

## Active Recombinant Human GTF2F1, His-tagged

**Cat. No.** GTF2F1-8457H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human GTF2F1, fused with His tag, was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | The transcription factor IIF (TFIIF) is composed of 58 kDa (RAP74) and 26 kDa (RAP30) subunits that form a heterodimer, and was first identified through the ability to interact with immobilized RNA polymerase II. In addition to its role in transcription initiation, TFIIF can increase the specificity and efficiency of RNA polymerase II transcription, and can especially increase the rate of transcription elongation. |
| <b>Form</b>             | 20 mM Tris-Cl, pH 7.9, 20% Glycerol, 100 mM KCl, 1 mM DTT and 0.2 mM EDTA                                                                                                                                                                                                                                                                                                                                                         |
| <b>Bio-activity</b>     | 1 unit equals 1 ng of purified protein. 1 - 10 units are sufficient for a gel mobility shift assay in a 20 µl reaction; 20 units are sufficient for a reconstituted transcription assay and 100 units are sufficient for a protein-protein interaction assay.                                                                                                                                                                     |
| <b>AA Sequence</b>      | MAALGPSSQN VTEYVVRVPK NTTKKYNIMA FNAADKVNFA TWNQARLERD<br>LSNKKIYQEE EMPESGAGSE FNRKLREEAR RKKYGIVLKE FRPEDQPWLL<br>RVNGKSGRKF KGIKKGGVTE NTSYYIFTQC PDGAFAFPV HNWYNFTPLA<br>RHRTLTAEEA EEEWERRNKV LNHFSIMQQR RLKDQDQDED EEEKEKRGRR<br>KASELRIHDL EDDLEMSSDA SDASGEEGGR VPKAKKKAPL AKGGRKKKKK<br>KGSDDEAFED SDDGDFEGQE VDYMSDGSSS SQEEPESKAK APQQEEGPKG<br>VDEQSDSSEE SEEKPPEED KEEEEKKAP TPQEKRRRKD SSEESDSSEE                   |

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SDIDSEASSA FFMAKKKTTP KRERKPSGGS SRGNSRPGTP SAEGGSTSST  
 LRAAASKLEQ GKRVSMPAA KRLRLDTGPQ SLSGKSTPQP PSGKTTTPNSG  
 DVQVTEDAVR RYLTRKPMTT KDLLKKFQTK KTGLSSEQTV NVLAQILKRL  
 NPERKMINDK MHFSLKE

**Purity** >95% as determined by SDS-PAGE

**Storage** -80 °C

**Concentration** 200 µg/ml

**Shipping** Dry Ice

## GENE INFORMATION

**Gene Name** [GTF2F1 general transcription factor IIF, polypeptide 1, 74kDa \[ Homo sapiens \]](#)

**Official Symbol** GTF2F1

**Synonyms** GTF2F1; general transcription factor IIF, polypeptide 1, 74kDa; general transcription factor IIF, polypeptide 1 (74kD subunit); general transcription factor IIF subunit 1; BTF4; RAP74; TF2F1; TFIIF; TFIIF-alpha; transcription initiation factor RAP74; general transcription factor IIF 74 kDa subunit; transcription initiation factor IIF subunit alpha;

**Gene ID** [2962](#)

**mRNA Refseq** [NM\\_002096](#)

**Protein Refseq** [NP\\_002087](#)

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| <b>MIM</b>                 | 189968                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID</b>          | P35269                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Chromosome Location</b> | 19p13.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Pathway</b>             | Abortive elongation of HIV-1 transcript in the absence of Tat, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Basal transcription factors, organism-specific biosystem; Basal transcription factors, conserved biosystem; Disease, 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; catalytic activity; phosphatase activator activity; protein binding; transcription coactivator activity; transcription factor binding;                                                                                                                                                                                                                                                                                                                                                      |

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