

## Product datasheet for **TR310392**

### Plakophilin 4 (PKP4) Human shRNA Plasmid Kit (Locus ID 8502)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Plakophilin 4 (PKP4) Human shRNA Plasmid Kit (Locus ID 8502)
Locus ID:	8502
Synonyms:	p0071
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	PKP4 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 8502). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001005476</a> , <a href="#">NM_001304969</a> , <a href="#">NM_001304970</a> , <a href="#">NM_001304971</a> , <a href="#">NM_003628</a> , <a href="#">NM_001005476.1</a> , <a href="#">NM_001005476.2</a> , <a href="#">NM_003628.2</a> , <a href="#">NM_003628.3</a> , <a href="#">NM_003628.4</a> , <a href="#">BC050308</a> , <a href="#">BC050308.1</a> , <a href="#">BC034473</a> , <a href="#">BC041163</a> , <a href="#">BC048013</a> , <a href="#">NM_003628.6</a> , <a href="#">NM_001005476.4</a>
UniProt ID:	<a href="#">Q99569</a>
Summary:	Armadillo-like proteins are characterized by a series of armadillo repeats, first defined in the Drosophila 'armadillo' gene product, that are typically 42 to 45 amino acids in length. These proteins can be divided into subfamilies based on their number of repeats, their overall sequence similarity, and the dispersion of the repeats throughout their sequences. Members of the p120(ctn)/plakophilin subfamily of Armadillo-like proteins, including CTNND1, CTNND2, PKP1, PKP2, PKP4, and ARVCF. PKP4 may be a component of desmosomal plaque and other adhesion plaques and is thought to be involved in regulating junctional plaque organization and cadherin function. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 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).