

Product datasheet for **MR209143**

Syn2 (BC085129) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syn2 (BC085129) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Syn2
Synonyms:	2900074L19Rik; AI836018; AI841723
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209143 representing BC085129
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACTTCTGAGGCGCCGGCTGTCGGACAGCAGCTTCATCGCCAACCTGCCAATGGCTACATGACTG
 ACCTTCAGCGCCCGAGCCGAGCAGACGCCCTCTGCCCTGGCCCGGTGCCGCTACGGCGTCGGCGGC
 CACCTCAGCTGCCTCGCCGGTCCCGAGCGCAGGCCGCCACCCGCCAGGCACCCGCGCCGAGCCGGC
 CCGCAGCCCGCGCCGACGCCGTGGTGGCAGCAGCTTCTCAGCTCGCTGTCGAAAGCGGTGAAGCAGA
 CGGCCGCTCCGCGGCCGTTGGTGGACGCGCCGACCTTCGGCCGCTCCAGGAAGGCCAAGGTGCTGCT
 GGTGGTCGACGAGCCGCACCCGACTGGGCCAAATGCTTTCGGGGCAAAAAATCCTTGGAGATTATGAC
 ATCAAGGTGGAACAGGCAGAATTCTCAGAGCTTAACCTGGTGGCCATGCAGATGGAACCTACGCCGTGG
 ACATGCAGGTAATTCGGAATGGCACAAGGTTGTCGGTCTTCAGACCAGACTTTGTGCTCATCCGACA
 GCATGCATTTGGCATGGCAGAGAATGAAGACTTCCGCCACCTGGTCATTGGCATGCAGTACGCAGGCCTC
 CCCAGCATCAACTCTCTGGAGTCTATTTACAACCTCTGTGACAAGCCGTGGGTGTTTGTCTCAGATGGTGG
 CCATCTTCAAGACACTGGGAGGGGAGAAATCCCACTCATTGAGCAGACATACTACCCCAATCACCGAGA
 GATGCTTACGTTCTACGTTCCCTGTGGTGGTGAAGATTGGCCATGCTCACTCAGGCATGGGCAAGGTC
 AAAGTGGAAAACTACTACGACTTCCAGGACATTGCCAGTGTGGTGGCCCTCACCCAACTTATGCCACGG
 CAGAACCCTTCATCGACGCCAAGTATGACATCCGAGTTCAGAAGATTGGCAACAATAAAGGCCTACAT
 GAGGACATCCATCTCAGGAACTGGAAGACAAACTGGCTCGGCATGCTGGAGCAAATGGCATGTCCG
 GACCCGTTACAAGCTCTGGTAGATGCCTGCTCTGAAATGTTTGGTGGCCTGGACATCTGTGACGTCAAAG
 CCGTGCAATGGCAAAGATGGCAAAGACTACATTTTGGAGTCACTGGACTGCAGCATGCCATTGATGGGGA
 ACACCAAGTGGAGGACAGACAACCTCATCTAGTCTAGTCAAGATGAACCAAGTATTGTCCAGG
 ACTCCTGCCCTGTCTCCACAGAGACCTTTAACCACCAACAGCCACAGAGTGAACACTTAAAGAACCGG
 ACTCCAGCAAGACCCCTCCTCAGCGCCACCTCCCAAGGGGGCCCTGGGCAACCCCAAGGAATGCAGCC
 CCCAGGCAAGGTGCTGCCTCCACGCCGGCTCCCTCGGGACCATCACTGCCATCTTCTCTCTTCTCTCC
 TCTCTTCTCTCTTCTTCTCGGCTCCTCAGAGGCCGGGGCCACCACCACCCACGGTATGCAT
 CCTCCAGCAGCAACTCCCTGGCAGAGGCCAGGCACCTCAGGCTGCTCCAGCACAGAAGCCACGCTCA
 CCCACAGCTCAACAAGTCGAGTCCCTGACAAATGCGTTCAGCTTCTCTGAGTCTCTTCTTCCGGTCT
 TCAGCCAATGAAGATGAAGCCAAAGCGGAGACCATCCGGAGCTTGAGGAAGTCTTTGCCAGCCTTTTT
 CAGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209143 representing BC085129
 Red=Cloning site Green=Tags(s)

MNFLRRRLSDSSFIANLPNGYMTDLQRPEPQQPPAPGPGAATASAATSAASPGPERRPPPAQAPAPQPA
 PQPAPTPSVGSSFFSSLQAVKQTAASAGLVDAPAPSAASRKAKVLLVDEPHTDWAKCFRGKKILGDYD
 IKVEQAEFSELNLVAHADGTYAVDMQVLRNGTKVVRFRPDFVLIRQHAFGMAENEDFRHLVIGMQYAGL
 PSINSLESIYNFCDKPWVFAQMVAIFKTLGGEKFLIEQTYYPNHREMLTLPTFPVVVKIGHAHSGMGKV
 KVENHYDFQDIASVVALTQTYATAEPFIDAKYDIRVQKIGNNYKAYMRTSISGNWKTNTGSAMLEQIAMS
 DRYKLWVDACSEMFGGLDICA VKAVHGKDGKDYIFEVMDCSMPLIGEHQVEDRQLITDLVISKMNQLLSR
 TPALSPQRPLTTQPPQSGTLKEPDSSKTPPQRPPPGGPGQPQGMQPPGKVLPPRRLPSGPSLPSSSSSS
 SSSSSSSAPQRPGPTTTHGDASSSSNSLAEQAQAAPAQKQPHPQLNKSQSLTNAFSFSESSFFRS
 SANEDAETIRSLRKSFAFLSD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC085129

ORF Size: 1755 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: [BC085129.1](#)
RefSeq Size: 2563 bp

RefSeq ORF: 1757 bp

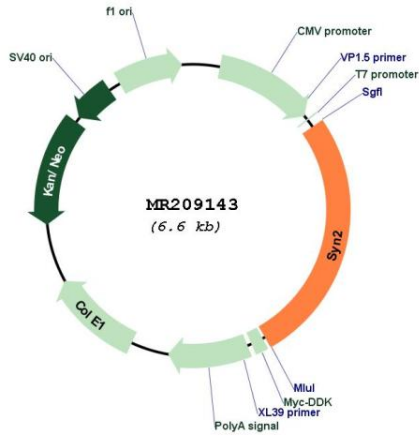
Locus ID: 20965

Cytogenetics: 6 53.2 cM

MW: 93.9 kDa

Gene Summary: Neuronal phosphoprotein that coats synaptic vesicles, binds to the cytoskeleton, and is believed to function in the regulation of neurotransmitter release. May play a role in noradrenaline secretion by sympathetic neurons.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209143