

Product datasheet for **MR209162**

Syt3 (NM_016663) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syt3 (NM_016663) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Syt3
Synonyms:	A1385753; sytIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209162 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCGGGACTATGAAGATGACCTCTGTGCGGGCGCTCATCTGGTCTCAGACCTCTGTGCACGGG
 TCCGAGATGCTGATACCAATGATAGGTGTCAAGAGTTCAACGAAGTTCGGATCAGAGGATATCCCCGGG
 TCCGGATCGAGATATTTCCGTGAGCCTGCTGTGAGTATCGTGACATTCTGTGGCATCGTCTCTGGGT
 GTCTCCCTCTTCGTGCTCGAAGTTGTGCTGGGTGCCCTGGAGGGACAAAGGAGGCTCAGCAGTGGGTG
 GTGGCCCCCTGCGCAAAGACTTAGCCCCGGGGTGGGCTGGCAGGCTGGTAGGAGGTGGTGGCACCA
 CCTAGGAGCCAGCCTCGGTGGTATCCCCTGCTGGGTGGCCACACCATCATGGGCACACAGCCACCAT
 CCACCATTTGCGGAGCTGCTGGAACCAGGTGGTCTTGGGGCTCTGAGCCGCCAGAACCTTCTACCTGG
 ACATGGACTCATATCCAGAGGCTGCTGTGGCTCTGTGGTAGCTGCTGGAGTCAAACCAAGCCAGACATC
 CCCTGAGCTGCCTTCTGAGGGTGAACAGGTTCTGGGCTGCTCCTGCTGCCTCCCAGTGGTGGGGCTTA
 CCCAGTGCCAGTCTCATCAGCAGGTACAAGTCTAGCACCCACCACAAGGTACCCAGCCCTGCCTCGGC
 CCCTCACCCAGCAGACCCTGACCACCAAGCAGACCAAGCACTGAGGAGCGACCGCTGCACTGCCTT
 ACCTCTGCCGGGTGGAGAGGAAAAGCCAAGCTCATCGGTGAGTCAAACCAAGAGCTGTACCAGGGCACT
 GGACCCGGTGGTGGCGAGGGCGGGGCTCAGGGGAAGCAGGGCACCCCTGTGGCCGATCAGTTTTGCC
 TCCGGTACCTCTATGGTCTGACCATCTCGTGGTGGGATCTACAGGCCCTGGATCTCCAGCAAAGGA
 CTCCAATGGGTTCTCAGACCCCTACGTCAAGATCTACCTGTTGCCTGATCGAAAAAGAAGTCCAGACC
 AAGGTGCACAGGAAGACGTTGAACCCATCTTCAACGAGACGTTTCAGTTCTCGGTGCCCTGGCCGAGC
 TGGCACAGCGCAAGCTGCACTTCAGCGTCTATGACTTCGACCGTCTCTCGCGGCATGATCATATTGGCA
 GGTGGTTTTGGACAACCTGCTGGAGCTGGCTGAACAGCCCTGACCGCCGCTCTGGAGGGACATCGCTG
 GAGGGTGGCTCGAAAAAGCAGATCTCGGAGAGCTCAACTTCTCTCTGCTACCTCCCCACGGTGGG
 GCCTCACCGTGACCATCATCAAAGCCTCTAACCTCAAAGCAATGGACCTCACTGGTTTCTCAGACCCCTA
 TGTGAAGGCTCTCTGATCAGCGAGGGCGGCTCTGAAGAAACGGAAGACCTCCATTAAGAAGAACACA
 CTGAACCCACGTACAACGAGGCCCTGGTGTTCGACGTGGCTCCCAGAGCGTGGAGAACGTGGGTCTCA
 GCATCGCAGTGGTAGACTATGACTGCATCGCCACAATGAAGTATCGGGGTGTCCGCGTGGTCCAGA
 GGCTGCCGACCCACACGCGCAGAGAACACTGGGCAGAGATGCTGGTAACCCGCGCAAGCCTGTGAAACAC
 TGGCACCACTAGTGGAGGAGAAGACTCTGAGCAGCTTCAAAGGGTGGCAAAGGATTGTGAGAGAAAG
 AGAATTCAGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209162 protein sequence
 Red=Cloning site Green=Tags(s)

MSGDYEDDLRRALILVSDLCARVRDADTNDRCQEFNELRIRGYPRGPDADISVSLLSVIVTFCGIVLLG
 VSLFVSWKLCWVPWRDKGSAVGGGPLRKDLAPGVGLAGLVGGGGHHLGASLGGHPLGGPHHHGHTAHH
 PPFANELLEPGGLGGSEPPPEPSYLDMSYPEAAVASVVAAGVKPSQTSPELPSGEGTSGLLLLPPSGGGL
 PSAQSHQVQVTSAPTRYPALPRPLTQQTLTQADPSTEERPPALPLPLPGGEEKAKLIGQIKPELYQGT
 GPGGRRGGGSGEAGAPCGRISFALRYLYGSDHLVVRILQALDLPKDSNGFSDPYVKIYLLPDRKKKFQT
 KVHRKTLNPIFNFTFQFSVPLAELAQRKLHFSVYDFDRFSRDLIGQVLDNLELAEQPPDRPLWRDIL
 EGGSEKADLGNLNFSLCYLPTAGRLTVTIIKASNLKAMDLTGFSDPYVKASLISEGRRLLKKRKTSSIKNT
 LNPTYNEALVFDVAPESVENVGLSIAVVDYDCIGHNEVIGVCRVGPAAADPHGREHWAEMLANPRKPVHE
 WHQLVEEKTLSSTFKGGKGLSEKENSE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_016663

ORF Size: 1764 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:

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_016663.1](#), [NM_016663.2](#), [NM_016663.3](#), [NP_057872.2](#)
RefSeq Size: 2524 bp

RefSeq ORF: 1764 bp

Locus ID: 20981

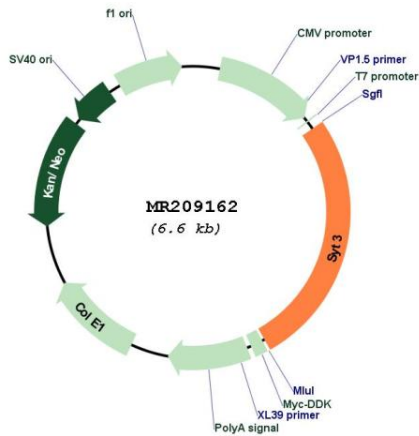
UniProt ID: [O35681](#)

Cytogenetics: 7 28.83 cM

MW: 63.3 kDa

Gene Summary: Ca(2+) sensor involved in Ca(2+)-dependent exocytosis of secretory vesicles through Ca(2+) and phospholipid binding to the C2 domain. Ca(2+) induces binding of the C2-domains to phospholipid membranes and to assembled SNARE-complexes; both actions contribute to triggering exocytosis. Plays a role in dendrite formation by melanocytes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209162