

Recombinant Human ERCC6 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ERCC6-4775H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ERCC6 MS Standard C13 and N15-labeled recombinant protein (NP_000115) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a DNA-binding protein that is important in transcription-coupled excision repair. The encoded protein has ATP-stimulated ATPase activity, interacts with several transcription and excision repair proteins, and may promote complex formation at DNA repair sites. Mutations in this gene are associated with Cockayne syndrome type B and cerebrooculofacioskeletal syndrome 1. Alternative splicing occurs between a splice site from exon 5 of this gene to the 3' splice site upstream of the open reading frame (ORF) of the adjacent gene, piggyback-derived-3 (GeneID:267004), which activates the alternative polyadenylation site downstream of the piggyback-derived-3 ORF. The resulting transcripts encode a fusion protein that shares sequence with the product of each individual gene.
Molecular Mass	168.3 kDa
AA Sequence	MPNEGIPHSSQTQEQLQSQPVSNNEEMAIKQESGGDGEVEEYLSFRSVGDGLS TSAVGCASAAPRRGPALLHIDRHQIQAVEPSAQALELQGLGVDVYDQDVLEQGVLP QVDNAIHEASRASQLVDVEKEYRSVLDDLTSCCTSLRQINKIIEQLSPQAATSRDINRK

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LDSVKRQKYNKEQQLKKITAKQKHLQAILGGAEVKIELDHASLEEDAEPGPSSLGSM
 LMPVQETAWEELIRTGQMTPFGTQIPQKQEKKPRKIMLNEASGFKEYLADQAKLSFE
 RKKQGCNKRAARKAPVTPPAPVQNKKNPNKKARVLSKKEERLKKHIKKLQKRAL
 QFQGVGLPKARRPWESDMRPEAEGDSEGESEYFPTEEEEEEEDDEVEGAEADL
 SGDGTDYELKPLPKGGKRQKKVPVQEIDDDFFPSSGEEAEAASVGEGGGGGRKVG
 RYRDDGDEDYKQRLRRWNKLRLQDKEKRLKLEDDSEESDAEFDEGFKVPGLFK
 KLFKYQQTGVRWLWELHCQQAGGILGDEMGLGKTIQIIAFLAGLSYSKIRTRGSNYR
 FEGLGPTVIVCPTTVMHQWVKEFHTWWPPFRVAILHETGSYTHKKEKLIRDVAHCH
 GILITSYSYIRLMQDDISRYDWHYVILDEGHKIRNPNAAVTLACKQFCTPHRIILSGSP
 MQNNLRELWSLDFIFPGKLGTLPVFMEQFSVPITMGGYSNASPVQVKTAYKCACV
 LRDTINPYLLRRMKSDVKMSLSLPDKNEQVLCRLTDEQHKVYQNFVDSKEVYRILN
 GEMQIFSGLIARLKICNHPDLFSGGPKNLKGLPDDELEEDQFGYWKRSGKMIVVESL
 LKIWHKQGQRVLLFSQSRQMLDILEVFLRAQKYTYLKMDGTTTASRQPLITRYNEDT
 SIFVLLTTRVGGLGVNLTGANRVVIYDPDWNPDSTDTQARERAWRIGQKKQVTYRL
 LTAGTIEEKIYHRQIFKQFLTNRVLKDPKQRRFFKSNDLYELFTLTSPDASQSTETSAI
 FAGTGSDVQTPKCHLKRRIPPAFGADHDVPKRKKFPASNISVNDATSSEEKSEAKGA
 EVNAVTSNRSDPLKDDPHMSSNVTSDNRLGEETNAVSGPEELSVISGNGECSNSSG
 TGKTSMPSGDESIDEKLGLSYKRERPSQAQTEAFWENKQMENNFKHKSSTKHHS
 VAEETLEKHLRPKQKPKNSKHCRDAKFEGTRIPHLVKKRRYQKQDSENKSEAKEQ
 SNDDYVLEKLFKKSVMKHDAIMDGASPDYVLVEAEANRVAQDAPKALRLSR
 QRCLGAVSGVPTWTGHRGISGAPAGKKSFRGKKRNSNFSVQHPSSSTPTEKCQDG
 IMKKEGKDNVPEHFSGRAEDADSSSGPLASSLLAKMRARNHLILPERLESESGHLQ
 EASALLPTTEHDDLLVEMRNFIQFQAHTDGQASTREILQEFESKLSASQSCVFRELLR
 NLCTFHRTSGGEGIWKLKPEYCTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Stability

Stable for 3 months from receipt of products under proper storage and handling conditions.

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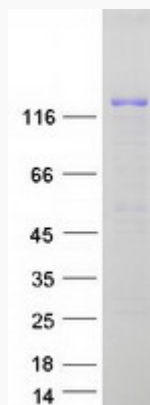
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Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.
GENE INFORMATION	
Gene Name	ERCC6 ERCC excision repair 6, chromatin remodeling factor [Homo sapiens (human)]
Official Symbol	ERCC6
Synonyms	ERCC6; excision repair cross-complementing rodent repair deficiency, complementation group 6; CKN2; DNA excision repair protein ERCC-6; Cockayne syndrome B protein; CSB; RAD26; Rad26 homolog; ATP-dependent helicase ERCC6; cockayne syndrome protein CSB; Cockayne syndrome group B protein; COFS; ARMD5; COFS1;
Gene ID	2074
mRNA Refseq	NM_000124
Protein Refseq	NP_000115
MIM	609413
UniProt ID	Q03468

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SDS-PAGE

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