

Product datasheet for **RR200460**

Syn1 (NM_019133) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syn1 (NM_019133) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Syn1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RR200460 representing NM_019133
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAACTACCTGCGGCGCCGCTGTCTCGACAGCAACTTCATGGCCAATCTGCCTAATGGGTATATGACAG
 ACCTGCAGCGCCCGCAACCACCTCCGCCCGCCCTCAGCCGCCAGCCCTGGGGCCACTCCCGGATCCGC
 TGCTGCCTCTGCCGAGAGGGCCTCCACAGCTGCTCCAGTGGCCTCTCCAGCAGCCCTAGTCCCGGGTCC
 TCGGGGGCGGTGGCTTCTTCTCCTCGTGTCTAACCGGGTCAAACAGACCACAGCAGCTGCAGCCGCCA
 CCTTCAGTGAGCAGGTGGCGGTGGCTCTGGGGCGCAGGCCGCGGGGGCCGCCAGGGTGTCTGT
 GGTTCATCGACGAGCCGCACACCGACTGGGCAAAATACTTCAAAGGGAAGAAGATCCATGGAGAAATTGAC
 ATTAAGTAGAGCAAGCTGAATTCTCCGATCTCAATCTTGTGGCTCATGCCAATGGTGGATTCTCCGTGG
 ACATGGAAGTTCTTCGGAATGGGTCAAAGTTGTGAGGTCTCTGAAGCCAGACTTTGTGCTGATCCGCCA
 GCATGCCCTCAGCATGGCAGTAATGGAGACTACCGCAGTTTGGTCATTGGGCTGCAGTATGCTGGGATC
 CCCAGTGTAACTCTTTGCATTCTGTCTACAACCTTTGTGACAAACCCTGGGTGTTTGCCAGATGGTTC
 GACTACACAAGAAGCTTGAACAGAGGAATCCCTCTGATTGATCAGACTTTCTATCCCAATCATAAAGA
 GATGCTCAGCAGCACAACATACCCTGTAGTTGTGAAGTGGGCCACGCACTCTGGGATGGGCAAGGTC
 AAGGTAGACAACCAACATGACTTCCAGGATATTGCAAGTGTGTGGCACTGACTAAGACATATGCCACTG
 CTGAGCCCTTCATTGATGCTAAATACGATGTGCGTGTCCAGAAGATTGGGCAGAACTACAAGGCCTACAT
 GAGGACATCAGTGTCCAGGAACTGGAAGACCAATACAGGCTCTGCTATGCTTGAGCAGATTGCTATGCT
 GACAGGTACAAGTTGTGGGTAGACACGTGCTCAGAGATTTTGGGGACTTGACATCTGCCAGTGAAG
 CACTGCATGGCAAGGACGAAGGGATCACATTATTGAGTGGTGGGCTCCTCCATGCCACTCATTGGGGA
 TACCAGGATGAAGACAAGCAGCTCATCGTGAACCTTGTGGTCAACAAGATGACTCAGGCTCTGCCTCGG
 CAGCGGGATGCTTCCCCTGGCAGGGTCCCACAGCCAGACTCCATCCCCAGGAGCCCTGCCCTTGGGCC
 GCCAGACCTCCCAGCAGCCTGCAGGACCTCCTGCTCAACAACGACCCCCACCCAGGGAGGCCCTCCACA
 ACCAGGCCAGGACCTCAGCGCCAGGGACCCCGCTGCAACAGCGCCACCCCAAGGCCAGCAACAT
 CTTTCTGGCCTTGGACCCCGAGCTGGCAGCCCTCTGCCCCAGCGCTACCAAGTCCACAGCAGCACCTC
 AGCAGTCCGCCTCTCAGGCCACCAATGACCCAGGGTCAAGGCCCCAGTCACGGCCAGTGGCAGGAGG
 CCCCAGGACCTCCAGCAGCCCGCCCGCCCTCCCATCTCCACAGCGTCAGGCAGGGCCCCACAG
 GCTACCCGTCAGGCATCTATCTCTGGTCCAGCTCCACCGAAGTCTCAGGAGCCTCACCCGAGGGCAGC
 AGCGCCAAGGCCCTCCCAGAAACCCAGGCCCTGCTGGTCCCATTCTCAGGCCAGCCAGGCAGGTCC
 CGGACCTCGCACTGGGCCACCCACCACAGCAGCCCCGCCCCAGCGGCCAGGTCTGTGGACGTCCC
 ACCAAACACAGCTGGCTCAGAAACCCAGCCAGGATGTGCCACCACCCATCATTGCTGCTGCCGGGGAC
 CCCCAGCCCCAGCTCAACAAATCCCAGTCTCTGACCAATGCCTTCAACCTTCCAGAGCCAGCCCCGC
 CAGGCCAGCCTTAGCCAGGATGAGGTGAAAGCTGAGACCATCCGCAGCCTGAGGAAGTCTTTCGCCAGC
 CTCTTCTCCGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR200460 representing NM_019133
 Red=Cloning site Green=Tags(s)

MNYLRRLSDSNFMANLPNGYMTDLQRPQPPPPPSAASPGATPGSAAASAERASTAAPVASPAAPSPGS
 SGGGGFFSSLNAVKQTAAAAATFSEQVGGSGGAGRGGAAARVLLVIDEPHTDWAKYFKGKKIHGEID
 IKVEQAEFSDLNLVAHANGGFSDMEVLRNGVKVVRSLKPDFVLIRQHAFSMARNGDYRSLVIGLQYAGI
 PSVNSLHSVYVNFCDKPWFVFAQMVRLHKKLGTEEFPLIDQTFYPNHKEMLSSTTYPVVVKMGHAHSGMGKV
 KVDNQHDFQDIASVVALTKYATAEPFIDAKYDVRVQKIGQNYKAYMRTSVSGNWK TNTGSAMLEQIAMS
 DRYKLWVDTCEIFGGLDICAVALHGKDGRDHIIEVVGSSMPLIGDHQDEDKQLIVELVVKMTQALPR
 QRDASPRGSHSQTPSPGALPLGRQTSQQPAGPPAQQRPPPQGGPPQPGPGPQRQGPPLQQRPPPQGGQH
 LSLGPPAGSPLPQRLPSPTAAPQQSASQATPMTQGGRSRPVAGGPGAPPAARPPASPSQRQAGPPQ
 ATRQASISGPAPPKVSASPGGQQRQPPQKPPGPAGPIRQASQAGPGPRTGPPTTQQPRPSGPGPAGRP
 TKPQLAQKPSQDVPPPIIAAAGGPPHPQLNKSQSLTNAFNLPEPAPRPSLSQDEVKAETIRSLRKFAS
 LFSD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_019133

ORF Size: 2112 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_019133.2](#), [NP_062006.1](#)

RefSeq Size: 3184 bp

RefSeq ORF: 2115 bp

Locus ID: 24949

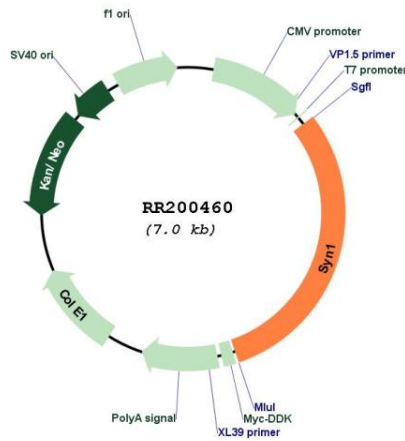
UniProt ID: [P09951](#)

Cytogenetics: Xq11

MW: 74 kDa

Gene Summary: may act as an anchoring protein by linking the vesicle phospholipid layer and the cytoskeleton in neuronal presynaptic terminals; may play a role in neurotransmitter release [RGD, Feb 2006]

Product images:



Circular map for RR200460