

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

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

SPECIFICATION

Product Overview

Species	Human
Source	E.coli
Description	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.
Purity	> 95% by SDS-PAGE.
Form	Liquid. Supplied in 20 mM Tris-HCl pH 8.0, 500 mM KCl, 0.2 mM EDTA, 1 mM DTT, 20% glycerol.
Activity	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.

