

## Product datasheet for **TR301882**

### **RTEL1 Human shRNA Plasmid Kit (Locus ID 51750)**

#### **Product data:**

<b>Product Type:</b>	shRNA Plasmids
<b>Product Name:</b>	RTEL1 Human shRNA Plasmid Kit (Locus ID 51750)
<b>Locus ID:</b>	51750
<b>Synonyms:</b>	C20orf41; DKCA4; DKCB5; NHL; PFBMFT3; RTEL
<b>Vector:</b>	pRS (TR20003)
<b>E. coli Selection:</b>	Ampicillin
<b>Mammalian Cell Selection:</b>	Puromycin
<b>Format:</b>	Retroviral plasmids
<b>Components:</b>	RTEL1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 51750). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
<b>RefSeq:</b>	<a href="#">NM_001283009</a> , <a href="#">NM_001283010</a> , <a href="#">NM_016434</a> , <a href="#">NM_032957</a> , <a href="#">NM_016434.2</a> , <a href="#">NM_016434.3</a> , <a href="#">NM_032957.2</a> , <a href="#">NM_032957.3</a> , <a href="#">NM_032957.4</a> , <a href="#">NM_001283010.1</a> , <a href="#">NM_001283009.1</a> , <a href="#">NM_001283009.2</a> , <a href="#">NM_016434.4</a>
<b>UniProt ID:</b>	<a href="#">Q9NZ71</a>
<b>Summary:</b>	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]
<b>shRNA Design:</b>	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> .



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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](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).