

## Product datasheet for **RC214507L3V**

### **RTEL1 (NM\_016434) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	RTEL1 (NM_016434) Human Tagged ORF Clone Lentiviral Particle
Symbol:	RTEL1
Synonyms:	C20orf41; DKCA4; DKCB5; NHL; PFBMFT3; RTEL
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_016434
ORF Size:	3657 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC214507).
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_016434.3</a>
RefSeq Size:	4970 bp
RefSeq ORF:	3660 bp
Locus ID:	51750
UniProt ID:	<a href="#">Q9NZ71</a>
Cytogenetics:	20q13.33
Protein Families:	Druggable Genome
MW:	133.7 kDa



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**Gene 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]