

Product datasheet for **RG214290**

Dystrobrevin beta (DTNB) (NM_033148) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dystrobrevin beta (DTNB) (NM_033148) 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:

>RG214290 representing NM_033148
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATTGAGGAAAGTGGGAACAAGCGGAAGACCATGGCAGAGAAGAGGCAGCTGTTCATAGAAATGCGTG
 CTCAGAATTTTGTATGTCATACGACTATCAACTTACAGAACAGCCTGCAAATTACGATTTGTACAAAACG
 ATGCAACCTTCATCTTGTGATATCTGGAACATGATTGAAGCCTCCGAGACAATGGCCTTAATACACTG
 GACCATACCACCGAGATCAGTGTGTCCCGCCTCGAAACTGTCATCTCTCCATCTACTATCAGTTGAACA
 AGCGCCTTCTTTACTACCAAATTAGTGTGGAACAATCTATCAGCCTCCTCTCAACTTTATGATTGC
 TGCATATGACAGTGAGGGCCGAGGCAAGTTGACGGTATTTTCAGTTAAAGCTATGTTAGCAACCATGTGT
 GGTGGAAAAATGCTGGACAAATGAGATATGTTTTCTCCAGATGTCAGATTCCAATGGCTTAATGATAT
 TTAGCAAGTTGACCAGTTTCTGAAGGAAGTTCTGAAGCTCCCAACAGCTGTCTTTGAAGGGCCATCTTT
 TGTTTACACAGAGCACTCAGTCCGCACCTGTTTTCCACAGCAGAGAAAGATAATGCTAAATATGTTTTTA
 GACACAATGATGGCTGACCCTCCTCCCAAGTGCCTTGTCTGGCTACCTCTCATGCACAGGCTTGCCCATG
 TTGAGAATGTCTTCCATCCCGTGGAGTGCTCTACTGCCGATGTGAGAGTATGATGGGTTTCCGGTACCG
 ATGCCAGCAGTGCCACAATATCAGCTCTGCCAGAATTGCTTTTGGCGTGGCCATGCCGGCGGCCCTCAC
 AGCAACCAGCACCAGATGAAGGAGCATTCTCTTGAAATCTCCTGCAAAGAAGCTGAGCCATGCAATTA
 GTAATCTTTGGGGTGTGTACCCACGAGAGAACCCCGCATCTGTTTTTCTGAGCAACCAGAGAAACC
 ACTTGACCTTGCACATATAGTTCTCTCGCCCTGACTAATATGAATGACACCATGGTTAGCCACATG
 TCCTCTGGAGTGCCCACTCCCAACAGAGTGTCTGGACAGTCTAGCCGACTGGATGAGGAACACCGTC
 TTATAGCTCGCTATGCTGCCCGCTGGCTGCAGAAGCAGGAAACGTGACTCGTCTCCACTGACTTGAG
 CTTTAACCTTGTGCCAACAACAACAAGACAGCTTATTGCAGAACTGGAAAACAAAAACAGAGAGATC
 CTGCAGGAGATTACAGCTCTCCGCTGGAACACGAGCAGGCTCCAGCCACCCCTGAGAAGGCACAGC
 AGAACCCACGCTGCTGGCAGAGCTGCGGCTGCTGAGGCAAAGGAAGGATGAACTGGAGCAGAGGATGTC
 GGCCCTGCAGGAGAGCAGGCGGGAGCTGATGGTCCAGCTGGAAGAGCTGATGAAGTTGCTGAAGGAGGAA
 GAGCAAAGCAGGAGCTCAGGCCACAGGGTACCACATACATCGCCACCCATGGAGGCGGCCGCCAA
 TGCCCATGCCAGTGCCTCCACGTCTGCCGCTCCACCCCACTGTCCGAGGACTCGCTGAGCGG
 AGTCGGGGGAGAGCTGCAGGAGGCTTCGCACAAGCAGAGGAAGGTGCAGAGGAAGAAGAAGAGAAGATG
 CAGAATGGAAAGACAGAGGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG214290 representing NM_033148
 Red=Cloning site Green=Tags(s)

MIEESGNKRKTMAEKRQLFIEMRAQNFDVIRLSTYRTACKLRFVQKRCNLHLVDIWNMIEAFRDNGLNLT
 DHTTEISVSRLLETVISSIIYYQLNKRLPSTHQISVEQSIISLLNFMIAAYDSEGRGKLTVFSVKAMLATMC
 GKMLDKLRYVFSQMSDSNGLMIFSKFDQFLKEVLKLPATVFEGPSFGYTEHSVRTCFPQQRKIMLNMFL
 DTMADPPPQCLVWLPLMHLRAHVENVFHPVECSYCRCE SMMGFYRQCQCHNYQLCQNCFWRGHAGGPH
 SNQHQMKEHSSWKSPAKKLSHAIKSLGCVPTREPPHPVFPEQPEKPLDLAHIVPPRPLTNMNDTMVSHM
 SSGVPTPTKSVLDSPSRLDEEHRLIARYAARLAAEAGNVTRPPTDL SFNFDANKQQRQLIAELENKNREI
 LQEIQLRLEHEQASQPTPEKAQQNPTLLAELRLLRQRKDELEQRMSALQESRRELMVQLEELMKLLKEE
 EQKQAAQATGSPHTSPTHGGRRPMPVVRSTAGSTPTHCPQDSL SGVGGDVQEAFAQAEEGAE EEEEEK
 QNGKDRG

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_033148

ORF Size: 1701 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_033148.3](#), [NP_149160.1](#)

RefSeq Size: 2314 bp

RefSeq ORF: 1704 bp

Locus ID: 1838

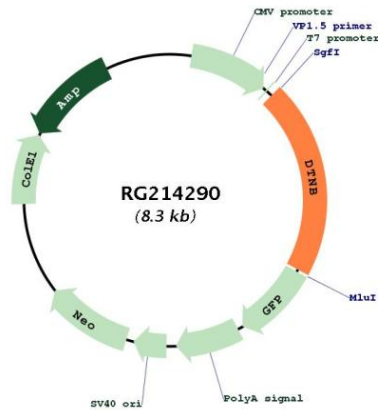
UniProt ID: [O60941](#)

Cytogenetics: 2p23.3

Domains: ZnF_ZZ

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 RG214290