

Product datasheet for TL312582

OriGene Technologies, Inc.

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Glutathione S Transferase theta 1 (GSTT1) Human shRNA Plasmid Kit (Locus ID 2952)

Product data:

Product Type: shRNA Plasmids

Product Name: Glutathione S Transferase theta 1 (GSTT1) Human shRNA Plasmid Kit (Locus ID 2952)

Locus ID: 2952

Vector: pGFP-C-shLenti (TR30023)

E. coli Selection: Chloramphenicol (34 ug/ml)

Mammalian Cell

Selection:

Puromycin

Format: Lentiviral plasmids

Components: GSTT1 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 2952).

5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.

RefSeq: NM 000853, NM 001293807, NM 001293808, NM 001293809, NM 001293810,

NM 001293811, NM 001293812, NM 001293813, NM 001293814, NM 000853.1, NM 000853.2, NM 000853.3, NM 001293814.1, NM 001293813.1, NM 001293808.1, NM 001293809.1, NM 001293811.1, NM 001293812.1, BC007065, BC007065.1, BC064833,

BM765626

UniProt ID: P30711

Summary: The protein encoded by this gene, glutathione S-transferase (GST) theta 1 (GSTT1), is a

member of a superfamily of proteins that catalyze the conjugation of reduced glutathione to a variety of electrophilic and hydrophobic compounds. Human GSTs can be divided into five main classes: alpha, mu, pi, theta, and zeta. The theta class includes GSTT1, GSTT2, and GSTT2B. GSTT1 and GSTT2/GSTT2B share 55% amino acid sequence identity and may play a role in human carcinogenesis. The GSTT1 gene is haplotype-specific and is absent from 38% of the population. Alternative splicing of this gene results in multiple transcript variants.

[provided by RefSeq, Sep 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 <u>techsupport@origene.com</u>. If you need a special design or shRNA sequence, please utilize our <u>custom shRNA service</u>.





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).