

Product datasheet for **SC109178**

Dystrobrevin alpha (DTNA) (NM_032981) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dystrobrevin alpha (DTNA) (NM_032981) Human Untagged Clone
Tag:	Tag Free
Symbol:	Dystrobrevin alpha
Synonyms:	D18S892E; DRP3; DTN; DTN-A; LVNC1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC109178 sequence for NM_032981 edited (data generated by NextGen Sequencing)

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ATGTTCCAGATCAGCCTGAGAAGCCACTCAACTTGGCTCACATCGTGCCTCCCAGACCT
GTAACCAGCATGAACGACACCCTGTTCTCCCACTCTGTTCCCTCCTCAGGAAGTCCTTTT
ATTACCAGGAGCATGCTTGAGAGTTCAAACCGGCTTGATGAAGAACACAGGCTAATTGCC
AGGTATGCGGCAAGGCTGGCAGCAGAGTCCTCTTCGTCTCAGCCACCTCAGCAGAGAAGT
GCTCCTGACATCTCTTTCACCATCGATGCGAATAAGCAGCAAAGGCAGCTGATTGCTGAG
CTAGAAAACAAGAACAGAGAAATCTTACAGGAGATCCAGAGACTTCGGCTAGAGCATGAA
CAAGCTTCTCAGCCCACGCCAGAGAAGGCACAGCAAACCCACCCTGCTGGCAGAACTC
CGGCTCCTCAGACAGCGCAAAGATGAGCTGGAACAGAGAATGTCTGCTCTCCAGGAGAGC
CGGAGAGAGCTAATGGTCCAGTTGGAGGGTCTCATGAAGCTACTAAAGGAAGAAGAACTG
AAGCAGGGAGTAAGTTATGTCCCCTACTGCAGGTCTTAA

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Clone variation with respect to NM_032981.4



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_032981 unedited</p> <pre>TTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGTGGTTCTCATAGC AACCAGCACCAAAATGAAAGAGTACACGTCATGGGTAAGGCAAGGTCCAGGCAATACTTGG AGTTGGATGTGTGAGTGTGCCAGAGTTAAAGGGAATATCAAGGATGGTGGCAGAATTA AAGGGCAAACCTTACCTCCATCCCAGGTCTAGTATTCAGTCCCCCTTCTCCACTCTCC ACCCTACTGCGTGCTCTTACTTATTCTGTTGGAACCCAGTGTAGCTTCCCTGAGATTTAAA ATATAGGAAGACTCAAACTATGTTACTTCTTGGAAATATAGATAATTCAGTACTGATTTA AATAACAACCTGAATAGCAAGGACCTTCTGGAACATAATCTTACATTCACAAAATCACCTG CTAAGAAGCTGACTAATGCATTAAGCAAGTCCCTGAGCTGTGCTTCCAGCCGTGAACCTT TGCACCCCATGTTCCAGATCAGCCTGAGAAGCCACTCAACTGGCTCACATCGTGCTTC CCAGACCTGTAACCAGCATGAACGACACCCTGTTCTCCACTCTGTTCCCTCCTCAGGAA GTCCTTTTATTACCAGGAGCATGCTTGAGAGTTCAAACCGGCTTGATGAAGAACACAGGC TAATTGCCAGGTATGCGGCAAGGCTGGCAGCAGAGTCTCTTCGTCTCAGCCACCTCAGC AGAGAAGTGCTCCTGACATCTCTTCCACATCGATGCGAATAAGCAGCANAGGCAGCTGA TTGCTGAGCTAGAAAACAAGACAGAGAAATCTACAGGAGATCCAGAGACTTTCGCTAGAG CATGAACAAGCTTCTCAGNCCACGCCAGAGAAGCACAGCANAACCCACCTG</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_032981 unedited</p> <pre>GCTTATCTTTCTGTTTTGACTTACANATTGATTTTACACTTTCCTTTTTTACAGACCAT GGGNAATGAAGGGTAAAAATGTGTCCAGCATTTTCAAACATTCTTTGTTACACACAAAC ACACATAATGAATAATAGAAAAGAGCATACAGAAGAAATGAAAGATACGTTGAAATTGGA CAGGTTGTGGTTCTAATTGATCCATGGAATAATGTGAACTTTTAAATAATGCTAGTGA GTGGGATATATTGCATACATAGCGTGGTACATGCACTTCAAATTAAGCTGCTTTTATT TTGCTTCTATTTAATTTAATTTAATTTAATTTAATTTGTTTTTTTTTGGAGTTGCTGCT CCCCCTGCTGGCTCTTGAGCCTGACCACAGGTTTACAGACGCTCCAGTTTAAAGCTATAAAG TCACAATGCCCTATTTCCAGAAAAAAGTATGTAATGACCCCTCTCGTCTCCCGG AGCCGAAAGGCTCTGGTGCTAAAGAAAAAGCTGAGAGTACTTTTTAAAAAGAGATTACT GTCAACCAACAGTAAGGATTCTGCTTTGGGGAAGAGCCAAAAAGATGGGACGTGAATAGT CAGTTATGGAGTACAGTCTTCTCTCACATAATNGAGCACATTCTGGTGAAGCCATGGGGA ACAATGCTCAATAATTGCGTGATGAAAAGGGATTTAATGCTGATTTTTTTTTAAAAGAA GTTTCACAAGTTTTTCAGTAAAATGAAACCGAAGTGAATACTCACAGTTGTGAGGGGTGT AGAAGTTAACTTTCTGAGTGTGTTGGGTTTTGGGATGACATGAACCCCTCAGGTATCTTTA AGGACTGGGGATTTCTCTGTTAAGAGAAGGGCCTGATAACAACCTCGAAAAGCAAGACTG CTTTGAAACTATACCCTGGGGATCTAAATGTTTCCATAAATGAAATCCGCTCCCTTCTCT AAAGAGCACANATCCTTCTTTGAGCGGATTGGNGGAAGGTATAAAGGCCAATTATATCT TCATTTAACCTT</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_032981
Insert Size:	2340 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_032981.2](#), [NP_116763.1](#)

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]

Transcript Variant: This variant (8), also known as zeta transcript, lacks multiple exons from the 5' and 3' ends as well as few internal exons, and contains alternate 5' and 3' exons, compared to transcript variant 1. This results in a shorter isoform (8) with distinct N- and C-termini and lacking two internal segments, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.