

Product datasheet for **RG224421**

Syntrophin (SNTB1) (NM_021021) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syntrophin (SNTB1) (NM_021021) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Syntrophin
Synonyms:	59-DAP; A1B; BSYN2; DAPA1B; SNT2; SNT2B1; TIP-43
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG224421 representing NM_021021
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGTAGCGGCGGCCGGCGCGGCTGGCCGGCTGGCGGGAGGCGGCCGGCGCAGCGGAGCG
 GGCTGCTGGAAGTTTGGTGCGGGATCGCTGGCACAAAGTTCTGGTGAAC TTGAGCGAGGACGCCCTGGT
 TCTGAGCAGCGAGGAGGGCGCTGCGGCGTACAACGGCATCGGGACCGCCACCAATGGCTCGTTCTGCAGG
 GGCGCCGGGGCTGGGCACCCGGGCGCGGGCGCGCAGCCCCGGACTCGCCCGCGGGGTCCGCACCG
 CTTTCACCGACCTGCCCGAGCAGGTGCCGAGTCCATCTCGAACCAGAAGCGTGGCGTGAAGGTGCTGAA
 GCAGGAGCTGGCGGGCTGGGGATCAGCATCAAGGGGGCAAGGAGAACAAGATGCCATCCTCATCAGC
 AAGATCTCAAGGGGCTGGCGCGGACCAGACCAAGCCCTGTACGTGGGCGACGCCATCTGTCCGTGA
 ACGGAGCCGACCTGCGGGACGCCACCCACGACGAGGCGGTGCAGGCGTTGAAGCGCGGGCAAGGAAGT
 GCTGCTGGAAGTGAAGTACATGCGAGAAGCCACGCCCTATGTGAAGAAAGGATCCCCAGTATCCGAGATT
 GGGTGGGAAACACTCCGCCTGAATCCCCTCGGTTAGGGGGCAGCACCTCAGACCCCGCTCATCGCAGT
 CCTTCTCCTTCCACAGAGACCGGAAAAGCATCCCCCTCAAATGTGCTAGTCACTCGGAGTATGGCCTT
 GGCCGACCCTGAGAACAGGCAGCTTGAATCCACTCTCCAGATGCTAAGCACACGGTGATCCTAAGGAGC
 AAGGACTCAGCCACGGCCAGGCATGGTTCAGTGCCATCCATTCCAACGTTAATGACCTGCTGACCCGAG
 TGATTGCTGAGGTGAGAGAGCAGCTGGGAAAACAGGCATTGCTGGGAGCCGAGAGATTAGGCATCTTGG
 CTGGCTTGCAAAAAGGTGCCAGGGGAGAGCAAGAAACAGTGGAAACCAGCCCTGGTTGTGCTGACTGAG
 AAAGACCTTTAATCTATGACAGCATGCCACGGAGGAAGGAAGCCTGGTTCAGCCAGTTCACACATACC
 CTCTTCTGCCACCAGGCTGGTCCATTCAGGTCAGGAAAGGGATCACCCAGGCTGGTGTGGATCTGTC
 CTTTGCAACGCGAACTGGTACCAGGCAAGGGATTGAAACACATCTCTTCAGAGCAGAGACCAGCAGGGAC
 CTCTCCCACTGGACAAGGAGCATAGTACAGGGTTCACACAATTCTGCTGAACTATTGCTGAAATCAGCA
 CTGCTTGACCTACAAAAACCAGGAGTGCCGTTTGACCATACATTATGAGAATGGATTTTCTATTACCAC
 TGAACCACAGGAGGGTGCCTTTCCCAAGACCATCATACAGTCTCCTTATGAAAAGCTCAAATGTCTTCA
 GATGATGGAATCAGGATGCTGTATTTAGATTTTGGAGGCAAGATGGAGAGATTCAACTGGACCTTCATT
 CCTGCCCAAGCAATTGTTTTATCATTCTTCTCTGTCAGCTAAGATTACAAGACTGGGCTTGGT
 GGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG224421 representing NM_021021
 Red=Cloning site Green=Tags(s)

MAVAAAAAAGPAGAGGGRAQRSGLLLEVLVRDRWHKVLVNLSEDALVLSSEEGAAAYNGIGTATNGSFCR
 GAGAGHPGAGGAQPPDSPAGVRTAFDLPQVPEISINQKRGVKVLKQELGGLGISIKGGKENKMPILIS
 KIFKGLAADQTQALYVGDAILSVNGADLRDATHDEAVQALKRAGKEVLLLEVKYMREATPYVKKQSPVSEI
 GWETPPPEPRLGGSTSDPPSSQSFHRDRKSIPLKMCYVTRSMALADPENRQLEIHSPPAKHTVILRS
 KDSATAQAWFSAIHSNVNDLLTRVIAEVREQLGKTGIAGSREIRHLGWLAEKVPGESKKQWKPALVVLTE
 KDLLIYDSMPRRKEAWFSPVHTYPLLATRLVHSGPGKQSPQAGVDLSFATRTGTRQGIETHLFRAETSRD
 LSHWTRSIYQGCHNSAELIAEISTACTYKNQECRLTIHYENGF SITTEPQEGAFPKTIIQSPYEKLMSS
 DDGIRMLYLDGFKDGEIQLDLHSCPPIVFIHSFLSAKITRGLVA

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_021021

ORF Size: 1614 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_021021.4](#)

RefSeq Size: 2978 bp

RefSeq ORF: 1617 bp

Locus ID: 6641

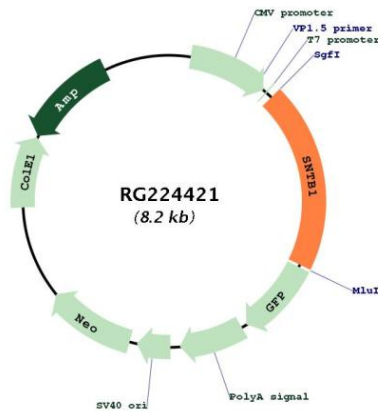
UniProt ID: [Q13884](#)

Cytogenetics: 8q24.12

Domains: PDZ, PH

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 RG224421