

## Product datasheet for **RG234400**

### Dystrobrevin beta (DTNB) (NM\_001256308) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dystrobrevin beta (DTNB) (NM_001256308) 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:**

>RG234400 representing NM\_001256308  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATTGAAGCCTTCGAGACAATGGCCTTAATACACTGGACCATACCACCGAGATCAGTGTGTCCCGCC  
 TCGAAACTGTCATCTCCTCCATCTACTATCAGTTGAACAAGCGCCTTCTTCTACTCACCAAATTAGTGT  
 GGAACAATCTATCAGCCTCCTCCTCAACTTTATGATTGCTGCATATGACAGTGAGGGCCGAGGCAAGTTG  
 ACGGTATTTTCAGTTAAAGCTATGTTAGCAACCATGTGTGGTGGAAAAATGCTGGACAAATTGAGATATG  
 TTTTCTCCAGATGTCAGATTCCAATGGCTTAATGATATTTAGCAAGTTTGACCAGTTTCTGAAGGAAGT  
 TCTGAAGTCCCAACAGCTGTCTTTGAAGGGCCATCTTTTGGTTACACAGAGCACTCAGTCCGCACCTGT  
 TTTCCACAGCAGAGAAAGATAATGCTAAATATGTTTTTAGACACAATGATGGCTGACCCTCCTCCCCAGT  
 GCCTTGTCTGGTACCTCTCATGCACAGGCTTGCCCATGTTGAGAATGTCTTCCATCCCGTGGAGTGCTC  
 TACTGCCGATGTGAGAGTATGATGGGTTTCCGGTACCGATGCCAGCAGTGCCACAACACTATCAGCTGTC  
 CAGAAATGCTTTTGGCGTGGCCATGCCGGCGGCCCTCACAGCAACCAGCACCCAGATGAAGGAGCATTCTT  
 CTTGGAATCTCCTGCAAGAAGCTGAGCCATGCAATTAGTAAATCTTTGGGGTGTGTACCCACGAGAGA  
 ACCCCCGCATCTGTTTTTCTGAGCAACCAGAGAAACCACTTGACCTTGACATATAGTTCCTCCTCGC  
 CCTCTGACTAATATGAATGACACCATGGTTAGCCACATGTCTCTGGAGTGCCCACTCCCACCAAGAGGT  
 TACAGTATAGCCAGGATATACCCAGTCACTTGGCCGATGAGCATGCGCTGATAGCCTCCTATGTGGCCCG  
 TCTGCAGCACTGTGCACGTGTTCTGGACAGTCTAGCCGACTGGATGAGGAACACCGTCTTATAGCTCGC  
 TATGCTGCCCGGCTGGCTGCAGAAGCAGGAAACGTGACTCGTCTCCCACTGACTTGAGCTTTAACTTTG  
 ATGCCAACAAACAACAAGACAGCTTATTGCAGAACTGGAAAACAAAAACAGAGAGATCCTGCAGGAGAT  
 TCAGCGTCTCCGCTGGAACACAGCAGAGCCCTCCAGCCACCCCTGAGAAGGCACAGCAGAACCCACG  
 CTGCTGGCAGAGCTGCGGCTGCTGAGGCAAGGAAGGATGAAGTGGAGCAGAGGATGTCGCCCCTGACGG  
 AGAGCAGGCGGGAGCTGATGGTCCAGCTGGAAGAGCTGATGAAGTTGCTGAAGGCTCAGGCCACAGGGTC  
 ACCACATACATCGCCACCCATGGAGGCGGCCGCAATGCCATGCCAGTGGCTCCACGTCTGCCGGC  
 TCCACCCCACTGTCCGAGGACTCGCTGAGCGGAGTGGGGGAGACGTGCAGGAGGCCTTCGCAC  
 AAGGTACGAGGAGAAACCTCCGCAATGACCTGCTGGTGGCAGCTGACTCCATACCAACACCATGTCATC  
 CCTGGTGAAGGAGCTCCATTCAGT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG234400 representing NM\_001256308  
 Red=Cloning site Green=Tags(s)

MIEAFRDNGLNTLDHTTEISVSRLLETVISSIIYYQLNKRLPSTHQISVEQISLLLLNFMIAAYDSEGRGKL  
 TVFSVKAMLATMCGGKMLDKLRYVFSQMSDSNGLMIFSKFDQFLKEVLKLP TAVFEGPSFGYTEHSVRTC  
 FPQQRKIMLNMFLDTMMADPPPQCLVWLP LMRHLAHVENVFHPVECSYRCESMMGFYRQCQCHNYQLC  
 QNCFWRGHAGGPHSNQHQMKEHSSWKSPAKKLSHAISKSLGCVPTREPPHPVFPEQPEKPLDLAHI VPPR  
 PLTNMNDTMVSHMSSGVPTPTKRLQYSQDIPSHLADEHALIASYVARLQHRCARVLDSPSRLDEEHRLIAR  
 YAARLAAEAGNVTRPPTDL SFNFDANKQQRQLIAELENKNREILQEIQRLRLEHEQASQPTPEKAQQNPT  
 LLAELRLLRQRKDELEQRMSALQESRRELMVQLEELMKLLKAQATGSPHTSPTHGGGRPMPMPVVRST SAG  
 STPTHCPQDSL SGVGGDVQEAFAQGTTRNLRNDLLVAADSI TNTMSSLVKELHSG

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001256308

**ORF Size:** 1635 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\\_001256308.2](#)

**RefSeq Size:** 2328 bp

**RefSeq ORF:** 1638 bp

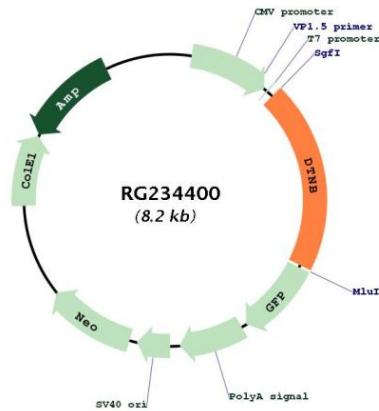
**Locus ID:** 1838

**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 RG234400