

Product datasheet for **RG221162**

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:	TurboGFP
Symbol:	DTNA
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:

>RG221162 representing NM_001390
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATTGAAGATAGTGGGAAAAGAGGAAATACCATGGCAGAAAGAAGACAGCTGTTTGCAGAGATGAGGG
 CTAAGATCTGGATCGCATCCGACTCTCCACCTACAGAACAGCATGCAAGCTTAGGTTTGTTCAGAAGAA
 ATGCAATTTGCACCTGGTGGACATATGGAATGTATAGAAGCATTGCGGGAAAATGCTCTGAACAACCTG
 GACCCAAACACTGAACTCAACGTGTCCCCTTAGAGGCTGTGCTCTCCACTATTTTTTACCAGCTCAACA
 AACGGATGCCAACACTCACAAATCCATGTGGAGCAGTCCATCAGCCTCCTCCTAACTTCTGCTTGC
 AGCGTTTGTATCCGGAAGGCCATGGTAAATTTTCAATTTTCTCAATGATTTCTGACTCCAGTGGGTGATGGTT
 GGAGGGAAGATCATGGACAAATTAAGATATATTTTCTCAATGATTTCTGACTCCAGTGGGTGATGGTT
 ATGGACGATATGACCAATTCCTTCGGAAGTTCTCAAACACCCAGCAGTTTTTGAAGTCCCTCATT
 TGTTTACACAGAACAGTACAGCAGATCCTGTTTCTCCCAACAGAAAAAGTCACGTTAAATGGTTTCTTG
 GACACGCTTATGTGAGATCCTCCCCCGAGTGTCTGGTCTGGTTGCCTCTTCTGCATCGACTAGCAAATG
 TGGAAAATGTCTTCCATCCGTTGAGTGTCTACTGCCACAGTGAAGTATGATGGGATTTGCTACCG
 ATGCCAACAGTGTCAAAATACCAGCTCTGTCCAGGACTGCTTCTGGAGGGGACATGCCGGTGGTTCTCAT
 AGCAACCAGCACCAATGAAAGAGTACAGTCAATGAAATCACCTGTAAAGAGCTGACTAATGCATTA
 GCAAGTCCCTGAGCTGTGCTTCCAGCCGTGAACCTTTCACCCCATGTTCCAGATCAGCCTGAGAAGCC
 ACTCAACTGGCTCACATCGTTGATACTGGCCTCCCAGACCTGTAACCAGCATGAACGACACCCCTGTT
 TCCACTCTGTTCCCTCCTCAGGAAGTCTTTTATTACCAGGAGCTCTCCTCCCAAGGACAGTGAAGTGA
 AGCAGAACAACTGCTGGCTAGGGCTGCCAGCTTTTCTGAAGGGCAAAGGGATACAGTACAGCTGAA
 TGTGGCAGACAGCTAGCTGATGAACATGTTCTCATCGGTTGTATGTCAACATGCTCCGGAACAACCCC
 TCATGCATGCTTGAGAGTTCAAACCGGCTTGTGAAGAACAAGGCTAATTGCCAGGTATGCCGGAAGGC
 TGGCAGCAGAGTCTTCTGCTCAGCCACCTCAGCAGAGAAGTGTCTGACATCTCTTCCACCATCGA
 TGCGAATAAGCAGCAAAGGCAGCTGATTGCTGAGCTAGAAAACAAGAACAGAGAAATCTTACAGGAGATC
 CAGAGACTTCGGCTAGAGCATGAACAAGCTTCTCAGCCCAGCCAGAGAAGGCACAGCAAACCCACCC
 TGCTGGCAGAACTCCGGCTCCTCAGACAGCGCAAAGATGAGCTGGAACAGAGAATGTCTGCTCTCCAGGA
 GAGCCGGAGAGAGCTAATGGTCCAGTTGGAGGGTCTCATGAAGCTACTAAAGACTCAGGGGGCAGGCTCT
 CCCCCTCCTCCCCAGCCACACCATCAGCAGGCCAATCCCATGCCATCCGGTCAGCGTCAGCCTGCT
 CCACCCGACGCACAGCCGAGGACTCCTCACAGGAGTAGGGGGAGATGTACAAGAGGCAATTTGCACA
 AAGTTCAAGAAGAACTTAAGGAATGACTTGTAGTGGCTGCAGATTCATCACTAACACTATGTCTCT
 CTTGTGAAAGAGCTGAATTTCTGAGGTTGGGAGTGAAACAGAGAGTAAATGTGGATTCTGAATTTGCACGGA
 CTCAGTTTGAGGATCTTGTTCCTCACCAACCTCTGAAAAGGCTTTTCTAGCGCAAATCCATGCCGAAA
 ACCTGGGTACATTACAGTGGAGTACCACAAGTACCATGCGTGGCGACATGGTTACGGAGGATGCAGAT
 CCCTATGTGCAGCCTGAAGATGAAAATGAAAATGACTCTGTCCGGCAGCTGGAGAATGAGCTCCAGA
 TGGAGGAATACCTGAAACAGAAGCTGCAAGATGAAGCTTATCAGGTCAGCTTGAAGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG221162 representing NM_001390
 Red=Cloning site Green=Tags(s)

MIEDSGKRGNTMAERRQLFAEMRAQDLDRIRLSTYRTACKLRFVQKKNLHLVDIWNVIEALRENALNNL
 DPNTELVNLSRLEAVLSTIFYQLNKRMPPTHQIHVEQISLLNFLLAADFPEGHGKISVFAVKMALATLC
 GGMIMDKLRYIFSMISDSSGVMVYGRYDQFLREVLKLP TAVFEGPSFGYTEQSARSCFSQQKQKVTNLGFL
 DTLMSDPPPQCLVWLPLLHRLANVENVFHPVECSYCHSESMGMFRYRCQQCHNYQLCQDCFWRGHAGGSH
 SNQHQMKEYTSWKSPAKKLTNALSKSLSCASSREPLHPMFDPQPEKPLNLAHIVDTWPPRPVTSMDTLF
 SHSVPSSGSPFITRSPPKDSEVEQNKLLARAAPFLKGGKIQYSLNVADRLADEHVLIGLYVNMRLRNNP
 SCMLESSNRLDEEHRLIARYAARLAAESSSSQPPQORSAPDISFTIDANKQQRQLIAELENKNREILQEI
 QRLRLEHEQASQPTPEKAQQNPTLLAELRLLRQRKDELEQRMSALQESRRELMVQLEGLMKLLKQTGAGS
 PRSSPSHTISRPIMPPIRSASACSTPHTHPQDSL TGVGGDVQEAFAQSSRRNLNDLLVAADSITNTMSS
 LVKELNSEVGSETESNVDFEARTQFEDLVPSTSEKAFLAQIHARKPGYIHSGATTSTMRGDMVTEDAD
 PYYQPEDENYENDSVRQLENELQMEEYLKQKLQDEAYQVSLQG

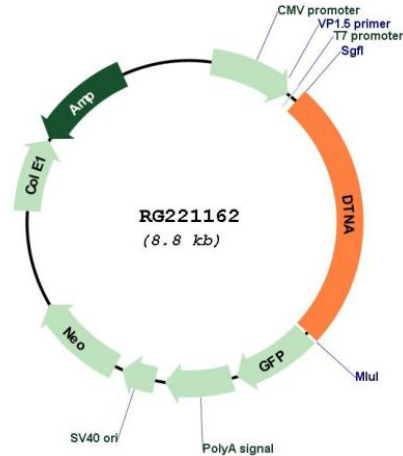
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


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:

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

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]