

Product datasheet for PH301994

XPG (ERCC5) (NM_000123) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ERCC5 MS Standard C13 and N15-labeled recombinant protein (NP_000114)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201994
Predicted MW:	133.3 kDa
Protein Sequence:	>RC201994 protein sequence Red=Cloning site Green=Tags(s)

MGVQGLWKLLECSGRQVSPEALEGKILAVDISIWLNQALKGVDRDRHGNSIENPHLLTLFHRLLCKLLFFRI
RPIFVFDGDAPLLKQTLVKRRQRKDLASSDSRKTTEKLLKTFKLRQAIKTAFRSKRDEALPSLTQVRRE
NDLYVLPPLQEEEEKHSSEEEDEKEWQERMNQKALQEEFFHNPQAIDIESEDFSSLPPEVKHEILTDMKE
FTKRRRTLFEAMPEESDDFSQYQLKGLLKKNYLNQHIEHVQKEMNQHSGHIRRQYDEDEGGFLKEVESRR
VVEDTSHYILIKGIQAKTVAEVDSESLPSSSKMHGMSFDVKSSPCEKLTEKEPDATPPSPRTLLAMQA
ALLGSSSEEELESENRRQARGRNAPAAVDEGSI SPRTL SAIKRALDDDEDVKVCAGDDVQTGGPGAEMR
INSSTENSDEGLKVRDGGKIPFTATLASSVNSAEHVAEHNSTNEGPREPTDVPKEQMSLVHVGTEAFPISD
ESMIKDRKDRLESAVVRHSDAPGLPNGRELTPASPTCTNSVSKNETHAEVLEQQNELCPYESKFDSSL
LSSDDETKCKPNSASEVIGPVSLQETSSIVSVPSEAVDENVVVFNAKEHENFLETIQEQQTTESAGQD
LISIPKAVEPMEIDSESESDGSFIEVQSVISDEELQAEFPETSKPPSEQGEEELVGTREGAPAESESL
LRDNSERDDVDGEPQAEKDAEDSLHEWQDINLEELETLESNLLAQQNSLKAQKQQQERIAATVTGQMFL
ESQELLRLFGIPYIQAPMEAEAQCAILDLDQTSGTITDSDIWLFGARHVYRNFFNKNKFVEYYQYVDF
HNQLGLDRNKLINLAYLLGSDYTEGIPTVGCVTAMEILNEFPGHGLEPLKFSWWHEAQKNPKIRPNPH
DTKVKKLRLTLQTPGFNPVAEAYLKPVVDDSKGSFLWGKPDLDKIREFCQRYFGWNRTKTDESFPV
LKQLDAQQTQLRIDSFFRLAQEQEKEDAKRIKSQRLNRAVTCMLRKEKEAAASEIEAVSVAMEKEFELLDK
AKRKTQKRGITNTLEESSLKRKRLSDSKRKNTCGGFLGETCLSESSDGSSEDAESSLMNVQRRTAAK
EPKTSASDSQNSVKEAPVKNGGATSSSSSDDDGGKEKMLVLTARSVFGKKRRKLRARGRKRKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

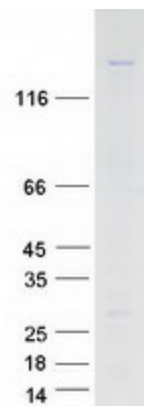
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3



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Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000114
RefSeq Size:	4091
RefSeq ORF:	3558
Synonyms:	COFS3; ERCC5-201; ERCM2; UVDR; XPG; XPGC
Locus ID:	2073
UniProt ID:	P28715
Cytogenetics:	13q33.1
Summary:	This gene encodes a single-strand specific DNA endonuclease that makes the 3' incision in DNA excision repair following UV-induced damage. The protein may also function in other cellular processes, including RNA polymerase II transcription, and transcription-coupled DNA repair. Mutations in this gene cause xeroderma pigmentosum complementation group G (XP-G), which is also referred to as xeroderma pigmentosum VII (XP7), a skin disorder characterized by hypersensitivity to UV light and increased susceptibility for skin cancer development following UV exposure. Some patients also develop Cockayne syndrome, which is characterized by severe growth defects, cognitive disability, and cachexia. Read-through transcription exists between this gene and the neighboring upstream BIVM (basic, immunoglobulin-like variable motif containing) gene. [provided by RefSeq, Feb 2011]
Protein Families:	Druggable Genome, Stem cell - Pluripotency, Transcription Factors
Protein Pathways:	Nucleotide excision repair

Product images:



Coomassie blue staining of purified ERCC5 protein (Cat# [TP301994]). The protein was produced from HEK293T cells transfected with ERCC5 cDNA clone (Cat# [RC201994]) using MegaTran 2.0 (Cat# [TT210002]).