

Product datasheet for **MC216649**

Syn2 (NM_013681) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syn2 (NM_013681) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Syn2
Synonyms:	2900074L19Rik; AI836018; AI841723
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC216649 representing NM_013681
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGATGAACTTCCTGAGGCGCCGGCTGTCGGACAGCAGCTTCATCGCCAACCTGCCAATGGCTACATGA
CTGACCTTCAGCGCCCGAGCCGAGCAGCCCTCCTGCCCTGGCCCGGTGCCGCTACGGCGTCGGC
GGCCACCTCAGCTGCCTCGCCCGTCCCAGCGCAGGCCGCCACCCGCCAGGCACCCGCCCGCAGCCG
GCGCCGACGCCGCGCCGACGCCGTCGGTGGGACGAGCTTCTCAGCTCGCTGTCGCAAGCGGTGAAGC
AGACGGCCGCTCCGCCGCTGGTGGACGCGCCGCACCTTCGGCCGCTCCAGGAAGGCCAAGGTGCT
GCTGGTGGTCGACGAGCCGCACCCGACTGGGCCAAATGCTTTCGGGGCAAAAAAATCCTTGAGATTAT
GACATCAAGGTGGAACAGGCAGAATTCAGAGCTTAACCTGGTGGCCATGCAGATGGAACCTACGCCG
TGGACATGCAGGTAATTCGGAATGGCACAAGGTTGTCCGGTCTTCAGACCAGACTTTGTGCTCATCCG
ACAGCATGCATTTGGCATGGCAGAGAATGAAGACTTCCGCCACCTGGTCATTGGCATGCAGTACGCAGGC
CTCCCCAGCATCAACTCTCTGGAGTCTATTTACAATTCTGTGACAAGCCGTGGGTGTTTGTCTCAGATGG
TGGCCATCTTCAAGACTGGGAGGGGAGAAATCCCACCTATTGAGCAGACATACTACCCCAATCACCG
AGAGATGCTTACGCTTCTACGTTCCCTGTGGTGGTGAAGATTGGCCATGCTCACTCAGGCATGGGCAAG
GTCAAAGTGGAAAATCACTACGACTTCCAGGACATTGCCAGTGTGGTGGCCCTCACCCAACTTATGCCA
CGGCAGAACCTTCATCGACGCCAAGTATGACATCCGAGTTCAGAAGATTGGCAACAACAAGGCCTA
CATGAGGACATCCATCTCAGGAACTGGAAGACAAACTGGCTCGGCGATGCTGGAGCAAATGCCATG
TCGGACCGGTACAAGCTCTGGGTAGATGCCTGCTCTGAAATGTTGGTGGCCTGGACATCTGTGCAGTCA
AAGCCGTGCATGGCAAAGATGGCAAAGACTACATTTTGGAGTCACTGGACTGCAGCATGCCATTGATTGG
GGAACACCAAGTGGAGGACAGACAACCTCACTGATCTAGTCATCAGCAAGATGAACCAGCTATTGTCC
AGGACTCTGCCCTGTCTCCACAGAGACCTTTAACCCACCAACAGCCACAGAGTGAACACTTAAGGAAC
CGGACTCCAGCAAGACCCCTCTCAGCGCCACCTCCCCAAGGTTGTTTACAGTATATTCTCGACTGTAA
TGGCATTGCAGTAGGTCCAAAACAAGTCCAAGCTTCT**TAA**

ACGGTACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_013681

Insert Size: 1440 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_013681.3](#), [NP_038709.1](#)

RefSeq Size: 3858 bp

RefSeq ORF: 1440 bp

Locus ID: 20965

UniProt ID: [Q64332](#)

Cytogenetics: 6 53.2 cM

Gene Summary: Neuronal phosphoprotein that coats synaptic vesicles, binds to the cytoskeleton, and is believed to function in the regulation of neurotransmitter release. May play a role in noradrenaline secretion by sympathetic neurons.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (IIb) lacks two exons and its 3' terminal exon extends past a splice site that is used in variant IIa. This results in a novel 3' coding region and 3' UTR, compared to variant IIa. It encodes isoform IIb which is shorter and has a distinct C-terminus, compared to isoform IIa.