

Datasheet for ABIN7563626  
**RTEL1 Protein (AA 1-1203) (His tag)**



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## Overview

Quantity:	1 mg
Target:	RTEL1
Protein Characteristics:	AA 1-1203
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RTEL1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Rtel1 Protein expressed in mammalian cells.
Sequence:	<p>MPRVVLNGVT VDFPFQPYPC QQEYMTKVLE CLQKKVNGIL ESPTGTGKTL CLLCSTLAWQ QHLRDAVSSL KIAERVQGEL FASRTLSSWG SAAAASGDSI ECYTDIPKII YASRTHSQLT QVIRELRNTA YRPKVCVLGS REQLCIHPEV KKQESNHMQI SLCRKKVASR SCHFYNNVEA KFLEQDLATP ILDIEDLVKN GSKQKMCPYY LSRNMKQQAD IIFMPYNYLL DAKSRKAHSI DLKGTVVIFD EAHNVEKICE ESASFDLTPR DVASGLEIIN QVLEEQRVVT QQGELQQEFI VDTSSSGLNM ELEDIAKLM ILLRLEEAI AVQLPGDDR VTKPGSYIFE LFAEAQITFQ TKGCILESLD QIIQHLAGRT GVFTNTAGLQ KLMDIIQIVF SVDPPEGSPG SLVGLGISHS YKVHIHPETS HRRAAKRSDA WSTTASRKQG KVLSYWCFSQ SQSMRELVCQ GVRTLILTSG TLAPLSSFAL EMQIPFPVCL ENPHIIDKNQ LWVGIVPRGP DGVQLSSAYD KRFSEECCLSS LGKALSNIAR VVPHGLLVFF PSYPVMEKSL EFWQVQGLAR KVEALKPLFV EPRNKGFSFE VIDAYYQVA SPASNGATFL AVCRCGKASEG LDFSDMNDRG VIVTGLPYPP RMDPRVWLKM QFLDEMGRS GVGQCLSGQ EWYQQQASRA VNQAIGRVIR HRHDYGAIFL CDHRFAYADA</p>

## Product Details

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RAQLPSWVRP YLKVYDNFGH VIRDVAQFFR VAQKTMLPV PQAVTSSVSE GEIALKDATL  
SSYSLSTRKA MSLDVHVPSL RQKPIGLPAA GDESSLCEG YEQQTFSAAQ RPMGLLALE  
YNEQKAGASE EQALGSSTPS LRCEKRLSTE QKGGRRKKVRL VNHPEEPMAG TQAGRAKMF  
VAVKQALSQA NFDFTFTQALQ HYKSSDDFEA LVASLTCLFA EDPKKHTLLK GFYQFVRPHH  
KQQFEDICFQ LTGQRRCGYQP GKRELESKLT LSEGVDRLD PGQHLNQQQP HLSAHPTSKG  
HTSHCTKVGC AVEKPGQPAV SDYLSDVHKA LGSASCNQLT AALRAYKQDD DLDKVVAVVA  
ALTTAKPEHL PLLQRFGMFV RRHHKPQFLQ TCADLMGLPT TGKDLELEGP RDESPTVPPE  
LTHEDLKPGP SMSKKPEKTQ SKISSFFRQR PDESVRSDDT TPKPMLPPR LPHELMKPHR SKQ

**Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

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Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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Grade: custom-made

## Target Details

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Target: RTEL1

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Alternative Name: Rtel1 ([RTEL1 Products](#))

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## Target Details

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**Background:** Regulator of telomere elongation helicase 1 (EC 3.6.4.12),FUNCTION: ATP-dependent DNA helicase implicated in telomere-length regulation, DNA repair and the maintenance of genomic stability. Acts as an anti-recombinase to counteract toxic recombination and limit crossover during meiosis. Regulates meiotic recombination and crossover homeostasis by physically dissociating strand invasion events and thereby promotes noncrossover repair by meiotic synthesis dependent strand annealing (SDSA) as well as disassembly of D loop recombination intermediates. Also disassembles T loops and prevents telomere fragility by counteracting telomeric G4-DNA structures, which together ensure the dynamics and stability of the telomere. {ECO:0000255|HAMAP-Rule:MF\_03065, ECO:0000269|PubMed:15210109, ECO:0000269|PubMed:22579284, ECO:0000269|PubMed:22593209, ECO:0000269|PubMed:24115439}.

**Molecular Weight:** 133.8 kDa

**UniProt:** [Q0VGM9](#)

## Application Details

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**Application Notes:** We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

**Buffer:** The buffer composition is at the discretion of the manufacturer.

**Handling Advice:** Avoid repeated freeze-thaw cycles.

**Storage:** -80 °C

**Storage Comment:** Store at -80°C.

**Expiry Date:** 12 months