

Product datasheet for **MR225760**

Syn1 (NM_001110780) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syn1 (NM_001110780) 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:

>MR225760 representing NM_001110780
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACTACCTGCGGCGCCGCTGTCTCGACAGCAACTTCATGGCCAATCTGCCGAATGGGTACATGACAG
 ACCTGCAGCGCCCGCAACCGCCCCGCCGCTCCCTCGGCCGCCAGCCCTGGGGCCACGCCCGGCTCCGC
 GACAGCCTCTGCCGAGAGGGCCTCCACAGCTGCTCCAGTGGCTTCTCCAGCAGCCCTAGTCTGGGTCC
 TCGGGGGCGCGGCTTCTTCTCGTCGCTGTCTAACGCGGTCAAGCAAACACAGCAGCCGAGCCGCCA
 CCTTCAGCGAGCAGGTGGGCGGTGGCTCTGGGGGCGCAGGCCGCGGGGGCGCCGCCAGGGTGTCTGT
 GGTTCATCGACGAACCGCACACCGACTGGGCAAAATACTTCAAAGGGAAGAAGATCCATGGAGAAATTGAC
 ATTAAGTAGAGCAAGCTGAATTCTCTGATCTCAATCTTGTGGCTCATGCCAATGGTGGATTCTCTGTGG
 ACATGGAAGTTCTTCGGAATGGAGTCAAAGTTGTGAGGTCTCTGAAGCCAGACTTTGTGCTGATCCGCCA
 GCATGCCCTTCAGCATGGCAGTAATGGAGACTACCGAAGTTTGGTCATTGGGCTGCAGTATGCTGGAATC
 CCCAGTGTAAACTCTTTGCATTCTGTCTACAACCTCTGTGACAAACCCTGGGTGTTTGCCAGATGGTTC
 GACTACACAAGAAGCTTGAACAGAGGAATCCCTCTGATTGATCAGACTTTCTATCCTAATCACAAGA
 GATGCTCAGCAGCACAACATACCCTGTGGTGTGAAGTGGGCCACGCACATTCTGGGATGGGCAAGGTC
 AAGGTAGACAACCAACATGACTTCCAGGATATTGCAAGTGTGTGGCACTGACTAAGACATATGCCACTG
 CTGAGCCCTTCATTGATGCTAAATATGATGTGCGTGTCCAGAAGATTGGGCAGAACTACAAGGCCTACAT
 GAGGACATCAGTGTGGGTAACGGAAGACCAATACAGGTTCTGCTATGCTTGAGCAGATTGCCATGTCT
 GACAGGTACAAGTTGTGGGTAGACACGTGCTCAGAGATTTTGGGGACTTGACATCTGCCAGTGAAG
 CGCTGCATGGCAAGGACGGAAGGATCACATTATTGAGTGGTGGGCTCCTCCATGCCACTCATTGGTGA
 TACCAGGATGAAGACAAGCAGCTCATCGTGAACCTTGGTCAACAAGATGACTCAGGCTCTGCCTCGG
 CAGCCGACGCGGATGCTTCCCCTGGCAGGGGCTCCCACAGCCAGTCTTCATCCCAGGAGCCCTGACCT
 TGGGCCGACAGCCTCCCAGCAGCCTGCAGGTCCTCTGCTCAACAACGACCCCCACCCAGGGAGGCC
 TCCACAGCCAGGCCAGGACCTCAGCGCCAGGGACCCCGCTGCAGCAGCGCCACCCCAAGGCCAG
 CAACATCTTTCTGGCCTTGGACCGCCAGCTGGCAGCCCTCTGCCTCAGCGCCTACCAAGTCCCACCGCAG
 CACCTCAGCAGTCTGCCTCTCAGGCCACACCAGTGACCCAGGGTCAAGGCCGCCAGTCGCGGCCAGTGGC
 AGGAGGCCCTGGAGCACCTCCAGCAGCGCGCCACCAGCCTCCCATCTCCACAGCGTCAGGCGGGGGCC
 CCGCAGGCTACCCGTGAGCATCTATCTCTGGTCCAGCTCCAACGAAGGCCTCAGGAGCCCCACCCGGAG
 GGCAGCAGCGCCAGGGCCCTCCCAAAAACCCCAAGGCCCTGCTGGTCCCCTCGTCAGGCCAGTACGGC
 AGGTCCCAGGACCTCGCACTGGGCTCCCACCACACAGCAGCCCCGGCCAGCGGCCAGGTCCTGTGGA
 CGTCCCGCAAACACAGCTGGCCAGAAACCCAGCCAGGATGTGCCACCACCCATCACCGCCGCTGCC
 GGGGACCCCGCACCCCCAGCTCAAAGCCAGCCCTCCCAGGCCAGCCT

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225760 representing NM_001110780
 Red=Cloning site Green=Tags(s)

MNYLRRLSDSNFMANLPNGYMTDLQRPQPPPPPSAASPGATPGSATASAERASTAAPVASPAAPSPGS
 SGGGGFFSSLNAVKQTAAAAATFSEQVGGSGGAGRGGAAARVLLVIDEPHTDWAKYFKGKIHGEID
 IKVEQAEFSDLNLVAHANGGFSDVMEVLRNGVKVVRSLKPDFVLIRQHAFSMARNGDYRSLVIGLQYAGI
 PSVNSLHSVYVNFCDKPWFVAQMVRLLHKKLGTEEFPLIDQTFYPNHKEMLSSTTYPVVVKMGHAHSGMGKV
 KVDNQHDFQDIASVVALTKTYATAEPFIDAKYDVRVQKIQONYKAYMRTSVSGNWKNTGSALEQIAMS
 DRYKLWVDTCEIFGGLDICAVALHGKDRDHIIEVVGSSMPLIGDHQDEKQLIVELVVKMTQALPR
 QPQRDASPGRGSHSQSSSPGALTLGRQTSQQPAGPPAQQRPPPPQGGPPQPGPGPQRQGPPLQQRPPPPQGG
 QHL SGLGPPAGSPLPQRLP SPTAAPQSSASQATPV TQGGQRQSRPVAGGPGAPPAARPPASPSPQRQAGA
 PQATRQASISGPAPT KASGAPGGQQRQGPQKPPGPAGPTRQASQAGPGPRTGPPTTQQRPSGPGPAG
 RPAKPQLAQKPSQDVPPPITAAAGGPPHPQLKASPSQAQP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001110780

ORF Size: 2010 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_001110780.1](#), [NP_001104250.1](#)

RefSeq Size: 3211 bp

RefSeq ORF: 2013 bp

Locus ID: 20964

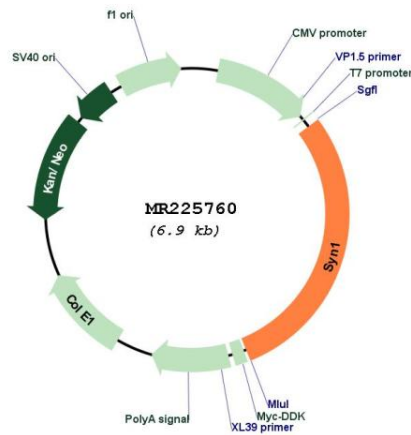
UniProt ID: [O88935](#)

Cytogenetics: X 16.37 cM

MW: 70.5 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 MR225760