# Product datasheet for TP500406

## Polr3k (NM_025901) Mouse Recombinant Protein

## Product data:

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|---|---|
| **Product Type:** | Recombinant Proteins |
| **Description:** | Purified recombinant protein of Mouse polymerase (RNA) III (DNA directed) polypeptide K (Polr3k), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug |
| **Species:** | Mouse |
| **Expression Host:** | HEK293T |
| **Expression cDNA Clone or AA Sequence:** | A DNA sequence from Mouse cDNA ORF Clone, MR200406, encoding Mouse full-length Polr3k. |
| **Tag:** | C-MYC/DDK |
| **Predicted MW:** | 12.8 kDa |
| **Concentration:** | >0.05 µg/µL as determined by microplate BCA method |
| **Purity:** | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| **Buffer:** | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| **Note:** | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| **Storage:** | Store at -80°C after receiving vials. |
| **Stability:** | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| **RefSeq:** | NP_080177 |
| **Locus ID:** | 67005 |
| **UniProt ID:** | Q9CQZ7, Q3TSW1 |
| **RefSeq Size:** | 2925 |
| **Cytogenetics:** | 2 H4 |
| **RefSeq ORF:** | 324 |
| **Synonyms:** | 12.3kDa; 1500004O14Rik; AI196849; AU014893; C11; RPC10; RPC11 |

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**Summary:** DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Component of RNA polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. Plays a key role in sensing and limiting infection by intracellular bacteria and DNA viruses. Acts as nuclear and cytosolic DNA sensor involved in innate immune response. Can sense non-self dsDNA that serves as template for transcription into dsRNA. The non-self RNA polymerase III transcripts induce type I interferon and NF- Kappa-B through the RIG-I pathway (By similarity).[UniProtKB/Swiss-Prot Function]