

## Product datasheet for **TR518175**

### Cartpt Mouse shRNA Plasmid (Locus ID 27220)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Cartpt Mouse shRNA Plasmid (Locus ID 27220)
Locus ID:	27220
Synonyms:	Ca; Cart
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Cartpt - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 27220). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">BC056431</a> , <a href="#">NM_001081493</a> , <a href="#">NM_013732</a> , <a href="#">NM_001081493.1</a> , <a href="#">NM_001081493.2</a> , <a href="#">NM_013732.1</a> , <a href="#">NM_013732.2</a> , <a href="#">NM_013732.3</a> , <a href="#">NM_013732.4</a> , <a href="#">NM_013732.5</a> , <a href="#">NM_013732.6</a> , <a href="#">NM_013732.7</a>
UniProt ID:	<a href="#">P56388</a>
Summary:	This gene encodes preproprotein isoforms that are processed into multiple biologically active peptides. Expression of this gene is regulated by cocaine and other drugs, and is associated with feeding/appetite and stress response. Mice lacking the encoded protein are predisposed to obesity. Deficiency of the encoded protein in mice results in pancreatic islet dysfunction, impaired insulin secretion and glucose intolerance. Alternative splicing results in multiple transcript variants encoding different isoforms, which are subsequently processed into mature peptides. [provided by RefSeq, Jul 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).