

Datasheet for ABIN7555338
RTEL1 Protein (AA 1-1219) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	RTEL1
Protein Characteristics:	AA 1-1219
Origin:	Human
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:	MPKIVLNGVT VDFPFQPYKC QQEYMTKVL E CLQKQVNGIL ESPTGTGKTL CLLCTTLAWR EHLRDGISAR KIAERAQGEL FPDRLSSWG NAAAAAGDPI ACYTDIPKII YASRTHSQLT QVINELRNTS YRPKVCVLGS REQLCIHPEV KKQESNHLQI HLCRKKVASR SCHFYNNVEE KSLEQELASP ILDIEDLVKS GSKHRVCPYY LSRNLKQQAD IIFMPYNYLL DAKSRRAHNI DLKGTVVIFD EAHNVEKMCE ESASFDLTPH DLASGLDVID QVLEEQTCAA QGEPHPEFS ADSPSPGLNM ELEDIAKLKM ILLRLEGAID AVELPGDDSG VTKPGSYIFE LFAEAQITFQ TKGCILDSLD QIIQHLAGRA GVFTNTAGLQ KLADIIQIVF SVDPSEGSPP SPAGLGALQS YKVHIHPDAG HRRTAQRSDA WSTTAARKRG KVLSYWCFSP GHSMHELVRQ GVRSLILTSG TLAPVSSFAL EMQIPFPVCL ENPHIIDKHQ IWWGVVPRGP DGAQLSSAFD RRFSEEC LSS LGKALGNIAR VVPYGLLIFF PSYPVMEKSL EFWRARDLAR KMEALKPLFV EPRSKGSFSE TISAYYARVA APGSTGATFL AVCRGKASEG LDFSDTNTRG VIVTGLPYPP RMDPRVVLKM QFLDEMGQG GAGGQFLSGQ EWYRQQASRA VNQAIGRVIR HRQDYGAVFL CDHRFAFADA

Product Details

RAQLPSWVRP HVRVYDNFGH VIRDAQFFR VAERTMPAPA PRATAPSVRG EDAVSEAKSP
GPFSTRKAK SLDLHVPSLK QRSSGSPAAG DPSSLCEVEY EQEPVPARQR PRGLLALEH
SEQRAGSPGE EQAHSCSTLS LLSEKRPAEE PRGGRKKIRL VSHPEEPVAG AQTDRAKLFM
VAVKQELSQA NFATFTQALQ DYKGSDDFAA LAACLGPLFA EDPKKHLLQ GFYQFVRPHH
KQQFEEVCIQ LTGRGCGYRP EHSIPRRQRA QPVLDPGTGRT APDPKLTVST AAAQQLDPQE
HLNQGRPHLS PRPPPTGDPG SQPQWGSQV RAGKQGQHAV SAYLADARRA LGSAGCSQLL
AALTAYKQDD DLDKVLAVLA ALTTAKPEDF PLLHRFSMFV RPHHKQRFSSQ TCTDLTGRPY
PGMEPPGPQE ERLAVPPVLT HRAPQGPSR SEKTGKTQSK ISSFLRQRPA GTVGAGGEDA
GPSQSSGPPH GPAASEWGL **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.**

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.

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.

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

Grade: custom-made

Target Details

Target: RTEL1

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

Target Details

Background: Regulator of telomere elongation helicase 1 (EC 3.6.4.12) (Novel helicase-like),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:18957201, ECO:0000269|PubMed:23453664, ECO:0000269|PubMed:24009516}.

Molecular Weight: 133.7 kDa

UniProt: [Q9NZ71](#)

Application Details

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

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