

Product datasheet for RC203419

Destrin (DSTN) (NM_006870) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Destrin (DSTN) (NM_006870) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: Destrin
Synonyms: ACTDP; ADF; bA462D18.2; HEL32
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC203419 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCTCAGGAGTGCAAGTAGCTGATGAAGTATGTCGCATTTTTATGACATGAAAGTTCGTAATGCT
 CCACACCAGAAGAAATCAAGAAAAGAAAGAGGCTGTCATTTTTGTCTCAGTGCAGACAAAAGTGCAT
 CATTGTAGAAGAAGGCAAAGAGATCTTGGTTGGAGATGTTGGTGAACCATAACTGATCCTTTCAAGCAT
 TTTGTGGGAATGCTTCTGAAAAGATTGTCGCTATGCTTTGTATGATGCAAGCTTTGAAACAAAAGAAAT
 CCAGAAAAGAAGAGTTGATGTTTTTTTTGTGGCACCAGAACTAGCACCTCTGAAAAGTAAAATGATCTA
 TGCAAGCTCCAAGGATGCAATAAAAAGAAATTTCAAGGCATAAACATGAATGTCAAGCAAATGGACCA
 GAAGATCTCAATCGGGCTTGTATTGCTGAAAAGTTAGGTGGATCCTTAATTGTAGCCTTTGAAGGATGCC
 CTGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203419 protein sequence
 Red=Cloning site Green=Tags(s)

MASGVQVADEVCRIFYDMKVRKSTPEEIKKRKKAVIFCLSADKKCIIVEEGKEILVGDVGVITIDPFKH
 FVGMLPEKDCRYALYDASFETKESRKEELMFFLWAPELAPLKSMMIYASSKDAIKKKFQGIKHECQANGP
 EDLNRACIAEKLGGSLIVAFEGCPV

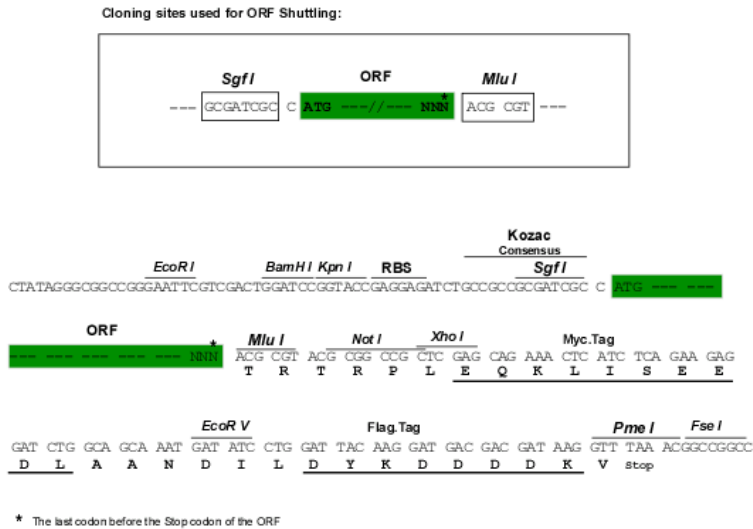
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6056_e06.zip



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006870

ORF Size: 495 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_006870.4](#)

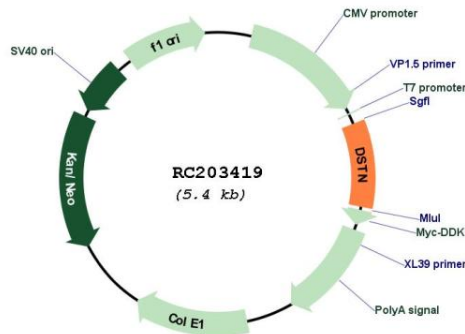
RefSeq Size: 1614 bp

RefSeq ORF: 498 bp

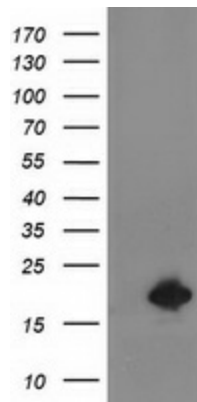
Locus ID: 11034
UniProt ID: [P60981](#)
Cytogenetics: 20p12.1
Domains: ADF
MW: 18.5 kDa

Gene Summary: The product of this gene belongs to the actin-binding proteins ADF family. This family of proteins is responsible for enhancing the turnover rate of actin in vivo. This gene encodes the actin depolymerizing protein that severs actin filaments (F-actin) and binds to actin monomers (G-actin). Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

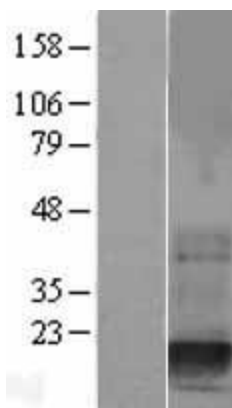
Product images:



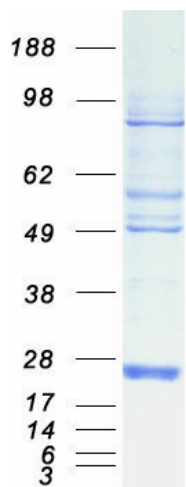
Circular map for RC203419



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY DSTN (Cat# RC203419, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-DSTN (Cat# [TA502608]). Positive lysates [LY402051] (100ug) and [LC402051] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402051]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203419 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DSTN protein (Cat# [TP303419]). The protein was produced from HEK293T cells transfected with DSTN cDNA clone (Cat# RC203419) using MegaTran 2.0 (Cat# [TT210002]).