

Product datasheet for TG301882

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OriGene Technologies, Inc.

RTEL1 Human shRNA Plasmid Kit (Locus ID 51750)

Product data:

Product Type: shRNA Plasmids

Product Name: RTEL1 Human shRNA Plasmid Kit (Locus ID 51750)

Locus ID: 51750

Synonyms: C20orf41; DKCA4; DKCB5; NHL; PFBMFT3; RTEL

Vector: pGFP-V-RS (TR30007)

E. coli Selection: Kanamycin

Mammalian Cell Puromycin

Selection:

Format: Retroviral plasmids

Components: RTEL1 - Human, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 51750).

5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pGFP-V-RS Vector, TR30013, included for free.

RefSeq: NM 001283009, NM 001283010, NM 016434, NM 032957, NM 016434.2, NM 016434.3,

NM 032957.2, NM 032957.3, NM 032957.4, NM 001283010.1, NM 001283009.1,

NM 001283009.2, NM 016434.4

UniProt ID: Q9NZ71

Summary: This gene encodes a DNA helicase which functions in the stability, protection and elongation

of telomeres and interacts with proteins in the shelterin complex known to protect telomeres

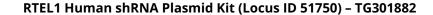
during DNA replication. Mutations in this gene have been associated with dyskeratosis congenita and Hoyerall-Hreidarsson syndrome. Read-through transcription of this gene into

the neighboring downstream gene, which encodes tumor necrosis factor receptor

superfamily, member 6b, generates a non-coding transcript. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2013]

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).