

Product datasheet for **MG209143**

Syn2 (BC085129) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syn2 (BC085129) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Syn2
Synonyms:	2900074L19Rik; AI836018; AI841723
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG209143 representing BC085129
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACTTCTGAGGCGCCGGCTGTCGGACAGCAGCTTCATCGCCAACCTGCCAATGGCTACATGACTG
 ACCTTCAGCGCCCGGAGCCGAGCAGCCCCCTCTGCCCTGGCCCCGGTGCCTACGGCGTACGGCGTCCGGCGC
 CACCTCAGCTGCCTCGCCGGTCCCGAGCGCAGGCCGCCACCCGCCAGGCACCCGCGCCGAGCCGGCG
 CCGCAGCCCGCGCCGACGCCGTGGTGGGACGAGCTTCTCAGCTCGTGTGCAAGCGGTGAAGCAGA
 CGGCCGCCTCCGCCGGCTGGTGGACGCGCCGACCTTCGGCCGCTCCAGGAAGGCCAAGGTGCTGCT
 GGTGGTCGACGAGCCGCACACCGACTGGGCCAAATGCTTTCGGGGCAAAAAATCCTTGGAGATTATGAC
 ATCAAGGTGGAACAGGCAGAATTCTCAGAGCTTAACCTGGTGGCCATGCAGATGGAACCTACGCCGTGG
 ACATGCAGGTAATTCGGAATGGCACAAGGTTGTCGGTCTTCAGACCAGACTTTGTGCTCATCCGACA
 GCATGCATTTGGCATGGCAGAGAATGAAGACTTCCGCCACCTGGTCATTGGCATGCAGTACGCAGGCCTC
 CCCAGCATCAACTCTCTGGAGTCTATTTACAACCTCTGTGACAAGCCGTGGGTGTTTGTCTCAGATGGTGG
 CCATCTTCAAGACACTGGGAGGGGAGAAATCCCACCTATTGAGCAGACATACTACCCCAATCACCGAGA
 GATGCTTACGTTCTTACGTTCCCTGTGGTGGTGAAGATTGGCCATGCTCACTCAGGCATGGGCAAGGTC
 AAAGTGGAAAACTACTACGACTTCCAGGACATTGCCAGTGTGGTGGCCCTCACCCAACTTATGCCACGG
 CAGAACCCTTCATCGACGCCAAGTATGACATCCGAGTTCAGAAGATTGGCAACAATAAAGGCCTACAT
 GAGGACATCCATCTCAGGAACTGGAAGACAAACTGGCTCGGCATGCTGGAGCAAATGGCATGTGCG
 GACCGGTACAAGCTCTGGTAGATGCCTGCTCTGAAATGTTGGTGGCCTGGACATCTGTGCAGTCAAAG
 CCGTGATGGCAAAGATGGCAAAGACTACATTTTGGAGTCACTGCAGCATGCCATTGATTGGGGA
 ACACCAAGTGGAGGACAGACAACCTCATCACTAGTATCAGCAAGATGAACCAAGTATTGTCCAGG
 ACTCCTGCCCTGTCTCCACAGAGACCTTTAACCACCAACAGCCACAGAGTGAACACTTAAGGAACCGG
 ACTCCAGCAAGACCCCTCCTCAGCGCCACCTCCCAAGGGGGCCCTGGGCAACCCCAAGGAATGCAGCC
 CCCAGGCAAGGTGCTGCCTCCACGCCGGCTCCCCTCGGGACCATCACTGCCATCTTCTTCTTCTCTCC
 TCTCTTCTCTCTTCTTCTCGGCTCCTCAGAGGCCGGGGCCACCACCACCCACGGTATGCAT
 CCTCCAGCAGCAACTCCCTGGCAGAGGCCAGGCACCTCAGGCTGCTCCAGCACAGAAGCCACGCTCA
 CCCACAGCTCAACAAGTCGAGTCCCTGACAAATGCGTTCAGCTTCTCTGAGTCTCTTCTTCCGGTCT
 TCAGCCAATGAAGATGAAGCCAAAGCGGAGACCATCCGGAGCTTGAGGAAGTCTTTGCCAGCCTTTTT
 CAGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209143 representing BC085129
 Red=Cloning site Green=Tags(s)

MNFLRRRLSDSSFIANLPNGYMTDLQRPEPQQPPAPGPGAATASAATSASPGERPPPAQAPAPQPA
 PQPAPTPSVGSSFFSSLQAVKQTAASAGLVDAPAPSAASRKAKVLLVDEPHTDWAFCFRGKILGDYD
 IKVEQAEFSELNLVAHADGTYAVDMQVLRNGTKVVRFRPDFVLIRQHAFGMAENEDFRHLVIGMQYAGL
 PSINSLESIYNFCDKPWVFAQMVAIFKTLGGEKFLIEQTYYPNHREMLTLPTFPVVVKIGHAHSGMGKV
 KVENHYDFQDIASVVALTQTYATAEPFIDAKYDIRVQKIGNNYKAYMRTSISGNWKTNTGSAMLEQIAMS
 DRYKLWVDACSEMFGGLDICAOKAVHKGDKDYIFEVMDCSMPLIGEHQVEDRQLITDLVLSKMNQLLSR
 TPALSPQRPLTTQPQSGTLKEPDSSKTPPQRPQGGPQGMQPPGKVLPPRRLPSGSLPSSSSSS
 SSSSSSSAPQRPQGGPTTTHGDASSSSNSLAEQAQAPAQAQKPPHPQLNKSQLTNAFSFSESSFFRS
 SANEDAETIRSLRKSFAFLSD

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC085129.1](#)

RefSeq Size: 2563 bp

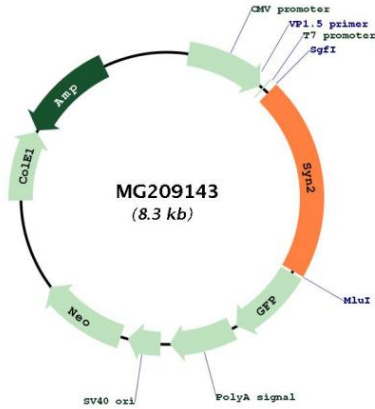
RefSeq ORF: 1757 bp

Locus ID: 20965

Cytogenetics: 6 53.2 cM

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 MG209143