

Product datasheet for RC210658

DCTN3 (NM_007234) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DCTN3 (NM_007234) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DCTN3
Synonyms:	DCTN-22; DCTN22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210658 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGCGGGTCTGACTGACTTGCAGCGGCTACAGGCCGAGTGGAAGAGCTGGAGCGCTGGGTGTACGGGC
 CGGGCGGGGCGCGCGGCTACGGAAGGTGGCTGACGGCCTGGTCAAGGTGCAGGTGGCTTTGGGGAACAT
 TTCCAGCAAGAGGGAGAGGGTGAAGATTCTCTACAAAAAGATTGAAGATCTGATCAAGTACCTGGATCCT
 GAGTACATCGACCGATTGCCATACCTGATGCCTCTAAGCTGCAATTCATCCTAGCAGAGGAGCAGTTTA
 TCCTTTCCAGGTTGCACTCCTGGAGCAGGTGAATGCCTTGGTGGCCATGCTGGACAGTGCTCACATCAA
 AGCCGTTCTGAGCATGCTGCCCGCTGCAGCGCTTGGCCAGATCCACATTCAGCAGCAGGACCAAGTGT
 GTGGAAATCACTGAGGAGTCCAAGGCTCTCTGGAGGAATACAACAAGACTACAATGCTTCTCTCCAAGC
 AATTCGTGCAGTGGGATGAGCTACTTTGCCAGCTAGAGGCCGCCACGCAAGTGAAGCCAGCAGAGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC210658 protein sequence Red=Cloning site Green=Tags(s)
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MAGLTDLQRLQARVEELERWVYGPGGARGSRKVADGLVKVQVALGNISSKRERVKILYKKIEDLIKYLDP
 EYIDRIAPDASKLQFILAEQFILSQVALLQVNALVPM LDSAHIKAVPEHAARLQRLAQIHIQQQDQC
 VEITEESKALLEEYNKTTMLLSKQFVQWDELLCQLEAATQVKPAEE

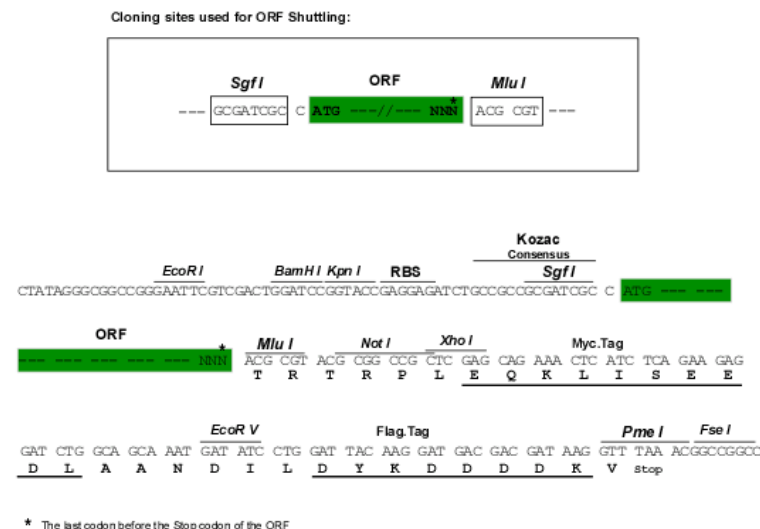
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:	https://cdn.origene.com/chromatograms/mk6547_c09.zip
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Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM 007234

ORF Size: 558 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 007234.5

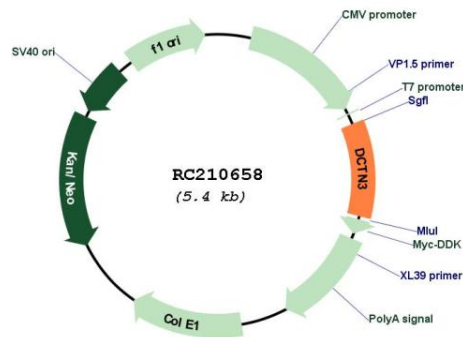
RefSeq Size: 857 bp

RefSeq ORF: 561 bp

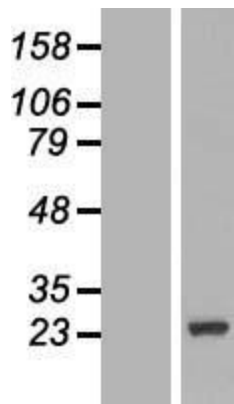
Locus ID: 11258
UniProt ID: [O75935](#)
Cytogenetics: 9p13.3
MW: 21.1 kDa

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]

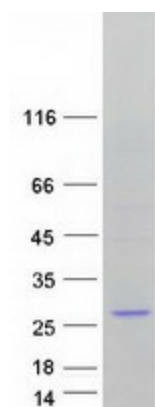
Product images:



Circular map for RC210658



Western blot validation of overexpression lysate (Cat# [LY416118]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210658 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DCTN3 protein (Cat# [TP310658]). The protein was produced from HEK293T cells transfected with DCTN3 cDNA clone (Cat# RC210658) using MegaTran 2.0 (Cat# [TT210002]).