

Product datasheet for **SC337757**

RTEL1 (NM_001283010) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RTEL1 (NM_001283010) Human Untagged Clone
Tag:	Tag Free
Symbol:	RTEL1
Synonyms:	C20orf41; DKCA4; DKCB5; NHL; PFBMFT3; RTEL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001283010, the custom clone sequence may differ by one or more nucleotides

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ATGCCGTACAATTACTTGTGGATGCCAAGAGCCGCAGAGCACACAACATTGACCTGAAGGGGACAGTCCG
TGATCTTTGACGAAGCTCACAACGTGGAGAAGATGTGTGAAGAATCGGCATCCTTTGACCTGACTCCCA
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GATCTCGTCTTCTTAGACAGAGGCCAGCAGGGACTGTGGGGGGGGCGGTGAGGATGCAGGTCCCAGC
CAGTCTCAGGACCTCCCACGGCCCTGCAGCATCTGAGTGGGGCTCTAG
    
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Restriction Sites: SgfI-MluI
ACCN: NM_001283010

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001283010.1 , NP_001269939.1
RefSeq Size:	4691 bp
RefSeq ORF:	2991 bp
Locus ID:	51750
UniProt ID:	Q9NZ71
Cytogenetics:	20q13.33
Protein Families:	Druggable Genome
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR and has multiple coding region differences, compared to variant 3. These differences include translation initiation at a downstream AUG and a translational frameshift. The resulting protein (isoform 4) has a shorter N-terminus and distinct C-terminus, compared to isoform 3.</p>