

## Product datasheet for **TL310130**

### Cytohesin 2 (CYTH2) Human shRNA Plasmid Kit (Locus ID 9266)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Cytohesin 2 (CYTH2) Human shRNA Plasmid Kit (Locus ID 9266)
Locus ID:	9266
Synonyms:	ARNO; CTS18; CTS18.1; cytohesin-2; PSCD2; PSCD2L; SEC7L; Sec7p-L; Sec7p-like
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	CYTH2 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 9266). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">NM_004228</a> , <a href="#">NM_017457</a> , <a href="#">NM_004228.1</a> , <a href="#">NM_004228.2</a> , <a href="#">NM_004228.3</a> , <a href="#">NM_004228.4</a> , <a href="#">NM_004228.5</a> , <a href="#">NM_004228.6</a> , <a href="#">NM_017457.1</a> , <a href="#">NM_017457.2</a> , <a href="#">NM_017457.3</a> , <a href="#">NM_017457.4</a> , <a href="#">NM_017457.5</a> , <a href="#">BC038713</a> , <a href="#">BC038713.1</a> , <a href="#">BC004361</a> , <a href="#">BC012771</a> , <a href="#">BC035646</a> , <a href="#">BC036615</a> , <a href="#">BC042153</a> , <a href="#">BC047631</a> , <a href="#">NM_004228.7</a>
UniProt ID:	<a href="#">Q99418</a>
Summary:	The protein encoded by this gene is a member of the PSCD family. Members of this family have identical structural organization that consists of an N-terminal coiled-coil motif, a central Sec7 domain, and a C-terminal pleckstrin homology (PH) domain. The coiled-coil motif is involved in homodimerization, the Sec7 domain contains guanine-nucleotide exchange protein (GEP) activity, and the PH domain interacts with phospholipids and is responsible for association of PSCDs with membranes. Members of this family appear to mediate the regulation of protein sorting and membrane trafficking. The encoded protein exhibits GEP activity in vitro with ARF1, ARF3, and ARF6 and is 83% homologous to CYTH1. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 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 <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).