

Product datasheet for TR308857

OriGene Technologies, Inc.

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Thyroglobulin (TG) Human shRNA Plasmid Kit (Locus ID 7038)

Product data:

Product Type: shRNA Plasmids

Product Name: Thyroglobulin (TG) Human shRNA Plasmid Kit (Locus ID 7038)

Locus ID: 7038

Synonyms: AITD3; TGN

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell Puromycin

Selection:

Format: Retroviral plasmids

Components: TG - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 7038).

5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.

RefSeq: NM 003235, NM 003235.1, NM 003235.2, NM 003235.3, NM 003235.4, BC127887, BC140933,

NM 003235.5

UniProt ID: P01266

Summary: Thyroglobulin (Tg) is a glycoprotein homodimer produced predominantly by the thryroid

gland. It acts as a substrate for the synthesis of thyroxine and triiodothyronine as well as the storage of the inactive forms of thyroid hormone and iodine. Thyroglobulin is secreted from the endoplasmic reticulum to its site of iodination, and subsequent thyroxine biosynthesis, in the follicular lumen. Mutations in this gene cause thyroid dyshormonogenesis, manifested as

goiter, and are associated with moderate to severe congenital hypothyroidism.

Polymorphisms in this gene are associated with susceptibility to autoimmune thyroid diseases (AITD) such as Graves disease and Hashimoto thryoiditis. [provided by RefSeq, Nov

20091

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).