

Product datasheet for TR712455

Cacng8 Rat shRNA Plasmid (Locus ID 140729)

Product data:

Product Type: shRNA Plasmids

Product Name: Cacng8 Rat shRNA Plasmid (Locus ID 140729)

Locus ID: 140729

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell Puromycin

Selection:

Format: Retroviral plasmids

Components: Cacng8 - Rat, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID =

140729). 5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.

RefSeq: <u>NM 080696, NM 080696.1, NM 080696.2</u>

UniProt ID: Q8VHW5

Summary: Voltage-dependent calcium channels couple membrane depolarization in a number of

cellular processes. These activities are regulated by distinct channels composed of the pore-forming alpha-1 subunit and the modulatory beta, alpha-2/delta and gamma subunits. The protein encoded by this gene represents one of the gamma subunits. It is an integral membrane protein that is thought to stabilize the calcium channel in an inactive (closed) state. This gene is located in a cluster with two similar gamma subunit-encoding genes on chromosome 1. The mRNA for this gene is believed to initiate translation from a non-AUG

(CUG) start codon. [provided by RefSeq, Jul 2008]

shRNA Design: These shRNA constructs were designed against multiple splice variants at this gene locus. To

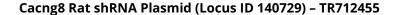
be certain that your variant of interest is targeted, please contact <u>techsupport@origene.com</u>. If you need a special design or shRNA sequence, please utilize our custom shRNA service.



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com





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).