

## Product datasheet for **TR506586**

### Rarb Mouse shRNA Plasmid (Locus ID 218772)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Rarb Mouse shRNA Plasmid (Locus ID 218772)
Locus ID:	218772
Synonyms:	A830025K23; Hap; Nr1b2
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Rarb - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 218772). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">BC076597</a> , <a href="#">NM_001289760</a> , <a href="#">NM_001289761</a> , <a href="#">NM_001289762</a> , <a href="#">NM_011243</a> , <a href="#">NM_011243.1</a> , <a href="#">NM_011243.2</a> , <a href="#">NM_001289762.1</a> , <a href="#">NM_001289761.1</a> , <a href="#">NM_001289760.1</a>
UniProt ID:	<a href="#">P22605</a>
Summary:	Receptor for retinoic acid. Retinoic acid receptors bind as heterodimers to their target response elements in response to their ligands, all-trans or 9-cis retinoic acid, and regulate gene expression in various biological processes. The RAR/RXR heterodimers bind to the retinoic acid response elements (RARE) composed of tandem 5'-AGGTCA-3' sites known as DR1-DR5. In the absence of ligand, acts mainly as an activator of gene expression due to weak binding to corepressors (By similarity). The RXRA/RARB heterodimer can act as a repressor on the DR1 element and as an activator on the DR5 element (By similarity). In concert with RARG, required for skeletal growth, matrix homeostasis and growth plate function (PubMed:19389355).[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).