

Product datasheet for **MC217455**

Syt10 (NM_018803) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syt10 (NM_018803) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Syt10
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC217455 representing NM_018803
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTTTCCGCAAGGAGGACGGTGTGAGCAGCCTGTGCCAGAAGGCGCTGCACATCATCCAGCTGT
 GCTTCGCGGGTCAGGTGGAGTGGGACAAGTGTTCGGGCATCTTTCCAGCCGATAGGAGCGGCCAGGGAGG
 AGGTGGCACAGATATTTAGTCAGCCTGTAGCGGTTGTTGTAAGCTTCTGTGGCCTGGCCTTGCTGGTT
 GTCTCCCTTTTTGCTTCTGGAAGTTGTGCTGGCCATGCTGGAAGAGCAAGCTTGTGCCCCCAACCTCA
 GTGTCCTTCCACAAGCATCTCAAGTGTCCAAGTGAAGTTTTGAGACTGAAGAGAAAAAGAAGTGA
 AGAAAAAGAAAGCCAGCACCCAAAGCCATTGAGCCTGCAATAAAAAATCAGCCACACATCCCCGACATC
 CCAGCAGAAGTGCAGACAGCTTTAAAGGAGCATTGATTAACATGCTCGAGTCAAAGGCAAACAACCG
 AGCCTACGTCTTCATCCCGCCACAACCTCTCAGGAGACACCTACCAAGGCAAATGAATGTCTCCAGCGT
 CGACTTTAGCGTGGGCACTGAACCCATCTTACAAAGAGGAGAAACGAGAACGAGCATCGGGAGGATAAAA
 CCAGAACTCTACAAGCAGAAATCGGTTGACTCCGAGGGCAACAGAAAAGACGACGTCAAGACCTGTGGGA
 AACTTAACTTTGCGCTCCAGTATGATTATGAAAATGAACTCCTAGTTGTTAAAATATCAAAGCTTTAGA
 TCTCCAGCTAAAGATTTACAGGAACTTCTGATCCTTATGTGAAGATCTATCTTCTCCGGATAGGAAG
 AAGAAATTTAGACCCCGGTGCACCGGAAGACTTTAAACCTCTGTTTGTGAGCTATTTTCAGTTTCCGG
 TGGTTTACGATCAGCTAAGCAACCGCAAACCTACACTTTAGTATATATGATTTTGCAGATTTTCCAGACA
 CGCATGATTGGGGAAGTATTCTTGATAATTTATTTGAAGTCTCTGATCTCTCCAGGGAAGCCACAGTA
 TGGAAAGATATCCACTGTGCTACCACAGAAAGCATAGACCTGGGGGAAATCATGTTCTCCCTTTGCTATT
 TGCCAACCTGTGGCCGTATGACCTTGACAGTGATCAAGTGCAGAAATCTGAAGGCAATGGACATCACTGG
 GTCATCAGATCCTTATGTCAAAGTGTCTCTGATGTGTGAGGGCCGAAGACTTAAAAAACGAAAAACAAC
 ACAAGAAAAAATACTCTCAATCCCGTGTACAACGAAGCCATTATCTTCGATATCCCTCCAGAGAATGTGG
 ACCAGGTCAGCCTGTGCATTGCAGTCATGGATTACGACAGGGTGGGGCACAATGAGGTATAGGCGTGTG
 TCGAACTGGACTAGACGCTGAGGGTCTTGGGAGAGACCATTGGAACGAGATGCTGGCCTATCACCAGAAAG
 CCAATCACACTGGCACCCCTTGTGGAGTTACCTGGCCGGGCCACCAGCTTTGATAGTCAAGGTCTCT
 GTTCTTCTCCAGGCCACCGTCCACACCA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_018803

Insert Size: 1572 bp

OTI Disclaimer: 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).

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_018803.2](#), [NP_061273.1](#)

RefSeq Size: 1845 bp

RefSeq ORF: 1572 bp

Locus ID: 54526

UniProt ID: [Q9R0N4](#)

Cytogenetics: 15 E3

Gene Summary: Ca(2+) sensor specifically required for the Ca(2+)-dependent exocytosis of secretory vesicles containing IGF1 in neurons of the olfactory bulb (PubMed:21496647). Exocytosis of IGF1 is required for sensory perception of smell (PubMed:21496647). Not involved in Ca(2+)-dependent synaptic vesicle exocytosis (PubMed:21496647). Acts 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 (By similarity).[UniProtKB/Swiss-Prot Function]