

Product datasheet for **MG206688**

Syt1 (NM_009306) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syt1 (NM_009306) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Syt1
Synonyms:	AW124717; G630098F17Rik; Syt1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206688 representing NM_009306 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGAGTGCCAGTCGTCCTGAGGCCCTGGCTGCCCTGTCACTGTTGCGACCCTGTCCCACACA
ACGCCACTGAGCCAGCCAGTCCTGGGGAAGGAAGGATGCCTTTTCCAAGCTGAAGCAGAAGTTTAT
GAATGAACTGCATAAAATCCCATTTGCCACCGTGGCCTTAATTGCCATAGCCATAGTTGCGGTCTTCTA
GTCGTGACCTGCTGCTTCTGTGTCTGTAAGAAATGTTTGTCAAAAAGAAAAACAAGAAGAAGGGAAAGG
AAAAGGGAGGGAAGAACGCCATTAACATGAAAGACGTGAAAGACTTAGGGAAGACCATGAAGGATCAGGC
CCTTAAGGATGACGATGCTGAAACTGGACTGACTGATGGAGAAGAAAAGGAGGCCAAGGAAGAGGAG
AAACTGGGAAAGCTTCAATATTCAGTGGACTATGACTTCCAGAATAACCAGCTGTGGTGGGAATCATCC
AGGCTGCTGAACTGCCGCCCTGGACATGGGAGGCACATCTGATCCATACGTCAAAGTCTTCTGCTGCC
CGACAAAAGAAGAAGTTTGAGACAAAAGTCCACCGGAAAACCTCAATCCAGTCTTCAATGAACAGTTT
ACTTTCAAGGTGCCATACTCGGAATTAGGTGGCAAGACTGGTATGGCTGTGTATGATTTTGACCGCT
TCTCAAGCACGACATCATTGGAGAGTTCAAAGTTCCTATGAACACCGTGGATTTTGGCCACGTACCCGA
GGAGTGGCGCGATCTCCAGAGTGTGAGAAAGAAGAGCAAGAGAACTGGGTGACATCTGCTTCTCCCTC
CGCTACGTCCCTACTGCCGCAAGCTGACTGTTGTCATTCTGGAAGCCAAGAAGATGAGATGGATG
TGGGTGGCTTATCTGATCCCTATGTAAAGATTACCTGATGCAGAACGGCAAGAGACTGAAGAAGAAAA
GACAACGATTAAGAAGAACACACTTAACCCCTACTACAATGAGTCTTCACTTTGAAGTTCCGTTTCGAG
CAAATCCAGAAAGTGCAAGTGGTGGTAAGTGTGGTGGACTATGACAAGATTGGCAAGAACGACGCCATCG
GCAAAGTCTTTGTGGGCTACAACAGCACCGCGCAGAGCTGCGACACTGGTCCAGACATGCTGGCCAAACC
CCGGCGACCCATCGCCAGTGGCACACTCTGCAGGTAGAGGAGGAGTTGATGCCATGCTGGCTGTCAAG
AAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206688 representing NM_009306
 Red=Cloning site Green=Tags(s)

MVSASRPEALAAPVTTVATLVPHNATEPASPGEKEDAFSKLKQKFMNELHKIPLPPWALIAIAIVAVLL
 VVTCCFCVCKKCLFKKKNKKKGKEKGGKNAINMKDVKDLGKTMKDQALKDDDAETGLTDGEEKEEPKEEE
 KLGKLYSLDYDFQNNQLLVGIIQAAELPALDMGGTSDPYVKVFLLPDKKKKFETKVHRKTLNPFVNEQF
 TFKVPYSELGGKTLVMAVYDFDRFSKHDIIGEFKVPMTVDFGHVTEWRDLQSAEKEEQEKLGDICFSL
 RYVPTAGKLTVVILEAKNLKKMDVGGLSDPYVKIHLMQNGKRLKKKKTIIKKNTLNPYYNESFSFEVPFE
 QIQKVQVVVTVLDYDKIGKNDIIGKVFVGNSTGAELRHWSMLANPRRPIAQWHTLQVEEEVDAMLAVK
 K

TRTRPLE - GFP Tag - V

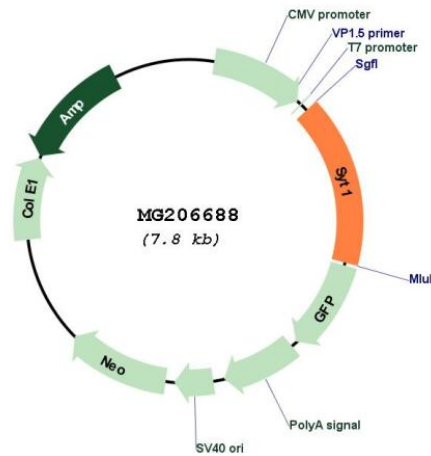
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_009306

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_009306.3
RefSeq Size:	3789 bp
RefSeq ORF:	1266 bp
Locus ID:	20979
UniProt ID:	P46096
Cytogenetics:	10 56.52 cM
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]