Recombinant Human GTF2H2 293 Cell Lysate

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

SPECIFICATION

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.
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

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

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	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;

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