

Recombinant Human General Transcription Factor IIF, Polypeptide 2, 30kDa, His-tagged

Cat. No. GTF2F2-5599H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanGTF2F2 protein, fused to His-tag at N-terminus, was expressed in E.coli andpurified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	GTF2F2, also knownas TFIIF, is a general transcription initiation factor that binds to RNApolymerase II and helps to recruit it to the initiation complex incollaboration with TFIIB. It promotes transcription elongation. This subunitshows ATP-dependent DNA-helicase activity.
Form	Liquid. 20mMTris-HCl buffer (pH 8.0) containing 20% glycerol 0.2M NaCl, 1mM DTT.
Molecular Weight	30.5 kDa(269aa), confirmedby MALDI-TOF (Molecular weight on SDS-PAGE will appear higher).
Purity	> 90% by SDS -PAGE.
Concentration	0.5mg/ml (determinedby Bradford assay).
Sequences of aminoacids	MGSSHHHHHHSSGLVPRGSH MAERGELDLT GAKQNTGVWL VKVPKYLSQQ WAKASGRGEV GKLRIAKTQG RTEVSFTLNE DLANIHDIGGKPASVSAPRE HPFVLQSVGG QTLTVFTESS SDKLSLEGIV VQRAECRPAA SENYMRLKRL

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QIEESSKPVRLSQQLDKVVT TNYKPVANHQ YNIEYERKKK EDGKRARADK
QHVLDMFLFSA FEKHQYYNLK DLVDITKQPVVYLKEILKEI GVQNVKGIHK
NTWELKPEYR HYQGEEKSD

Storage

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.

OfficialSymbol

GTF2F2

GENE INFORMATION

Gene Name

GTF2F2 general transcriptionfactor IIF, polypeptide 2, 30kDa [Homo sapiens]

Synonyms

GTF2F2; generaltranscription factor IIF, polypeptide 2, 30kDa; BTF4; RAP30; TF2F2;TFIIF; general transcription factor IIF subunit 2; TFIIF-beta; ATP-dependenthelicase GTF2F2; transcription initiation factor RAP30; general transcriptionfactor IIF 30 kDa subunit; transcription initiation factor IIF subunit beta

Gene ID

2963

mRNA Refseq

NM_004128

Protein Refseq

NP_004119

MIM

189969

UniProt ID

P13984

**Chromosome
Location**

13q14

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Pathway

Abortive elongation of HIV-1 transcript in the absence of Tat; Androgen Receptor Signaling Pathway; Basal transcription factors; Eukaryotic Transcription Initiation; Formation and Maturation of mRNA Transcript; Formation of RNA Pol II elongation complex; Gene Expression; Influenza Infection; Pausing and recovery of HIV-1 elongation; RNA Pol II CTD phosphorylation and interaction with CE; RNA Polymerase II Transcription Pre-Initiation And Promoter Opening; Tat-mediated HIV-1 elongation arrest and recovery; Transcription; Viral Messenger RNA Synthesis; mRNA Splicing

Function

ATP binding; ATP-dependent helicase activity; DNA binding; helicase activity; hydrolase activity; nucleotide binding; protein binding

PDB rendering based on 1bby.

