

Product datasheet for **SC304642**

Syntrophin gamma 2 (SNTG2) (NM_018968) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syntrophin gamma 2 (SNTG2) (NM_018968) Human Untagged Clone
Tag:	Tag Free
Symbol:	Syntrophin gamma 2
Synonyms:	G2SYN; SYN5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >SC304642 representing NM_018968.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGCACCGAGGGACCCCGCCCCCGGCCGCTCCCGCGGACGCCAGGGCTGCCTGCTGGTACCTGCG
CGGACGAAAACCACTATTGCTCTGTTGTATGATGAAGAGTCCGAAAAATGCCTATGACATCCGGCTGAAG
CTGACGAAAAGAGGTGCTGACAATTAGAAAACAAGATGTTGTCTGTGTGGCGGGAAGCCACCAAGGGCAGG
AATCGCAGAAGCTGTACACTCCGACAGACGCCAGTTGGCGGCTTGGGCTGAGTATAAAGGGAGGTTCT
GAGCACAACGTCCTGTCTCATATCAAAAATATTCGAAGACCAAGCAGCTGACCAGACAGGGATGTTG
TTCGTAGGAGATGCTGTTCTCCAGGTTAATGGCATACATGTAGAAAATGCAACTCATGAAGAAGTGGTG
CATCTGCTGAGAAATGCTGGCGATGAAGTTACCATCACCGTTGAGTATCTCAGGGAAGCGCCGGCATT
CTGAAGCTCCCGTTAGGGTCCCAGGGCCATCCAGCGACACAGCAGTGGGGCTCCTCTCCCCTCTTT
GACAGCGGTTTGATCTGAACGGAACTCCAGTACCACAGCCCCATCGTCACTTCTCTGCCATAGCT
AAGGACCCGAGGTATGAGAAGCGCTGGCTGGACACCTTGTCGTCGCTCTGTCCATGGCTCGCATCTCA
AGGTACAAGCCGGAACGGAATAAAGGTGGAATGCGTTGAGGTGCTCGCCCTGGACGGAGTCAGC
TCTGGGATCCTCCGTTTTACACAGCCAGGATGGCACCGACTGGCTGCGGGCGGTCTCAGCCAACATC
AGGGAGCTGACACTCAGAACATGAAGATGGCGAACAATGCTGCTCTCTTCCGACCAGGTTGTGCAT
ATGGGGTGGGTAATGAGAACTCCAAGGAGCTGACTCTCTCAAACCTTCAGACCAAGTTCTAGCA
CTGAAGGGCCCGTCTTCTACGTTTTTCAGCACTCCTCCGGTGAACATTCGATTGGGTGCGAGCAGAA
AGGACCTATCACCTCTGTGAGGTGCTATTTAAAGTTCACAAGTTCTGGCTCAGAGGAGTCTGCTGTG
CAAGCAAACCTGTATCTGGGTCTTCAAGATTTGACTTTGAGGACCAGAGGCCCTATTGCTTCAGCATC
GTGGCCGGCCATGGGAAGAGCCATGTTTTCAACGTGGAGCTTGGCAGCGAGCTGGCCATGTGGGAGAAG
TCCTTCCAAAGAGCCACGTTTATGGAAGTTACAGAAACCGGGTCCAGAACATACATGTGCAGCTGGCAA
GGAGAGATGCTGTGTTTACGGTGGATTTCCGCTTGGGATTTACCTGTTTTGAGAGTAAGACCAAGAAT
GTGCTCTGGAGATTTAAATTTCCAGCTTAAGGGATCTTCAGATGATGGGAAAACTCGAGTAAAGCTG
CTGTTTCAGAATCTGGACACCAACAGATTGAGACGAAGGAACCTCGAGTTCCAGGACCTGAGGGCTGTC
CTGCATCTGCATCCACTCCTTCATAGCAGCCAAGGTGGCTCCGTGGACCCCGGCTTCATGGACAGTCAG
AGTCTTCCAGAAAATACATGTACAGCAGCTAA
ACCGCTACGCGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCGCCGGC

Restriction Sites: Sgfl-MluI

ACCN: NM 018968

Insert Size: 1620 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_018968.3](#)

RefSeq Size: 1905 bp

RefSeq ORF: 1620 bp

Locus ID: 54221

UniProt ID: [Q9NY99](#)

Cytogenetics: 2p25.3

MW: 60.2 kDa

Gene Summary: This gene encodes a protein belonging to the syntrophin family. Syntrophins are cytoplasmic peripheral membrane proteins that bind to components of mechanosensitive sodium channels and the extreme carboxy-terminal domain of dystrophin and dystrophin-related proteins. The PDZ domain of this protein product interacts with a protein component of a mechanosensitive sodium channel that affects channel gating. Absence or reduction of this protein product has been associated with Duchenne muscular dystrophy. There is evidence of alternative splicing yet the full-length nature of these variants has not been described. [provided by RefSeq, Jul 2008]