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Product datasheet for RC220954

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:	Myc-DDK
Symbol:	Dystrobrevin alpha
Synonyms:	D18S892E; DRP3; DTN; DTN-A; LVNC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC220954 representing NM_032981
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTCCCAGATCAGCCTGAGAAGCCACTCAACTTGGCTCACATCGTGCTTCCCAGACCTGTAACCAGCA
TGAACGACACCCTGTTCTCCCACTCTGTTCCCTCCTCAGGAAGTCCTTTTATTACCAGGAGCATGCTTGA
GAGTTCAAACCGGCTTGATGAAGAACACAGGCTAATTGCCAGGTATGCGGCAAGGCTGGCAGCAGAGTCC
TCTTCGTCTCAGCCACCTCAGCAGAGAAGTGCTCCTGACATCTCTTTCACCATCGATGCGAATAAGCAGC
AAAGGCAGCTGATTGCTGAGCTAGAAAACAAGAACAGAGAAATCTTACAGGAGATCCAGAGACTTCGGCT
AGAGCATGAACAAGCTTCTCAGCCCACGCCAGAGAAGGCACAGCAAAACCCCACCCTGCTGGCAGAACTC
CGGCTCCTCAGACAGCGCAAAGATGAGCTGGAACAGAGAATGTCTGCTCTCCAGGAGAGCCGGAGAGAGC
TAATGGTCCAGTTGGAGGGTCTCATGAAGCTACTAAAGGAAGAAGAACTGAAGCAGGGAGTAAGTTATGT
CCCCTACTGCAGGTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC220954 representing NM_032981
Red=Cloning site Green=Tags(s)

MFPDQPEKPLNLAHIVLPRPVTSMNDTLFSHSVPSSGSPFITRSMLESSNRLDEEHRLIARYAARLAAES
SSSQPPQQRSAPDISFTIDANKQQRQLIAELENKNREILQEIQRLRLEHEQASQPTPEKAQQNPTLLAEL
RLLRQRKDELEQRMSALQESRRELMVQLEGLMKLLKEEELKQGVSYVPYCRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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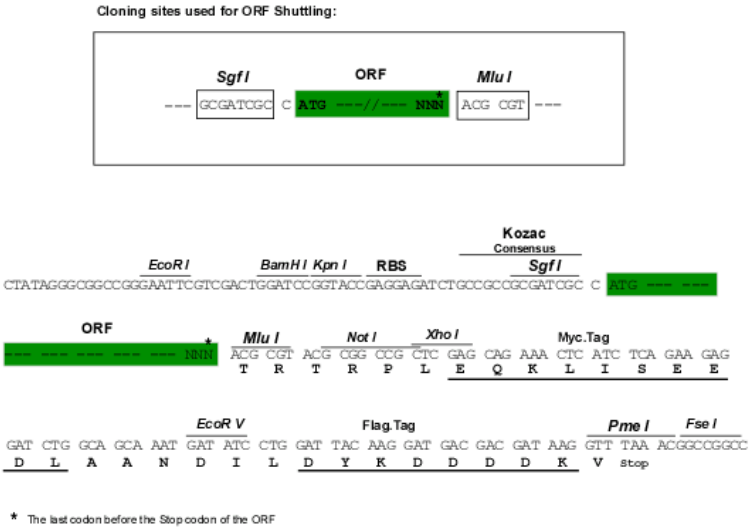
Chromatograms: https://cdn.origene.com/chromatograms/mk6486_a06.zip

Restriction Sites: SgfI-MluI

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.

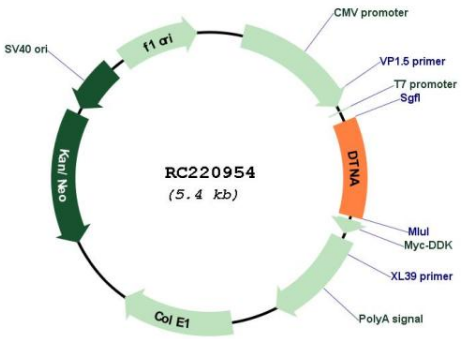
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_032981.5

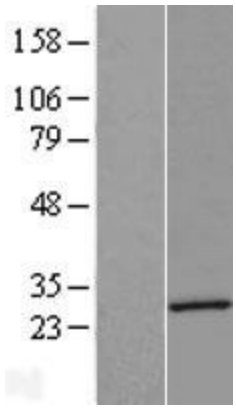
RefSeq Size: 2181 bp

RefSeq ORF:	579 bp
Locus ID:	1837
UniProt ID:	Q9Y4J8
Cytogenetics:	18q12.1
Protein Families:	Druggable Genome
MW:	21.9 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]

Product images:



Circular map for RC220954



Western blot validation of overexpression lysate (Cat# [LY409819]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220954 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).