

## Recombinant Human ERCC2, His-tagged

Cat. No. ERCC2-30131TH Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant fragment, corresponding to amino acids 533-760 of Human XPD with an N terminal His tag. Predicted MWt: 27 kDa,

**Species** Human

**Source** E.coli

**ProteinLength** 533-760 a.a.

**Description** The nucleotide excision repair pathway is a mechanism to repair damage to DNA. The protein encoded by this gene is involved in transcription-coupled nucleotide excision repair and is an integral member of the basal transcription factor BTF2/TFIIH complex. The gene product has ATP-dependent DNA helicase activity and belongs to the RAD3/XPD subfamily of helicases. Defects in this gene can result in three different disorders, the cancer-prone syndrome xeroderma pigmentosum complementation group D, trichothiodystrophy, and Cockayne syndrome. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

**Conjugation** HIS

**Form** Lyophilised:Reconstitute with 137 µl aqua dest.

**Storage buffer** Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	DGIVAFFTSYQYMESTVASWYEQGILENIQRNKLLFIETQ DGAETSVALEKYQEACE NGRGAILLSVARGKVVSEGIDF VHHYGRAVIMFGVVPYVYTQSRILKARLEYLRDQFQI RE NDFLTFDAMRHAAQCVGRAIRGKTDYGLMVFADKRFARGD KRGKLPRWIQEHL TDANLNLTVDEGVQVAKYFLRQMAQ PFHREDQLGLSLLSLEQLESEETLKRIEQIAQ QL
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	ERCC2 excision repair cross-complementing rodent repair deficiency, complementation group 2 [ Homo sapiens ]
<b>Official Symbol</b>	ERCC2
<b>Synonyms</b>	ERCC2; excision repair cross-complementing rodent repair deficiency, complementation group 2; xeroderma pigmentosum complementary group D , XPD; TFIIH basal transcription factor complex helicase XPD subunit; EM9; excision repair cross complementing rodent
<b>Gene ID</b>	2068
<b>mRNA Refseq</b>	NM_000400
<b>Protein Refseq</b>	NP_000391
<b>MIM</b>	126340
<b>Uniprot ID</b>	P18074
<b>Chromosome</b>	19q13.3

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<b>Location</b>	
<b>Pathway</b>	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;
<b>Function</b>	5-3 DNA helicase activity; ATP binding; ATP-dependent DNA helicase activity; DNA binding; contributes_to DNA-dependent ATPase activity;

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