

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

MGSSHHHHHHSSGLVPRGSH MGSMDPSLL RERELFKKRA LSTPVVEKRS
 ASSESSSSSS KKKKTKVEHG GSSGSKQNSDHSNGSFNLKA LSGSSGYKFG
 VLAKIVNYMK TRHQRGDTHP LTLDEILDET QHLDIGLKQK
 QWLMTEALVNNPKIEVIDGK YAFKPKYNVR DKKALLRLLD QHDQRGLGGI
 LLEDIEEALP NSQKAVKALG DQILFVNRPDKKKILFFNDK SCQFSVDEEF
 QKLWRSVTVD SMDEEKIEEY LKRQGISSMQ ESGPKKVAPI
 QRRKKPASQKKRRFKTHNEH LAGVLKDYS D 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 transcriptionfactor IIE, polypeptide 2, beta 34kDa [Homo sapiens]

Official symbol

GTF2E2

Synonyms

generaltranscription factor IIE, polypeptide 2, beta 34kDa; General transcriptionfactor IIE subunit 2; TF2E2; TFIIE-beta; FE; general transcription factorIIE, polypeptide 2 (beta subunit, 34kD); TFIIE-B; transcription initiationfactor 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 on 1d8k.	