

Product datasheet for **RG211170**

SNTG1 (NM_018967) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SNTG1 (NM_018967) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SNTG1
Synonyms:	G1SYN; SYN4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG211170 representing NM_018967
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATTT**CAGA**ACCGCCTGTGAGGAGACA**AAAGACAGGA**ATTTGTTT**GCTGCAGGATGGTAA**CCAGGAGC
 CTTTCAAAGT**GCGCTGCACCTAGCCAAAGACATTTT**GATGATCCAGGAACAGGATGTGATATGTGTGTC
 TGGTGAGCCTTTCTATTCTGGT**GAAAGA**ACGGTGACCATCAGAAGACAAACAGTAGGAGGATTTGGATTA
 AGCATA**AAAGGAGGAGCAGA**ACATAACATTCCAGTTGTCGTTTCAAAAATCTCCAAGGAACAAAGAGCGG
 AACTTT**CAGGACTACTTTTT**ATTGGAGATGCAATTCTACAGATAAATGGCATTAA**TGTGAGAAAA**TGTAG
 ACATGAAGAA**GTGGTTCAGGTTCTTC**GGAATGCTGGAGAAGAAGT**GACTTAACAGTGTCA**TTTTAAAA
 AGAGCACCTGCTTCTC**CAAAC**CCATTGAATGAAGATTGTGCATGTGCTCCAAGT**GACCAGAGCAGT**
 GCACCTCTCCTCTCTGTGACAGTGGCTTACATCTCAACTACCATCCCAACAATACAGACACATTATC
 ATGCTCGTCGTGGCCGACGTCTCCAGGCTTGAGGTGGGAGAAGCGATGGTGCACCTCAGACTGATCCCT
 CTACTTCA**TTTCGCGCTTCTCT**CAGTATGTGCCCGCACAGATTTGAGTCGGCAGAAATGCCTTTCAAGTCA
 TTGCTGTGGATGGGGTCTGCACTGGGATTATTCAGTGCCTCTCTGCTGAAGACTGCGTTGACTGGCTACA
 AGCAATAGCAACTAACATTTCAAATCTCACA**AAAGCACA**ATATTA**AAAAA**CAACAGAACTTTCTCTGTA
 AACCAGCAGATTGTCTACATGGGCTGGTGTGAAGCCCGGAGCAAGACCCCTCCAGGACAGAGTACT
 CCCC**GAC**TTCTGGCCCTGAGGGGCTCATGTCTCTACAAGTTTCTGGCACCTCCAGTGACCACCTGGGA
 CTGGACAAGAGCAGAGAAAACATTTCTAGTTTATGAGATTATGTCAAGATCCTCAAGGACAGTGACCTG
 CTGGACCGACGGAAACAGTGTCTCACCGTGCAGTCTGAGTCTGGGAGGACCTGACTTCTCAGTGGAGC
 TGGAAAGT**GACCTCGCC**CAGTGGGAAAGAGCCTCCAGACAGCAACCTTTCTAGAAGTAGAACGGATCA
 GTGCAAGACCTATGCATGTGTGCTAGAAAGTCATCTAATGGGACTCACAATTGATTT**CAGCACAGGAT**
 ATCTGCTTTGATGCTGCAACAAGGCTGTCTTTGGAGGTATAAATTTCTCTCAGCTTAAAGTTCTTCAG
 ATGATGGCAAGAGCAAAATCAAATTTTTGTTT**CAGA**ATCCAGATACTAAACAGATTGAAGCAAAGGAGTT
 GGAATTTTCTAATTTATTTGCTGTTCTT**CACTGC**ATTCTTCTTTGCTGCCAAGGTAGCTTGTGTTG
 GACCTCTATTTTAGGCAATCAAGCTACTGCTTCTACTGCTGCCAGCTCTGCTACCACGAGCAAAGCAA
 AGTATACA**ACT**

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG211170 representing NM_018967
 Red=Cloning site Green=Tags(s)

MDFR**TACEETKTGICLLQDGNQEPFKVRLHLAKDILMIQEQDVICVSGEPFYS**GERTVTIRRQ**T**VG**GFGL**
 SIKGGA**AEHNIPVVVSKISKEQRAELSGLLFIGDAILQINGINVRKCRHEEVVQVLRNAGEE**VTLTVS**FLK**
 RAPA**FLKLPLNEDCACAPSDQSSGTSSPLCDSGLHLNYHPNNTD**TLSCSSWPT**SPGLRWEKRWCDLRLIP**
 LLHS**RF**SQYVPGDL**SRQNAFQVIAVDGVCTGIQCLSAEDCVDWLQAIATNISNLTKHNIKKINR**NFPV
 NQQI**VYMGWCEAREQDPLQDRVYSPTFLALRGSLYKFLAPPVTTWDWTRA**EKTF**SVYEIMCKILKDS**DL
 LDRR**KQCFTVQSESGEDLYFSVELES**DLAQWERA**FQTATFLEVERIQCKTYACVLESHLMGLTIDFSTGF**
 ICFDAATKAVLWRYKFSQ**LKGSSDDGKSKIKFLFQNPDTKQIEAKELEFSNLFAVLH**CIHSFFAAK**VACL**
 DPLFLGNQATASTAASSATTSKAKYTT

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_018967

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_018967.1](#), [NP_061840.1](#)

RefSeq Size: 1889 bp

RefSeq ORF: 1554 bp

Locus ID: 54212

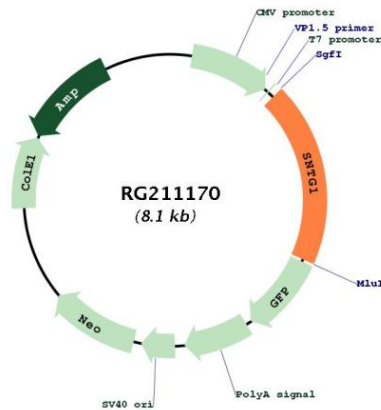
UniProt ID: [Q9NSN8](#)

Cytogenetics: 8q11.21

Domains: PDZ, PH

Gene Summary: The protein encoded by this gene is a member of the syntrophin family. Syntrophins are cytoplasmic peripheral membrane proteins that typically contain 2 pleckstrin homology (PH) domains, a PDZ domain that bisects the first PH domain, and a C-terminal domain that mediates dystrophin binding. This family member plays a role in mediating gamma-enolase trafficking to the plasma membrane and in enhancing its neurotrophic activity. Mutations in this gene are associated with idiopathic scoliosis. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Mar 2016]

Product images:



Circular map for RG211170