

Datasheet for ABIN7561946  
**RTF1 Protein (AA 1-715) (His tag)**



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## Overview

Quantity:	1 mg
Target:	RTF1
Protein Characteristics:	AA 1-715
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RTF1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Rtf1 Protein expressed in mammalian cells.
Sequence:	<p>MRGRLCVGRA AAVAAVAAA AVAVPLAGGQ EGSQGGVRRG SRGTTMVKKR KGRVVIDSDT</p> <p>EDSGSDENLD QELLSLAKRK RSDSEEKEPP VSQPAASSDS ETSDSDDEWT FGSNKNKKKG</p> <p>KTRKVEKKGA MKKQANKAAS SGSSDRDSSA ESSAPEEGEV SDESSSSSSS SSDSDSSSED</p> <p>EEFHDGYGED LMGDEEDRAR LEQMTEKERE QELFNRIEKR EVLKRRFEIK KKLKTAKKKE</p> <p>KKEKKKKQEE EQEKKLTQI QESQVTSHNK ERRSKRDEKL DKKSQAMEEL KAEREKRKNR</p> <p>TAELLAKKQP LKTSEVYSDD EEEEDDDKSS EKSDRSSRTS SSDEEEEEKEE IPPKSQPVSL</p> <p>PEELNRVRLS RHKLERWCHM PFFAKTVTGC FVRIGIGNHN SKPVYRVAEI TGVVETAKVY</p> <p>QLGGTRTNKG LQLRHGNDQR VFRLEFVSNQ EFTSEFMKW KEAMFSAGMQ LPTLDEINKK</p> <p>ELSIKEALNY KFNDQDIEEI VKEKERFRKA PPNYAMKKTQ LLKEKAMAED LGDQDKAKQI</p> <p>QDQLNELEER AEALDRQRTK NISAIYINQ RNREWNIVES EKALVAESHN MRNQQMDPFT</p> <p>RRQCKPTIVS NSRDPVQAA ILAQLNAKYG SGVLPDAPKE MSKGQGKDKD LNSKTASDLS</p> <p>EDLFKVHDFD VKIDLQVPSS ESKALAITSK APPAKDGAPR RSLNLEDYKK RRGLI <b>Sequence</b></p>

**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:** RTF1

**Alternative Name:** Rtf1 ([RTF1 Products](#))

**Background:** RNA polymerase-associated protein RTF1 homolog,FUNCTION: Component of the PAF1 complex (PAF1C) which has multiple functions during transcription by RNA polymerase II and is implicated in regulation of development and maintenance of embryonic stem cell pluripotency. PAF1C associates with RNA polymerase II through interaction with POLR2A CTD non-phosphorylated and 'Ser-2'- and 'Ser-5'-phosphorylated forms and is involved in transcriptional elongation, acting both independently and synergistically with TCEA1 and in cooperation with the DSIF complex and HTATSF1. PAF1C is required for transcription of Hox and Wnt target genes. PAF1C is involved in hematopoiesis and stimulates transcriptional

## Target Details

activity of KMT2A/MLL1. PAF1C is involved in histone modifications such as ubiquitination of histone H2B and methylation on histone H3 'Lys-4' (H3K4me3). PAF1C recruits the RNF20/40 E3 ubiquitin-protein ligase complex and the E2 enzyme UBE2A or UBE2B to chromatin which mediate monoubiquitination of 'Lys-120' of histone H2B (H2BK120ub1), UB2A/B-mediated H2B ubiquitination is proposed to be coupled to transcription. PAF1C is involved in mRNA 3' end formation probably through association with cleavage and poly(A) factors. Binds single-stranded DNA (By similarity). Required for maximal induction of heat-shock genes. Required for the trimethylation of histone H3 'Lys-4' (H3K4me3) on genes involved in stem cell pluripotency, this function is synergistic with CXXC1 indicative for an involvement of a SET1 complex. {ECO:0000250, ECO:0000269|PubMed:19345177}.

Molecular Weight:	80.8 kDa
UniProt:	<a href="#">A2AQ19</a>
Pathways:	<a href="#">Stem Cell Maintenance</a>

## 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