

Product datasheet for **RC231284**

Dystrobrevin alpha (DTNA) (NM_001198941) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dystrobrevin alpha (DTNA) (NM_001198941) 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:

>RC231284 representing NM_001198941
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTGAAGATAGTGGGAAAAGAGGAAATACCATGGCAGAAAGAAGACAGCTGTTTGCAGAGATGAGGG
 CTAAGATCTGGATCGCATCCGACTCTCCACCTACAGAACAGCATGCAAGCTTAGGTTTGTTCAGAAGAA
 ATGCAATTTGCACCTGGTGGACATATGGAATGTATAGAAGCATTGCGGGAAAATGCTCTGAACAACCTG
 GACCCAAACACTGAACTCAACGTGTCCCCTTAGAGGCTGTGCTCTCCACTATTTTTTACCAGCTCAACA
 AACGGATGCCAACACTCACAAATCCATGTGGAGCAGTCCATCAGCCTCCTCCTAACTCCTGCTTGC
 AGCGTTTGTATCCGGAAGGCCATGGTAAAATTCAGTATTTGCTGTCAAAATGGCTTTAGCCACATTTGT
 GGAGGGAAGATCATGGACAAATTAAGATATATTTTCTCAATGATTTCTGACTCCAGTGGGTGATGGTTT
 ATGGACGATATGACCAATTCCTTCGGGAAGTTCTCAAACACCCAGGCAGTTTTTGAAGTCCCTCATT
 TGGTTACACAGAACAGTCAGCCAGATCCTGTTTCTCCCAACAGAAAAAGTCACGTTAAATGGTTTCTTG
 GACACGCTTATGTGAGATCCTCCCCCGAGTGTCTGGTCTGGTTCCTCTCTGATCGACTAGCAAATG
 TGGAAAATGTCTTCCATCCGTTGAGTGTCTCTACTGCCACAGTGAAGTATGATGGGATTTGCTACCG
 ATGCCAACAGTGTCAAAATACCAGCTCTGTCCAGGACTGCTTCTGGAGGGGACATGCCGGTGGTTTCTCAT
 AGCAACCAGCACCAATGAAAGAGTACACGTATGGAATCACCTGCTAAGAAGCTGACTAATGCATTAA
 GCAAGTCCCTGAGCTGTGCTTCCAGCCGTGAACCTTTCACCCCATGTTCCAGATCAGCCTGAGAAGCC
 ACTCAACTTGGCTCACATCGTGCCTCCCAGACCTGTAACCAGCATGAACGACACCCTGTTCTCCACTCT
 GTTCCCTCCTCAGGAAGTCCTTTTATTACCAGGAGCATGCTTGAAGTTCAAACCGGCTTGTGAAGAAC
 ACAGGCTAATTGCCAGGTATGCGCAAGGCTGGCAGCAGAGTCCCTTCTGCTCAGCCACCTCAGCAGAG
 AAGTGTCTCCTGACATCTTTTACCATCGATGCGAATAAGCAGCAAGGCAGCTGATTGCTGAGCTAGAA
 AACAGAAGACAGAGAAATCTTACAGGAGATCCAGAGACTTCGGCTAGAGCATGAACAAGCTTCTCAGCCCA
 CGCCAGAGAAGGCACAGCAAAACCCACCTGCTGGCAGAACTCCGGCTCCTCAGACAGCGCAAAGATGA
 GCTGGAACAGAGAATGTCTGCTCTCCAGGAGAGCCGGAGAGAGCTAATGGTCCAGTTGGAGGGTCTCATG
 AAGCTACTAAAGGAAGAAGAACTGAAGCAGGGAGTAAGTTATGTCCCTACTGCAGGTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC231284 representing NM_001198941
 Red=Cloning site Green=Tags(s)

MIEDSGKRGNTMAERRQLFAEMRAQDLDRIRLSTYRTACKLRFVQKKNLHLVDIWNVIEALRENALNNL
 DPNTELVNLSRLEAVLSTIFYQLNKRMPPTHQIHVEQSIISLLNLLAAFDPEGHGKISVFAVKMALATLC
 GGKIMDKLRYIFSMISDSSGVMVYGRYDQFLREVLKLPATVFEGPSFGYTEQSARSCFSQKQKVTNLNGL
 DTLMSDPPPQCLVWLPLHLRLANVENVFHPVECSYCHSESMGFRYRCQQCHNYQLCQDCFWRGHAGGSH
 SNQHQMKEYTSWKSPAKKLTNLSKSLSCASSREPLHPMPDQPEKPLNLAHIVPPRPVTSMDTLFSSHS
 VPSSGSPFITRSMLESSNRLDEEHRLIARYAARLAAESSSSQPPQQRSAPISTIDANKQQRQLIAELE
 NKNREILQEIQRLRLEHEQASQPTPEKAQQNPTLLAELRLLRQRKDELEQRMSALQESRRELMVQLEGLM
 KLLKEELKQGVSYVPYCRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8064_c12.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001198941

ORF Size: 1530 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_001198941.2](#)

RefSeq ORF: 1533 bp

Locus ID: 1837

UniProt ID: [Q9Y4J8](#)

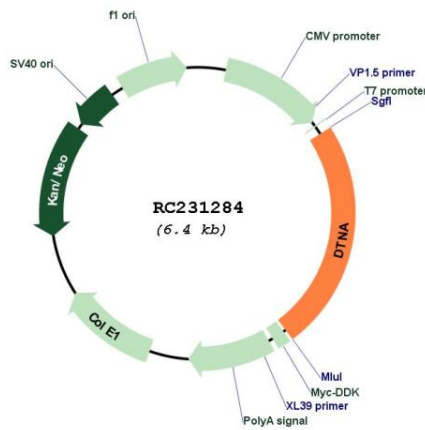
Cytogenetics: 18q12.1

Protein Families: Druggable Genome

MW: 58.9 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 RC231284