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Product datasheet for RC225568

Dystrobrevin alpha (DTNA) (NM_001128175) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dystrobrevin alpha (DTNA) (NM_001128175) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DTNA
Synonyms:	D18S892E; DRP3; DTN; DTN-A; LVNC1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC225568 representing NM_001128175 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGATTGAAGATAGTGGGAAAAGAGGAAATACCATGGCAGAAAGAAGACAGCTGTTTGCAGAGATGAGGG CTCAAGATCTGGATCGCATCCGACTCTCCACCTACAGAACAGCATGCAAGCTTAGGTTTGTTCAGAAGAA ATGCAATTTGCACCTGGTGGACATATGGAATGTCATAGAAGCATTGCGGGAAAATGCTCTGAACAACCTG GACCCAAACACTGAACTCAACGTGTCCCGCTTAGAGGCTGTGCTCTCCACTATTTTTTACCAGCTCAACA AACGGATGCCAACCACTCACCAAATCCATGTGGAGCAGTCCATCAGCCTCCTCCTTAACTTCCTGCTTGC AGCGTTTGATCCGGAAGGCCATGGTAAAATTTCAGTATTTGCTGTCAAAATGGCTTTAGCCACATTGTGT GGAGGGAAGATCATGGACAAATTAAGATATATTTTCTCAATGATTTCTGACTCCAGTGGGGTGATGGTTT ATGGACGATATGACCAATTCCTTCGGGAAGTTCTCAAACTACCCACGGCAGTTTTTGAAGGTCCTTCATT TGGTTACACAGAACAGTCAGCCAGATCCTGTTTCTCCCAACAGAAAAAAGTCACGTTAAATGGTTTCTTG GACACGCTTATGTCAGATCCTCCCCCGCAGTGTCTGGTCTGGTTGCCTCTTCTGCATCGACTAGCAAATG TGGAAAATGTCTTCCATCCGGTTGAGTGTTCCTACTGCCACAGTGAGAGTATGATGGGATTTCGCTACCG ATGCCAACAGTGTCACAATTACCAGCTCTGTCAGGACTGCTTCTGGAGGGGACATGCCGGTGGTTCTCAT AGCAACCAGCACCAAATGAAAGAGTACACGTCATGGAAATCACCTGCTAAGAAGCTGACTAATGCATTAA GCAAGTCCCTGAGCTGTGCTTCCAGCCGTGAACCTTTGCACCCCATGTTCCCAGATCAGCCTGAGAAGCC ACTCAACTTGGCTCACATCGTGCCTCCCAGACCTGTAACCAGCATGAACGACACCCTGTTCTCCCACTCT GTTCCCTCCTCAGGAAGTCCTTTTATTACCAGGAGCTCGGACGGTGCTTTTGGTGGATGCGTC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC225568 representing NM_001128175
Red=Cloning site Green=Tags(s)

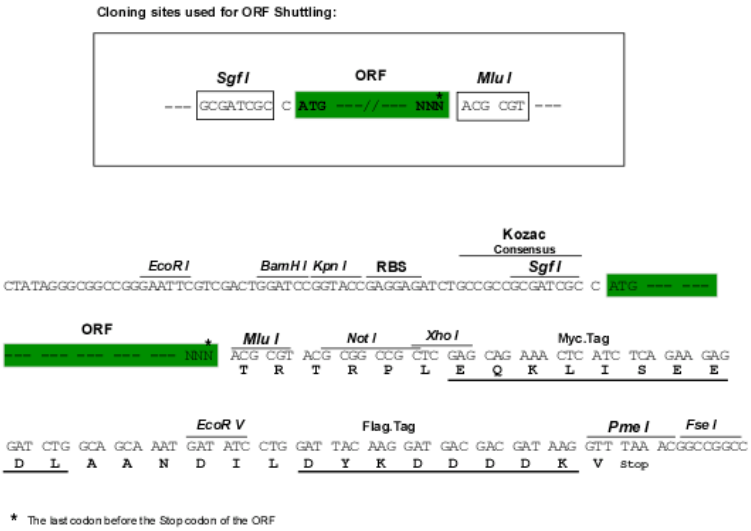
MIEDSGKRGNTMAERRQLFAEMRAQDLDRIRLSTYRTACKLRFVQKKCNLHLVDIWNVIEALRENALNNL
DPNTELNVSRLEAVLSTIFYQLNKRMPTTHQIHVEQSISLLLNFLLAAFDPEGHGKISVFAVKMALATLC
GGKIMDKLRYIFSMISDSSGVMVYGRYDQFLREVLKLPTAVFEGPSFGYTEQSARSCFSQQKKVTLNGFL
DTLMSDPPPQCLVWLPLLHRLANVENVFHPVECSYCHSESMMGFRYRCQQCHNYQLCQDCFWRGHAGGSH
SNQHQMKEYTSWKSPAKKLTNALSKSLSCASSREPLHPMFPDQPEKPLNLAHIVPPRPVTSMNDTLFSHS
VPSSGSPFITRSSDGAFGGCV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

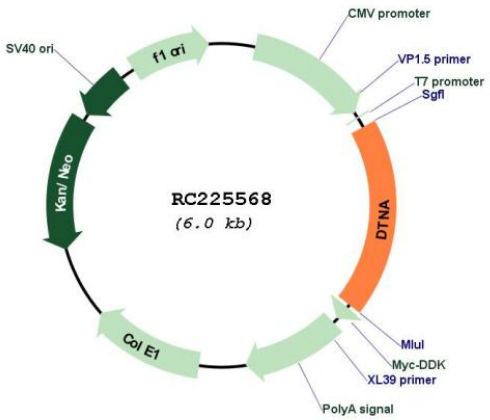
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001128175

ORF Size:	1113 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_001128175.2
RefSeq ORF:	1116 bp
Locus ID:	1837
UniProt ID:	Q9Y4J8
Cytogenetics:	18q12.1
Protein Families:	Druggable Genome
MW:	41.8 kDa
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]