

## Recombinant Human Polymerase (RNA) II (DNA Directed) Polypeptide J, 13.3kDa, His-tagged

**Cat. No.** POLR2J-7206H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Product Overview</b> | Recombinant human POLR2J protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 15.7 kDa.                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | 1-117aa                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | POLR2J is a subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. This protein exists as a heterodimer with another polymerase subunit; together they form a core subassembly unit of the polymerase. Two similar genes are located nearby on chromosome 7q22.1 and a pseudogene is found on chromosome 7p13. |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 40% glycerol, 5mM DTT, and 2mM EDTA.                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | 15.7 kDa (140aa) confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MGSMNAPP AF ESFLFEGEK KITINKDTKV<br>PNACLFTINK EDHTLGNIK SLLKDPQVL FAGYKVP HPL EHKKIIRVQT<br>TPDYSPQEAF TNAITDLISE LSLLEERFRV AIKDKQEGIE                                                                                                                                                                                                 |

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|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>        | >90% by SDS - PAGE                                                                                                                                   |
| <b>Applications</b>  | SDS-PAGE                                                                                                                                             |
| <b>Storage</b>       | Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles. |
| <b>Concentration</b> | 0.5 mg/ml (determined by Bradford assay)                                                                                                             |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                  |
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| <b>Gene Name</b>       | POLR2J polymerase (RNA) II (DNA directed) polypeptide J, 13.3kDa [ Homo sapiens ]                                                                                                                                                                                                                                                                |
| <b>Official Symbol</b> | POLR2J                                                                                                                                                                                                                                                                                                                                           |
| <b>Synonyms</b>        | POLR2J; polymerase (RNA) II (DNA directed) polypeptide J, 13.3kDa; polymerase (RNA) II (DNA directed) polypeptide J (13.3kD); DNA-directed RNA polymerase II subunit RPB11-a; hRPB14; POLR2J1; RPB11; RPB11A; RPB11m; RNA polymerase II subunit B11-a; RNA polymerase II 13.3 kDa subunit; DNA-directed RNA polymerase II subunit J-1; MGC71910; |
| <b>Gene ID</b>         | 5439                                                                                                                                                                                                                                                                                                                                             |
| <b>mRNA Refseq</b>     | NM_006234                                                                                                                                                                                                                                                                                                                                        |
| <b>Protein Refseq</b>  | NP_006225                                                                                                                                                                                                                                                                                                                                        |
| <b>MIM</b>             | 604150                                                                                                                                                                                                                                                                                                                                           |
| <b>UniProt ID</b>      | P52435                                                                                                                                                                                                                                                                                                                                           |

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|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 7q11.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Pathway</b>             | Abortive elongation of HIV-1 transcript in the absence of Tat, organism-specific biosystem; DNA Repair, organism-specific biosystem; Disease, organism-specific biosystem; Dual incision reaction in TC-NER, organism-specific biosystem; Eukaryotic Transcription Initiation, organism-specific biosystem; Formation of HIV-1 elongation complex containing HIV-1 Tat, organism-specific biosystem; Formation of HIV-1 elongation complex in the absence of HIV-1 Tat, organism-specific biosystem; |
| <b>Function</b>            | DNA binding; DNA-directed RNA polymerase activity; LRR domain binding; protein binding; contributes_to protein kinase activity;                                                                                                                                                                                                                                                                                                                                                                      |