

## Product datasheet for **TP310316L**

### Cyclin D2 (CCND2) (NM\_001759) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human cyclin D2 (CCND2), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC210316 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MELLCHEVDPVRRAVRDRNLLRDDRVLQNLITIEERYLPQCSYFKCVQKDIQPYMRRMVATWMLEVCEEQ  
KCEEEVFPLAMNYLDRFLAGVPTPKSHLQLLGAVCMFLASKLKETSPLTAEKLCIYTDNSIKPQELLEWE  
LVVLGKWKWNLAAVTPHDFIEHILRKLPPQREKLSLIRKHAQTFIALCATDFKFMYPSPMIATGSVGAA  
ICGLQQDEEVSSLTCDALTELLAKITNTDVEDCLKACQEIEAVLLNSLQQYRQDQRDGSKSEDELQAST  
PTDVRDIDL

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	32.9 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:	<u><a href="#">NP_001750</a></u>
Locus ID:	894



[View online »](#)

UniProt ID: [P30279](#)  
RefSeq Size: 6531  
Cytogenetics: 12p13.32  
RefSeq ORF: 867  
Synonyms: KIAK0002; MPPH3

**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]).