

Recombinant Human General Transcription Factor IIE, Polypeptide 2, Beta 34kDa, His-tagged

Cat. No. GTF2E2-466H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant humanGTF2E2 protein, fused to His-tag at N-terminus, was expressed in E.coli andpurified by using conventional chromatography
Species	Human
Source	E.coli
Description	GTF2E2, also knownas TFIIE, is essential for transcription initiation by RNA polymerase II inconjunction with other general factors. TFIIE is a heterotetramer containingtwo subunits of relative molecular mass 57,000 (TFIIE-alpha) and two of34,000 (TFIIE-beta). TFIIE-beta is required in conjunction with TFIIE-alphafor transcription initiation. GTF2E2 recruits TFIIH to the initiation complexand stimulates the RNA polymerase II C-terminal domain kinase andDNA-dependent ATPase activities of TFIIH. Both TFIIH and TFIIE are requiredfor promoter clearance by RNA polymerase
Form	Liquid. 20mMTris-HCl buffer (pH8.0) containing 30% glycerol, 0.1M NaCl, 1mM DTT
Molecular Weight	35.6 kDa (315aa),confirmed by MALDI-TOF
Purity	> 90% by SDS -PAGE
Concentration	1 mg/ml (determinedby Bradford assay)

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Sequences of aminoacids

MGSSHHHHHSSGLVPRGSH MGSMDPSLL RERELFKKRA LSTPVVEKRS
 ASSESSSSSS KKKKTKVEHG GSSGSKQNSDHSNGSFNLKA LSGSSGYKFG
 VLAKIVNYMK TRHQRGDTHP LTLDEILDET QHLDIGLKQK
 QWLMTEALVNNPKIEVIDGK YAFKPKYNVR DKKALLRLLD QHDQRGLGGI
 LLEDIEEALP NSQKAVKALG DQILFVNRPDKKILFFNDK SCQFSVDEEF
 QKLWRSVTVD SMDEEKIEEY LKRQGISSMQ ESGPKKVAPI
 QRRKKPASQKKRRFKTHNEH LAGVLKDYSY ITSSK

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.

GENE INFORMATION

Gene Name [GTF2E2 general transcription factor IIE, polypeptide 2, beta 34kDa \[Homo sapiens\]](#)

Official symbol [GTF2E2](#)

Synonyms general transcription factor IIE, polypeptide 2, beta 34kDa; General transcription factor IIE subunit 2; TF2E2; TFIIE-beta; FE; general transcription factor IIE, polypeptide 2 (beta subunit, 34kD); TFIIE-B; transcription initiation factor IIE subunit beta; OTTHUMP00000225416

Gene ID [2961](#)

mRNA Refseq [NM_002095](#)

Protein Refseq [NP_002086](#)

MIM [189964](#)

Uniprot ID [P29084](#)

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**Chromosome
Location**

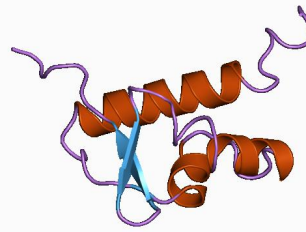
8p12

Pathway

Basaltranscription factors, organism-specific biosystem; Basal transcriptionfactors, conserved biosystem; Eukaryotic Transcription Initiation,organism-specific biosystem; Formation and Maturation of mRNA Transcript,organism-specific biosystem; Gene Expression, organism-specific biosystem;HIV Infection, organism-specific biosystem

Function

DNA binding; protein binding

**PDB rendering based
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