

Recombinant Human ERCC3

Cat. No. ERCC3-30702TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human XPB with a N terminal proprietary tag; predicted MW: 112.09 kDa inclusive of tag. P19447,
Species	Human
Source	Wheat Germ
ProteinLength	782 amino acids
Description	ERCC3 is an ATP-dependent DNA helicase that functions in nucleotide excision repair and complements xeroderma pigmentosum group B mutations. It also is the 89 kDa subunit of basal transcription factor 2 (TFIIH) and thus functions in class II transcription.
Molecular Weight	112.090kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids

MGKRDRADRDKKKSRKRHYEDEEDEEDAPGNDPQEAVPS AAGKQVDESGTKVD
 EYGAKDYRLQMPLKDDHTSRPLWVAP DGHIFLEAFSPVYKYAQDFLVAIAEPVCRP
 THVHEYKLTA YSLYAAVSVGLQTSDITEYLRKLSKTGVPDGIMQFIKLCT VSYGKVK
 LVLKHNRYFVESCHPDVIQHLLQDPVIRECLR NSEGEATELITETFTSKSAISKTAE
 SSGGPSTSRVTPQG KSDIPMDLDFYEQMDKDEEEEEETQTVSFEVKQEMIEEL
 QKRCIHLEYPLLAEYDFRNDVSNPDINIDLKPTAVLRPYQ EKSLRKMFGNGRARS
 IVLPCGAGKSLVGVTAACTVRKR CLVLGNSAVSVEQWKAQFKMWSTIDDSQICRFT
 SDAKDKP IGCSVAISTYSMLGHTTKRSWEAERVMEWLKTQEWGLMIL DEVHTIPAK
 MFRRVLTIVQAHCKLGLTATLVREDDKIVDL NFLIGPKLYEANWMELQNNGYIAKVQ
 CAEVWCMSPEFYR EYVAIKTKKRILLYTMNPNKFRACQFLIKFHERRNDKIIIV FAD
 NVFALKEYAIRLNKPYIYGPTSQGERMQILQNFKHNP KINTIFISKVGDTSFDLPEANV
 LIQISSHGGRRQEAQRL GRVLRAKKGMVAEEYNAFFYSLVSQDTQEMAYSTKRQ
 RFL VDQGYSFKVITKLAGMEEEDLAFSTKEEQQLLQKVLAAAT DLDAEEEVVAGEF
 GSRSSQASRRFGTMSSMSGADDTVYME YHSSRSKAPSKHVHPLFKRFRK

Sequence

Belongs to the helicase family. RAD25/XPB subfamily. Contains 1 helicase ATP-

Similarities

binding domain. Contains 1 helicase C-terminal domain.

GENE INFORMATION

Gene Name

ERCC3 excision repair cross-complementing rodent repair deficiency, complementation group 3 (xeroderma pigmentosum group B complementing) [Homo sapiens]

Official Symbol

ERCC3

Synonyms

ERCC3; excision repair cross-complementing rodent repair deficiency, complementation group 3 (xeroderma pigmentosum group B complementing); TFIIH basal transcription factor complex helicase XPB subunit; BTF2; GTF2H; RAD25; TFIIH; XPB;

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Gene ID	2071
mRNA Refseq	NM_000122
Protein Refseq	NP_000113
MIM	133510
Uniprot ID	P19447
Chromosome Location	2q21
Pathway	Basal transcription factors, organism-specific biosystem; Basal transcription factors, conserved biosystem; DNA Repair, organism-specific biosystem; Dual incision reaction in GG-NER, organism-specific biosystem; Dual incision reaction in TC-NER, organism-specific biosystem;
Function	3-5 DNA helicase activity; 3-5 DNA helicase activity; ATP binding; ATP-dependent DNA helicase activity; ATPase activity;

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