

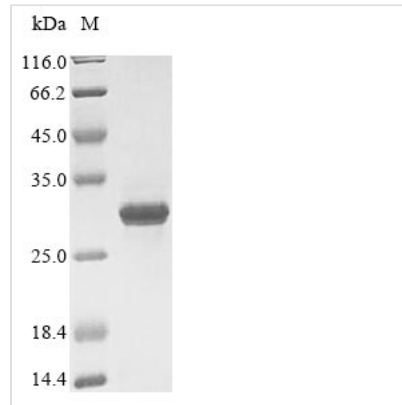


# Recombinant Kluyveromyces marxianus DNA-directed RNA polymerases I, II, and III subunit RPABC1 (RPB5)

|                          |   |
|--------------------------|---|
| <b>Product Code</b>      | CSB-EP889203KAN   |
| <b>Relevance</b>         | DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Common component of RNA polymerases I, II and III which synthesize ribosomal RNA precursors, mRNA precursors and many functional non-coding RNAs, and small RNAs, such as 5S rRNA and tRNAs, respectively. Pol II is the central component of the basal RNA polymerase II transcription machinery. Pols are composed of mobile elements that move relative to each other. In Pol II, RPB5 is part of the lower jaw surrounding the central large cleft and thought to grab the incoming DNA template. Seems to be the major component in this process |
| <b>Abbreviation</b>      | Recombinant Kluyveromyces marxianus RPB5 protein  |
| <b>Storage</b>           | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.   |
| <b>Uniprot No.</b>       | Q9P4B9  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Kluyveromyces marxianus (Yeast) (Candida kefir)   |
| <b>Purity</b>            | Greater than 85% as determined by SDS-PAGE.   |
| <b>Sequence</b>          | MDQEQERGISRLWRAFRTVKEMVRDRGYFITQEEIDLSLEDFKVKYCDSMGK<br>PQRKMMSFQSNPTEESIEKFPENGSLWVEFCDEASVGVKTMKNFVWHITEKN<br>FQTGIFIYQSGITPSANKILPTAAPAVIETFPEASLVVNITHHELVPKHIRLSDAEK<br>KELLKRYRLKESQLPRIQRMDPVALYLGLKRGEVIKIIRKSETSGRYASYRICL   |
| <b>Research Area</b>     | Epigenetics and Nuclear Signaling   |
| <b>Source</b>            | E.coli  |
| <b>Target Names</b>      | RPB5  |
| <b>Protein Names</b>     | Recommended name: DNA-directed RNA polymerases I, II, and III subunit RPABC1 Short name= RNA polymerases I, II, and III subunit ABC1  |
| <b>Expression Region</b> | 1-215aa   |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.   |
| <b>Tag Info</b>          | N-terminal 6xHis-tagged   |
| <b>Mol. Weight</b>       | 29.0 kDa  |
| <b>Protein Length</b>    | Full Length   |



## Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.