

Product datasheet for **RG234581**

Dystrobrevin beta (DTNB) (NM_001256303) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dystrobrevin beta (DTNB) (NM_001256303) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dystrobrevin beta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234581 representing NM_001256303
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTGAGGAAAGTGGGAACAAGCGGAAGACCATGGCAGAGAAGAGGCAGCTGTTCATAGAAAATGCGTG
 CTCAGAATTTTGTATGTCATACGACTATCAACTTACAGAACAGCCTGCAAATTACGATTTGTACAAAAACG
 ATGCAACCTTCATCTTGTGATATCTGGAACATGATTGAAGCCTCCGAGACAATGGCCTTAATACACTG
 GACCATACCACCGAGATCAGTGTGTCCCGCCTCGAAACTGTCATCTCCTCCATCTACTATCAGTTGAACA
 AGCGCCTTCTTTACTCACAAATTAGTGTGGAACAATCTATCAGCCTCCTCCTCAACTTTATGATTGC
 TGCATATGACAGTGAGGGCCGAGGCAAGTTGACGGTATTTTCAGTTAAAGCTATGTTAGCAACCATGTGT
 GGTGGAAAAATGCTGGACAAATTGAGATATGTTTTCTCCAGATGTCAGATTCCAATGGCTTAATGATAT
 TTAGCAAGTTGACCAGTTTCTGAAGGAAGTTCTGAAGCTCCCAACAGCTGTCTTTGAAGGGCCATCTTT
 TGTTTACACAGAGCACTCAGTCCGCACCTGTTTTCCACAGCAGAGAAAGATAATGCTAAAATGTTTTTA
 GACACAATGATGGCTGACCTCCTCCCAAGTGCCTTGTCTGGCTACCTCTCATGCACAGGCTTGCCCATG
 TTGAGAATGTCTTCCATCCCGTGGAGTGCTCCTACTGCCGATGTGAGAGTATGATGGGTTTCCGGTACCG
 ATGCCAGCAGTGCCACAATATCAGCTCTGCCAGAATTGCTTTTGGCGTGGCCATGCCGGCGGCCCTCAC
 AGCAACCAGCACCAGATGAAGGAGCATTCTCTTGAAAATCTCCTGCAAAGAAGCTGAGCCATGCAATTA
 GTAATCTTTGGGGTGTGTACCCACGAGAGAACCCCGCATCTGTTTTTCTGAGCAACCAGAGAAACC
 ACTTGACCTTGCACATATAGTTCTCCTCGCCCTGACTAATATGAATGACACCATGGTTAGCCACATG
 TCCTCTGGAGTGCCCACTCCCAACAGAGTTACAGTATAGCCAGGATATACCCAGTCACTTGCCCGATG
 AGCATCGCTGATAGCCTCCTATGTGGCCGCTGTCAGCACTGTGCAGCTGTTCTGGACAGTCCAGCCG
 ACTGGATGAGGAACACCGTCTTATAGCTCGCTATGCTGCCGGCTGGCTGCAGAAGCAGGAAACGTGACT
 CGTCTCCCACTGACTTGAGCTTTAACTTTGATGCCAACAAACAACAAAGACAGCTTATTGCAGAACTGG
 AAAACAAAAACAGAGAGATCCTGCAGGAGATTCAGCGTCTCCGCCTGGAACACGAGCAGGCTCCAGCC
 CACCCCTGAGAAGGCACAGCAGAACCCACGCTGCTGGCAGAGCTGCGGCTGCTGAGGCAAAGGAAGGAT
 GAACTGGAGCAGAGGATGTCGGCCCTGCAGGAGCAGGCGGGAGCTGATGGTCCAGCTGGAAGAGCTGA
 TGAAGTTGCTGAAGGCTCAGGCCACAGGGTCACCACATACATCGCCACCCATGGAGGCGGCCGCAAT
 GCCCATGCCAGTGCCTCCAGTCTGCCGGCTCCACCCCACTGTCCGAGGACTCGCTGAGCGGA
 GTCGGGGGAGACGTGCAGGAGGCTTTCGACAAGGTACGAGGAGAAACCTCCGCAATGACCTGCTGGTGG
 CAGCTGACTCCATCACCACACCATGTCATCCCTGGTGAAGGAGCTCCATTGAGCAGAGGAGGTGCAGA
 GGAAGAAGAAGAGAAGATGCAGAATGGGAAGACAGAGGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234581 representing NM_001256303
 Red=Cloning site Green=Tags(s)

MIEESGNKRKTMAEKRQLFIEMRAQNFVIRLSTYRTACKLRFVQKRCNLHLVDIWNMIEAFRDNGLNTL
 DHTTEISVSRLETVISSIYYQLNKRLPSTHQISVEQSI SLLLNFMIAAYDSEGRKLT VFSVKAMLATMC
 GGKMLDKLRYVFSQMSDSNGLMIFSKFDQFLKEVLKLP TAVFEGPSFGYTEHSVRTCFPQQRKIMLNMFL
 DTMMADPPPQCLVWLPLMHLRAHVENVHPVECSYCRCE SMMGFYRQCQCHNYQLCQNCFWRGHAGGPH
 SNQHQMKEHSSWKSPAKKLSHAISKSLGCVPTREPPHPVFPEQPEKPLDLAHIVPPRPLTNMNDTMVSHM
 SSGVPTPTKRLQYSQDIPSHLADEHALIASYVARLQHCARVLDSPSRLDEEHRLIARYAARLAAEAGNVT
 RPPTDL SFNFDANKQQRQLIAELENKNREILQEIQRLRLEHEQASQPTPEKAQQNPTLLAELRLLRQRKD
 ELEQRMSALQESRRELMVQLEELMKLLKAQATGSPHTSPTHGGGRMPMPVVRSTSAGSTPTHCPQDSL S
 VGGDVQEAFAQGTRRNL RNDLLVAADSI TNTMSSLVKELHSAEEGAE EEEEEKMQNGKDRG

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001256303

ORF Size: 1860 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_001256303.1](#), [NP_001243232.1](#)

RefSeq Size: 2486 bp

RefSeq ORF: 1863 bp

Locus ID: 1838

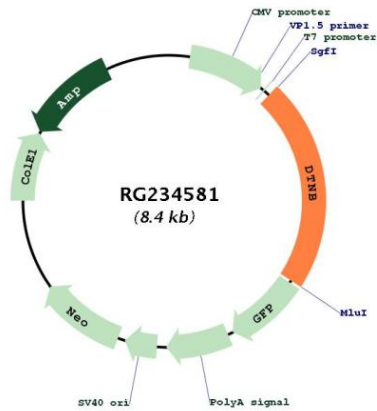
UniProt ID: [O60941](#)

Cytogenetics: 2p23.3

Gene Summary:

This gene encodes dystrobrevin beta, a component of the dystrophin-associated protein complex (DPC). The DPC consists of dystrophin and several integral and peripheral membrane proteins, including dystroglycans, sarcoglycans, syntrophins and dystrobrevin alpha and beta. The DPC localizes to the sarcolemma and its disruption is associated with various forms of muscular dystrophy. Dystrobrevin beta is thought to interact with syntrophin and the DP71 short form of dystrophin. [provided by RefSeq, Mar 2016]

Product images:



Circular map for RG234581