

## Product datasheet for **RG234533**

### Dystrobrevin beta (DTNB) (NM\_001256304) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dystrobrevin beta (DTNB) (NM_001256304) 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:**

>RG234533 representing NM\_001256304  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATTGAGGAAAGTGGGAACAAGCGGAAGACCATGGCAGAGAAGAGGCAGCTGTTCATAGAAAATGCGTG  
 CTCAGAATTTTGTATGTCATACGACTATCAACTTACAGAACAGCCTGCAAATTACGATTTGTACAAAAACG  
 ATGCAACCTTCATCTTGTGATATCTGGAACATGATTGAAGCCTCCGAGACAATGGCCTTAATACACTG  
 GACCATACCACCGAGATCAGTGTGTCCCGCCTCGAAAAGTGCATCTCCTCCATCTACTATCAGTTGAACA  
 AGCGCCTTCTTTACTCACAAATTAGTGTGGAACAATCTATCAGCCTCCTCCTCAACTTTATGATTGC  
 TGCATATGACAGTGAGGGCCGAGGCAAGTTGACGGTATTTTCAGTTAAAGCTATGTTAGCAACCATGTGT  
 GGTGGAAAAATGCTGGACAAATTGAGATATGTTTTCTCCAGATGTCAGATTCCAATGGCTTAATGATAT  
 TTAGCAAGTTTGACCAGTTTCTGAAGGAAGTTCTGAAGCTCCCAACAGCTGTCTTTGAAGGGCCATCTTT  
 TGTTTACACAGAGCACTCAGTCCGCACCTGTTTTCCACAGCAGAGAAAGATAATGCTAAAATGTTTTTA  
 GACACAATGATGGCTGACCTCCTCCCAAGTGCCTTGTCTGGCTACCTCTCATGCACAGGCTTGCCCATG  
 TTGAGAATGTCTTCCATCCCGTGGAGTGTCTCTACTGCCGATGTGAGAGTATGATGGGTTTCCGGTACCG  
 ATGCCAGCAGTGCCACAATATCAGCTCTGCCAGAATTGCTTTTGGCGTGGCCATGCCGGCGGCCCTCAC  
 AGCAACCAGCACCAGATGAAGGAGCATTCTCTTGAAAATCTCCTGCAAAGAAGCTGAGCCATGCAATTA  
 GTAATCTTTGGGGTGTGTACCCACGAGAGAACCCCGCATCTGTTTTTCTGAGCAACCAGAGAAACC  
 ACTTGACCTTGCACATATAGTTCTCTCGCCCTGACTAATATGAATGACACCATGGTTAGCCACATG  
 TCCTCTGGAGTGCCCACTCCCAACAAGAGTTACAGTATAGCCAGGATATACCCAGTCACTTGGCCGATG  
 AGCATCGCTGATAGCCTCCTATGTGGCCGCTGCAGCACTGTGCAGCTGTTCTGGACAGTCTAGCCG  
 ACTGGATGAGGAACACCGTCTTATAGTCGCTATGCTGCCGGCTGGCTGCAGAAGCAGGAAACGTGACT  
 CGTCTCCCACTGACTTGAGCTTTAACTTTGATGCCAACAAACAACAAGACAGCTTATTGCAGAACTGG  
 AAAACAAAAACAGAGAGATCCTGCAGGAGATTCAGCGTCTCCGCCTGGAACACGAGCAGGCTCCAGCC  
 CACCCCTGAGAAGGCACAGCAGAACCCACGCTGCTGGCAGAGCTGCGGCTGCTGAGGCAAAGGAAGGAT  
 GAACTGGAGCAGAGGATGTCGGCCCTGCAGGAGCAGGCGGGAGCTGATGGTCCAGCTGGAAGAGCTGA  
 TGAAGTTGCTGAAGGCTCAGGCCACAGGTCACCACATACATCGCCACCCATGGAGGCGGCCGCAAT  
 GCCCATGCCAGTGCCTCCAGTCTGCCGGCTCCACCCACCCACTGTCCGAGGACTCGCTGAGCGGA  
 GTCGGGGGAGACGTGCAGGAGGCTTGCACAAGGTACGAGGAGAAACCTCCGCAATGACCTGCTGGTGG  
 CAGCTGACTCCATCACCAACACCATGTCATCCCTGGTGAAGGAGCTCCATTAGGT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG234533 representing NM\_001256304  
 Red=Cloning site Green=Tags(s)

MIEESGNKRKTMAEKRQLFIEMRAQNFVDVIRLSTYRTACKLRFVQKRCNLHLVDIWNMIEAFRDNGLNLT  
 DHTTEISVSRLLETVISSIYYQLNKRLPSTHQISVEQSIISLLNFMI AAYDSEGRGKLT VFSVKAMLATMC  
 GGKMLDKLRYVFSQMSDSNGLMIFSKFDQFLKEVLKLP TAVFEGPSFGYTEHSVRTCFPQQRKIMLNMFL  
 DTMADPPPQCLVWLPLMHLA HVENV FHPVECSYCRCE SMMGFRYRCQ QCHNYQLCQNC FWRGHAGGPH  
 SNQHQMKEHSSWKSPAKKLSHAISKSLGCVPTREPPHPVFPEQPEKPLDLA H IVP RPLTNMNDTMVSHM  
 SSGVPTPTKRLQYSQDIPSHLADEHALIASYVARLQH CARVLDSPSRLDEEHRLIARYAARLAAEAGNVT  
 RPPTDL SFNFDANKQQRQLIAELENKNREILQEIQRLRLEHEQASQPTPEKAQQNPTLLAELRLLRQRKD  
 ELEQRMSALQESRRELMVQLEELMKLLKAQATGSPHTSPTHGGGRMPMPVVRSTSAGSTPTHCPQDSLGS  
 VGGDVQEAFAQGTRRNL RNDLLVAADSI TNTMSSLVKELHSG

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001256304

**ORF Size:** 1806 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\\_001256304.2](#)

**RefSeq Size:** 2191 bp

**RefSeq ORF:** 1809 bp

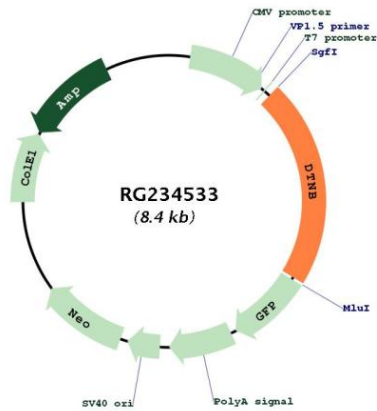
**Locus ID:** 1838

**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 RG234533