

# Active Recombinant Human General Transcription Factor IIF, Polypeptide 2, 30kDa

**Cat. No.** GTF2F2-1184H    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>     | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>      | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b> | <p>The transcription factor IIF (TFIIF) is composed of 58 kDa (RAP74) and 26 kDa (RAP30) subunits as a heterodimer, and was first identified through the ability to interact with immobilized RNA Polymerase II. The RAP30 subunit of TFIIF contains two distinct regions with sequence similarity to E. coli factors and can deliver RNA-Polymerase II to the promoter to support transcription initiation in the absence of RAP74. Recombinant RAP30 protein is isolated from an <i>E. coli</i> strain that carries the coding sequence of human RAP74, the 58 kDa subunit of TFIIF under the control of T7 promoter. RAP30 can interact with RNA Polymerase II, with TFIIB, and with DNA. Protein is greater than 95% homogeneous and contains no detectable protease, DNase, and RNase activity.</p> |
| <b>Purity</b>      | > 95% by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Form</b>        | Liquid. Supplied in 20 mM Tris-HCl pH 8.0, 500 mM KCl, 0.2 mM EDTA, 1 mM DTT, 20% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Activity</b>    | 1-10 ng is sufficient for a gel mobility shift assay in a 20 µl reaction to form a D/B/Pol/30 complex, 20 ng are sufficient for reconstituted transcription assay and 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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ng are sufficient for a protein-protein interaction assay.

**Storage** Quality guaranteed for 12 months. Store at -80°C.Avoid freeze / thaw cycles.

**Usage** For in vitro use only.

## GENE INFORMATION

**Gene Name** GTF2F2 general transcription factor IIF, polypeptide 2, 30kDa [ Homo sapiens ]

**Synonyms** general transcription factor IIF, polypeptide 2, 30kDa; BTF4; RAP30; TF2F2; TFIIF; GTF2F2; EC 3.6.1.-; TFIIF-beta; ATP-dependent helicaseGTF2F2;Transcription initiation factor IIF subunit beta; Transcription initiation factor RAP30; general transcription factor IIF, polypeptide 1 (74kD subunit); general transcription factor IIF, polypeptide 2 (30kD subunit)

**Gene ID** 2963

**mRNA Refseq** NM\_004128

**Protein Refseq** NP\_004119

**MIM** 189969

**UniProt ID** P13984

**Chromosome Location** 13q14

**Pathway** Basal transcription factors; Gene Expression; HIV Infection; Influenza Infection; Transcription; mRNA Processing

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**Function**

general RNA polymerase II transcription factor activity; ATP binding; ATP-dependent helicase activity; DNA binding; helicase activity; hydrolase activity; nucleotide binding; protein binding

**PDB rendering based on 1bby.**

