

## Product datasheet for **TR501959**

### Ryr1 Mouse shRNA Plasmid (Locus ID 20190)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Ryr1 Mouse shRNA Plasmid (Locus ID 20190)
Locus ID:	20190
Synonyms:	AI528790; Ryr; RYR-1; skrr
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Ryr1 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 20190). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_009109</a> , <a href="#">BC025202</a> , <a href="#">BC051248</a> , <a href="#">BC055487</a>
Summary:	Calcium channel that mediates the release of Ca(2+) from the sarcoplasmic reticulum into the cytoplasm and thereby plays a key role in triggering muscle contraction following depolarization of T-tubules (PubMed:18003898, PubMed:7515481, PubMed:7621815, PubMed:21156754). Repeated very high-level exercise increases the open probability of the channel and leads to Ca(2+) leaking into the cytoplasm (PubMed:18268335). Can also mediate the release of Ca(2+) from intracellular stores in neurons, and may thereby promote prolonged Ca(2+) signaling in the brain (PubMed:22036948). Required for normal embryonic development of muscle fibers and skeletal muscle (PubMed:7515481). Required for normal heart morphogenesis, skin development and ossification during embryogenesis (PubMed:18003898, PubMed:7515481).[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).