

Product datasheet for RC201994L1

OriGene Technologies, Inc.

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XPG (ERCC5) (NM_000123) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: XPG (ERCC5) (NM_000123) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: XPG

Synonyms: COFS3; ERCC5-201; ERCM2; UVDR; XPG; XPGC

Mammalian Cell None

Selection:

Vector:pLenti-C-Myc-DDK (PS100064)E. coli Selection:Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC201994).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_000123

ORF Size: 3558 bp





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OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method: 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

RefSeq: <u>NM 000123.2</u>

 RefSeq Size:
 4091 bp

 RefSeq ORF:
 3561 bp

 Locus ID:
 2073

 UniProt ID:
 P28715

Cytogenetics:

Domains: HhH2, XPG N, XPG I

Protein Families: Druggable Genome, Stem cell - Pluripotency, Transcription Factors

Protein Pathways: Nucleotide excision repair

13q33.1

MW: 133.3 kDa

Gene 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-

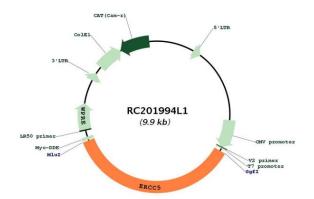
G), which is also referred to as xeroderma pigmentosum VII (XP7), a skin disorder characterized by hypersensitivity to UV light and increased susceptibility for skin cancer development following UV exposure. Some patients also develop Cockayne syndrome, which

is characterized by severe growth defects, cognitive disability, and cachexia. Read-through

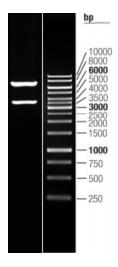
transcription exists between this gene and the neighboring upstream BIVM (basic, immunoglobulin-like variable motif containing) gene. [provided by RefSeq, Feb 2011]



Product images:



Circular map for RC201994L1



Double digestion of RC201994L1 using Sgfl and Mlul $\,$