

Product datasheet for **TL314037**

Cadherin 16 (CDH16) Human shRNA Plasmid Kit (Locus ID 1014)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Cadherin 16 (CDH16) Human shRNA Plasmid Kit (Locus ID 1014)
Locus ID:	1014
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	CDH16 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 1014). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<u>NM_001204744</u> , <u>NM_001204745</u> , <u>NM_001204746</u> , <u>NM_004062</u> , <u>NM_004062.1</u> , <u>NM_004062.2</u> , <u>NM_004062.3</u> , <u>NM_001204746.1</u> , <u>NM_001204745.1</u> , <u>NM_001204744.1</u> , <u>BC027912</u> , <u>BC027912.2</u> , <u>NM_001204746.2</u> , <u>NM_001204744.2</u> , <u>NM_004062.4</u> , <u>NM_001204745.2</u>
UniProt ID:	<u>O75309</u>
Summary:	This gene is a member of the cadherin superfamily, genes encoding calcium-dependent, membrane-associated glycoproteins. Mapped to a previously identified cluster of cadherin genes on chromosome 16q22.1, the gene localizes with superfamily members CDH1, CDH3, CDH5, CDH8 and CDH11. The protein consists of an extracellular domain containing 6 cadherin domains, a transmembrane region and a truncated cytoplasmic domain but lacks the prosequence and tripeptide HAV adhesion recognition sequence typical of most classical cadherins. Expression is exclusively in kidney, where the protein functions as the principal mediator of homotypic cellular recognition, playing a role in the morphogenic direction of tissue development. Alternatively spliced transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Mar 2011]
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 techsupport@origene.com . If you need a special design or shRNA sequence, please utilize our custom shRNA service .


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**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).