

## Product datasheet for **TL314041**

### cadherin 10 (CDH10) Human shRNA Plasmid Kit (Locus ID 1008)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	cadherin 10 (CDH10) Human shRNA Plasmid Kit (Locus ID 1008)
Locus ID:	1008
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	CDH10 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 1008). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">NM_001190450</a> , <a href="#">NM_001317222</a> , <a href="#">NM_001317224</a> , <a href="#">NM_006727</a> , <a href="#">NM_006727.1</a> , <a href="#">NM_006727.2</a> , <a href="#">NM_006727.3</a> , <a href="#">NM_006727.4</a> , <a href="#">NM_001190450.1</a> , <a href="#">BC144168</a> , <a href="#">BC152828</a> , <a href="#">BC156818</a> , <a href="#">BM126883</a> , <a href="#">BM669374</a> , <a href="#">NM_001362460</a> , <a href="#">NM_006727.5</a>
UniProt ID:	<a href="#">Q9Y6N8</a>
Summary:	This gene encodes a type II classical cadherin of the cadherin superfamily. Alternative splicing of this gene results in multiple transcript variants. At least one of these variants encodes a preproprotein that is proteolytically processed to generate the mature cadherin protein. These integral membrane proteins mediate calcium-dependent cell-cell adhesion and are composed of a large N-terminal extracellular domain, a single membrane-spanning domain, and a small, highly conserved C-terminal cytoplasmic domain. The extracellular domain consists of 5 subdomains, each containing a cadherin motif, and appears to determine the specificity of the protein's homophilic cell adhesion activity. Type II (atypical) cadherins are defined based on their lack of a histidine-alanine-valine (HAV) cell adhesion recognition sequence specific to type I cadherins. This particular cadherin is predominantly expressed in brain and is putatively involved in synaptic adhesions, axon outgrowth and guidance. Mutations in this gene may be associated with lung squamous cell carcinoma and colorectal cancer in human patients. [provided by RefSeq, Nov 2015]



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- 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](mailto:techsupport@origene.com). If you need a special design or shRNA sequence, please utilize our [custom shRNA service](#).
- 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](mailto: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).