

## **Product datasheet for TP314076M**

## OriGene Technologies, Inc.

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## CDC42 (NM\_001791) Human Recombinant Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human cell division cycle 42 (GTP binding protein, 25kDa) (CDC42),

transcript variant 1, 100 µg

Species: Human
Expression Host: HEK293T

**Expression cDNA Clone** >RC214076 representing NM\_001791

or AA Sequence: Red=Cloning site Green=Tags(s)

 $\label{thm:local-potential} MQTIKCVVVGDGAVGKTCLLISYTTNKFPSEYVPTVFDNYAVTVMIGGEPYTLGLFDTAGQEDYDRLRPL\\ SYPQTDVFLVCFSVVSPSSFENVKEKWVPEITHHCPKTPFLLVGTQIDLRDDPSTIEKLAKNKQKPITPE$ 

TAEKLARDLKAVKYVECSALTQKGLKNVFDEAILAALEPPEPKKSRRCVLL

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV** 

Tag: C-Myc/DDK

Predicted MW: 21.1 kDa

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

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

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by

conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: NP 001782

Locus ID: 998

**UniProt ID:** P60953, A0A024RAA5





RefSeq Size: 2183

Cytogenetics: 1p36.12 RefSeq ORF: 573

Synonyms: CDC42Hs; G25K; TKS

Summary: The protein encoded by this gene is a small GTPase of the Rho-subfamily, which regulates

signaling pathways that control diverse cellular functions including cell morphology, migration, endocytosis and cell cycle progression. This protein is highly similar to Saccharomyces cerevisiae Cdc 42, and is able to complement the yeast cdc42-1 mutant. The product of oncogene Dbl was reported to specifically catalyze the dissociation of GDP from this protein. This protein could regulate actin polymerization through its direct binding to Neural Wiskott-Aldrich syndrome protein (N-WASP), which subsequently activates Arp2/3 complex. Alternative splicing of this gene results in multiple transcript variants. Pseudogenes of this gene have

**Protein Families:** Druggable Genome

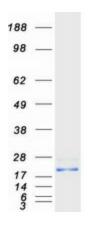
**Protein Pathways:** Adherens junction, Axon guidance, Chemokine signaling pathway, Endocytosis, Epithelial cell

signaling in Helicobacter pylori infection, Fc gamma R-mediated phagocytosis, Focal adhesion, GnRH signaling pathway, Leukocyte transendothelial migration, MAPK signaling pathway, Neurotrophin signaling pathway, Pancreatic cancer, Pathogenic Escherichia coli infection, Pathways in cancer, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor

been identified on chromosomes 3, 4, 5, 7, 8 and 20. [provided by RefSeq, Apr 2013]

signaling pathway, Tight junction, VEGF signaling pathway

## **Product images:**



Coomassie blue staining of purified CDC42 protein (Cat# [TP314076]). The protein was produced from HEK293T cells transfected with CDC42 cDNA clone (Cat# [RC214076]) using MegaTran 2.0 (Cat# [TT210002]).