

## Product datasheet for **MR217591**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Sntg1 (NM_027671) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sntg1
Synonyms:	4933426D16Rik; G1SYN; SYN4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR217591 representing NM\_027671  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGATTTCAGAACTACCTGTGAGGAGACGAAGACAGGTGTTTGCTTGTACAAGATGGTAAATCAAGAAC  
 CTTTTAAAGTCCGGTTACACCTTGCCAGAGACCTGTTGATGCTACAGGAGCAGGATGTGCTGTGTGTGTC  
 TGGTGAGCCTTTCTATTCTGGTGAAGAACGGTGACCATCAGAAGACAGACAGTAGGAGGATTCCGGATTA  
 AGCATAAAGGGAGGTGCAGAACATAACATCCCGGTTGTCATTTCCAAAATATCTAAGGAGCAAAGAGCAG  
 AGCTGTCGGGGCTGCTTTTTATTGGAGATGCAATTCTACAGATAAATGGAATTAATGTGAGGAAATGCAG  
 ACATGAGGAGGTGGTTCAGGTTCTTCGGAATGCTGGGGAGGAAGTGACCCTGACAGTGTCTTTAAAA  
 CGAGCACCTGCTTTCCTCAAACCTCCAGTTAATGAAGACTGTGCATGTCTCCAAGTGACCAAAGCAGTG  
 GTACCTCTCTCCTCTTTGTGACAGTGGCTTACACCTCAACTACCATCCAATAACACAGACACGCTTTC  
 CTGCTCTTCGTGGCCACATCTCCAGGCCTGAGGTGGGAGAAGCGGTGGTGTGACCTCAGGCTCATTCCC  
 CTACTTCATGCCCGCTTCTCTCAGTATGTGCCCGGACTGACCTGAGTCGGCAGAACGCTTTCCAAAGTTG  
 TTGCTGTGGATGGAGTCTGCAGTGGAAATCTTCAGTGCCTCTCTGCTGAAGACTGCATGGATTGGCTCCA  
 AGCAATAGCATCTAACATTTCAAACCTCACAAAGCACAATATCAAAAAATCAACAGAAATTTCCCTGTA  
 AACCAGCAGATAGTCTACATGGGCTGGTGTGAAGCCCGGAGCAGGAATCCCTCCAAGACCGTGTGTATA  
 CACCTGTGTTTCTTGCCCTGAGGGGCTCCTGTCTTTACAGGTTCTGTACCTCCAGTGACCACCTGGGA  
 CTGGACTCGAGCAGAGAAAACCTTCTCCGTGTGTGAGATCATGTGCAAGTTCTCAAGGACAGTGACCTG  
 CTGGATCGCGGAAACATTGCTTCACTATGCAGTCTGAGTGTGGGAGGACCTCTACTTCTCTGTGGAGC  
 TAGAGAGTGACCTTGCCCAATGGGAACGAGCCTTCCAAACAGCCACCTTCTTGAAGTGGAGCCATACA  
 GTGCAAGACCTATGCATGTGTGGTGGAGAGTCACTTAATGGGCCTCACTATTGACTTCAGCACAGGCTTC  
 ATCTGCTTTGACGCAGCAACAAAGGCTGTACTTTGGAGGTATAAAATTTCTCAGCTTAAAGGCTCATCAG  
 ATGACGGCAAAAGCAAAATCAAATTTCTGTTTCAGAATCCAGATACGAAACAGATTGAAGCAAAGGAGTT  
 GGAATTTTCAAATTTATTTGCTGTTCTTCACTGTATTCATTTTCTGCTGCCAAAGTAGCTGTTTGG  
 GACCTCTGTTTTAGGTAATCAGGCTGCCACTACTGCTGCTGTGACGCTCTGCTTCTACAAGCAAGGCAA  
 AGCACCTGGCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR217591 representing NM\_027671  
 Red=Cloning site Green=Tags(s)

MDFRRTCEETKTGVCLLQDGNQEPFKVRLHLARDLLMLQEQDVLCVSGEPFYSGERTVTIRRQTVGGFGL  
 SIKGGAEHNIIPVVISKISKEQRAELSGLLFIGDAILQINGINVRKCRHEEVVQVLRNAGEEVTLSVFLK  
 RAPAFLLKLPVNEDCACAPSDQSSGTSSPLCDSGLHNLNHPNNTDLS CSSWPTSPGLRWEKRWCDLRLIP  
 LLHARFSQYVPGTDL SRQNAFQVAVDGVCSGILQCLSAEDCMDWLQAIASNISNLTKHNIKKINRFPV  
 NQQIVYMGWCEAREQESLQDRVYTPVFLALRGSCLYRFLSPPVTTWDWTRAETFSVCEIMCKVLKDSDL  
 LDRRKHCFTMQSECGEDLYFSVELESDLAQWERAFQTATFLVERIQCKTYACVLESHLMGLTIDFSTGF  
 ICFDAATKAVLWRYKFSQLKGSSDDGKSKIKFLFQNPDTKQIEAKELEFSNLFVAVLHCIHSFFAAKVA  
 CLDPLFLGNQAATTAAVSSASTSKAKHLA

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9078\\_f07.zip](https://cdn.origene.com/chromatograms/mm9078_f07.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**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:** 7267 bp

**RefSeq ORF:** 1554 bp

**Locus ID:** 71096

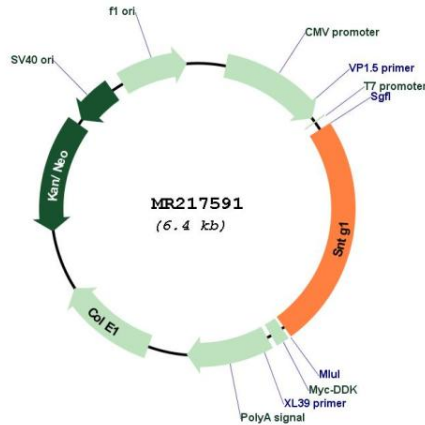
**Cytogenetics:** 1 A1-A2

**MW:** 58 kDa

**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 MR217591