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Product datasheet for SC124351

Dystrobrevin alpha (DTNA) (NM_032975) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dystrobrevin alpha (DTNA) (NM_032975) Human Untagged Clone
Tag:	Tag Free
Symbol:	Dystrobrevin alpha
Synonyms:	D18S892E; DRP3; DTN; DTN-A; LVNC1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>NCBI ORF sequence for NM_032975, the custom clone sequence may differ by one or more nucleotides

ATGATTGAAGATAGTGGGAAAAGAGGAAATACCATGGCAGAAAGAAGACAGCTGTTTGCAGAGATGAGGG
CTCAAGATCTGGATCGCATCCGACTCTCCACCTACAGAACAGCATGCAAGCTTAGGTTTGTTCAGAAGAA
ATGCAATTTGCACCTGGTGGACATATGGAATGTCATAGAAGCATTGCGGGAAAATGCTCTGAACAACCTG
GACCCAAACACTGAACTCAACGTGTCCCGCTTAGAGGCTGTGCTCTCCACTATTTTTTACCAGCTCAACA
AACGGATGCCAACCACTCACCAAATCCATGTGGAGCAGTCCATCAGCCTCCTCCTTAACTTCCTGCTTGC
AGCGTTTGATCCGGAAGGCCATGGTAAAATTTCAGTATTTGCTGTCAAAATGGCTTTAGCCACATTGTGT
GGAGGGAAGATCATGGACAAATTAAGATATATTTTCTCAATGATTTCTGACTCCAGTGGGGTGATGGTTT
ATGGACGATATGACCAATTCCTTCGGGAAGTTCTCAAACTACCCACGGCAGTTTTTGAAGGTCCTTCATT
TGGTTACACAGAACAGTCAGCCAGATCCTGTTTCTCCCAACAGAAAAAAGTCACGTTAAATGGTTTCTTG
GACACGCTTATGTCAGATCCTCCCCCGCAGTGTCTGGTCTGGTTGCCTCTTCTGCATCGACTAGCAAATG
TGGAAAATGTCTTCCATCCGGTTGAGTGTTCCTACTGCCACAGTGAGAGTATGATGGGATTTCGCTACCG
ATGCCAACAGTGTCACAATTACCAGCTCTGTCAGGACTGCTTCTGGAGGGGACATGCCGGTGGTTCTCAT
AGCAACCAGCACCAAATGAAAGAGTACACGTCATGGAAATCACCTGCTAAGAAGCTGACTAATGCATTAA
GCAAGTCCCTGAGCTGTGCTTCCAGCCGTGAACCTTTGCACCCCATGTTCCCAGATCAGCCTGAGAAGCC
ACTCAACTTGGCTCACATCGTTGATACTTGGCCTCCCAGACCTGTAACCAGCATGAACGACACCCTGTTC
TCCCACTCTGTTCCCTCCTCAGGAAGTCCTTTTATTACCAGGAGCATGCTTGAGAGTTCAAACCGGCTTG
ATGAAGAACACAGGCTAATTGCCAGGTATGCGGCAAGGCTGGCAGCAGAGTCCTCTTCGTCTCAGCCACC
TCAGCAGAGAAGTGCTCCTGACATCTCTTTCACCATCGATGCGAATAAGCAGCAAAGGCAGCTGATTGCT
GAGCTAGAAAACAAGAACAGAGAAATCTTACAGGAGATCCAGAGACTTCGGCTAGAGCATGAACAAGCTT
CTCAGCCCACGCCAGAGAAGGCACAGCAAAACCCCACCCTGCTGGCAGAACTCCGGCTCCTCAGACAGCG
CAAAGATGAGCTGGAACAGAGAATGTCTGCTCTCCAGGAGAGCCGGAGAGAGCTAATGGTCCAGTTGGAG
GGTCTCATGAAGCTACTAAAGACTCAGGGGGCAGGCTCTCCCCGCTCCTCCCCCAGCCACACCATCAGCA
GGCCAATTCCCATGCCCATCCGGTCAGCGTCAGCCTGCTCCACCCCGACGCACACGCCGCAGGACTCCCT
CACAGGAGTAGGGGGAGATGTACAAGAGGCATTTGCACAAAGTTCAAGAAGAAACTTAAGGAATGACTTG
CTAGTGGCTGCAGATTCCATCACTAACACTATGTCCTCTCTTGTGAAAGAGCTGAATTCTGAGGTTGGGA
GTGAAACAGAGAGTAATGTGGATTCTGAATTTGCACGGACTCAGTTTGAGGATCTTGTTCCCTCACCAAC
CTCTGAAAAGGCTTTTCTAGCGCAAATCCATGCCCGAAAACCTGGGTACATTCACAGTGGAGCTACCACA
AGTACCATGCGTGGCGACATGGTTACGGAGGATGCAGATCCCTATGTGCAGCCTGAAGATGAAAACTATG
AAAATGACTCTGTCCGGCAGCTGGAGAATGAGCTCCAGATGGAGGAATACCTGAAACAGAAGCTGCAAGA
TGAAGCTTATCAGGTCAGCTTGCAAGGTTGA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_032975 unedited
GGGGGTTCAAATTTTGTAACACGACTCACTATAGGCGGCCGCGATTCGGCACGAGGATTT
TAGAATGATTGAAGATGTGGGAAAAGAGAATACCATGGCAGAAAGAAGACAGCTGTTTGC
AGAGATGAGGGCTCAAGATCTGGATCGCATCCGACTCTCCACCTACAGAACAGCATGCAA
GCTTAGGTTTGTTCAGAAGAAATGCAATTTGCACCTGGTGGACATATGGAATGTCATAGA
AGCATTGCGGGAAAATGCTCTGAACAACCTGGACCCAAACACTGAACTCAACGTGTCCCG
CTTAGAGGCTGTGCTCTCCACTATTTTTTACCAGCTCAACAAACGGATGCCAACCACTCA
CCAAATCCATGTGGAGCAGTCCATCAGCCTCCTCCTTAACTTCCTGCTTGCAGCGTTTGA
TCCGGAAGGCCATGGTAAAATTTCAGTATTTGCTGTCAAAATGGCTTTAGCCACATTGTG
TGGAGGGAAGATCATGGACAAATTAAGATATATTTTCTCAATGATTTCTGACTCCAGTGG
GGTGATGGTTTATGGACGATATGACCAATTCCTTCGGGAAGTTCTCAAACTACCCACGGC
AGTTTTTGAAGGTCCTTCATTTGGTTACACAGAACAGTCAGCCAGATCCTGTTTCTCCCA
ACAGAAAAAAGTCACGTTAAATGGTTTCTTGGACACGCTTATGTCAGATCCTCCCCCGCA
GTGTCTGGTCTGGTTGCCTCTTCTGCATCGACTAGCAAATGTGGAAAATGTCTTCCATTC
GGNTGAGTGNTCCTACTGCCACAGTGAGAGTATGATGGGGATTTCGCTACCGATGCCAAC
AGTGTCACAATTACCAGCTCTGTCAGGACTGCTTCTGGAGGAGACATGCNCGNTGGTTCT
CATTAGCACCAGCNCCCAATGNAAGAGTACACGTCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_032975 unedited
CTATGAACCCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTGGTTCAAAAG
TAAAAATGCCCTTTCTTCTAAGGACAGTGGAGTTCTCACTTGTGGCTCCTTGCGTGGAAT
CGAACCAAGGGGAATGCAGCAACCAAAGGTTGCTGGATTTACAAGATCTATCTACGGTTA
ACAGCCAAGAACTAATAAGGGTGGACAAAGATGATCAAAATAAAAGCAGACATCAGTGCT
AAATTATGATGCAACAGTTTGGCTCATGCATATAAGAAAATACATAGTATATCACAACAA
AGGCCACACACTCTTAATGCAATTCAGTTCACATTACTACTTACAAATGAACCTTCCCTG
CCTTATAGTAGATCATTCAAGAACCCATTTTTCACAATCTCCAGCACAACTCCCTCTGAC
CAACCAAACTTACCCCAACTTCCGTCCTGACCAACCACAACTGTTTCCTGAATCCCATGC
AGTAGATTTCACCTTCCTCCCCTCCTCCATTAATATGGCGCTGTGGAGGAGGGTTGGCTG
TGTTAGACCAGTGCTTATTAACAGGCTATCAGCTCTGATGGAGATGGATGTGCAATTCAT
TGTGGAACAAGAAAGAAACAACCCCCGCAAGATGTAGTTGTATCTAATGGACAGGACAAG
TGAAACTTGCTGGGTTTGCACTTAGAACAGGCCCCAAAAGTAAATCTGGAGAGCCAAGGA
AAGAAACCCACCAAAAAACACAAAACCCCAAAATACACACGCCATTTTGTCTCGCTTACA
GGACAGGGGTGCTCGAGTCTGGTCTCANTGCTGACGTGGAGTTGAGAAGAGTGTGATAAA
AAGATATTGCATTCAACCCTGCAAGCTGACCTGATAAGCTTCATCTTGCAGCTTCTGTTT
CAGGTATTCCTNCATCTGGAGCTCATTTCTCAGCTGCCGGACAGAGTCATTTCATAGTTT
TCATCTTCAGGCTGCCATC

Restriction Sites: NotI-NotI

ACCN: NM_032975

Insert Size: 3090 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_032975.1, NP_116757.1
RefSeq Size:	6537 bp
RefSeq ORF:	6537 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] Transcript Variant: This variant (2), also known as alpha transcript, lacks two consecutive in-frame coding exons, compared to variant 1. The resulting isoform (2) lacks an internal segment, as compared to isoform 1.