

Product datasheet for **RC221162**

Dystrobrevin alpha (DTNA) (NM_001390) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dystrobrevin alpha (DTNA) (NM_001390) 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:

>RC221162 representing NM_001390
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGATTGAAGATAGTGGGAAAAGAGGAAATACCATGGCAGAAAGAAGACAGCTGTTTGCAGAGATGAGGG
 CTAAGATCTGGATCGCATCCGACTCTCCACCTACAGAACAGCATGCAAGCTTAGGTTTGTTCAGAAGAA
 ATGCAATTTGCACCTGGTGGACATATGGAATGTATAGAAGCATTGCGGGAAAATGCTCTGAACAACCTG
 GACCCAAACACTGAACTCAACGTGTCCCCTTAGAGGCTGTGCTCTCCACTATTTTTTACCAGCTCAACA
 AACGGATGCCAACACTCACAAATCCATGTGGAGCAGTCCATCAGCCTCCTCCTAACTTCTGCTTGC
 AGCGTTTGTATCCGGAAGGCCATGGTAAAATTTCAAGTATTTGCTGTCAAAATGGCTTAGCCACATTTGT
 GGAGGGAAGATCATGGACAAATTAAGATATATTTTCTCAATGATTTCTGACTCCAGTGGGTGATGGTTT
 ATGGACGATATGACCAATTCCTTCGGGAAGTTCTCAAACACCCAGGCAGTTTTTGAAGGTCCTTCATT
 TGGTTACACAGAACAGTCAGCCAGATCCTGTTTCTCCCAACAGAAAAAGTCACGTTAAATGGTTTCTTG
 GACACGCTTATGTGAGATCCTCCCCCGAGTGTCTGGTCTGGTTGCCTCTCTGATCGACTAGCAAATG
 TGGAAAATGTCTTCCATCCGGTTGAGTGTCTCTACTGCCACAGTGAGAGTATGATGGGATTTGCTACCG
 ATGCCAACAGTGTCAAAATACCAGCTCTGTCCAGGACTGCTTCTGGAGGGGACATGCCGGTGGTTCTCAT
 AGCAACCAGCACCAATGAAAGAGTACACGTATGGAATCACCTGTAAAGAGCTGACTAATGCATTA
 GCAAGTCCCTGAGCTGTGCTTCCAGCCGTGAACCTTTCACCCCATGTTCCAGATCAGCCTGAGAAGCC
 ACTCAACTTGGCTCACATCGTTGATACTTGGCCTCCCAGACCTGTAACCAGCATGAACGACACCTGTTC
 TCCACTCTGTTCCCTCCTCAGGAAGTCCTTTTATTACCAGGAGCTCTCCTCCCAAGGACAGTGAAGTGA
 AGCAGAAACAACTGTCTGGTAGGGCTGCTCCAGCTTTTCTGAAGGGCAAAGGGATACAGTACAGCTGAA
 TGTGGCAGACAGCTAGCTGATGAACATGTTCTCATCGGTTGTATGTCAACATGCTCCGGAACAACCCC
 TCATGCATGCTTGAGAGTTCAAACCGGCTTGTGAAGAACAAGGCTAATTGCCAGGTATGCCGGAAGGC
 TGGCAGCAGAGTCTCTCGTCTCAGCCACCTCAGCAGAGAAGTGTCTGACATCTCTTTCACCATCGA
 TGGGAATAAGCAGCAAAGGCAGCTGATTGCTGAGCTAGAAAACAAGAACAGAGAAATCTTACAGGAGATC
 CAGAGACTTCGGCTAGAGCATGAACAAGCTTCTCAGCCCAGCCAGAGAAGGCACAGCAAACCCACCC
 TGCTGGCAGAACTCCGGCTCCTCAGACAGCGCAAAGATGAGCTGGAACAGAGAATGTCTGCTCTCCAGGA
 GAGCCGGAGAGAGCTAATGGTCCAGTTGGAGGGTCTCATGAAGCTACTAAAGACTCAGGGGGCAGGCTCT
 CCCCGCTCCTCCCCAGCCACACCATCAGCAGGCCAATCCCATGCCATCCGGTCAGCGTCAGCCTGCT
 CCACCCCGACGCACAGCCGCGAGGACTCCTCACAGGAGTAGGGGGAGATGTACAAGAGGCAATTTGCACA
 AAGTTCAAGAAGAACTTAAGGAATGACTTGTAGTGGTGCAGATTCATCACTAACACTATGTCTCT
 CTTGTGAAAGAGCTGAATTTCTGAGGTTGGGAGTGAAACAGAGAGTAAATGTGGATTCTGAATTTGCACGGA
 CTCAGTTTGAGGATCTTGTTCCTCACCAACCTCTGAAAAGGCTTTTCTAGCGCAAATCCATGCCGAAA
 ACCTGGGTACATTACAGTGGAGCTACCACAAGTACCATGCGTGGCGACATGGTTACGGAGGATGCAGAT
 CCCTATGTGCAGCCTGAAGATGAAAATGAAAATGACTCTGTCCGGCAGCTGGAGAATGAGCTCCAGA
 TGGAGGAATACCTGAAACAGAAGCTGCAAGATGAAGCTTATCAGGTGAGCTTGAAGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC221162 representing NM_001390
 Red=Cloning site Green=Tags(s)

MIEDSGKRGNTMAERRQLFAEMRAQDLDRIRLSTYRTACKLRFVQKKNLHLVDIWNVIEALRENALNNL
 DPNTELNVSRLAVLSTIFYQLNKRMPPTHQIHVEQSI SLLLNFLLAAFDPGEGHKISVFAVKMALATLC
 GGKIMDKLRYIFSMISDSSGVMVYGRYDQFLREVLKLP TAVFEGPSFGYTEQSARSCFSQQKKVTLNGFL
 DTLMSDPPPQCLVWLPLLHRLANVENVFHPVECSYCHSESMMGFRYRCQQCHNYQLCQDCFWRGHAGGSH
 SNQHQMKEYTSWKSPAKKLTNALSKSLSCASSREPLHPMFPDQPEKPLNLAHIVDTWPPRPVTSMNDFL
 SHSVPSGSPFITRSPPKDSEVEQNKLLARAAPFLKKGKIQYSLNVADRLADEHVLIGLYVNMLRNNP
 SCMLESSNRLDEEHRLIARYAARLAAESSSSQPPQORSAPDISFTIDANKQQRQLIAELENKNREILQEI
 QRLRLEHEQASQPTPEKAQNPTLLAELRLLRQRKDELEQRMSALQESRRELMVQLEGLMKLLKQGAGS
 PRSSPSHTISRPIMPPIRSASACSTPHTPQDSL TGVGGDVQEAFAQSSRRNLNDLLVAADSI NTMSS
 LVKELNSEVGSETESNVDFEFARTQFEDLVPSTSEKAF LAQIHARKPGYI HSGATTSTMRGDMVTEDAD
 PYYQPEDENYENDSVRQLENELQMEEY LKQKLQDEAYQVSLQG

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001390

ORF Size: 2229 bp

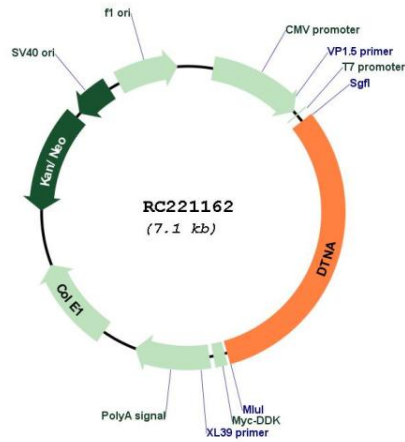
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

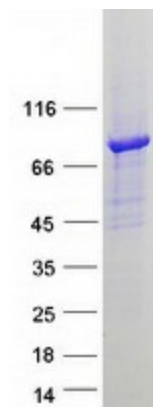
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">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_001390.4 , NP_001381.2
RefSeq Size:	6358 bp
RefSeq ORF:	2232 bp
Locus ID:	1837
UniProt ID:	Q9Y4J8
Cytogenetics:	18q12.1
Domains:	ZnF_ZZ
Protein Families:	Druggable Genome
MW:	83.9 kDa
Gene Summary:	<p>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]</p>

Product images:



Circular map for RC221162



Coomassie blue staining of purified DTNA protein (Cat# [TP321162]). The protein was produced from HEK293T cells transfected with DTNA cDNA clone (Cat# RC221162) using MegaTran 2.0 (Cat# [TT210002]).