

## Product datasheet for **RG208309**

### Syntrophin (SNTB2) (NM\_006750) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Syntrophin (SNTB2) (NM_006750) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Syntrophin
Synonyms:	D16S2531E; EST25263; SNT2B2; SNT3; SNTL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG208309 representing NM\_006750  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGGGTAGCTGCGCGACTGCGGCGGCTGGAGCGGGCCGCCATGGCGGTGTGGACGCGGGCCACCA  
 AAGCGGGGCTGGTGGAGCTGCTCCTGAGGGAGCGCTGGGTCCGAGTGGTGGCCGAGCTGAGCGGGGAGAG  
 CCTGAGCCTGACGGGCGACGCCGCCGCGGCGGAGCTGGAGCCCGCTCTGGGACCCGCGGCCGCCCTTC  
 AACGGCCTCCAAACGGCGGCGCGCGGGCGACTCGTGCCTGGGAGCCAAAGCCGCGGCCCTGGGGCCCC  
 CGAGCCCCCGCGGCCCTCGGGGCCCGGGTGGAGCGGGCGCTGCCGCCCTGCGCCGGGTGCG  
 GGTGGTGAAGCAAGAGGGCGGGCGCTGGGCATCAGCATCAAGGGCGGCCGCGAGAACCAGGATGCCGATC  
 CTCATCTCAAGATCTTCCCGGGCTGGTGCAGCCAGAGCCGGGCGCTGCCGCTGGGCGACGCCATCC  
 TGTCGGTGAACGGCACCGACCTGCGCCAGGCCACCCAGCCAGCGCTGCAGGCGCTGAAGCGCGCGGG  
 CAAGGAGGTGCTGCTGGAGGTCAAGTTCATCCGAGAAGTAACACCATATATCAAGAAGCCATCATTAGTA  
 TCAGATCTGCCGTGGGAAGGTGCAGCCCCAGTCAACCAAGCTTATAGTGGCAGTGAAGGACTCTGGTTCGC  
 CAAAACACCAGAACAGCACCAAGGACAGGAAGTATCCCTCTCAAAATGTGCTTTGCTGCTAGAAACCT  
 AAGCATGCCGGATCTGGAAAACAGATTGATAGAGCTACATTCTCCTGATAGCAGGAACACGTTGATCCTA  
 CGCTGCAAAGATACAGCCACAGCACACTCCTGGTTCGTAGCTATCCACACCAACATAATGGCTCCTCCTC  
 CACAGGTGTTGGCTGAATCAACGCCATGCTTGGGGCAACCAGTACAGCAGGAGGCGAGTAAAGAGGTGAA  
 GCATATTGCCCTGGCTGGCAGAACAGGCAAACTAGATGGTGAAGACAGCAATGGAGACCTGTCTCATG  
 GCTGTGACTGAGAAGGATTTGCTGCTCTATGACTGTATGCCGTGGACAAGAGATGCCTGGGCGTCCCAT  
 GCCACAGCTACCACTTGTGGCCAGGTTGGTTCATTCTGGCTCCGGATGTCGATCCCCCTCCCTTGG  
 ATCTGACCTTACATTTGCTACCAGGACAGGCTCTCGACAGGGCATTGAGATGCATCTTTCAGGGTGGAG  
 ACACATCGGGATCTGTCATCCTGGACCAGGATACTTGTTCAGGGTGGCCATGCTGCTGCTGAGCTGATCA  
 AGGAAGTCTCTAGGCTGCATGTTAAATGGCCAAGAGGTGAGGCTTACTATTCACTATGAAAATGGGTT  
 CACCATCTCAAGGGAAAATGGAGGCTCCAGCAGCATATTGTACCCTACCCTTTGAAAGGCTGAAGATG  
 TCTGCTGATGATGGCATCCGAAATCTATACTTGGATTTTGGTGGTCCCGAGGGAGAAGTACCATGGACC  
 TGCCTCTGTCCGAAGCCGATTGATTTGTGTTGCACACGTTTTATCGCCAAAGTCACTCGTATGG  
 ACTGCTTGTA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG208309 representing NM\_006750  
 Red=Cloning site Green=Tags(s)

MRVAAATAAAGAGPAMAVWTRATKAGLVELLLRERWVRVVAELSGESLSLTGDAAAAELEPALGPAAAF  
 NGLPNGGGAGDSLPGSPSRGLGPPSPPAPRGPAGEAGASPPVRRVRVVKQEAGGLGISIKGGRENMP  
 LISKIFPGAADQSRALRLGDAILSVNGTDLRQATHDQAVQALKRAGKEVLLLEVKFIREVTPYIKKPSLV  
 SDLPWEGAAPQSPSFGSEDSGSPKHQNSTKDRKIIPLKMCFAARNLSMPDLENRLIELHSPDSRNTLIL  
 RCKDTATAHSWFVAIHTNIMALLPQVLAELNAMLGATSTAGGSKEVKHIAWLAEQAKLDGGRQWRPVL  
 AVTEKDLLLYDCMPWTRDAWASPCHSYPLVATRLVHSGSGCRSPSLGSDLTFATRTGSRQGIEMHLFRVE  
 THRDLSSWTRILVQGCHAAAELIKEVSLGMLNGQEVRLTIHYENGFTISRENGGSSSILYRYPFERLKM  
 SADDGIRNLYLDFGGPEGELTMDLHSCPPIVFLHTFLSAKVTRMGLLV

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_006750

**ORF Size:** 1620 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_006750.3](#), [NP\\_006741.1](#)

RefSeq Size: 9771 bp

RefSeq ORF: 1623 bp

Locus ID: 6645

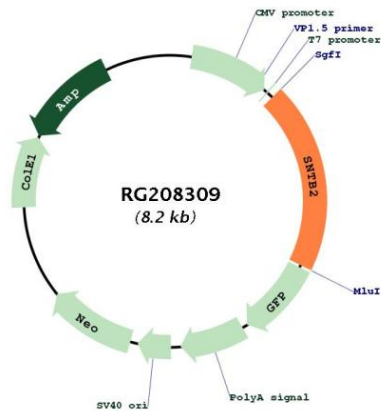
UniProt ID: [Q13425](#)

Cytogenetics: 16q22.1

Protein Families: Secreted Protein

**Gene Summary:** Dystrophin is a large, rod-like cytoskeletal protein found at the inner surface of muscle fibers. Dystrophin is missing in Duchenne Muscular Dystrophy patients and is present in reduced amounts in Becker Muscular Dystrophy patients. The protein encoded by this gene is a peripheral membrane protein found associated with dystrophin and dystrophin-related proteins. This gene is a member of the syntrophin gene family, which contains at least two other structurally-related genes. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG208309