

Recombinant Human GTF2H2 293 Cell Lysate

Cat. No. GTF2H2-5697HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for general transcription factor IIH, polypeptide 2, 44kDa (GTF2H2) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

GTF2H2 general transcription factor IIH, polypeptide 2, 44kDa [Homo sapiens]

Official Symbol

GTF2H2

Synonyms

GTF2H2; general transcription factor IIH, polypeptide 2, 44kDa; general transcription factor IIH, polypeptide 2 (44kD subunit); general transcription factor IIH subunit 2; BTF2; BTF2P44; p44; T BTF2P44; TFIIH; BTF2 p44; basic transcription factor 2 44 kDa subunit; general transcription factor IIH polypeptide 2; TFIIH basal transcription factor complex p44 subunit; general transcription factor IIH, polypeptide 2, 44kD subunit; T-BTF2P44; MGC102806;

Gene ID

2966

mRNA Refseq

NM_001515

Protein Refseq

NP_001506

MIM

601748

UniProt ID

Q13888

Chromosome Location

5q13.2

Pathway

Basal transcription factors, organism-specific biosystem; Basal transcription factors,

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conserved biosystem; DNA Repair, organism-specific biosystem; Disease, organism-specific biosystem; Dual incision reaction in GG-NER, organism-specific biosystem; Dual incision reaction in TC-NER, organism-specific biosystem; Eukaryotic Transcription Initiation, organism-specific biosystem;

Function

contributes_to DNA-dependent ATPase activity; contributes_to RNA polymerase II carboxy-terminal domain kinase activity; metal ion binding; nucleic acid binding; protein N-terminus binding; protein binding; contributes_to protein kinase activity; sequence-specific DNA binding transcription factor activity; translation factor activity, nucleic acid binding; zinc ion binding;