

Product datasheet for **MR217607**

Syngn1 (NM_009303) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Syngn1 (NM_009303) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Syngn1
Synonyms: p29; R75468; Syngn1b
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR217607 representing NM_009303
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAAGGGGTGCGTACGGAGCGGGCAAAGCCGGGGCGCCTTCGACCCCTACACCCTGGTGAGGCAGC
CACACACCATCCTGCGCGTCGTGCTTTGGGTCTTCTCCATCGTGGTCTTCGGCTCTATCGTGAACGAGGG
CTACCTCAACAACCCAGAGGAGGAGGAGGAGTTCTGCATCTACAACCGCAACCCCAATGCCTGCAGCTAC
GGTGTGACTGTGGGTGTGTTGGCCTTCTCACCTGCCTGCTACTGGCGCTCGATGTGTACTTCCCGC
AGATCAGCAGTGTCAAGGACCGCAAGAAGGCCGTGCTCTCTGACATCGGTGTCTCGGCCTTCTGGGCCTT
CTTCTGGTTCTGGGTTTCTGCTTCTGGCCAACCAAGTGGCAAGTCTCCAAGCCCAAGGACAACCCCTCTG
AACGAAGGGACGGACGCAGCCCGGGCTGCCATCGCCTTCTCTTCTTCTCCATTTTACGTGGAGCCTGA
CAGCAGCCCTGGCCGTACGCAGATTCAAGGAGCTTACCTCCAGGAGGAATACAACACACTGTTCCCTGC
CTCCGCACAACCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR217607 representing NM_009303
Red=Cloning site Green=Tags(s)

MEGGAYGAGKAGGAFDPYTLVRQPHTILRVVSWVFSIVVFGSIVNEGYLENNPEEEEEFCIYNRNPACSY
GVTVGVLAFLTCLLYLALDVYFPQISSVKDRKKAVLSDIGVSAFWAFFWFVGFCLANQWQVSKPKDNPL
NEGTDAARAAIAFSFFSIFTWSLTAALAVRRFKELTFQEEYNTLFPASAQP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

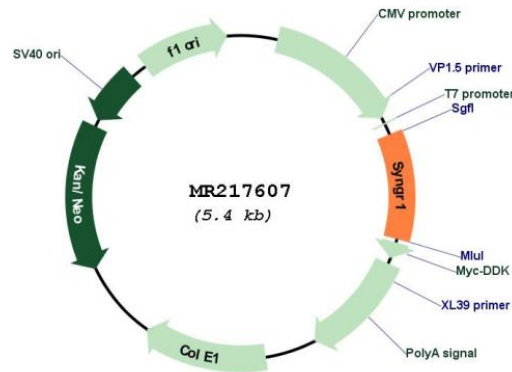
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_009303

ORF Size: 573 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_009303.2](#), [NP_033329.1](#)

RefSeq Size: 818 bp

RefSeq ORF: 576 bp

Locus ID: 20972

UniProt ID: [O55100](#)

Cytogenetics: 15 E1

MW: 21.7 kDa

Gene Summary: May play a role in regulated exocytosis. Modulates the localization of synaptophysin/SYP into synaptic-like microvesicles and may therefore play a role in synaptic-like microvesicle formation and/or maturation (By similarity). Involved in the regulation of short-term and long-term synaptic plasticity (PubMed:10595519).[UniProtKB/Swiss-Prot Function]