

Product datasheet for RC231206

Dystrobrevin alpha (DTNA) (NM_001198944) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dystrobrevin alpha (DTNA) (NM_001198944) 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)
ORF Nucleotide Sequence:	>RC231206 representing NM_001198944 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCCAGATCAGCCTGAGAAGCCACTCAACTGGCTCACATCGTGCCTCCAGACCTGTAACCAGCA
TGAACGACACCCTGTTCTCCACTCTGTTCCCTCCTCAGGAAGTCCTTTTATTACCAGGAGGTTACCTGA
GGGAATAAGTGCATCCAGCCCTGTGGCTGAAGAGCATTCCCTCATAAAGCTGTACGTAATCAGCTTGAT
CACGGTGCACGCATGCTTGAGAGTTCAAACCGGCTTGATGAAGAACACAGGCTAATTGCCAGGTATGCGG
CAAGGCTGGCAGCAGAGTCTCTCGTCTCAGCCACCTCAGCAGAGAAGTCTCCTGACATCTCTTTCAC
CATCGATGCGAATAAGCAGCAAAGGCAGCTGATTGCTGAGCTAGAAAACAAGAACAGAGAAATCTTACAG
GAGATCCAGAGACTTCGGCTAGAGCATGAACAAGCTTCTCAGCCCAGCCAGAGAAGGCACAGCAAACC
CCACCCTGCTGGCAGAACTCCGGCTCCTCAGACAGCGCAAAGATGAGCTGGAACAGAGAATGTCTGCTCT
CCAGGAGAGCCGGAGAGAGCTAATGGTCCAGTTGGAGGGTCTCATGAAGCTACTAAAGACTCAGGGGGCA
GGCTCTCCCCGCTCCTCCCCAGCCACACCATCAGCAGGCCAATCCCATGCCATCCGGTCAGCGTCAG
CCTGCTCCACCCCGACGCACACGCCGAGGACTCCCTCACAGGAGTAGGGGGAGATGTACAAGAGGCATT
TGCACAAAGTTCAAGAAGAACTTAAGGAATGACTTGCTAGTGGCTGCAGATCCATCACTAACACTATG
TCCTCTTTGTGAAAGAGCTGAATTCTGAGGTTGGGAGTGAACAGAGAGTAATGTGGATTCTGAATTTG
CACGGACTCAGTTTGAGGATCTTGTTCCCTCACCAACCTCTGAAAAGGCTTTTCTAGCGCAAATCCATGC
CCGAAAACCTGGGTACATTACAGTGGAGCTACCACAAGTACCATGCGTGGCGACATGGTTACGGAGGAT
GCAGATCCCTATGTGCAGCCTGAAGATGAAAATGAAAATGACTCTGTCCGGCAGCTGGAGAATGAGC
TCCAGATGGAGGAATACCTGAAACAGAAGCTGCAAGATGAAGCTTATCAGGTCAGCTTGAAGGT

ACGGTACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC231206 representing NM_001198944
Red=Cloning site Green=Tags(s)

MFPDQPEKPLNLAHIVPPRPVTSMNDFLFSHVPSSGSPFITRRLPEGISASSPVAEEHSLIKLYVNQLD
 HGARMLESSNRLDEEHLIARYAARLAAESSSSQPPQQRSA PDISFTIDANKQQRQLIAELENKNREILQ
 EIQRRLLEHEQASQPTPEKAQQNPTLLAELRLLRQRKDELEQRMSALQESRRELMVQLEGLMKLLKTGA
 GSPPSSPSHTISRPIPIRSASACSTPHTPQDSLTVGGGDVQEAFAQSSRRNLRNDLLVAADSI NTM
 SSLVKELNSEVGETESNVDFEFARTQFEDLVPSTSEKAFLAQIHARKPGYIHS GATTSTMGRDMVTE
 ADPYVQPEDENYENDSVRQLENELQMEEY LKQKLQDEAYQVSLQG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8056_h12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001198944

ORF Size: 1185 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_001198944.1](#), [NP_001185873.1](#)

RefSeq ORF: 1188 bp

Locus ID: 1837

UniProt ID: [Q9Y4J8](#)

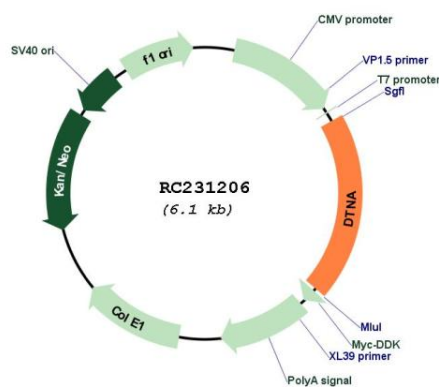
Cytogenetics: 18q12.1

Protein Families: Druggable Genome

MW: 44.6 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 RC231206