

# Product datasheet for AR50579PU-N

### POLR3H (1-204, His-tag) Human Protein

#### **Product data:**

#### OriGene Technologies, Inc.

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| Product Type:                            | Recombinant Proteins   |
|--|--|
| Description:                             | POLR3H (1-204, His-tag) human recombinant protein, 0.5 mg  |
| Species:                                 | Human  |
| Expression Host:                         | E. coli  |
| Expression cDNA Clone<br>or AA Sequence: | MGSSHHHHHH SSGLVPRGSH MGSMFVLVEM VDTVRIPPWQ FERKLNDSIA EELNKKLANK<br>VVYNVGLCIC LFDITKLEDA YVFPGDGASH TKVHFRCVVF HPFLDEILIG KIKGCSPEGV HVSLGFFDDI<br>LIPPESLQQP AKFDEAEQVW VWEYETEEGA HDLYMDTGEE IRFRVVDESF VDTSPTGPSS<br>ADATTSSEEL PKKEAPYTLV GSISEPGLGL LSWWTSN |
| Tag:                                     | His-tag  |
| Predicted MW:                            | 25.3 kDa   |
| Concentration:                           | lot specific   |
| Purity:                                  | >90% by SDS - PAGE   |
| Buffer:                                  | Presentation State: Purified<br>State: Liquid purified protein<br>Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1 mM DTT   |
| Preparation:                             | Liquid purified protein  |
| Protein Description:                     | Recombinant human POLR3H protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.  |
| Storage:                                 | Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.<br>Avoid repeated freezing and thawing.   |
| Stability:                               | Shelf life: one year from despatch.  |
| Locus ID:                                | 171568   |
| Cytogenetics:                            | 22q13.2  |
| Synonyms:                                | 5031409G22Rik; polymerase (RNA) III (DNA directed) polypeptide H; RPC8; RPC8, KIAA1665,<br>MGC29654, MGC111097   |

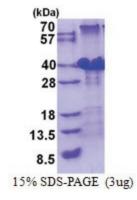


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|                  | POLR3H (1-204, His-tag) Human Protein – AR50579PU-N   |
|------------------|---|
| Summary:         | DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four<br>ribonucleoside triphosphates as substrates. Specific peripheric component of RNA<br>polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. Plays a key role in<br>sensing and limiting infection by intracellular bacteria and DNA viruses. Acts as nuclear and<br>cytosolic DNA sensor involved in innate immune response. Can sense non-self dsDNA that<br>serves as template for transcription into dsRNA. The non-self RNA polymerase III transcripts,<br>such as Epstein-Barr virus-encoded RNAs (EBERs) induce type I interferon and NF- Kappa-B<br>through the RIG-I pathway (By similarity).[UniProtKB/Swiss-Prot Function] |
| Protein Families | : Transcription Factors   |
| Protein Pathway  | <b>rs:</b> Cytosolic DNA-sensing pathway, Metabolic pathways, Purine metabolism, Pyrimidine metabolism, RNA polymerase  |

## Product images:

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