

## Product datasheet for **RG221112**

### 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:	TurboGFP
Symbol:	Dystrobrevin alpha
Synonyms:	D18S892E; DRP3; DTN; DTN-A; LVNC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG221112 representing NM\_032978  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGATTGAAGATAGTGGGAAAAGAGAAATACCATGGCAGAAAGAAGACAGCTGTTTGCAGAGATGAGGG  
 CTAAGATCTGGATCGCATCCGACTCTCCACCTACAGAACAGCATGCAAGCTTAGGTTTGTTCAGAAGAA  
 ATGCAATTTGCACCTGGTGGACATATGGAATGTATAGAAGCATTGCGGGAAAATGCTCTGAACAACCTG  
 GACCCAAACACTGAACTCAACGTGTCCCCTTAGAGGCTGTGCTCTCCACTATTTTTTACCAGCTCAACA  
 AACGGATGCCAACACTCACAAATCCATGTGGAGCAGTCCATCAGCCTCCTCCTAACTCCTGCTTGC  
 AGCGTTTGTATCCGGAAGGCCATGGTAAATTTCAAGTATTTGCTGTCAAAATGGCTTTAGCCACATTGTGT  
 GGAGGGAAGATCATGGACAAATTAAGATATATTTTCTCAATGATTTCTGACTCCAGTGGGGTATGGTTT  
 ATGGACGATATGACCAATTCCTTCGGGAAGTTCTCAAACACCCAGCAGTTTTTGAAGGTCCTTCATT  
 TGGTTACACAGAACAGTCAGCCAGATCCTGTTTCTCCCAACAGAAAAAGTCACGTTAAATGGTTTCTTG  
 GACACGCTTATGTGAGATCCTCCCCCGAGTGTCTGGTCTGGTTGCCTCTTCTGCATCGACTAGCAAATG  
 TGGAAAATGTCTTCCATCCGGTTGAGTGTCTACTGCCACAGTGAAGTATGATGGGATTTTCGCTACCG  
 ATGCCAACAGTGTCAAAATACCAGCTCTGTCCAGGACTGCTTCTGGAGGGGACATGCCGGTGGTTTCAT  
 AGCAACCAGCACCAATGAAAGAGTACACGTATGGAATCACCTGCTAAGAAGCTGACTAATGCATTAA  
 GCAAGTCCCTGAGCTGTGCTTCCAGCCGTGAACCTTTCACCCCATGTTCCAGATCAGCCTGAGAAGCC  
 ACTCAACTGGCTCACATCGTGCCTCCCAGACCTGTAACCAGCATGAACGACACCCTGTTCTCCACTCT  
 GTTCCCTCCTCAGGAAGTCTTTTATTACCAGGAGCTCTCCTCCAAGGACAGTGAAGTAGAGCAGAACA  
 AACTGCTGGCTAGGGCTGCTCCAGCTTTTCTGAAGGGCAAAGGGATACAGTACAGCCTGAATGTGGCAGA  
 CAGGCTAGCTGATGAACATGTTCTCATCGGGTTGTATGTCAACATGCTCCGGAACAACCCCTCATGCATG  
 CTTGAGAGTTCAAACCGCTTGTGAAGAACACAGGCTAATTGCCAGGTATGCGGCAAGGCTGGCAGCAG  
 AGTCTCTTCGTCTCAGCCACCTCAGCAGAGAAGTGTCTGACATCTCTTTCACCATCGATGCGAATAA  
 GCAGCAAAGGCAGCTGATTGCTGAGCTAGAAAACAAGAACAGAGAAATCTTACAGGAGATCCAGAGACTT  
 CGGCTAGAGCATGAACAAGCTTCTCAGCCACGCCAGAGAAGGCACAGCAAACCCACCCTGCTGGCAG  
 AACTCCGGCTCCTCAGACAGCGCAAAGATGAGCTGGAACAGAGAATGTCTGCTCTCCAGGAGAGCCGGAG  
 AGAGCTAATGGTCCAGTTGGAGGTCTCATGAAGCTACTAAAGGAAGAAGAACTGAAGCAGGGAGTAAGT  
 TATGTCCCTACTGCAGGTCT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG221112 representing NM\_032978  
 Red=Cloning site Green=Tags(s)

MIEDSGKRGNTMAERRQLFAEMRAQDLDRIRLSTYRTACKLRFVQKKNLHLVDIWNVIEALRENALNNL  
 DPNTELVNLSRLEAVLSTIFYQLNKRMPPTHQIHVEQSI SLLLNFLLA AFDPEGHGKISVFAVKMALATLC  
 GGKIMDKLRYIFSMISDSSGVMVYGRYDQFLREVLKLP TAVFEGPSFGYTEQSARSCFSQQKQVTLNGFL  
 DTLMSDPPPQCLVWLPLLHRLANVENVHPVECSYCHSESMGFRYRCQQCHNYQLCQDCFWRGHAGGSH  
 SNQHQMKEYTSWKSPAKLTNALSKSLSCASSREPLHPMFPDQPEKPLNLAHIVPPRPVTSMNDFLFSHS  
 VPSSGSPFITRSPPKDSEVEQNKLLARAAPAF LKGGIQYSLNVADRLADEHVL IGLYVNMLRNNPSCM  
 LESSNRLDEEHRLIARYAARLAAESSSSQPPQRSAPDISFTIDANKQQRQLIAELENKNREILQEIQRL  
 RLEHEQASQPTPEKAQQNPTLLAELRLLRQRKDELEQRMSALQESRRELMVQLEGLMKLLKEELKQGV  
 S YVPYCRS

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**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:**

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:** [Q9Y4I8](#)

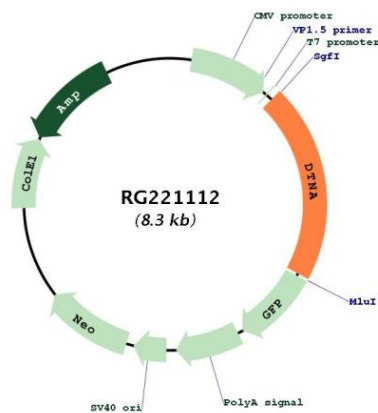
**Cytogenetics:** 18q12.1

**Domains:** ZnF\_ZZ

**Protein Families:** Druggable Genome

**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 RG221112