

Product datasheet for **RR200395**

Syn2 (NM_019159) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syn2 (NM_019159) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Syn2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RR200395 representing NM_019159
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATGAACCTTCCTGAGCGCCGCTGTGCGACAGCAGCTTCATTGCCAACCTGCCCAATGGCTACATGA
 CTGACCTTCAGCGCCCGAGCCGAGCAGCCCCACCGCCCTGGCCCCGGTACCGCTACCGCGTCGGC
 GGCCACCTCAGCTGCCTCGCCTGGCCCCGAGCGCAGGCCGCCACCGCCAGGCACCGCGCCGAGCCG
 GCGCCGAGCCCGCGCCGACGCCGTGGTGGGAGCAGCTTCTTCAGCTCGCTGTGCAAGCCGTGAAGC
 AGACGGCCGCTCCGCCGCTGGTGGACGCGCCGCGCCTTCGGCCGCTTCAGGAAGGCCAAGGTGCT
 GCTGGTGGTCGACGAGCCGACACCGACTGGGCCAAGTCTTCGGGGCAAAAAATCCTTGAGATTAT
 GACATCAAAGTAGAACAGGCAGAATTTTCAGAGCTTAACCTGGTGGCCATGCGGATGGAACCTACGCCG
 TGGACATGCAGGTAATCCGGAATGGCACAAGGTTGTAGGTCTTCAGGCCAGACTTCGTGCTCATCCG
 ACAGCATGCATTTGGCATGGCGGAGAATGAAGACTTCCGCCACCTGGTCATTGGCATGCAGTATGCAGGC
 CTCCCCAGCATCAACTACTGGAGTCCATTTACAACTTCTGTGACAAGCCATGGGTGTTTGTCTCAGATGG
 TGGCCATCTTCAAGACTGGGAGGGGAGAAATTTCACTCATTGAGCAGACCTACTACCCCAATACCCG
 AGAGATGCTTACACTTCTACGTTTCTGTCTGGTGAAGATTGGCCATGCTCACTCGGGCATGGGCAAG
 GTCAAAGTGAAAATCACTACGACTTCCAGGACATTGCCAGTGTGGTGGCCCTCACCCAAACCTATGCCA
 CAGCAGAACCTTCATTGACGCCAAGTATGACATCCGGGTTGAGAAGATTGGCAACAACCTACAAGGCTTA
 CATGAGGACATCCATCTCAGGGAAGTGAAGACAAACACTGGCTCCGCGATGCTGGAGCAGATCGCCATG
 TCAGACCGGTACAAGCTCTGGGTCGACGCTGCTCTGAGATGTTTGGGGGCTTGGACATCTGTGCAGTCA
 AAGCTGTGCATGGCAAAGATGGCAAAGACTACATTTTGGAGTCATGGACTGTAGCATGCCACTGATTGG
 GGAACACCAAGTGGAGGACAGACAACCTCACTGATCTAGTCATCAGCAAGATGAACAGCTATTGTCC
 AGGACTCTGCCCTGTCTCCACAGAGACCTTTAACCAACCAACAGCCACAGAGTGAACACTTAAGGAAC
 CGGACTCCAGCAAGACCCCTCTCAGCGGCCAGCCCCCAAGGTGTTTACAGTATATTCTCAACTGTAA
 TGGCATTGCAGTAGGTCCAAACAAGTCCAAGCTTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200395 representing NM_019159
 Red=Cloning site Green=Tags(s)

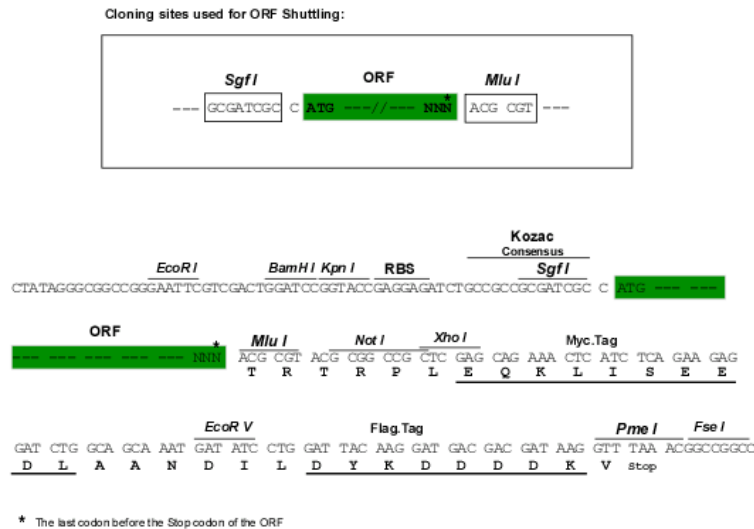
MMNFLRRRLSDSSFIANLPNGYMTDLQRPEPQQPPAPGPGTATASAATSAASPGPERRPPPAQAPAPQP
 APQPAPTSPVGSFFSSLSQAVKQTAASAGLVDAAPSAASRKAKVLLVDEPHTDWAKCFRGKKILGDY
 DIKVEQAEFSELNLVAHADGTYAVDMQVLRNGTKVVRSPDFVLIRQHAFGMAENEDFRHLVIGMQYAG
 LPSINSLESIYNFCDKPWVFAQMVAIFKTLGGEKFPLIEQTYYPNHREMLTPTFPVVVKIGHAHS GMGK
 VKVENHYDFQDIASVVALTQTYATAEPFIDAKYDIRVQKIGNNYKAYMRTSISGNWKTNTGSAMLEQIAM
 SDRYKLWVDACSEMFGGLDICA VKAVHGKDGKDYIFEVMDCSMPLIGEHQVEDRQLITDLVISKMNQLLS
 RTPALSPQRPLTTQPPQSGTLKEPDSSKTPPQRPAPQGCLQYILNCNGIAVGPQKQVQAS

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_019159

ORF Size: 1437 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_019159.1](#), [NP_062032.1](#)

RefSeq Size: 1754 bp

RefSeq ORF: 1440 bp

Locus ID: 29179

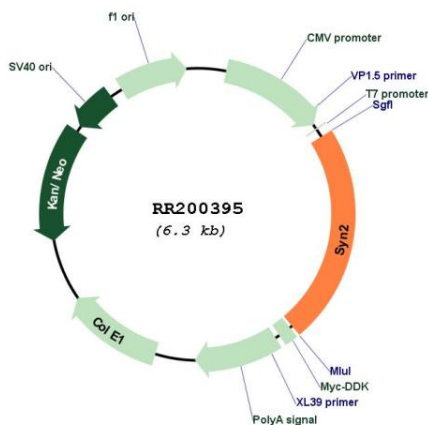
UniProt ID: [Q63537](#)

Cytogenetics: 4q42

MW: 52.5 kDa

Gene Summary: neuronal phosphoprotein that coats synaptic vesicles; binds to the cytoskeleton; may be important for vesicle trafficking to synapses and for the regulation of neurotransmitter release [RGD, Feb 2006]

Product images:



Circular map for RR200395