

## Product datasheet for **TF512624**

### **Pnpla2 Mouse shRNA Plasmid (Locus ID 66853)**

#### **Product data:**

Product Type:	shRNA Plasmids
Product Name:	Pnpla2 Mouse shRNA Plasmid (Locus ID 66853)
Locus ID:	66853
Synonyms:	0610039C21Rik; 1110001C14Rik; Atgl; TTS-2.2
Vector:	pRFP-C-RS (TR30014)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Pnpla2 - Mouse, 4 unique 29mer shRNA constructs in retroviral RFP vector(Gene ID = 66853). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRFP-C-RS Vector, TR30015, included for free.
RefSeq:	<a href="#">BC019188</a> , <a href="#">BC044781</a> , <a href="#">BC064747</a> , <a href="#">NM_001163689</a> , <a href="#">NM_025802</a> , <a href="#">NR_028142</a> , <a href="#">NM_001163689.1</a> , <a href="#">NM_025802.1</a> , <a href="#">NM_025802.2</a> , <a href="#">NM_025802.3</a> , <a href="#">BC019188.1</a> , <a href="#">BC026807</a> , <a href="#">BC034190</a> , <a href="#">BC044737</a> , <a href="#">BC054825</a>
UniProt ID:	<a href="#">Q8BJ56</a>
Summary:	Catalyzes the initial step in triglyceride hydrolysis in adipocyte and non-adipocyte lipid droplets (PubMed:15550674). Also has acylglycerol transacylase activity. May act coordinately with LIPE/HLS within the lipolytic cascade. Regulates adiposome size and may be involved in the degradation of adiposomes. May play an important role in energy homeostasis. May play a role in the response of the organism to starvation, enhancing hydrolysis of triglycerides and providing free fatty acids to other tissues to be oxidized in situations of energy depletion. [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).