

Product datasheet for **SC111623**

Dystrobrevin alpha (DTNA) (NM_001390) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dystrobrevin alpha (DTNA) (NM_001390) 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)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001390, the custom clone sequence may differ by one or more nucleotides

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ATGATTGAAGATAGTGGGAAAAGAGGAAATACCATGGCAGAAAGAAGACAGCTGTTTGCAGAGATGAGGG
CTCAAGATCTGGATCGCATCCGACTCTCCACCTACAGAACAGCATGCAAGCTTAGGTTTGTTCAGAAGAA
ATGCAATTTGCACCTGGTGGACATATGGAATGTCATAGAAGCATTGCGGGAAAATGCTCTGAACAACTG
GACCCAAACACTGAACTCAACGTGTCCCGCTTAGAGGCTGTGCTCTCCACTATTTTTTACCAGCTCAACA
AACGGATGCCAACCACTACCAAATCCATGTGGAGCAGTCCATCAGCCTCCTCCTAACTTCCTGCTTGC
AGCGTTTGATCCGGAAGGCCATGGTAAAATTTTCAGTATTTGCTGTCAAAAATGGCTTTAGCCACATTTGT
GGAGGGAAGATCATGGACAAATTAAGATATATTTTCTCAATGATTTCTGACTCCAGTGGGGTGATGGTTT
ATGGACGATATGACCAATTCCTTCGGAAGTTCTCAAACACCCACGGCAGTTTTTGAAGGTCCTTCATT
TGGTTACACAGAACAGTCAGCCAGATCCTGTTTCTCCCAACAGAAAAAGTCACGTTAAATGGTTTCTTG
GACACGCTTATGTCAGATCCTCCCCCGCAGTGTCTGGTCTGGTTGCCTCTTCTGCATCGACTAGCAAATG
TGGAAAATGTCTCCATCCGGTTGAGTGTCTCTACTGCCACAGTGAGAGTATGATGGGATTCGCTACCG
ATGCCAACAGTGTCAAAATACCAGCTCTGTCCAGGACTGCTTCTGGAGGGGACATGCCGGTGGTTCTCAT
AGCAACACAGCACAAATGAAAGAGTACACGTCTATGGAAATCACCTGCTAAGAAGCTGACTAATGCATTAA
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ACTCAACTGGCTCACATCGTTGATACTTGGCCTCCCAGACCTGTAACCAGCATGAACGACACCCTGTTC
TCCCACTCTGTTCCCTCCTCAGGAAGTCTTTTTATTACCAGGAGCTCTCCTCCCAAGGACAGTGAAGTAG
AGCAGAACAACTGCTGGCTAGGGCTGCTCCAGCTTTTCTGAAGGGCAAAGGGATACAGTACAGCCTGAA
TGTGGCAGACAGGCTAGCTGATGAACATGTTCTCATCGGGTTGTATGTCAACATGCTCCGGAACAACCCC
TCATGCATGCTTGAGAGTTCAAACCGGCTTGATGAAGAACACAGGCTAATTGCCAGGTATGCGGCAAGGC
TGGCAGCAGAGTCTCTTCGTCTCAGCCACCTCAGCAGAGAAGTCTCCTGACATCTCTTCCACCATCGA
TGGCAATAAGCAGCAAAGGCAGCTGATTGCTGAGCTAGAAAAACAAGAACAGAGAAATCTTACAGGAGATC
CAGAGACTTCGGCTAGAGCATGAACAAGCTTCTCAGCCCACGCCAGAGAAGGCACAGCAAAACCCACCC
TGCTGGCAGAACTCCGGCTCCTCAGACAGCGCAAAGATGAGCTGGAACAGAGAATGTCTGCTCTCCAGGA
GAGCCGGAGAGAGCTAATGGTCCAGTTGGAGGGTCTCATGAAGCTACTAAAGACTCAGGGGGCAGGCTCT
CCCCGCTCCTCCCCAGCCACACCATCAGCAGGCCAATCCCATGCCATCCGGTCAGCGTCAGCCTGCT
CCACCCGACGCACACGCCGAGGACTCCCTCACAGGAGTAGGGGGAGATGTACAAGAGGCATTTGCACA
AAGTTCAAGAAGAACTTAAGGAATGACTTGTAGTGGCTGCAGATTCATCACTAACACTATGTCCTCT
CTTGTAAGAGCTGAATTCGAGGTTGGGAGTAAACAGAGAGTAAATGTGGATTCTGAATTTGCACGGA
CTCAGTTTGAGGATCTTGTTCCTCACCAACCTCTGAAAAGGCTTTTCTAGCGCAATCCATGCCCGAAA
ACCTGGGTACATTCACAGTGGAGCTACCACAAGTACCATGCGTGGCGACATGGTTACGGAGGATGCAGAT
CCCTATGTGCAGCCTGAAGATGAAAATATGAAAATGACTCTGTCCGGCAGCTGGAGAATGAGCTCCAGA
TGGAGGAATACCTGAAACAGAAGCTGCAAGATGAAGCTTATCAGGTGAGCTTGAAGGTTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001390 unedited</p> <pre>GGGGGGTTGGGCCCTTTTTCCCNNGGGGTCAGGATTTGTATACGACTTACTATAGG CGGCCCGGAATTCGCCGAGGAAAGTTTCATGCTGTCCCTTCATTGAATTTTAGAATGATTG AAGATAGTGGGAAAAGAGGAAATACCATGGCAGAAAGAAGACAGCTGTTTGCAGAGATGA GGGCTCAAGATCTGGATCGCATCCGACTCTCCACCTACAGAACAGCATGCAAGCTTAGGT TTGTTTCAGAAGAAATGCAATTTGCACCTGGTGGACATATGGAATGTCATAGAAGCATTGC GGGAAAATGCTCTGAACAACCTGGACCCAAACACTGAACCTCAACGTGTCCCGCTTAGAGG CTGTGCTCTCCTACTATTTTTTACCAGCTCAACAAACGGATGCCAACCACTCACAAATCC ATGTGGAGCAGTCCATCAGCCTCCTCTTAACTTCTGCTTGCAGCGTTTATCCGGAAG GCCATGGTAAAATTTTCAGTATTTGCTGTCAAATGGCTTTAGCCACATTGTGTGGAGGGA AGATCATGGACAAATTAAGATATATTTTCTCAATGATTTCTGACTCCAGTGGGGTATGG TNTATGGACGATATGACCAATTCCTTCGGNAAGTTCTCAAACCTCCACGGCAGTTTTTG AAGGTCCTTCATTTGGTTACACAGAACAGTCAGCCAGATCCTGTTTCTCCACAGAAAAA GTCACGTTAAATGTTTCTTGGCAGNCTATGTCAGATCCTCCCGCAGTGTCTGGTCTGG TTGCCTCTTCTGCATCGACTAGCAAATGTGAAAAATGTCTCCATCCGGTTGAGTGTCC TACTGCCACATGAGAGTATGATTGGATTCCGCTACCGATGCCACAGTGTACACATACCA GCTCTGTCAAGACTGCTTCTGAAGGGACATGCCCGTGGTTCTCATACCACCAGCACCAAT GGAGGAGTCCCGCTGGAAATCACCTGCTN</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001390 unedited</p> <pre>TATGGACCGCGCCGCTATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTAAACACACAC CTATGCACTACAAATCTGAGAACAAAAAGTTAGCTGCACTATAGTCATCAGGACACATCT TTAGGGGTGGGGTCTGTGAGGAGCTGTGGGTGTGGTGGTTCCTCTTTCGGTGAGGCT GCTGCCAGGCTGCTGTCTTCTCCTCTGTGTGGCCACAGGGCTCTCCATCATCACCAGTT TTCATGTTACTTTTCATCATCTGTCTGACTATAGCTTGCTTGAGAGGAGTGTGATAAAAGG ATATTGCATTCAACCTTGCAAGCTGACCTGATAAGCTTCATCTTGCAGCTTCTGTTTCAG GTATTCCTCCATCTGGAGCTCATTCTCCAGCTGCCGGACAGAGTCATTTTCATAGTTTTTC ATCTTCAGGCTGCACATAGGGATCTGCATCCTCCGTAACCATGTGCCACGCATGGTACT TGTGGTAGCTCCACTGTGAATGTACCCAGGTTTTTCGGGCATGGATTTGCGCTAGAAAAGC CTTTTCAGAGGTTGGTGAGGGAACAAGATCCTCAAACCTGAGTCCGTGCAAATTCAGAATC CACATTACTCTCTGTTTCACTCCCAACCTCAGAATTCAGCTCTTTCACAAGAGAGGACAT AGTGTTAGTGATGGAATCTGCAGCCACTAGCAAGTCATTCCTTAAAGTTTCTTCTTGAAC TTGTGCAAATGCCTCTTGTACATCTCCCCCTACTNCTGTGANGGAGTCTGCGGCGTGTG CGTCCGGGTGGAGCAGGCTGACCCTGACCGGATGGGCATGGGAAATTCCTGCTGATGGT GTGGCTTGGGGAAGAACCGGAAACCTCCCCCTGATCTTTATAGCTCATGAGACCCCTC ACTGGACATTAGCTCNTCCGGCTCTCTGGAGACAGAATTCCTGTTCCTACTATCTTTCG TGCTGAGGGCCGGAGTCTGCACAGGTGGGGTTC</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_001390
Insert Size:	2580 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_001390.3](#), [NP_001381.2](#)

RefSeq Size: 6358 bp

RefSeq ORF: 2232 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]

Transcript Variant: This variant (1), also known as DTN1, encodes the longest isoform (1). Its 5' UTR has not been determined.