

## Product datasheet

# Recombinant Human RNA polymerase II RPB4 protein (denatured) ab168087

1 Image

### Description

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<b>Product name</b>	Recombinant Human RNA polymerase II RPB4 protein (denatured)
<b>Purity</b>	> 90 % SDS-PAGE.
<b>Expression system</b>	Escherichia coli
<b>Accession</b>	<b><u>O15514</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSM AAGGSD PRAGDVEEDA SQLIFPKEFE TAETLLNSEV HMLLEHRKQQ NESAEDEQEL SEVFMKTLNY TARFSRFKNR ETIASVRSLL LQKKLHKFEL ACLANLCPET AEESKALIPS LEGRFEDEEL QQILDDIQTk RSFQY
<b>Predicted molecular weight</b>	19 kDa including tags
<b>Amino acids</b>	1 to 142
<b>Tags</b>	His tag N-Terminus

### Specifications

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Our **Abpromise guarantee** covers the use of **ab168087** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE
<b>Form</b>	Liquid

### Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
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pH: 8.00

Constituents: 2.4% Urea, 0.32% Tris HCl, 10% Glycerol (glycerin, glycerine)

## General Info

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### Function

DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Component of RNA polymerase II which synthesizes mRNA precursors and many functional non-coding RNAs. Pol II is the central component of the basal RNA polymerase II transcription machinery. It is composed of mobile elements that move relative to each other. RPB4 is part of a subcomplex with RPB7 that binds to a pocket formed by RPB1, RPB2 and RPB6 at the base of the clamp element. The RPB4-RPB7 subcomplex seems to lock the clamp via RPB7 in the closed conformation thus preventing double stranded DNA to enter the active site cleft. The RPB4-RPB7 subcomplex binds single-stranded DNA and RNA.

### Sequence similarities

Belongs to the eukaryotic RPB4 RNA polymerase subunit family.

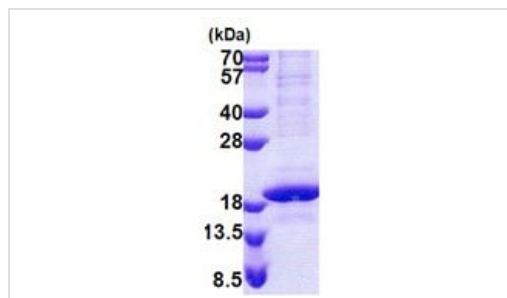
### Cellular localization

Nucleus.

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## Images

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15% SDS-PAGE analysis of ab168087 (3µg).

SDS-PAGE - Recombinant Human RNA polymerase II RPB4 protein (denatured) (ab168087)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

## Our Abpromise to you: Quality guaranteed and expert technical support

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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