

## Product datasheet for **MR216575**

### Syt3 (NM\_001114116) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Syt3 (NM_001114116) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Syt3
Synonyms:	A1385753; sytIII
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR216575 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTCGGGACTATGAAGATGACCTCTGTGCGGGCGCTCATCTGGTCTCAGACCTCTGTGCACGGG  
 TCCGAGATGCTGATACCAATGATAGGTGTCAAGAGTTCAACGAAGTTCGCGATCAGAGGATATCCCCGGG  
 TCCGGATGCAGATATTTCCGTGAGCCTGCTGTGAGTATCGTGACATTCTGTGGCATCGTCTCTGGGT  
 GTCTCCCTCTTCGTGCTCGAAGTTGTGCTGGGTGCCCTGGAGGGACAAAGGAGGCTCAGCAGTGGGTG  
 GTGGCCCCCTGCGCAAAGACTTAGCCCCGGGGTGGGCTGGCAGGCTGGTAGGAGGTGGTGGCACCA  
 CCTAGGAGCCAGCCTCGGTGGTCATCCCCTGCTGGGTGGCCACACCATCATGGGCACACAGCCACCAT  
 CCACCATTTGCGGAGCTGCTGGAACCAGGTGGTCTTGGGGCTCTGAGCCGCCAGAACCTTCTACCTGG  
 ACATGGACTCATATCCAGAGGCTGCTGTGGCTCTGTGGTAGCTGCTGGAGTCAAACCAAGCCAGACATC  
 CCCTGAGCTGCCTTCTGAGGGTGAACAGGTTCTGGGCTGCTCCTGCTGCCTCCCAGTGGTGGGGCTTA  
 CCCAGTGCCAGTCTCATCAGCAGGTACAAGTCTAGCACCCACCACAAGGTACCCAGCCCTGCCTCGGC  
 CCCTCACCCAGCAGACCCTGACCACCAAGCAGACCCAAGCACTGAGGAGCGACCGCTGCACTGCCTT  
 ACCTCTGCCGGGTGGAGAGGAAAAGCCAAGCTCATCGGTGAGTCAAACCAAGAGCTGTACCAGGGCACT  
 GGACCCGGTGGTGGCGAGGGCGGGGCTCAGGGGAAGCAGGGCACCCCTGTGGCCGATCAGTTTTGCC  
 TCCGGTACCTCTATGGTTCTGACCAGCTCGTGGTGGGATCCTACAGGCCCTGGATCTCCAGCAAAGGA  
 CTCCAATGGGTTCTCAGACCCCTACGTCAAGATCTACCTGTTGCCTGATCGAAAAAGAAGTCCAGACC  
 AAGGTGCACAGGAAGACGTTGAACCCATCTTCAACGAGACGTTTCAGTTCTCGGTGCCCTGGCCGAGC  
 TGGCACAGCGCAAGCTGCACCTCAGCCTATGACTTCGACCGTCTCTCGCGGCATGATCTCATTGGCCA  
 GGTGGTTTTGGACAACCTGCTGGAGCTGGCTGAACAGCCCTGACCGCCGCTCTGGAGGGACATCCTG  
 GAGGGTGGCTCGAAAAAGCAGATCTCGGAGAGCTCAACTTCTCTCTGCTACCTCCCCACGGTGGG  
 GCCTCACCGTGACCATCATCAAAGCCTCTAACCTCAAAGCAATGGACCTCACTGGTTTCTCAGACCCCTA  
 TGTGAAGGCTCTCTGATCAGCGAGGGCGGCTGTAAGAAACGGAAGACCTCCATTAAGAAGAACACA  
 CTGAACCCACGTACAACGAGGCCCTGGTGTTCGACGTGGCTCCCAGAGCGTGGAGAACGTGGGTCTCA  
 GCATCGCAGTGGTAGACTATGACTGCATCGCCACAATGAAGTATCGGGGTGTCCGCGTGGGTCCAGA  
 GGCTGCCGACCCACACGCGCAGAGAACACTGGGCAGAGATGCTGGTAACCCGCGCAAGCCTGTGAAAC  
 TGGCACCACTAGTGGAGGAGAAGACTCTGAGCAGCTTCAAAGGGTGGCAAAGGATTGTCAGAGAAAG  
 AGAATTCAGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR216575 protein sequence  
 Red=Cloning site Green=Tags(s)

MSGDYEDDLRRALILVSDL CARVRDADTNDRCQEFNELRIRGYPRGPDADISVSLLSVIVTFCGIVLLG  
 VSLFVSWKLCWVPWRDKGSAVGGGPLRKDLAPGVGLAGLVGGGHHLGASLGGHPLLGGPHHHGHTAHH  
 PPF AE LLEPGGLGGSEPPPSYLDMSYPEAAVASVVAAGVKPSQTSPELPSEG GTG SGL L L L P P S G G L  
 PSAQSHQQVTS LAP TTRY PAL PR PL TQ Q L T T Q A D P S T E E R P P A L P L P L P G G E E K A K L I G Q I K P E L Y Q G T  
 G P G R R G G S G E A G A P C G R I S F A L R Y L Y G S D Q L V V R I L Q A L D L P A K D S N G F S D P Y V K I Y L L P D R K K F Q T  
 K V H R K T L N P I F N E T F Q F S V P L A E L A Q R K L H F S V Y D F D R F S R H D L I G Q V V L D N L L E L A E Q P P D R P L W R D I L  
 E G G S E K A D L G E L N F S L C Y L P T A G R L T V T I I K A S N L K A M D L T G F S D P Y V K A S L I S E G R R L K K R K T S I K K N T  
 L N P T Y N E A L V F D V A P E S V E N V G L S I A V V D Y D C I G H N E V I G V C R V G P E A A D P H G R E H W A E M L A N P R K P V E H  
 W H Q L V E E K T L S S F T K G G K L S E K E N S E

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

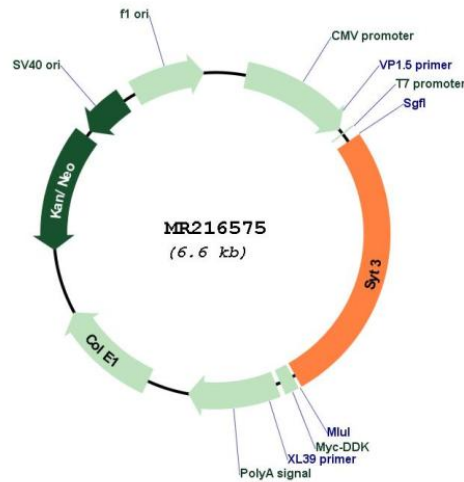
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001114116

ORF Size: 1761 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001114116.1</a> , <a href="#">NP_001107588.1</a>
<b>RefSeq Size:</b>	2497 bp
<b>RefSeq ORF:</b>	1764 bp
<b>Locus ID:</b>	20981
<b>UniProt ID:</b>	<a href="#">O35681</a>
<b>Cytogenetics:</b>	7 28.83 cM
<b>MW:</b>	63.2 kDa
<b>Gene Summary:</b>	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]