

Product datasheet for **TR320551**

Thyroid Hormone Receptor beta (THRB) Human shRNA Plasmid Kit (Locus ID 7068)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Thyroid Hormone Receptor beta (THRB) Human shRNA Plasmid Kit (Locus ID 7068)
Locus ID:	7068
Synonyms:	C-ERBA-2; C-ERBA-BETA; ERBA2; GRTH; NR1A2; PRTH; THR1; THRB1; THRB2; TRbeta
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	THRB - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 7068). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<u>NM_000461</u> , <u>NM_001128176</u> , <u>NM_001128177</u> , <u>NM_001252634</u> , <u>NM_001354708</u> , <u>NM_001354709</u> , <u>NM_001354710</u> , <u>NM_001354711</u> , <u>NM_001354712</u> , <u>NM_001354713</u> , <u>NM_001354714</u> , <u>NM_001354715</u> , <u>NM_000461.1</u> , <u>NM_000461.2</u> , <u>NM_000461.3</u> , <u>NM_000461.4</u> , <u>NM_001128176.1</u> , <u>NM_001128176.2</u> , <u>NM_001128177.1</u> , <u>NM_001252634.1</u> , <u>BC106929</u> , <u>BC028910</u> , <u>BC106930</u> , <u>NM_001128177.2</u> , <u>NM_000461.5</u> , <u>NM_001252634.2</u> , <u>NM_001128176.3</u>
UniProt ID:	<u>P10828</u>
Summary:	The protein encoded by this gene is a nuclear hormone receptor for triiodothyronine. It is one of the several receptors for thyroid hormone, and has been shown to mediate the biological activities of thyroid hormone. Knockout studies in mice suggest that the different receptors, while having certain extent of redundancy, may mediate different functions of thyroid hormone. Mutations in this gene are known to be a cause of generalized thyroid hormone resistance (GTHR), a syndrome characterized by goiter and high levels of circulating thyroid hormone (T3-T4), with normal or slightly elevated thyroid stimulating hormone (TSH). Several alternatively spliced transcript variants encoding the same protein have been observed for this gene. [provided by RefSeq, Jul 2008]
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 .



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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. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).