

Product datasheet for **MG225760**

Syn1 (NM_001110780) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syn1 (NM_001110780) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Syn1
Synonyms:	Syn-1; Syn1-S
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG225760 representing NM_001110780
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAACACTCGCGGCCCGCTGTCTCGACAGCAACTTCATGGCCAATCTGCCGAATGGGTACATGACAG
 ACCTGCAGCGCCCGCAACCGCCCCGCCCTCCCTCGGCCGCCAGCCCTGGGGCCACGCCCGCTCCGC
 GACAGCCTCTGCCGAGAGGGCTCCACAGCTGCTCCAGTGGCTTCTCCAGCAGCCCTAGTCTGGGTCC
 TCGGGGGCGCGGCTTCTTCTCGTCGCTGTCTAACCGCGTCAAGCAAACACAGCAGCCGAGCCGCCA
 CCTTCAGCGAGCAGGTGGCGGTGGCTCTGGGGCGCAGGCCGCGGGGGCGCCGCCAGGGTGTCTGT
 GGTTCATCGACGAACCGCACACCGACTGGGCAAAATACTTCAAAGGAAGAAGATCCATGGAGAAATTGAC
 ATTAAGTAGAGCAAGCTGAATTCTCTGATCTCAATCTTGTGGCTCATGCCAATGGTGGATTCTCTGTGG
 ACATGGAAGTTCTTCGGAATGGAGTCAAAGTTGTGAGGTCTCTGAAGCCAGACTTTGTGCTGATCCGCCA
 GCATGCCCTCAGCATGGCAGTAATGGAGACTACCGAAGTTTGGTCATTGGGCTGCAGTATGCTGGAATC
 CCCAGTGTAAACTCTTTGCATTCTGTCTACAACCTCTGTGACAAACCCTGGGTGTTTGCCAGATGGTTC
 GACTACACAAGAAGCTTGAACAGAGGAATCCCTCTGATTGATCAGACTTTCTATCCTAATCACAAGA
 GATGCTCAGCAGCACAACATACCCTGTGGTGTGAAGTGGGCCACGCACATTCTGGGATGGGCAAGGTC
 AAGGTAGACAACCAACATGACTTCCAGGATATTGCAAGTGTGTGGCACTGACTAAGACATATGCCACTG
 CTGAGCCCTTCATTGATGCTAAATATGATGTGCGTGTCCAGAAGATTGGGCAGAACTACAAGGCCTACAT
 GAGGACATCAGTGTGGGTAACGGAAGACCAATACAGGTTCTGCTATGCTTGAGCAGATTGCCATGTCT
 GACAGGTACAAGTTGTGGGTAGACACGTGCTCAGAGATTTTGGGGACTTGACATCTGCCAGTGAAG
 CGCTGCATGGCAAGGACGGAAGGATCACATTATTGAGTGGTGGGCTCCTCCATGCCACTCATTGGTGA
 TCACCAGGATGAAGACAAGCAGCTCATCGTGAACCTTGTGGTCAACAAGATGACTCAGGCTCTGCCTCGG
 CAGCCGACGCGGATGCTTCCCCTGGCAGGGGCTCCCACAGCCAGTCTTCATCCCAGGAGCCCTGACCT
 TGGGCCGACAGCCTCCCAGCAGCTGCAGGTCCTCTGCTCAACAACGACCCCCACCCAGGGAGGCC
 TCCACAGCCAGGCCAGGACCTCAGCGCCAGGGACCCCGCTGCAGCAGCGCCACCCCAAGGCCAG
 CAACATCTTTCTGGCCTTGGACCGCCAGCTGGCAGCCCTCTGCCTCAGCGCTACCAAGTCCCACCGCAG
 CACCTCAGCAGTCTGCCTCTCAGGCCACACCAGTGACCCAGGGTCAAGGCCGCCAGTCGCGGCCAGTGGC
 AGGAGGCCCTGGAGCACCTCCAGCAGCGCGCCACCAGCCTCCCATCTCCACAGCGTCAGGCGGGGGCC
 CCGCAGGCTACCGTCTCAGGCATCTATCTCTGGTCCAGCTCCAACGAAGGCCTCAGGAGCCCCACCCGGAG
 GGCAGCAGCGCCAGGGCCCTCCCCAAAACCCCAAGGCCCTGCTGGTCCCCTCGTCAGGCCAGTACGGC
 AGGTCCCAGGACCTCGCACTGGGCCTCCCACCACACAGCAGCCCCGGCCAGCGGCCAGGTCTGTGGA
 CGTCCCGCAAACACAGCTGGCCAGAAACCCAGCCAGGATGTGCCACCACCCATCACCGCCGCTGCC
 GGGGACCCCGCACCCCCAGCTCAAAGCCAGCCCTCCCAGGCCAGCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG225760 representing NM_001110780
 Red=Cloning site Green=Tags(s)

MNYLRRLSDSNFMANLPNGYMTDLQRPQPPPPPSAASPGATPGSATASAERASTAAPVASPAAPSPGS
 SGGGGFSSLSNAVKQTAAAAATFSEQVGGGSGGAGRGGAAARVLLVIDEPHTDWAKYFKGKKIHGEID
 IKVEQAEFSDLNLVAHANGGFSDVMEVLRNGVKVVRSLKPDFVLIRQHAFSMARNGDYRSLVIGLQYAGI
 PSVNSLHSVYNFCDKPWFVAQMVRLHKKLGTTEEFPLIDQTFYPNHKEMLSSTTYPVVVKMGHAHSGMGKV
 KVDNQHDFQDIASVVALTKTYATAEPFIDAKYDVRVQKIQNYKAYMRTSVSGNWK TNTGSAMLEQIAMS
 DRYKLWVDTCEIFGGLDICAVALHGKDGRDHIIEVVGSSMPLIGDHQDEKQLIVELVVKMTQALPR
 QPQRDASPGRGSHSQSSSPGALTLGRQTSQQPAGPPAQQRPPQGGPPQPGPGPQRQGPPLQQRPPPPQGQ
 QHLSGLGPPAGSPLPQRLPSPTAAPQSSASQATPVTQGGQRQSRPVAGGPGAPPAARPPASPSPQRQAGA
 PQATRQASISGPAPTASGAPPGGQQRQPPQKPPGPAGPTRQASQAGPGPRTGPPTTQQRPSGPGPAG
 RPAKPQLAQKPSQDVPPPITAAAGGPPHPQLKASPSQAQP

TRTRPLE - GFP Tag - V

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

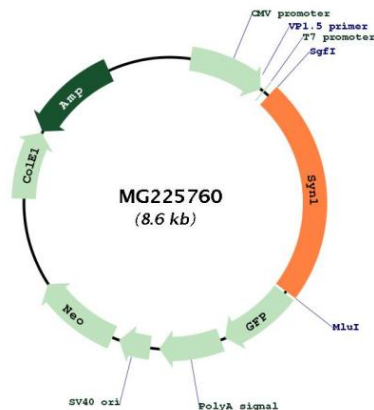
Locus ID: 20964

UniProt ID: [O88935](#)

Cytogenetics: X 16.37 cM

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 MG225760