

## Product datasheet for **RC231393**

### Dystrobrevin alpha (DTNA) (NM\_001198938) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dystrobrevin alpha (DTNA) (NM_001198938) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dystrobrevin alpha
Synonyms:	D18S892E; DRP3; DTN; DTN-A; LVNC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC231393 representing NM\_001198938  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGATTGAAGATAGTGGGAAAAGAGGAAATACCATGGCAGAAAGAAGACAGCTGTTTGCAGAGATGAGGG  
 CTAAGATCTGGATCGCATCCGACTCTCCACCTACAGAACAGCATGCAAGCTTAGGTTTGTTCAGAAGAA  
 ATGCAATTTGCACCTGGTGGACATATGGAATGTATAGAAGCATTGCGGGAAAATGCTCTGAACAACCTG  
 GACCCAAACACTGAACTCAACGTGTCCCCTTAGAGGCTGTGCTCTCCACTATTTTTTACCAGCTCAACA  
 AACGGATGCCAACACTCACAAATCCATGTGGAGCAGTCCATCAGCCTCCTCCTAACTCCTGCTTGC  
 AGCGTTTGTATCCGGAAGGCCATGGTAAATTTCAAGTATTTGCTGTCAAAATGGCTTTAGCCACATTGTGT  
 GGAGGGAAGATCATGGACAAATTAAGATATATTTTCTCAATGATTTCTGACTCCAGTGGGTGATGGTTT  
 ATGGACGATATGACCAATTCCTTCGGGAAGTTCTCAAACACCCAGGCAGTTTTTGAAGGTCCTTCATT  
 TGTTTACACAGAACAGTCAGCCAGATCCTGTTTCTCCCAACAGAAAAAGTCACGTTAAATGGTTTCTTG  
 GACACGCTTATGTGAGATCCTCCCCCGAGTGTCTGGTCTGGTTGCCTCTTCTGCATCGACTAGCAAATG  
 TGGAAAATGTCTTCCATCCGGTTGAGTGTCTCTACTGCCACAGTGAAGATGATGGGATTTTCGCTACCG  
 ATGCCAACAGTGTCAAAATACCAGCTCTGTCCAGGACTGCTTCTGGAGGGGACATGCCGGTGGTTTCAT  
 AGCAACCAGCACCAATGAAAGAGTACACGTATGGAATCACCTGCTAAGAAGCTGACTAATGCATTA  
 GCAAGTCCCTGAGCTGTGCTTCCAGCCGTGAACCTTTCACCCCATGTTCCAGATCAGCCTGAGAAGCC  
 ACTCAACTTGGCTCACATCGTGCCTCCCAGACCTGTAACCAGCATGAACGACACCCTGTTCTCCACTCT  
 GTTCCCTCCTCAGGAAGTCCTTTTATTACCAGGAGCATGCTTGAGAGTTCAAACCGGCTTGATGAAGA  
 ACAGGCTAATTGCCAGGTATGCGGCAAGGCTGGCAGCAGAGTCTTCTCGTCTCAGCCACCTCAGCAGAG  
 AAGTGTCTCCTGACATCTCTTTCACCATCGATGCGAATAAGCAGCAAAAGGCAGCTGATTGCTGAGTAGAA  
 AACAAAGAACAGAGAAATCTTACAGGAGATCCAGAGACTTTCGGCTAGAGCATGAACAAGCTTCTCAGCCCA  
 CGCCAGAGAAGGCACAGCAAAACCCACCTGCTGGCAGAACTCCGGCTCCTCAGACAGCGCAAAGATGA  
 GCTGGAACAGAGAATGTCTGCTCTCCAGGAGAGCCGGAGAGAGCTAATGGTCCAGTTGGAGGGTCTCATG  
 AAGCTACTAAAGACTCAGGGGGCAGGCTCTCCCCGCTCCTCCCCAGCCACACCATCAGCAGGCCAATTC  
 CCATGCCCATCCGGTCAGCGTCAGCCTGCTCCACCCGACGCACACGCCGAGGACTCCCTCACAGGAGT  
 AGGGGGAGATGTACAAGAGGCATTTGCACAAAGTTCAAGAAGAACTTAAGGAATGACTTGTAGTGGCT  
 GCAGATTCATCACTAACAATATGCTCTCTTGTGAAAGAGCTGAATTCTGAGGTTGGGAGTGAACAG  
 AGAGTAATGTGGATTCTGAATTTGCACGGACTCAGTTTGAGGATCTTGTCCCTCACCAACTCTGAAAA  
 GGCTTTTCTAGCGCAATCCATGCCGAAAACCTGGGTACATTCACAGTGGAGTACCACAAGTACCATG  
 CGTGGCGACATGGTTACGGAGGATGCAGATCCCTATGTGCAGCCTGAAGATGAAAATATGAAAATGACT  
 CTGTCCGGCAGCTGGAGAATGAGCTCCAGATGGAGGAATACCTGAAACAGAAAGCTGCAAGATGAAGCTTA  
 TCAGCTCCACGTCAGCACTGAGACCAGACTCGAGCACCCCTGTCTGTAAAGCGAGACAAAATGGCGTGTG  
 TTATTTTGGGGTTTTGTGTTTTTGGTGGGTTTCTTCTTGGCTCTCCAGATTTACTTTTGGGGCCTGT  
 TC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC231393 representing NM\_001198938  
 Red=Cloning site Green=Tags(s)

MIEDSGKRGNTMAERRQLFAEMRAQDLDRIRLSTYRTACKLRFVQKKNLHLVDIWNVIEALRENALNNL  
 DPNTELNVSRLAVLSTIFYQLNKRMPPTHQIHVEQISLFLNLLAAFDPEGHGKISVFAVKMALATLC  
 GGMKIMDKLRYIFSMISDSSGVMVYGRYDQFLREVLKLPYAVFEGPSFGYTEQSARSCFSQQKQVTLNGFL  
 DTLMSDPPPPQCLVWLPLLHRLANVENVFHPVECSYCHSESMGMFRYRCQQCHNYQLCQDCFWRGHAGGSH  
 SNQHQMKKEYTSWKSPAKKLTNALSKSLSCASSREPLHPMFPDQPEKPLNLAHIVPPRPVTSMNDFLFSHS  
 VPSSGSPFITRSMLESSNRLDEEHRLIARYAARLAAESSSSQPPQORSAPDISFTIDANKQQRQLIAELE  
 NKNREILQEIQRLRLEHEQASQPTPEKAQQNPTLLAELRLLRQRKDELEQRMSALQESRRELMVQLEGLM  
 KLLKTQAGSPRSSPSTISRPIMPPIRSASACSTPHTPQDSLTVGGDVQEAFAQSSRRNLRNDLLVA  
 ADSITNTMSSLVKELNSEVGSSETESNVDFEFARTQFEDLVPSPTSEKAFQAQIHARKPGYIHSQATTSTM  
 RGMVMTEDADPYVQPEDENYENDSVRQLENELQMEEYKQKQLQDEAYQLHVSSTETREHPCPVSETKWRV  
 LFWGFVFFGGFLSLALQIYFWGLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001198938

**ORF Size:** 2172 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\\_001198938.2](#)

**RefSeq ORF:** 2175 bp

**Locus ID:** 1837

**UniProt ID:** [Q9Y4I8](#)

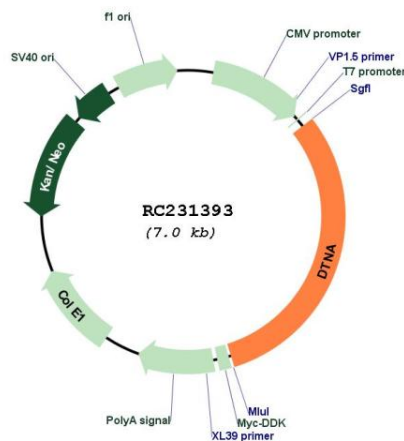
**Cytogenetics:** 18q12.1

**Protein Families:** Druggable Genome

**MW:** 82.7 kDa

**Gene Summary:** The protein encoded by this gene belongs to the dystrobrevin subfamily of the dystrophin family. This protein is a component of the dystrophin-associated protein complex (DPC), which consists of dystrophin and several integral and peripheral membrane proteins, including dystroglycans, sarcoglycans, syntrophins and alpha- and beta-dystrobrevin. The DPC localizes to the sarcolemma and its disruption is associated with various forms of muscular dystrophy. Mutations in this gene are associated with left ventricular noncompaction with congenital heart defects. Multiple alternatively spliced transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RC231393