

Product datasheet for RC236149

DCTN3 (NM_001281425) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DCTN3 (NM_001281425) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: DCTN3
Synonyms: DCTN-22; DCTN22
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236149 representing NM_001281425
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGGGTCTGACTGACTTGCAGCGGCTACAGGCCGAGTGAAGAGCTGGAGCGCTGGGTGTACGGC
CGGGCGGGCGCGCGGCTCACGGAAGGTGGCTGACGGCCTGGTCAAGGTGCAGGTGGCTTTGGGGAACAT
TTCCAGCAAGAGGGAGAGGGTGAAGATTCTCTACAAAAGATTGAAGATCTGATCAAGTACCTGGATCCT
GAGTACATCGACCGCATTGCCATACCTGATGCCTCTAAGCTGCAATTCATCCTAGCAGCCGTTCTGAGC
ATGCTGCCCGCCTGCAGCGCTTGGCCAGATCCACATTAGCAGCAGGACCAGTGTGTGGAAATCACTGA
GGAGTCCAAGGCTCTCTGGAGGAATACAACAAGACTACAATGCTTCTCTCAAGCAATTCGTGCAGTGG
GATGAGCTACTTTGCCAGCTAGAGGCCGCCACGCAAGTGAAGCCAGCAGAGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236149 representing NM_001281425
Red=Cloning site Green=Tags(s)

MAGLTDLQRLQARVEELERWVYGGARGSRKVADGLVKVQVALGNISSKRERVKILYKKIEDLIKYLDP
EYIDRIAIPDASKLQFILAAPVEHAARLQRLAQIHIQQDQCVEITEESKALLEEYNKTTMLLSKQFVQW
DELLCQLEAATQVKPAEE

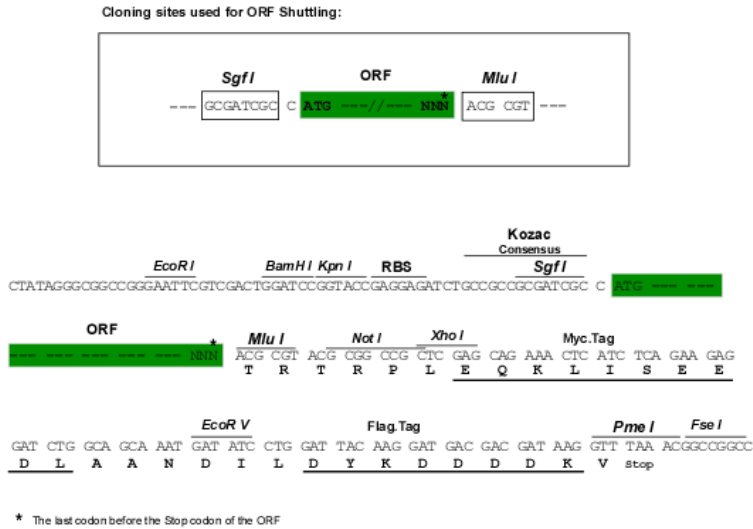
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

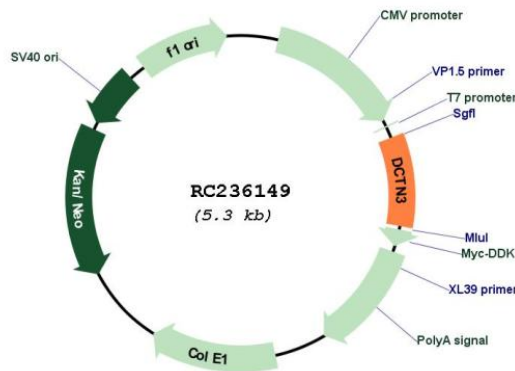


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001281425

ORF Size: 474 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:	<ol style="list-style-type: none">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:	<u>NM_001281425.1, NP_001268354.1</u>
RefSeq Size:	773 bp
RefSeq ORF:	477 bp
Locus ID:	11258
UniProt ID:	<u>O75935</u>
Cytogenetics:	9p13.3
MW:	18.5 kDa
Gene Summary:	This gene encodes the smallest subunit of dynactin, a macromolecular complex consisting of 10 subunits ranging in size from 22 to 150 kD. Dynactin binds to both microtubules and cytoplasmic dynein. It is involved in a diverse array of cellular functions, including ER-to-Golgi transport, the centripetal movement of lysosomes and endosomes, spindle formation, cytokinesis, chromosome movement, nuclear positioning, and axonogenesis. This subunit, like most other dynactin subunits, exists only as a part of the dynactin complex. It is primarily an alpha-helical protein with very little coiled coil, and binds directly to the largest subunit (p150) of dynactin. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]