

Product datasheet for **RC205235**

DCTN4 (NM_016221) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DCTN4 (NM_016221) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DCTN4
Synonyms:	DYN4; P62
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC205235 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGTCTTGCTGCAGTCGGACCGGGTTCTCTATCTAGTCCAGGGAGAAAAGAAGTTCTGGGCCCCGC
 TCTCGCAACTCTACTTCTGCCGCTATTGTAGCGAACTGCGGTGCTGGAATGTGTGTCTCACGAGTGGA
 CTCCCATTATTGTCCAGTTGTTTGAATAATGCCATCGGCTGAAGCCAACTAAAAAGAATAGATGT
 GCCAATTGTTTTGACTGCTGCTGGCTGCATGCACACCCTCTCTACTCGGGCCACGAGCATCTCCACACAGC
 TTACAGATGACCCAGCCAAGACCACCATGAAGAAAGCCTATTACCTGGCATGTGGATTTTGTGCTGGAC
 GTCTAGAGATGTGGCATGGCAGACAACTCTGTAGCTAGTGGCGTTGGCAGGAACCTGAAAATCCTCAC
 ACACAACGGATGAACAAATTGATTGAATATTACCAGCAGCTTGTCTAGAAAGAGAAGTTGAGCGAGATC
 GCAAGAACTGGCAGCAGTGAAGAACTATATGCCTCTGGCTTTTTCGGACAAATATGGTCTTGAACCGAG
 GCTTCAGCGACCACGAGCTGGTGCATCCATCAGTACCCTTGCCGGACTTCCCTTAAAGAAGGAGAGGAT
 CAGAAAGAGATAAAGATTGAGCCAGCTCAGGCTGTGGATGAAGTGAACCTCTACCTGAAGACTATTATA
 CAAGACCAGTAAATTTAACAGAGGTAACAACCCCTTCAGCAGCGTCTGTTACAGCCTGACTTCCAGCCAGT
 CTGTGCTTACAGCTCTATCCTCGCCACAAACATCTTCTGATCAAACGGTCCCTGCGCTGCCGTAATGT
 GAACATAATTTGAGCAAGCCAGAATTTAACCCAACGTCAATCAAATCAAATCCAGCTGGTGCCTGTCA
 ATTATATCCAGAAGTGAGAATCATGTCAATCCCAACCTTCGCTACATGAAGGAGAGCCAGGTCCTCTCT
 GACTCTTACAAATCCAGTTGAGAACCTCACCATGTGACTCTATTCGAGTGTGAGGAGGGGGACCCTGAT
 GATATCAACAGCACTGCTAAGGTGGTGGTGCCTCCAAAGAGCTCGTTTTAGCTGGCAAGGATGCAGCAG
 CAGAGTACGATGAGTTGGCAGAACCTCAAGACTTTCAGGACGATCCTGACATTATAGCCTCAGAAAGGC
 CAACAAAGTGGGATTTTTCATCAAAGTTACACCACAGCGTGAGGAGGGTGAAGTGACCGTGTGCTTCAAG
 ATGAAGCATGATTTTAAAAACCTGGCAGCCCCATTTCGCCCATTTGAAGAAAGTGACCAGGGAACAGAAG
 TCATCTGGCTCACCCAGCATGTGGAACCTTAGCTTGGGCCCACTTCTTCTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205235 protein sequence
 Red=Cloning site Green=Tags(s)

MASLLQSDRVLYLVQGEKKVRAPLSQLYFCRYCSELRSLCEVSHVEDSHYCPSCLENMPSAEAKLKKNRC
 ANCFDCPGCMHTLSTRATSIISTQLTDDPAKTTMKAYYLACGFCRWTSRDVGMDKSVASGGWQEPENPH
 TQRMNKLIEYYQQLAQKEKVERDRKKLARRRNYMPLAFSDKYGLGTRLQRPRAGASISTLAGLSLKEGED
 QKEIKIEPAQAVDEVEPLPEDYYTRPVNLTEVTTLQQRLQPDFQPVASQLYPRHKHLLIKRSLRCRKC
 EHNLSKPEFNPTSIKFKIQLVAVNYIPEVRIMSIPNLRMYKESQVLLTLNTPVENLTHVTLFECEEGDPD
 DINSTAKVVVPPKELVLAGKDAAAAYDELAEPQDFQDDPDI IAFRKANKVGIFIKVTPQREEGEVTVCFK
 MKHDFKNLAAPIRPIEESDQGTEVIWLTQHVELSLGPLLP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6026_h01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_016221

ORF Size: 1380 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_016221.4](#)

RefSeq Size: 3937 bp

RefSeq ORF: 1383 bp

Locus ID: 51164

UniProt ID: [Q9UJW0](#)

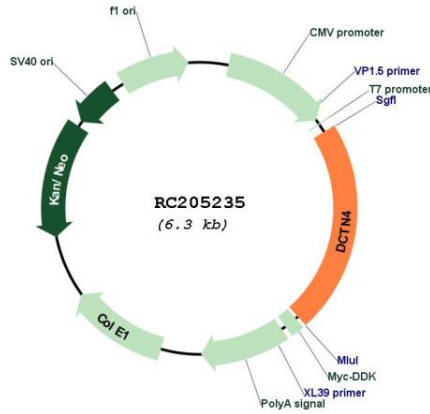
Cytogenetics: 5q33.1

Protein Pathways: Huntington's disease

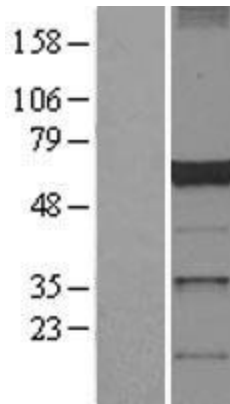
MW: 52.3 kDa

Gene Summary: Could have a dual role in dynein targeting and in ACTR1A/Arp1 subunit of dynactin pointed-end capping. Could be involved in ACTR1A pointed-end binding and in additional roles in linking dynein and dynactin to the cortical cytoskeleton.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC205235



Western blot validation of overexpression lysate (Cat# [LY402527]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205235 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).