

Product datasheet for **MG217085**

Sntg2 (NM_172951) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Sntg2
Synonyms:	2210008K22Rik; 9530013L23; BB121248; G2syn; Syn5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >MG217085 representing NM_172951
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGCGCCGAGGGATCGCAGTCCCTGGCCGCCCCCGGGCGTCTAGTCACCTACTGGTGCCCGCGC
 GGACAAAACAGCTCTAGCCTTGTTGTATGACGAGGGTTGGAAAATGCCTATGACGTCCGCCTGAAGCT
 GACAAAGGAGGTGCTGACTATTCAAAAGCAAGATGTTGTGTGCATCGGGGAGCTCCTCCTGGTGCTAAT
 CACAGAAGTGTACTTTCGCAGACAACCTGTGGTGGCCTGGGCCTAAGTATCAAGGGAGGAGCAGAGC
 ATGGGGTCCCCGTGTCATATCTAAAATATTCAAAGACCAAGCAGCTGACCAGACAGAGATGTTGTTTCAT
 AGGAGATGCTGTACTACAGTTAATGGCATTAAATGTAGAAAACGCAACCCATGAAGAAGTGGTGTCATCTT
 CTGAGAAAACGCTGGAGATGACGTCACCATCACTGTTGAGTATCTCAGGGAAGCACCCCTCATTCTGAAGC
 TGCCATTAGGGTCCCCAGGCCATCCAGTGACCATAGCAGCAGGGCCTCATCGCCTCTCTTTGACAGTGG
 CCTGCACCTGAATGGCACTGCAGCCACACAGCTCCATCATCACCTTCCTCGCCCATAGCTAATGAACCA
 AAGTATGAGAAGCGTTGGCTAGACACCTTGTGAGTCCCTCTGTCTATGGCTCGGATCTCCAGATACAAAAG
 CTGGAACAGAAAAGCTCAGGTCAGTGCATTGGAGGTGCTGGCCCTGGATGGAGCCAGCACAGGAGTCTCT
 TCAATCTCCACTGCCAGGACTGTGCTGACTGGTTCGCTTCAATCTCAACCAACATCAGTGACCTGACG
 CTTCAACATATGAAAATGGCAAATAAATGCTGTCTCCCTGTGACCAGGTGGTGACATGGGATGGGTAA
 ATGAGAGGCTCCAAGGAGCTGACAACCTCTCAGAACTTCAGACCCAAGTTCTTGGCCCTGAGGGGTTTCATC
 ATTCTACATTTTTGGCGCTCTCCGGTAAGCACACTGGACTGGGACGAGCAGAACGTCCTATAACCTC
 TGTGAGGTGCTGTTAAAGTTCACAAGTCTGGCTTTCAGATAACTATTGGCTGCAGGCAACCTGTATC
 TTGGTCTCCAAGATTTTACTGTGAAGACCCAGGTCATACTGCTTCAGCGTCTGGCCAACCATGGGAA
 GAGCCACATCTTCAAGTGTAGAGCTGGGCAGTGAGCTGGCCGTGTTGGGAGAAGGCATTCCAAAAGCAACT
 TTCATGGAAGTTCAGAGAACCAGGTCAAAACATATCTGTGCAAGTGGCAAGGGGAGACGCTGTGCTTCA
 CGGTGGATTTTGTCTGGGATTCACCTGCTTTGACGGTAAGACAAAAGACGTAAGTCTGGAGATTCAGTT
 CTCTCAGCTTAAGGGATCTCAGATGACGGGAAGACTCGAGTAAAGCTGCTGTTTCAAGATCTGGACACC
 AAGCAGATTGAAACGAAGGAGCTGGAGTTCCAGGATTTGACGGCGCTCTGCACTGCATCCACTCCTTCA
 TTGCCGCAAGGTGGCCTCCCTGGACCCCGTTCATGGACAGCCAGAGTATGGCAAGAAGATACCTGTG
 CAGCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG217085 representing NM_172951
 Red=Cloning site Green=Tags(s)

MSAEGSQLAAPRGRPSHLLVPARTKTALALLYDEGLENAVDVRLKLTKEVLTIQKQDVVCIIGGAPPAN
 HRTVTLLRRQPVGGLGLSIKGGAHEGVPVVISKIFKDQAADQTEMLFIGDAVLQVNGINVENATHEEVVHL
 LRNAGDDVITITVEYLREAPFLKPLGSPGSSDHSSRASSPLFDSGLHLNGHCSHTAPSSPSSPIANEP
 KYEKRWLDTLSVPLSMARISRYKAGTEKLRSSALEVLALDGASTGVLQFSTAQDCADWLRISITNISDLT
 LQHMKMANKCCSPCDQVVMGWVNERLQGADNSQNFPRPKFLALRGSFYIFGAPPVSTLDWGRAERAYNL
 CEVLFKVKHFWLSDNYWLQANLYLGLQDFDCEDPRSYCFSVLANHGKSHIFSVELGSELAVWEKAFQRAT
 FMEVQRTGSKTYLCSWQGETLCTVDFALGFTCFDGKTKNVLWRFKFSQLKGSDDGKTRVKLLFQNLDT
 KQIETKELEFQDLTAVLHCIHSFIAAKVASLDPVFMDSQSMARRYLCSS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_172951

ORF Size: 1617 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: [NM_172951.3](#), [NP_766539.2](#)

RefSeq Size: 2337 bp

RefSeq ORF: 1620 bp

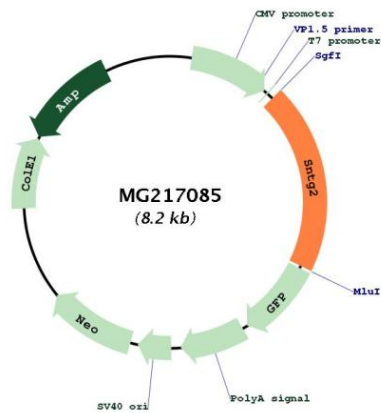
Locus ID: 268534

UniProt ID: [Q925E0](#)

Cytogenetics: 12 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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG217085