

# Recombinant Human ERCC3 293 Cell Lysate

**Cat. No.** ERCC3-6565HCL    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

**Species** Human

**Source** HEK293

### Description

Antigen standard for excision repair cross-complementing rodent repair deficiency, complementation group 3 (xeroderma pigmentosum group B complementing) (ERCC3) 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](mailto: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**

ERCC3 excision repair cross-complementing rodent repair deficiency, complementation group 3 [ Homo sapiens ]

**Official Symbol**

ERCC3

**Synonyms**

ERCC3; excision repair cross-complementing rodent repair deficiency, complementation group 3; TFIIH basal transcription factor complex helicase XPB subunit; BTF2; GTF2H; RAD25; TFIIH; xeroderma pigmentosum group B complementing; XPB; BTF2 p89; TFIIH p89; TFIIH 89 kDa subunit; DNA excision repair protein ERCC-3; DNA repair protein complementing XP-B cells; basic transcription factor 2 89 kDa subunit; xeroderma pigmentosum, complementation group B; xeroderma pigmentosum group B-complementing protein; TFIIH basal transcription factor complex 89 kDa subunit;

**Gene ID**

2071

**mRNA Refseq**

NM\_000122

**Protein Refseq**

NP\_000113

**MIM**

133510

**UniProt ID**

P19447

**Chromosome**

2q21

 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

| Location |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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; Dual incision reaction in TC-NER, organism-specific biosystem; Eukaryotic Transcription Initiation, organism-specific biosystem;                                                                                                                                                                                             |
| Function | 3-5 DNA helicase activity; 3-5 DNA helicase activity; ATP binding; ATP-dependent DNA helicase activity; ATPase activity; DNA binding; contributes_to DNA-dependent ATPase activity; contributes_to DNA-dependent ATPase activity; GTP binding; contributes_to RNA polymerase II carboxy-terminal domain kinase activity; dATP binding; damaged DNA binding; helicase activity; hydrolase activity; nucleotide binding; peptide binding; protein C-terminus binding; protein N-terminus binding; protein binding; contributes_to protein kinase activity; transcription factor binding; |