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Product datasheet for TR501580

Pax6 Mouse shRNA Plasmid (Locus ID 18508)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Pax6 Mouse shRNA Plasmid (Locus ID 18508)
Locus ID:	18508
Synonyms:	1500038E17Rik; AEY1; AEY11; Dey; Gsfaey; Gsfaey11; Pax; Pax-6; Sey
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Pax6 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 18508). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC011272, BC036957, NM_001244198, NM_001244200, NM_001244201, NM_001244202, NM_013627, NM_013627.1, NM_013627.2, NM_013627.3, NM_013627.4, NM_013627.5, NM_013627.6, NM_001244201.1, NM_001244201.2, NM_001244202.1, NM_001244202.2, NM_001244198.1, NM_001244198.2, NM_001244200.1, NM_001244200.2, BC069912
UniProt ID:	P63015
Summary:	This gene encodes a homeobox-containing protein that functions as a regulator of transcription. It plays a key role in the development of neural tissues, particularly the eye. Activity of this protein is also required for expression of glucagon in the pancreas. This gene is regulated by multiple enhancers located up to tens or hundreds of kilobases upstream and downstream of the transcription start sites. Mutations in this gene or deletion of these regulatory elements results in severe defects in eye development. Alternative splicing and the use of alternative promoters results in multiple transcript variants, some of which encode proteins that lack the N-terminal paired domain. [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 techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.

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).