

## Product datasheet for **TR511615**

### Edn3 Mouse shRNA Plasmid (Locus ID 13616)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Edn3 Mouse shRNA Plasmid (Locus ID 13616)
Locus ID:	13616
Synonyms:	ET-3; Is; PPET3; tmgc48
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Edn3 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 13616). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_007903</a> , <a href="#">NM_007903.1</a> , <a href="#">NM_007903.2</a> , <a href="#">NM_007903.3</a> , <a href="#">NM_007903.4</a> , <a href="#">NM_007903.5</a> , <a href="#">BC137727</a> , <a href="#">BC137730</a>
UniProt ID:	<a href="#">P48299</a>
Summary:	This gene is a member of the endothelin family whose members encode proteins that act on G protein-coupled receptors. Endothelins are produced as large prepropolypeptide precursors that undergo a first cleavage by a subtilisin serine protease to form an inactive intermediate, which in turn is cleaved again by endothelin-converting enzyme 1 (ECE-1) to yield the active 21 amino acid peptide. This gene encodes a protein which is expressed in neural crest cells (NCC), binds to endothelin receptor b (Ednrb) and plays an essential role in the development of NCC-derived cell lineages including melanocytes and enteric neurons. Mutations in this gene are associated with terminal aganglionosis and white spotted coat in mice and Hirschsprung's disease and Waardenburg syndrome in humans. [provided by RefSeq, Apr 2013]
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).