

# Recombinant Full Length Human ERCC3 Protein, GST-tagged

**Cat. No.** ERCC3-4549HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human ERCC3 full-length ORF ( NP_000113.1, 1 a.a. - 782 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | 782 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | This gene encodes an ATP-dependent DNA helicase that functions in nucleotide excision repair. The encoded protein is a subunit of basal transcription factor 2 (TFIIH) and, therefore, also functions in class II transcription. Mutations in this gene are associated with Xeroderma pigmentosum B, Cockayne's syndrome, and trichothiodystrophy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]  |
| <b>Molecular Mass</b>   | 115.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | MGKRD RADRD KKKSRKRHYE DEEDDEEDAPGNDPQEAVPSAAGKQVDESGTKVD<br>EYGAKDYRLQMPLKDDHTSRPLWVAPDGHIFLEAFSPVYKYAQDFLVAIAEPVCRPT<br>HVHEYKLTAYSLYAAVSVGLQTS DITEYLRKLSKTGVPD GIMQFIKLCTVSYGKVKLV<br>LKHNRYFVESCHPDV IQHLLQDPVIRECRLRNSEGEATELITETFTSKSAISKTAESSG<br>GPSTSRVTD PQGKSDIPMDLFD FYEQMDKDEEEEEETQTVSFEVKQEMIEELQKRCI<br>HLEYPLLA EYDFRND SVNPDINIDLKPTAVLRPYQE KSLRKMFGNGRARGVIVLPC<br>GAGKSLVGVTAACTVRKRCLVLGNSAVSVEQWKAQFKMWSTIDDSQICRFTSDAKD |

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KPIGCSVAISTYSMLGHTTKRSWEAERVMEWLKTQEWGLMILDEVHTIPAKMFRRVL  
TIVQAHCKLGLTATLVREDDKIVDLNFLIGPKLYEANWMELQNGYIAKVQCAEVWC  
PMSPEFYREYVAIKTKKRILLYTMNPNKFRACQFLIKFHERRNDKIIVFADNVFALKEY  
AIRLNKPYIYGPTSQGERMQILQNFKHNPKINTIFISKVGDTSFDLPEANVLIQISSHGG  
SRRQEAQRLGRVLRAKKGMVAEEYNAFFYSLVSQDTQEMAYSTKRQRFLVDQGYS  
FKVITKLAGMEEEDLAFSTKEEQQLLQKVLAATDLDAEEEVVAGEFGSRSSQASRR  
FGTMSSMSGADDTVYMEYHSSRSKAPSKHVHPLFKRFRK

**Applications**

Enzyme-linked Immunoabsorbent Assay  
Western Blot (Recombinant protein)  
Antibody Production  
Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## 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

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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](#)

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