

Product datasheet for **TR706565**

Pnpla8 Rat shRNA Plasmid (Locus ID 314075)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Pnpla8 Rat shRNA Plasmid (Locus ID 314075)
Locus ID:	314075
Synonyms:	RGD1311444
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Pnpla8 - Rat, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 314075). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001108020
Summary:	Calcium-independent phospholipase A2, which promotes cellular membrane hydrolysis and prostaglandin production. Catalyzes the hydrolysis of the sn-2 position of glycerophospholipids, phosphatidylserine and to a lower extent phosphatidylcholine. Cleaves membrane phospholipids. Participates in the generation of lipid second messengers through the mobilization of arachidonic acid in response to cellular stimuli. Synthesizes 2-arachidonoyl lysophosphatidylcholine, a key branch point metabolite in eicosanoid signaling. Participates in the lipid plasticity of myocardium, plays a role in the generation of signaling metabolites and has a prominent effect on the modulation of energy storage and utilization (By similarity). Essential for maintaining efficient bioenergetic mitochondrial function through tailoring mitochondrial membrane lipid metabolism and composition (By similarity). [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 techsupport@origene.com . If you need a special design or shRNA sequence, please utilize our custom shRNA service .



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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. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).