

Product datasheet for **RC221112**

Dystrobrevin alpha (DTNA) (NM_032978) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dystrobrevin alpha (DTNA) (NM_032978) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DTNA
Synonyms:	D18S892E; DRP3; DTN; DTN-A; LVNC1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC221112 representing NM_032978
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTGAAGATAGTGGGAAAAGAGGAAATACCATGGCAGAAAGAAGACAGCTGTTTGCAGAGATGAGGG
 CTAAGATCTGGATCGCATCCGACTCTCCACCTACAGAACAGCATGCAAGCTTAGGTTTGTTCAGAAGAA
 ATGCAATTTGCACCTGGTGGACATATGGAATGTATAGAAGCATTGCGGGAAAATGCTCTGAACAACCTG
 GACCCAAACACTGAACTCAACGTGTCCCCTTAGAGGCTGTGCTCTCCACTATTTTTTACCAGCTCAACA
 AACGGATGCCAACCACTACCAAATCCATGTGGAGCAGTCCATCAGCCTCCTCCTAACTCCTGCTTGC
 AGCGTTTGTATCCGGAAGGCCATGGTAAATTTTCAGTATTTGCTGTCAAAATGGCTTTAGCCACATTTGT
 GGAGGGAAGATCATGGACAAATTAAGATATATTTTCTCAATGATTTCTGACTCCAGTGGGGTGTGGTTT
 ATGGACGATATGACCAATTCCTTCGGGAAGTTCTCAAACACCCAGGCAGTTTTTGAAGGTCCTTCATT
 TGGTTACACAGAACAGTCAGCCAGATCCTGTTTCTCCCAACAGAAAAAGTCACGTTAAATGGTTTCTTG
 GACACGCTTATGTGAGATCCTCCCCCGAGTGTCTGGTCTGGTTGCCTCTTCTGCATCGACTAGCAAATG
 TGGAAAATGTCTTCCATCCGGTTGAGTGTCTCTACTGCCACAGTGAAGTATGATGGGATTTTCGCTACCG
 ATGCCAACAGTGTCAAAATACCAGCTCTGTCCAGGACTGCTTCTGGAGGGGACATGCCGGTGGTTTCAT
 AGCAACCAGCACCAAATGAAAGAGTACACGTGATGAAATCACCTGCTAAGAAGCTGACTAATGCATTAA
 GCAAGTCCCTGAGCTGTGCTTCCAGCCGTGAACCTTTCACCCCATGTTCCAGATCAGCCTGAGAAGCC
 ACTCAACTGGCTCACATCGTGCCTCCCAGACCTGTAACCAGCATGAACGACACCCTGTTCTCCACTCT
 GTTCCCTCCTCAGGAAGTCTTTTATTACCAGGAGCTCTCCTCCAAGGACAGTGAAGTAGAGCAGAACA
 AACTGCTGGCTAGGGCTGCTCCAGCTTTTCTGAAGGGCAAAGGGATACAGTACAGCCTGAATGTGGCAGA
 CAGGCTAGCTGATGAACATGTTCTCATCCGGTTGTATGTCAACATGCTCCGGAACAACCCCTCATGCATG
 CTTGAGAGTTCAAACCGCTTGTGAAGAACACAGGCTAATTGCCAGGTATGCGGCAAGGCTGGCAGCAG
 AGTCTCTTCGTCTCAGCCACCTCAGCAGAGAAGTGTCTGACATCTCTTTCACCATCGATGCGAATAA
 GCAGCAAAGGCAGCTGATTGCTGAGCTAGAAAACAAGAACAGAGAAATCTTACAGGAGATCCAGAGACTT
 CGGCTAGAGCATGAACAAGCTTCTCAGCCACGCCAGAGAAGGCACAGCAAACCCACCCTGCTGGCAG
 AACTCCGGCTCCTCAGACAGCGCAAAGATGAGCTGGAACAGAGAATGTCTGCTCTCCAGGAGAGCCGGAG
 AGAGCTAATGGTCCAGTTGGAGGTCTCATGAAGCTACTAAAGGAAGAAGAACTGAAGCAGGGAGTAAAT
 TATGTCCCTACTGCAGGTCT

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC221112 representing NM_032978
 Red=Cloning site Green=Tags(s)

MIEDSGKRGNTMAERRQLFAEMRAQDLDRIRLSTYRTACKLRFVQKKNLHLVDIWNVIEALRENALNLL
 DPNTELVNLSRLEAVLSTIFYQLNKRMPPTHQIHVEQSIISLLNLFLLAAFDPPEGHGKISVFAVKMALATLC
 GGKIMDKLRYIFSMISDSSGVMVYGRYDQFLREVLLKPTAVFEGPSFGYTEQSARSCFSQQKQVTLNGFL
 DTLMSDPPPQCLVWLPLLHRLANVENVFPVECSYCHSESMGFRYRCQQCHNYQLCQDCFWRGHAGGSH
 SNQHQMKEYTSWKSPAKKLTNLSKSLSCASSREPLHPMPDQPEKPLNLAHIVPPRPVTSMDTLFSSHS
 VPSSGSPFITRSSPKDSEVEQNKLLARAAPAFKKGKIQYSLNVADRLADEHVLIGLYVNMLRNNPSCM
 LESSNRLDEEHLIARYAARLAAESSSSQPPQRSAPDISFTIDANKQQRQLIAELENKNREILQEIQRL
 RLEHEQASQPTPEKAQQNPTLLAELRLLRQRKDELEQRMSALQESRRELMVQLEGLMKLLKEELKQGV
 VVPYCRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

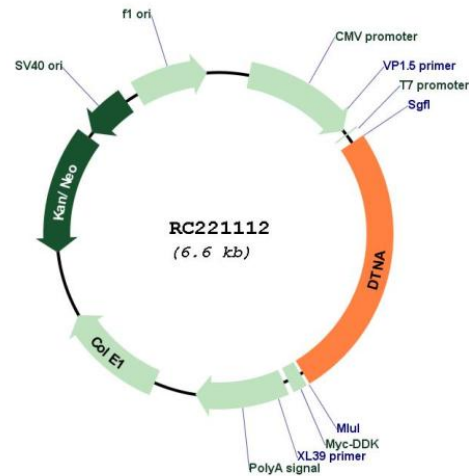
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_032978
 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:	<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_032978.7
RefSeq Size:	3123 bp
RefSeq ORF:	1704 bp
Locus ID:	1837
UniProt ID:	Q9Y4J8
Cytogenetics:	18q12.1
Domains:	ZnF_ZZ
Protein Families:	Druggable Genome
MW:	64.5 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]