

## Product datasheet for **TG320506**

### Retinoic Acid Receptor beta (RARβ) Human shRNA Plasmid Kit (Locus ID 5915)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Retinoic Acid Receptor beta (RARβ) Human shRNA Plasmid Kit (Locus ID 5915)
Locus ID:	5915
Synonyms:	HAP; MCOPS12; NR1B2; RARbeta1; RRB2
Vector:	pGFP-V-RS (TR30007)
E. coli Selection:	Kanamycin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	RARB - Human, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 5915). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-V-RS Vector, TR30013, included for free.
RefSeq:	<a href="#">NM_000965</a> , <a href="#">NM_001290216</a> , <a href="#">NM_001290217</a> , <a href="#">NM_001290266</a> , <a href="#">NM_001290276</a> , <a href="#">NM_001290277</a> , <a href="#">NM_001290300</a> , <a href="#">NM_016152</a> , <a href="#">NR_110892</a> , <a href="#">NR_110893</a> , <a href="#">NM_016152.1</a> , <a href="#">NM_000965.1</a> , <a href="#">NM_000965.2</a> , <a href="#">NM_000965.3</a> , <a href="#">NM_000965.4</a> , <a href="#">NM_001290217.1</a> , <a href="#">NM_001290276.1</a> , <a href="#">NM_001290266.1</a> , <a href="#">NM_001290277.1</a> , <a href="#">NM_001290300.1</a> , <a href="#">NM_001290216.1</a> , <a href="#">NM_001290216.2</a> , <a href="#">BC060794</a> , <a href="#">BC060794.1</a> , <a href="#">BC030234</a> , <a href="#">BC050415</a> , <a href="#">BC069735</a> , <a href="#">NM_000965.5</a>
UniProt ID:	<a href="#">P10826</a>
Summary:	This gene encodes retinoic acid receptor beta, a member of the thyroid-steroid hormone receptor superfamily of nuclear transcriptional regulators. This receptor localizes to the cytoplasm and to subnuclear compartments. It binds retinoic acid, the biologically active form of vitamin A which mediates cellular signalling in embryonic morphogenesis, cell growth and differentiation. It is thought that this protein limits growth of many cell types by regulating gene expression. The gene was first identified in a hepatocellular carcinoma where it flanks a hepatitis B virus integration site. Alternate promoter usage and differential splicing result in multiple transcript variants. [provided by RefSeq, Mar 2014]
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> .



[View online »](#)

**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).