

Product datasheet for PH310316

OriGene Technologies, Inc.

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Cyclin D2 (CCND2) (NM_001759) Human Mass Spec Standard

Product data:

Product Type: Mass Spec Standards

Description: CCND2 MS Standard C13 and N15-labeled recombinant protein (NP_001750)

Species: Human Expression Host: HEK293

Expression cDNA Clone

RC210316

or AA Sequence: Predicted MW:

33.1 kDa

Protein Sequence: >RC210316 protein sequence

Red=Cloning site Green=Tags(s)

MELLCHEVDPVRRAVRDRNLLRDDRVLQNLLTIEERYLPQCSYFKCVQKDIQPYMRRMVATWMLEVCEEQ KCEEEVFPLAMNYLDRFLAGVPTPKSHLQLLGAVCMFLASKLKETSPLTAEKLCIYTDNSIKPQELLEWE LVVLGKLKWNLAAVTPHDFIEHILRKLPQQREKLSLIRKHAQTFIALCATDFKFAMYPPSMIATGSVGAA ICGLQQDEEVSSLTCDALTELLAKITNTDVDCLKACQEQIEAVLLNSLQQYRQDQRDGSKSEDELDQAST

PTDVRDIDL

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 001750

RefSeq Size: 6531 RefSeq ORF: 867

Synonyms: KIAK0002; MPPH3

Locus ID: 894





UniProt ID: P30279

Cytogenetics: 12p13.32

Summary: The protein encoded by this gene belongs to the highly conserved cyclin family, whose

members are characterized by a dramatic periodicity in protein abundance through the cell

cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct

expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a complex with CDK4 or CDK6 and functions as a regulatory subunit of the complex, whose activity is required for cell cycle G1/S transition. This protein has been shown to interact with and be involved in the phosphorylation of tumor suppressor protein Rb. Knockout studies of the homologous gene in mouse suggest the essential roles of this gene in ovarian granulosa and germ cell proliferation. High level expression of this gene was observed in ovarian and testicular tumors. Mutations in this gene are associated with megalencephaly-polymicrogyria-polydactyly-hydrocephalus syndrome 3 (MPPH3). [provided

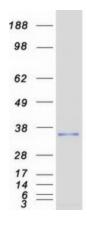
by RefSeq, Sep 2014]

Protein Families: Druggable Genome

Protein Pathways: Cell cycle, Focal adhesion, Jak-STAT signaling pathway, p53 signaling pathway, Wnt signaling

pathway

Product images:



Coomassie blue staining of purified CCND2 protein (Cat# [TP310316]). The protein was produced from HEK293T cells transfected with CCND2 cDNA clone (Cat# [RC210316]) using MegaTran 2.0 (Cat# [TT210002]).