

## Product datasheet for **MG217591**

### Sntg1 (NM\_027671) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sntg1 (NM_027671) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sntg1
Synonyms:	4933426D16Rik; G1SYN; SYN4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG217591 representing NM\_027671  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGATTTCAGAACTACCTGTGAGGAGACGAAGACAGGTGTTTGCTTGTACAAGATGGTAAATCAAGAAC  
 CTTTTAAAGTCCGGTTACACCTTGCCAGAGACCTGTTGATGCTACAGGAGCAGGATGTGCTGTGTGTGTC  
 TGGTGAGCCTTTCTATTCTGGTGAAGAACGGTGACCATCAGAAGACAGACAGTAGGAGGATTCCGATTA  
 AGCATAAAGGGAGGTGCAGAACATAACATCCCGGTTGTCATTTCCAAAATATCTAAGGAGCAAAGAGCAG  
 AGCTGTCGGGGCTGCTTTTTATTGGAGATGCAATTCTACAGATAAATGGAATTAATGTGAGGAAATGCAG  
 ACATGAGGAGGTGGTTCAGGTTCTTCGGAATGCTGGGGAGGAAGTGACCCTGACAGTGTCTTTAAAA  
 CGAGCACCTGCTTTCCTCAAACCTCCAGTTAATGAAGACTGTGCATGTCTCCAAGTGACCAAAGCAGTG  
 GTACCTCTCTCCTCTTTGTGACAGTGGCTTACACCTCAACTACCATCCAATAACACAGACACGCTTTC  
 CTGCTCTTCGTGGCCACATCTCCAGGCCTGAGGTGGGAGAAGCGGTGGTGTGACCTCAGGCTCATTCCC  
 CTACTTCATGCCCGCTTCTCTCAGTATGTGCCCGGACTGACCTGAGTCGGCAGAACGCTTTCCAAAGTTG  
 TTGCTGTGGATGGAGTCTGCAGTGAATTTCTCAGTGCCTCTCTGCTGAAGACTGCATGGATTGGCTCCA  
 AGCAATAGCATCTAACATTTCAAACCTCACAAGCACAATATCAAAAAATCAACAGAAATTTCCCTGTA  
 AACCAGCAGATAGTCTACATGGGCTGGTGTGAAGCCCGGAGCAGGAATCCCTCCAAGACCGTGTGTATA  
 CACCTGTGTTTCTTCCCTGAGGGGCTCCTGTCTTTACAGGTTCTGTACCTCCAGTGACCACCTGGGA  
 CTGGACTCGAGCAGAGAAAACCTTCTCCGTGTGTGAGATCATGTGCAAGTTCTCAAGGACAGTGACCTG  
 CTGGACTCGGCGGAAACATTGCTTCACTATGCAGTCTGAGTGTGGGAGGACCTCTACTTCTGTGGAGC  
 TAGAGAGTGACCTTCCCAATGGGAACGAGCCTTCCAAAACAGCCACCTTCTTGAAGTGGAGCGCATACA  
 GTGCAAGACCTATGCATGTGTGTTGGAGAGTCACTTAATGGGCCTCACTATTGACTTCAGCACAGGCTTC  
 ATCTGCTTTGACGAGCAACAAAGGCTGTACTTTGGAGGTATAAAATTTCTCAGCTTAAAGGCTCATCAG  
 ATGACGGCAAAAGCAAAATCAAATTTCTGTTTCAGAATCCAGATACGAAACAGATTGAAGCAAAGGAGTT  
 GGAATTTTCAAATTTATTTGCTGTTCTTCACTGTATTCATTCTTTTGTGCCAAAGTAGCTGTTTGG  
 GACCTCTGTTTTAGGTAATCAGGCTGCCACTACTGCTGCTGTGAGCTCTGCTTCTACAAGCAAGGCAA  
 AGCACCTGGCT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG217591 representing NM\_027671  
 Red=Cloning site Green=Tags(s)

MDFRFTCEETKTGVCLLDQGNQEPFKVRLHLARDLLMLQEQDVLVSGEPFYSGERVTIRRQTVGGFGL  
 SIKGGAEHNIPIVVISKISKEQRAELSGLLFIGDAILQINGINVRKCRHEEVVQVLRNAGEEVTLSVFLK  
 RAPAFLLKLPVNEDCACAPSDQSSGTSSPLCDSGLHLNYHPNNTDLSCSSWPTSPGLRWEKRWCDLRLIP  
 LLHARFSQYVPGTDL SRQNAFQVAVDGVCSGILQCLSAEDCMDWLQAIASNISNLTKHNIKINRNFV  
 NQQIVYMGWCEAREQESLQDRVYTPVFLALRGSCLYRFLSPPVTTWDWTRAEKTF SVCEIMCKVKLKDSDL  
 LDRRKHCFTMQSECGEDLYFSVELESCLAQWERAFQTATFLEVERIQCKTYACVLESHLMGLTIDFSTGF  
 ICFDAATKAVLWRYKFSQLKGSSDDGKSKIKFLFQNPDTKQIEAKELEFSNLFVAVLHCIIHSFFAAKVAEL  
 DPLFLGNQAATTAAVSSASTSKAKHLA

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_027671

ORF Size: 1551 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\\_027671.5](#), [NP\\_081947.2](#)

RefSeq Size: 4193 bp

RefSeq ORF: 1554 bp

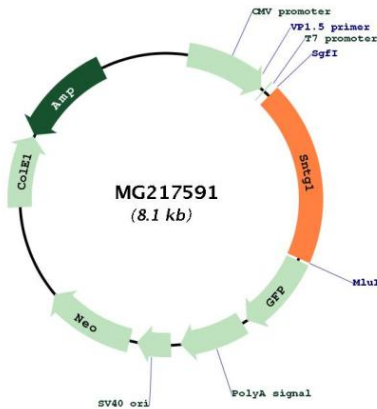
Locus ID: 71096

Cytogenetics: 1 A1-A2

**Gene Summary:**

Adapter protein that binds to and probably organizes the subcellular localization of a variety of proteins. May link various receptors to the actin cytoskeleton and the dystrophin glycoprotein complex. May participate in regulating the subcellular location of diacylglycerol kinase-zeta to ensure that diacylglycerol is rapidly inactivated following receptor activation (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG217591