

## Product datasheet for **RC215398**

### Dystrobrevin alpha (DTNA) (NM\_001391) Human Tagged ORF Clone

#### Product data:

|                    |  |
|--------------------|--|
| Product Type:      | Expression Plasmids  |
| Product Name:      | Dystrobrevin alpha (DTNA) (NM_001391) 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:**

>RC215398 representing NM\_001391  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGATTGAAGATAGTGGGAAAAGAGGAAATACCATGGCAGAAAGAAGACAGCTGTTTGCAGAGATGAGGG  
 CTAAGATCTGGATCGCATCCGACTCTCCACCTACAGAACAGCATGCAAGCTTAGGTTTGTTCAGAAGAA  
 ATGCAATTTGCACCTGGTGGACATATGGAATGTATAGAAGCATTGCGGGAAAATGCTCTGAACAACCTG  
 GACCCAAACACTGAACTCAACGTGTCCCCTTAGAGGCTGTGCTCTCCACTATTTTTTACCAGCTCAACA  
 AACGGATGCCAACCACTACCAAATCCATGTGGAGCAGTCCATCAGCCTCCTCCTAACTTCTGCTTGC  
 AGCGTTTGTATCCGGAAGGCCATGGTAAATTTTCAATGTTTCTGACTCCAGTGGGTGATGGTTT  
 GGAGGGAAGATCATGGACAAATTAAGATATATTTTCTCAATGTTTCTGACTCCAGTGGGTGATGGTTT  
 ATGGACGATATGACCAATTCCTTCGGAAGTTCTCAAACACCCAGGCAGTTTTTGAAGGTCCTTCATT  
 TGGTTACACAGAACAGTCAGCCAGATCCTGTTTCTCCCAACAGAAAAAGTCACGTTAAATGGTTTCTTG  
 GACACGCTTATGTGAGATCCTCCCCCGAGTGTCTGGTCTGGTTGCCTCTTCTGCATCGACTAGCAAATG  
 TGGAAAATGTCTTCCATCCGTTGAGTGTCTCTACTGCCACAGTGAAGTATGATGGGATTTTCGCTACCG  
 ATGCCAACAGTGTACAATTACCAGCTCTGTCCAGGACTGCTTCTGGAGGGGACATGCCGGTGGTTTCTCAT  
 AGCAACCAGCACCAATGAAAGAGTACACGTGATGGAATCACCTGCTAAGAAGCTGACTAATGCATTAA  
 GCAAGTCCCTGAGCTGTGCTTCCAGCCGTGAACCTTTCACCCCATGTTCCAGATCAGCCTGAGAAGCC  
 ACTCAACTTGGCTCACATCGTTGATACTTGGCCTCCCAGACCTGTAACCAGCATGAACGACACCCCTGTT  
 TCCCACTCTGTTCCCTCCTCAGGAAGTCTTTTATTACCAGGAGCTCTCCTCCCAAGGACAGTGAAGTAG  
 AGCAGAAACAACTGTGGCTAGGGCTGTCCAGCTTTTCTGAAGGGCAAAGGGATACAGTACAGCCTGAA  
 GTGGCAGACAGGCTAGCTGATGAACATGTTCTCATCGGGTTGTATGTCAACATGCTCCGGAACAACCCC  
 TCATGCATGCTTGAGAGTTCAAACCGGCTTGTGAAGAACACAGGCTAATTGCCAGGTATGCCGGAAGGC  
 TGGCAGCAGAGTCTTCTGCTCAGCCACCTCAGCAGAGAAGTGTCTGACATCTCTTTCACCATCGA  
 TGCGAATAAGCAGCAAAGGCAGCTGATTGCTGAGCTAGAAAACAAGAACAGAGAAATCTTACAGGAGATC  
 CAGAGACTTCGGCTAGAGCATGAACAAGCTTCTCAGCCCAGCCAGAGAAGGCACAGCAAACCCACCC  
 TGCTGGCAGAACTCCGGCTCCTCAGACAGCGCAAAGATGAGCTGGAACAGAGAATGTCTGCTCTCCAGGA  
 GAGCCGGAGAGACTAATGGTCCAGTTGGAGGGTCTCATGAAGCTACTAAAGGAAGAAGAACTGAAGCAG  
 GGAGTAAGTTATGTCCCCTACTGCAGTCT

**ACGCGT**ACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC215398 representing NM\_001391  
 Red=Cloning site Green=Tags(s)

MIEDSGKRGNTMAERRQLFAEMRAQDLDRIRLSTYRTACKLRFVQKKNLHLVDIWNVIEALRENALNLL  
 DPNTELNVSRLAVALSTIFYQLNKRMPPTHQIHVEQSI SLLLNFLLAAPDFEGHGKISVFAVKMALATLC  
 GGKIMDKLRYIFSMISDSSGVMVYGRYDQFLREVLKLPATVFEGPSFGYTEQSARSCFSQQKQVTLNGFL  
 DTLMSDPPPQCLVWLPLLHRLANVENVFHPVECSYCHSESMMGFRYRCQQCHNYQLCQDCFWRGHAGGSH  
 SNQHQMKEYTSWKSPAKKLTNLSKSLSCASSREPLHPMPDQPEKPLNLAHIVDTWPPRPVTSMNDTLF  
 SHSVPSSGSPFITRSPPKDSEVEQNKLLARAAPAFKKGKIQYSLNVADRLADEHVLIGLYVNMRLRNP  
 SCMLESSNRLDEEHLIARYAARLAAESSSSQPPQORSAPDISFTIDANKQQRQLIAELENKNREILQEI  
 QRLRLEHEQASQPTPEKAQQNPTLLAELRLLRQRKDELEQRMSALQESRRELMVQLEGLMKLLKEEELKQ  
 GVSYPYCRS

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI



|                               |   |
|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>   |
| <b>RefSeq:</b>                | <a href="#">NM_001391.5</a> , <a href="#">NP_001382.2</a>   |
| <b>RefSeq Size:</b>           | 4374 bp   |
| <b>RefSeq ORF:</b>            | 1713 bp   |
| <b>Locus ID:</b>              | 1837  |
| <b>UniProt ID:</b>            | <a href="#">Q9Y4J8</a>  |
| <b>Cytogenetics:</b>          | 18q12.1   |
| <b>Domains:</b>               | ZnF_ZZ  |
| <b>Protein Families:</b>      | Druggable Genome  |
| <b>MW:</b>                    | 65.1 kDa  |
| <b>Gene Summary:</b>          | 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] |