

Product datasheet for TL320286

OriGene Technologies, Inc.

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Cyclin D3 (CCND3) Human shRNA Plasmid Kit (Locus ID 896)

Product data:

Product Type: shRNA Plasmids

Product Name: Cyclin D3 (CCND3) Human shRNA Plasmid Kit (Locus ID 896)

Locus ID: 896

Vector: pGFP-C-shLenti (TR30023)

E. coli Selection: Chloramphenicol (34 ug/ml)

Mammalian Cell

Selection:

Puromycin

Format: Lentiviral plasmids

Components: CCND3 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 896).

5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.

RefSeq: NM 001136017, NM 001136125, NM 001136126, NM 001287427, NM 001287434,

NM 001760, NM 001760.1, NM 001760.2, NM 001760.3, NM 001760.4, NM 001136125.1, NM 001136125.2, NM 001136017.1, NM 001136017.2, NM 001136017.3, NM 001136126.1, NM 001136126.2, NM 001287434.1, NM 001287427.1, BC011616, BC011616.2, NM 001760.5

UniProt ID: P30281

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 and functions as a regulatory subunit of CDK4 or CDK6, 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. The

CDK4 activity associated with this cyclin was reported to be necessary for cell cycle

progression through G2 phase into mitosis after UV radiation. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2008]

shRNA Design: These shRNA constructs were designed against multiple splice variants at this gene locus. To

be certain that your variant of interest is targeted, please contact <u>techsupport@origene.com</u>. If you need a special design or shRNA sequence, please utilize our <u>custom shRNA service</u>.





Performance Guaranteed:

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).