

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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Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	DGIVAFFTSYQYMESTVASWYEQGILENIQRNKLLFIETQ DGAETSVALEKYQEACE NGRGAILLSVARGKVSEGIDF VHHYGRAVIMFGVPYVYTQSRILKARLEYLRDQFQI RE NDFLTFDAMRHAAQCVGRAIRGKTDYGLMVFADKRFARGD KRGKLPRWIQEHL TDANLNLTVDEGVQVAKYFLRQMAQ PFHREDQLGLSLLSLEQLESEETLKRIEQIAQ QL
GENE INFORMATION	
Gene Name	ERCC2 excision repair cross-complementing rodent repair deficiency, complementation group 2 [Homo sapiens]
Official Symbol	ERCC2
Synonyms	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
Gene ID	2068
mRNA Refseq	NM_000400
Protein Refseq	NP_000391
MIM	126340
Uniprot ID	P18074
Chromosome	19q13.3

Location	
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	5-3 DNA helicase activity; ATP binding; ATP-dependent DNA helicase activity; DNA binding; contributes_to DNA-dependent ATPase activity;

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