

## Product datasheet for **RG220954**

### Dystrobrevin alpha (DTNA) (NM\_032981) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dystrobrevin alpha (DTNA) (NM_032981) 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)
ORF Nucleotide Sequence:	>RG220954 representing NM_032981 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTCCAGATCAGCCTGAGAAGCCACTCAACTGGCTCACATCGTGCCTCCAGACCTGTAACCAGCA  
TGAACGACACCCTGTTCTCCACTCTGTTCCCTCCTCAGGAAGTCCTTTTATTACCAGGAGCATGCTTGA  
GAGTTCAAACCGGCTTGATGAAGAACACAGGCTAATTGCCAGGTATGCGGCAAGGCTGCCAGCAGAGTCC  
TCTTCGCTCAGCCACCTCAGCAGAGAAGTCTCCTGACATCTCTTCCACATCGATGCGAATAAGCAGC  
AAAGGCAGCTGATTGCTGAGCTAGAAAACAAGAACAGAGAAATCTTACAGGAGATCCAGAGACTTCGGCT  
AGAGCATGAACAAGTCTCAGCCCACGCCAGAGAAGGCACAGCAAAACCCACCCTGCTGGCAGAACTC  
CGGCTCCTCAGACAGCGCAAAGATGAGCTGGAACAGAGAATGTCTGCTCTCCAGGAGAGCCGGAGAGAGC  
TAATGGTCCAGTTGGAGGGTCTCATGAAGCTACTAAAGGAAGAAGAACTGAAGCAGGGAGTAAGTTATGT  
CCCCTACTGCAGGTCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:	>RG220954 representing NM_032981 Red=Cloning site Green=Tags(s)
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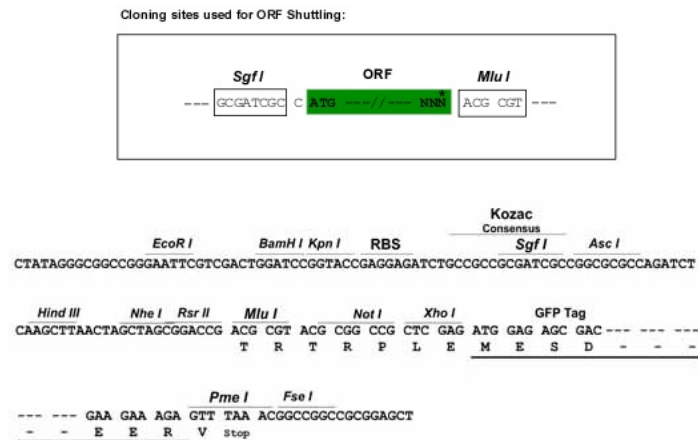
MFPDQPEKPLNLAHIVPPRPVTSMDTLFSSHVPSSGSPFITRSMLESSNRLDEEHRLIARYAARLAAES  
SSSQPPQRSAPDISFTIDANKQQRQLIAELENKNREILQEIQRLRLEHEQASQPTPEKAQQNPTLLAEL  
RLLRQRKDELEQRMSALQESRRELMVQLEGLMKLLKEELKQGVSYVPYCRS

**TRTRPLE** - GFP Tag - V

Restriction Sites:	Sgfl-MluI
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**Cloning Scheme:**


**ACCN:** NM\_032981

**ORF Size:** 576 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\\_032981.5](#)

**RefSeq Size:** 2181 bp

**RefSeq ORF:** 579 bp

**Locus ID:** 1837

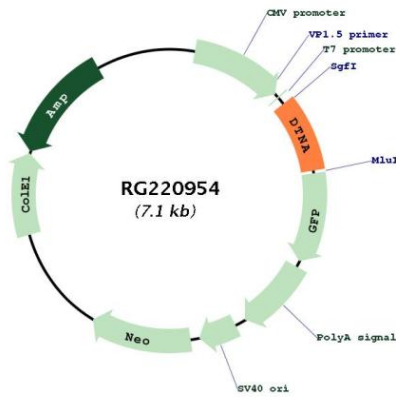
**UniProt ID:** [Q9Y4J8](#)

**Cytogenetics:** 18q12.1

**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 RG220954