

### Product datasheet for RC200390L1

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OriGene Technologies, Inc.

# DDB2 (NM\_000107) Human Tagged Lenti ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: DDB2 (NM 000107) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: DDB2

Synonyms: DDBB; UV-DDB2; XPE

Mammalian Cell None

Selection:

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

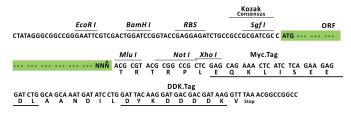
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC200390).

Sequence:

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





st The last codon before the Stop codon of the ORF.

**ACCN:** NM\_000107

ORF Size: 1281 bp





#### DDB2 (NM\_000107) Human Tagged Lenti ORF Clone - RC200390L1

**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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

**RefSeq:** <u>NM 000107.1</u>

RefSeq Size: 1870 bp
RefSeq ORF: 1284 bp
Locus ID: 1643
UniProt ID: Q92466

Cytogenetics: 11p11.2

**Protein Families:** Druggable Genome

**Protein Pathways:** Nucleotide excision repair, p53 signaling pathway, Ubiquitin mediated proteolysis

**MW:** 47.9 kDa

**Gene Summary:** This gene encodes a protein that is necessary for the repair of ultraviolet light-damaged DNA.

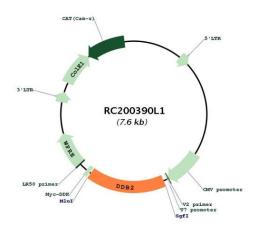
This protein is the smaller subunit of a heterodimeric protein complex that participates in nucleotide excision repair, and this complex mediates the ubiquitylation of histones H3 and H4, which facilitates the cellular response to DNA damage. This subunit appears to be required for DNA binding. Mutations in this gene cause xeroderma pigmentosum complementation group E, a recessive disease that is characterized by an increased

sensitivity to UV light and a high predisposition for skin cancer development, in some cases accompanied by neurological abnormalities. Two transcript variants encoding different

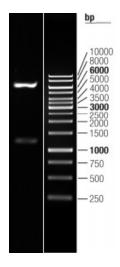
isoforms have been found for this gene. [provided by RefSeq, Jul 2014]



## **Product images:**



Circular map for RC200390L1



Double digestion of RC200390L1 using Sgfl and Mlul  $\,$