

## Active Recombinant Human GTF2E2, His-tagged

**Cat. No.** GTF2E2-8456H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human GTF2E2, fused with His tag, was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | The human Transcription Factor IIE (TFIIE) is composed of 56 kDa (α) and 34 kDa (β) subunits and is shown to be a heterotetramer. The 56-kDa subunit contains a region similar to a zinc-binding domain and a region sharing homology with the catalytic loop of a kinase domain. TFIIE binds to RNA polymerase II in solution and joins the pre-initiation complex probably concomitant with RNA polymerase II and TFIIF. |
| <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. 20 units are sufficient for an in vitro reconstituted transcription assay in the presence of 56-kDa subunit; 100 units are sufficient for a protein-protein interaction assay.                                                                                                                                                                                                     |
| <b>AA Sequence</b>      | MDPSLLRERE LFKKRALSTP VVEKRSASSE SSSSSSKKKK TKVEHGGSSG<br>SKQNSDHSNG SFNLKALSGS SGYKFGVLAK IVNYMKTRHQ RGDTHPLTLD<br>EILDETQHLD IGLKQKQWLM TEALVNNPKI EVIDGKYAFK PKYNVRDKKA<br>LLRLLDQHDQ RGLGGILLED IEEALPNSQK AVKALGDQIL FVNRDPDKKI<br>LFFNDKSCQF SVDEEFQKLW RSVTVDSMDE EKIEEYLKRQ GISSMQESGP<br>KKVAPIQRRK KPASQKKRRF KTHNEHLAGV LKDYSITSS K                                                                             |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                      |                                |
|----------------------|--------------------------------|
| <b>Purity</b>        | >95% as determined by SDS-PAGE |
| <b>Storage</b>       | -80 °C                         |
| <b>Concentration</b> | 250 µg/ml                      |
| <b>Shipping</b>      | Dry Ice                        |

## GENE INFORMATION

|                            |                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | GTF2E2 general transcription factor IIE, polypeptide 2, beta 34kDa [ Homo sapiens ]                                                                                                                                                                                               |
| <b>Official Symbol</b>     | GTF2E2                                                                                                                                                                                                                                                                            |
| <b>Synonyms</b>            | GTF2E2; general transcription factor IIE, polypeptide 2, beta 34kDa; general transcription factor IIE, polypeptide 2 (beta subunit, 34kD); transcription initiation factor IIE subunit beta; FE; TF2E2; TFIIE B; TFIIE-beta; general transcription factor IIE subunit 2; TFIIE-B; |
| <b>Gene ID</b>             | <a href="#">2961</a>                                                                                                                                                                                                                                                              |
| <b>mRNA Refseq</b>         | <a href="#">NM_002095</a>                                                                                                                                                                                                                                                         |
| <b>Protein Refseq</b>      | <a href="#">NP_002086</a>                                                                                                                                                                                                                                                         |
| <b>MIM</b>                 | <a href="#">189964</a>                                                                                                                                                                                                                                                            |
| <b>UniProt ID</b>          | <a href="#">P29084</a>                                                                                                                                                                                                                                                            |
| <b>Chromosome Location</b> | 8p12                                                                                                                                                                                                                                                                              |

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**Pathway**

Basal transcription factors, organism-specific biosystem; Basal transcription factors, conserved biosystem; Disease, organism-specific biosystem; Eukaryotic Transcription Initiation, organism-specific biosystem; Gene Expression, organism-specific biosystem; HIV Infection, organism-specific biosystem; HIV Life Cycle, organism-specific biosystem;

**Function**

DNA binding; protein binding;

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