTGTGGGTACAACAGCACCGGCGCAGAGCTGCGACACTGGTCAGACATGCTGGCAACCCCCGGCGACC
CATCGCCAGTGGCACACTCTGCAGGTAGAGGAGGAGTTGATGCCATGCTGGCTGTCAAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229803 representing NM_001252342
 Red=Cloning site Green=Tags(s)

MVSASRPEALAAPVTTVATLVPHNATEPASPGEKEDAFSKLKQKFMNELHKIPLPPWALIAIAIVAVLL
 VVTCFCVCKKCLFKKKNKKKGEKGGKNAINMKDVKDLGKTMKDQDDAETGLTDGEEKEEPKEEEKLG
 KLQYSLDYDFQNNQLLVGIIQAALPALDMGGTSDPYVKVFLLPDKKKKFETKVHRKTLNPFVNEQFTFK
 VPYSELGGKTLVMAVYDFDRFSKHDIIGEFKVPMTVDFGHVTEEWRDLQSAEKEEQEKLGDICFSLRYV
 PTAGKLTVVILEAKNLKMKMDVGLSDPYVKIHLMQNGKRLKKKTTIKNNTLNPYYNESFSFEVPEQIQ
 KVQVVVTVLDYDKIGKNDIAIGKVFVGYNSTGAELRHWSMLANPRRPIAQWHTLQVEEVDAMLAVKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

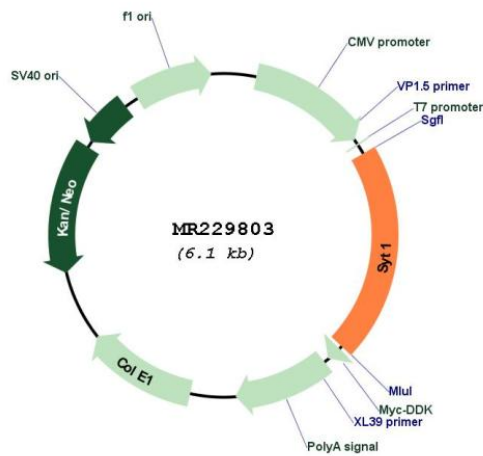
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001252342

ORF Size:	1254 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_001252342.1 , NP_001239271.1
RefSeq Size:	4747 bp
RefSeq ORF:	1257 bp
Locus ID:	20979
UniProt ID:	P46096
Cytogenetics:	10 56.52 cM
MW:	47.6 kDa
Gene Summary:	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]