

## Product datasheet for **TR314040**

### CDH12 Human shRNA Plasmid Kit (Locus ID 1010)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	CDH12 Human shRNA Plasmid Kit (Locus ID 1010)
Locus ID:	1010
Synonyms:	CDHB
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	CDH12 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 1010). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001317227</a> , <a href="#">NM_001317228</a> , <a href="#">NM_004061</a> , <a href="#">NM_004061.1</a> , <a href="#">NM_004061.2</a> , <a href="#">NM_004061.3</a> , <a href="#">NM_004061.4</a> , <a href="#">BC047608</a> , <a href="#">BC047608.1</a> , <a href="#">NM_001364105</a> , <a href="#">NM_001364106</a> , <a href="#">NM_001364109</a> , <a href="#">NM_001364104</a> , <a href="#">NM_001364107</a> , <a href="#">NM_001364108</a> , <a href="#">NM_004061.5</a>
UniProt ID:	<a href="#">P55289</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. 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 appears to be expressed specifically in the brain and its temporal pattern of expression would be consistent with a role during a critical period of neuronal development, perhaps specifically during synaptogenesis. [provided by RefSeq, Nov 2015]
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 <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .



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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](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).