

Product datasheet for **RC214290**

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:	Myc-DDK
Symbol:	Dystrobrevin beta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC214290 representing NM_033148
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGATTGAGGAAAGTGGGAACAAGCGGAAGACCATGGCAGAGAAGAGGCAGCTGTTCATAGAAATGCGTG
 CTCAGAATTTTGATGTCATACGACTATCAACTTACAGAACAGCCTGCAAATTACGATTTGTACAAAACG
 ATGCAACCTTCATCTTGTGATATCTGGAACATGATTGAAGCCTCCGAGACAATGGCCTTAATACACTG
 GACCATACCACCGAGATCAGTGTGTCCCGCCTCGAAACTGTCATCTCCTCCATCTACTATCAGTTGAACA
 AGCGCCTTCTTCTACTACCAAATTAGTGTGGAACAATCTATCAGCCTCCTCCTCAACTTTATGATTGC
 TGCATATGACAGTGAGGGCCGAGGCAAGTTGACGGTATTTTCAGTTAAAGCTATGTTAGCAACCATGTGT
 GGTGGAAAAATGCTGGACAAATTGAGATATGTTTTCTCCAGATGTCAGATTCCAATGGCTTAATGATAT
 TTAGCAAGTTGACCAGTTTCTGAAGGAAGTTCTGAAGCTCCCAACAGCTGTCTTTGAAGGGCCATCTTT
 TGTTTACACAGAGCACTCAGTCCGCACCTGTTTTCCACAGCAGAGAAAGATAATGCTAAATATGTTTTTA
 GACACAATGATGGCTGACCTCCTCCCAAGTGCCTTGTCTGGCTACCTCTCATGCACAGGCTTGCCCATG
 TTGAGAATGTCTTCCATCCCGTGGAGTGTCTCTACTGCCGATGTGAGAGTATGATGGGTTTCCGGTACCG
 ATGCCAGCAGTGCCACAATATCAGCTCTGCCAGAATTGCTTTTGGCGTGGCCATGCCGGCGGCCCTCAC
 AGCAACCAGCACCAGATGAAGGAGCATTCTCTTGAAATCTCCTGCAAAGAAGCTGAGCCATGCAATTA
 GTAATCTTTGGGGTGTGTACCCACGAGAGAACCCCGCATCTGTTTTTCTGAGCAACCAGAGAAACC
 ACTTGACCTTGCACATATAGTTCTCTCGCCCTGACTAATATGAATGACACCATGGTTAGCCACATG
 TCCTCTGGAGTGCCCACTCCCAACAGAGTGTCTGGACAGTCTAGCCGACTGGATGAGGAACACCGTC
 TTATAGCTCGCTATGCTGCCCGCTGGCTGCAGAAGCAGGAAACGTGACTCGTCTCCACTGAGTTGAG
 CTTTAACCTTTGATGCCAACAACAACAAGACAGCTTATTGCAGAACTGGAAAACAAAAACAGAGAGATC
 CTGCAGGAGATTACGCTCTCCGCTGGAACACGAGCAGGCTCCAGCCACCCCTGAGAAGGCACAGC
 AGAACCCACGCTGCTGGCAGAGCTGCGGCTGCTGAGGCAAAGGAAGGATGAACTGGAGCAGAGGATGTC
 GGCCCTGCAGGAGAGCAGGCGGGAGCTGATGGTCCAGCTGGAAGAGCTGATGAAGTTGCTGAAGGAGGAA
 GAGCAAAGCAGGAGCTCAGGCCACAGGGTACCACATACATCGCCACCCATGGAGGCGGCCGCCAA
 TGCCCATGCCAGTGCCTCCACGCTGCGGCTCCACCCACCCACTGTCCGAGGACTCGCTGAGCGG
 AGTCGGGGGAGAGCTGCAGGAGGCTTCGCACAAGCAGAGGAAGGTGCAGAGGAAGAAGAAGAGAAGATG
 CAGAATGGAAAGACAGAGGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC214290 representing NM_033148
 Red=Cloning site Green=Tags(s)

MIEESGNKRKTMAEKRQLFIEMRAQNFVIRLSTYRTACKLRFVQKRCNLHLVDIWNMIEAFRDNGLNLT
 DHTTEISVSRLTEVISSIIYYQLNKRLPSTHQISVEQSIISLLNFMIAAYDSEGRGKLTVFSVKAMLATMC
 GGKMLDKLRYVFSQMSDSNGLMIFSKFDQFLKEVLKLPATVFEGPSFGYTEHSVRTCFPQQRKIMLNMFL
 DTMADPPPQCLVWLPLMHLRAHVENVHPVECSYCRCEMMGFYRCQQCHNYQLCQNCFRWGHAGGPH
 SNQHQMKEHSSWKSPAKKLSHAISKSLGCVPTREPPHPVFPEQPEKPLDLAHIVPPRPLTNMNDTMVSHM
 SSGVPTPTKSVLDSPSRLDEEHLIARYAARLAAEAGNVTRPPTDL SFNFDANKQQRQLIAELENKNREI
 LQEIQLRLEHEQASQPTPEKAQNPTLLAELRLLRQRKDELEQRMSALQESRRELMVQLEELMKLLKEE
 EQKQAAQATGSPHTSPTHGGGRPMPVVRSTAGSTPTHCPQDSL SGVGGDVQEAFQAEEGAEIEEIEEK
 QNGKDRG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8067_f08.zip

Restriction Sites:

Sgfl-Mlul

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](#)

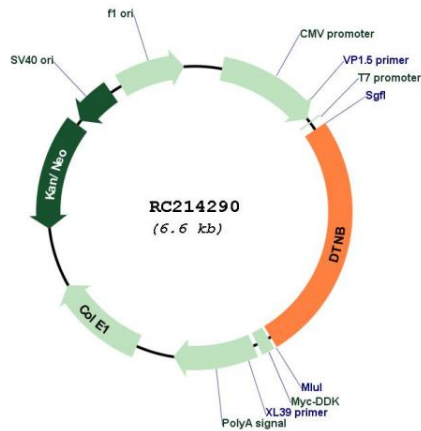
Cytogenetics: 2p23.3

Domains: ZnF_ZZ

MW: 64.4 kDa

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 RC214290