

## Product datasheet for RC201004

### DCTN5 (NM\_032486) Human Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: DCTN5 (NM\_032486) Human Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: DCTN5  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 ORF Nucleotide Sequence: >RC201004 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGGATCGCC

ATGGAGTTGGGCGAGCTGCTCTACAACAAGTCTGAGTACATCGAGACGGCATCTGGGAACAAAGTCAGTC  
 GCCAGTCAGTGTGTGTGGAAGCCAGAACATCGTTCTCAATGGCAAGACCATTGTGATGAATGACTGTAT  
 TATCCGAGGGGATCTGGCAAATGTAAGAGTTGGACGTCATTGTGTGTGAAAAGTCGTAGTGTATAAGG  
 CCACATTCAAGAAGTTCAGCAAAGGTGTGCATTCTTTTCCTTTACATATTGGAGACCATGTCTTTATTG  
 AGGAAGATTGTGTGGTCAACGCAGCACAGATTGGTTCCTATGTTTCATGTTGGGAAGAAGTGTGATTGG  
 GCGCCGATGTGTGTGAAAGACTGCTGCAAAATCTTGACAACACAGATTACCTCCAGAAACTGTGGTT  
 CCACCATTCACTGTCTTCTCAGGCTGCCAGGACTCTTCTCAGGGGAGCTCCCGGAGTCACTCAGGAGC  
 TGATGATTGACGTACCAAGAGCTACTACCAGAAGTTTTTCCCCCTGACGCAAGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201004 protein sequence  
 Red=Cloning site Green=Tags(s)

MELGELLYNKSEYIETASGNKVSQRQSVLCSQNIIVLNGKTIVMNDCIIRGDLANVRVGRHCVVKSRSVIR  
 PPFKFKSKGVAFFPLHIGDHVFI EEDCVNAAQIGSYVHVGNKNCVIGRRCVLKDCCKILDNTVLPPEVTV  
 PPFTVFSGCPGLFSGELPECTQELMIDVTKSYYQKFLPLTQV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk6081\\_c12.zip](https://cdn.origene.com/chromatograms/mk6081_c12.zip)

Restriction Sites: Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_032486

**ORF Size:** 546 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\\_032486.4](#)

**RefSeq Size:** 7329 bp

**RefSeq ORF:** 549 bp

**Locus ID:** 84516

**UniProt ID:** [Q9BTE1](#)

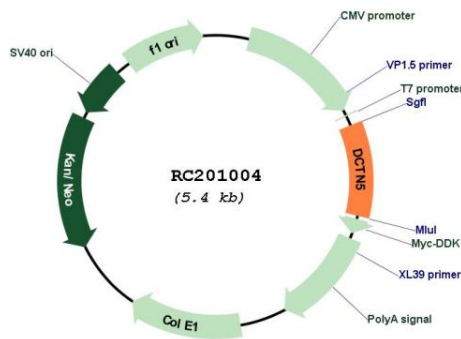
**Cytogenetics:** 16p12.2

**Domains:** hexapep

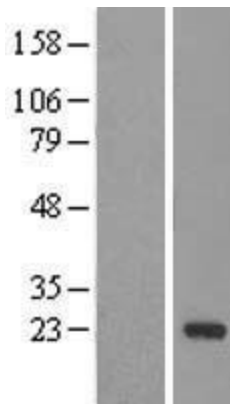
**MW:** 20.1 kDa

**Gene Summary:** This gene encodes a subunit of dynactin, a component of the cytoplasmic dynein motor machinery involved in minus-end-directed transport. The encoded protein is a component of the pointed-end subcomplex and is thought to bind membranous cargo. A pseudogene of this gene is located on the long arm of chromosome 1. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2011]

**Product images:**



Circular map for RC201004



Western blot validation of overexpression lysate (Cat# [LY410113]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201004 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).