

Name: DNA-directed RNA polymerase subunit alpha

Function:

DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates.

Source:

We searched on NCBI with the accession number obtained and confirmed on Uniprot our Blast results:

GO - Molecular function:

DNA binding Source: UniProtKB-HAMAP

DNA-directed RNA polymerase activity Source: UniProtKB-HAMAP

GO - Biological process:

transcription, DNA-templated Source: UniProtKB-HAMAP

We found also information about the interaction with other structures:

Part of the 30S ribosomal subunit. Interacts with proteins S7 and S18. Binds to IF-3.

This protein has a subcellular location in the ribosome.

Score of 2 out 5 "-Protein inferred from homology"

As in this case we have the EC number we found some more information in KEGG: "Catalyses DNA-template-directed extension of the 3'- end of an RNA strand by one nucleotide at a time. Can initiate a chain de novo. In eukaryotes, three forms of the enzyme have been distinguished on the basis of sensitivity to alpha-amanitin, and the type of RNA synthesized. See also EC 2.7.7.19 (polynucleotide adenylyltransferase) and EC 2.7.7.48 (RNA-directed RNA polymerase)."