

## Product datasheet for **TR510549**

### Pard3 Mouse shRNA Plasmid (Locus ID 93742)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Pard3 Mouse shRNA Plasmid (Locus ID 93742)
Locus ID:	93742
Synonyms:	AA960621; AI256638; Asip; D8Ertd580e; Par-3; Par3; Pard-3; Pard3a; Phip
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Pard3 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 93742). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">BC090616</a> , <a href="#">NM_001013580</a> , <a href="#">NM_001013581</a> , <a href="#">NM_001122850</a> , <a href="#">NM_001309391</a> , <a href="#">NM_001309392</a> , <a href="#">NM_033620</a> , <a href="#">NM_001013580.1</a> , <a href="#">NM_001013580.2</a> , <a href="#">NM_001013580.3</a> , <a href="#">NM_033620.1</a> , <a href="#">NM_033620.2</a> , <a href="#">NM_001122850.1</a> , <a href="#">NM_001013581.1</a> , <a href="#">NM_001013581.2</a> , <a href="#">BC023413</a> , <a href="#">BC030315</a> , <a href="#">BC037126</a> , <a href="#">BC141187</a> , <a href="#">BC145508</a> , <a href="#">NM_001363431</a> , <a href="#">NM_001363432</a> , <a href="#">NM_001013581.3</a> , <a href="#">NM_001013580.4</a> , <a href="#">NM_001122850.2</a>
UniProt ID:	<a href="#">Q99NH2</a>
Summary:	Adapter protein involved in asymmetrical cell division and cell polarization processes (By similarity). Seems to play a central role in the formation of epithelial tight junctions (By similarity). Targets the phosphatase PTEN to cell junctions (By similarity). Association with PARD6B may prevent the interaction of PARD3 with F11R/JAM1, thereby preventing tight junction assembly (PubMed:11839275). The PARD6-PARD3 complex links GTP-bound Rho small GTPases to atypical protein kinase C proteins (By similarity). Required for establishment of neuronal polarity and normal axon formation in cultured hippocampal neurons (By similarity). Involved in Schwann cell peripheral myelination (PubMed:21949390). [UniProtKB/Swiss-Prot Function]
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).