

Product datasheet for **MR209977**

Syn1 (NM_013680) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syn1 (NM_013680) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Syn1
Synonyms:	Syn-1; Syn1-S
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MR209977 representing NM_013680
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAACACTCGCGGCCCGCTGTCTCGGACAGCAACTTCATGGCCAATCTGCCGAATGGGTACATGACAG
 ACCTGCAGCGCCCGCAACCGCCCGCCGCTCCCTCGGCCGCCAGCCCTGGGGCCACGCCCGGCTCCGC
 GACAGCCTCTGCCGAGAGGGCTCCACAGCTGCTCCAGTGGCTTCTCCAGCAGCCCTAGTCTGGGTCC
 TCGGGGGCGCGGCTTCTTCTCGTCGCTGTCTAACCGGGTCAAGCAAACACAGCAGCCGAGCCGCCA
 CCTTCAGCGAGCAGGTGGCGGTGGCTCTGGGGCGCAGGCCGCGGGGGCGCCGCCAGGGTGTCTGT
 GGTTCATCGACGAACCGCACACCGACTGGGCAAAATACTTCAAAGGGAAGAAGATCCATGGAGAAATTGAC
 ATTAAGTAGAGCAAGCTGAATTCTCTGATCTCAATCTTGTGGCTCATGCCAATGGTGGATTCTCTGTGG
 ACATGGAAGTTCTTCGGAATGGAGTCAAAGTTGTGAGGTCTCTGAAGCCAGACTTTGTGCTGATCCGCCA
 GCATGCCCTTCAGCATGGCAGTAATGGAGACTACCGAAGTTTGGTCATTGGGCTGCAGTATGCTGGAATC
 CCCAGTGTAAACTCTTTGCATTCTGTCTACAACCTCTGTGACAAAACCTGGGTGTTTGCCAGATGGTTC
 GACTACACAAGAAGCTTGAACAGAGGAATTCCTCTGATTGATCAGACTTTCTATCCTAATCACAAGA
 GATGCTCAGCAGCACAACATACCCTGTGGTGTGAAGTGGGCCACGCACATTCTGGGATGGGCAAGGTC
 AAGGTAGACAACCAACATGACTTCCAGGATATTGCAAGTGTGTGGCACTGACTAAGACATATGCCACTG
 CTGAGCCCTTCATTGATGCTAAATATGATGTGCGTGTCCAGAAGATTGGGCAGAACTACAAGGCCTACAT
 GAGGACATCAGTGTGGGTAACGGAAGACCAATACAGGTTCTGCTATGCTTGAGCAGATTGCCATGTCT
 GACAGGTACAAGTTGTGGGTAGACACGTGCTCAGAGATTTTGGGGGACTTGACATCTGCCAGTGAAG
 CGTGCATGGCAAGGACGGAAGGGATCACATTATTGAGTGGTGGGCTCCTCCATGCCACTCATTGGTGA
 TACCAGGATGAAGACAAGCAGCTCATCGTGAACCTTGTGGTCAACAAGATGACTCAGGCTCTGCCTCGG
 CAGCCGACGCGGATGCTTCCCCTGGCAGGGGCTCCCACAGCCAGTCTTCATCCCAGGAGCCCTGACCT
 TGGGCCGACAGCCTCCCAGCAGCTGCAGGTCCTCCTGCTCAACAACGACCCCCACCCAGGGAGGCC
 TCCACAGCCAGGCCAGGACCTCAGCGCCAGGGACCCCGCTGCAGCAGCGCCACCCCAAGGCCAG
 CAACATCTTTCTGGCCTTGGACCGCCAGCTGGCAGCCCTCTGCCTCAGCGCCTACCAAGTCCCACCGCAG
 CACCTCAGCAGTCTGCCTCTCAGGCCACACCAGTGACCCAGGGTCAAGGCCGCCAGTCGCGGCCAGTGGC
 AGGAGGCCCTGGAGCACCTCCAGCAGCGCGCCACCAGCCTCCCATCTCCACAGCGTCAGGCGGGGGCC
 CCGCAGGCTACCGTCTCAGGCATCTATCTCTGGTCCAGCTCCAACGAAGGCCTCAGGAGCCCCACCCGGAG
 GGCAGCAGCGCCAGGGCCCTCCCAAAAACCCCAAGGCCCTGCTGGTCCCCTCGTCAGGCCAGTCAAGC
 AGGTCCCAGGACCTCGCACTGGGCTCCCACCACACAGCAGCCCCGGCCAGCGGCCAGGTCTGTGGA
 CGTCCCAGCAAAACACAGCTGGCCAGAAACCCAGCCAGGATGTGCCACCACCCATCACCGCCGCTGCCG
 GGGGACCCCGCACCCCCAGCTCAACAAATCCCAGTCTCTGACCAATGCCTTCAACCTTCCAGAGCCAGC
 CCCTCCCAGGCCAGCCTTAGCCAGGACGAGGTGAAAGCTGAGACCATCCGCAGCCTGAGGAAGTCTTTC
 GCCAGCCTCTTCTCCGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209977 representing NM_013680
 Red=Cloning site Green=Tags(s)

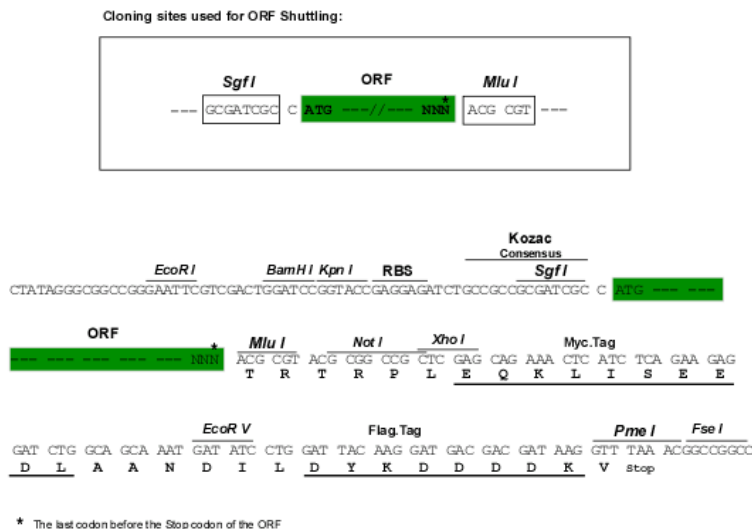
MNYLRRLSDSNFMANLPNGYMTDLQRPQPPPPPSAASPGATPGSATASAERASTAAPVASPAAPSPGS
 SGGGGFSSLSNAVKQTAAAAATFSEQVGGSGGAGRGGAAARVLLVIDEPHTDWAKYFKGKKIHGEID
 IKVEQAEFSDLNLVAHANGGFSDMEVLRNGVKVVRSLKPDFVLIRQHAFSMARNGDYRSLVIGLQYAGI
 PSVNSLHSVYFCDKPVVFAQMVRLHKKLGTEEFPLIDQTFYPNHKEMLSSTTYPVVVKMGHAHSGMGKV
 KVDNQHDFQDIASVVALTKTYATAEPFIDAKYDVRVQKIGQNYKAYMRTSVSGNWK TNTGSAMLEQIAMS
 DRYKLWVDTCEIFGGLDICAVEALHGKDGRDHIIEVVGSSMPLIGDHQDEDKQLIVELVVKMTQALPR
 QPQRDASPGRGSHSQSSSPGALTLGRQTSQQPAGPPAQQRPPQGGPPQPGPGPQRQGPPLQQRPPQGGQ
 QHLSGLGPPAGSPLPQRLPSPATAAPQSSASQATPVTQGGQRQSRPVAGGPGAPPAARPPASPSQRQAGA
 PQATRQASISGPAPTKASGAPPGQQRQGPQKPPGPAGPTRQASQAGPGPRTGPPTTQQPRPSGPGPAG
 RPAKPLAQKPSQDVPPPITAAAGGPPHPQLNKSQSLTNAFNLPEPAPPRPSLSQDEVKAETIRSLRKSF
 ASLFSD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_013680

ORF Size: 2118 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_013680.4](#)

RefSeq Size: 3143 bp

RefSeq ORF: 2121 bp

Locus ID: 20964

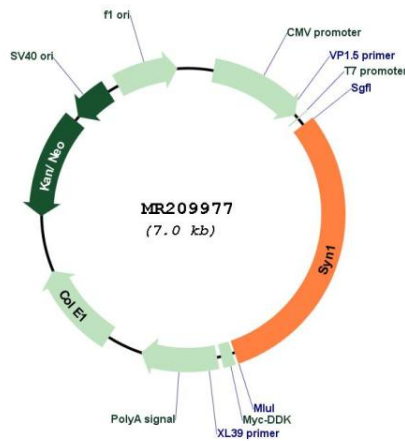
UniProt ID: [O88935](#)

Cytogenetics: X 16.37 cM

MW: 74.5 kDa

Gene Summary: Neuronal phosphoprotein that coats synaptic vesicles, binds to the cytoskeleton, and is believed to function in the regulation of neurotransmitter release. Regulation of neurotransmitter release. The complex formed with NOS1 and CAPON proteins is necessary for specific nitric-oxide functions at a presynaptic level.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209977