

## **Product datasheet for PH314771**

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

# Dynamitin (DCTN2) (NM\_006400) Human Mass Spec Standard

**Product data:** 

**Product Type:** Mass Spec Standards

**Description:** DCTN2 MS Standard C13 and N15-labeled recombinant protein (NP\_006391)

Species: Human
Expression Host: HEK293

Expression cDNA Clone

or AA Sequence:

RC214771

**Predicted MW:** 44.6 kDa

Protein Sequence: >RC214771 representing NM\_006400

Red=Cloning site Green=Tags(s)

MADPKYADLPGIARNEPDVYETSDLPEDDQAEFDAFAQELEELTSTSVEHIIVNPNAAYDKFKDKRVGTK GLDFSDRIGKTKRTGYESGEYEMLGEGLGVKETPQQKYQRLLHEVQELTTEVEKIKTTVKESATEEKLTP VLLAKQLAALKQQLVASHLEKLLGPDAAINLTDPDGALAKRLLLQLEATKNSKGGSGGKTTGTPPDSSLV TYELHSRPEQDKFSQAAKVAELEKRLTELETAVRCDQDAQNPLSAGLQGACLMETVELLQAKVSALDLAV LDQVEARLQSVLGKVNEIAKHKASVEDADTQSKVHQLYETIQRWSPIASTLPELVQRLVTIKQLHEQAMQ

FGQLLTHLDTTQQMIANSLKDNTTLLTQVQTTMRENLATVEGNFASIDERMKKLGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

Concentration: >0.05 µg/µL as determined by microplate BCA method

Labeling Method: Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3

**Storage:** Store at -80°C. Avoid repeated freeze-thaw cycles.

**Stability:** Stable for 3 months from receipt of products under proper storage and handling conditions.

**RefSeq:** NP 006391

RefSeq Size: 1757 RefSeq ORF: 1218

Synonyms: DCTN50; DYNAMITIN; HEL-S-77; RBP50

**Locus ID:** 10540



#### Dynamitin (DCTN2) (NM\_006400) Human Mass Spec Standard - PH314771

UniProt ID: <u>Q13561</u>, <u>V9HW58</u>

Cytogenetics: 12q13.3

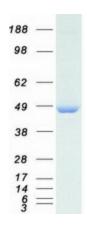
Summary: This gene encodes a 50-kD subunit of dynactin, a macromolecular complex consisting of 10-

11 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, chromosome movement, nuclear positioning, and axonogenesis. This subunit is present in 4-5 copies per dynactin molecule. It contains three short alpha-helical coiled-coil domains that may mediate association with self or other dynactin subunits. It may interact directly with the largest subunit (p150) of dynactin and may affix p150 in place. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by

RefSeq, May 2012]

**Protein Pathways:** Huntington's disease

### **Product images:**



Coomassie blue staining of purified DCTN2 protein (Cat# [TP314771]). The protein was produced from HEK293T cells transfected with DCTN2 cDNA clone (Cat# [RC214771]) using MegaTran 2.0 (Cat# [TT210002]).