

Product datasheet for RC236822

DDB2 (NM 001300734) Human Tagged ORF Clone

Product data:

Symbol:

Product Type: Expression Plasmids

Product Name: DDB2 (NM_001300734) Human Tagged ORF Clone

Tag: Myc-DDK DDB2

Synonyms: DDBB; UV-DDB2; XPE

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Cell Selection: Neomycin

ORF Nucleotide >RC236822 representing NM_001300734 Red=Cloning site Blue=ORF Green=Tags(s) Sequence:

> TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC

> ATGGCTCCCAAGAAACGCCCAGAAACCCAGAAGACCTCCGAGATTGTATTACGCCCCAGGAACAAGAGGA GCAGGAGTCCCCTGGAGCTGGAGCCCGAGGCCAAGAAGCTCTGTGCGAAGGGCTCCGGTCCTAGCAGAAG ATGTGACTCAGACTGCCTCTGGGTGGGGCTGGCCCACAGATCCTGCCACCATGCCGCAGCATCGTC AGGACCCTCCACCAGCATAAGCTGGGCAGAGCTTCCTGGCCATCTGTCCAGCAGGGGCTCCAGCAGTCCT TTTTGCACACTCTGGATTCTTACCGGATATTACAAAAGGCTGCCCCCTTTGACAGGAGGGCTACATCCTT GGCGTGGCACCCAACTCACCCCAGCACCGTGGCTGTGGGTTCCAAAGGGGGAGATATCATGCTCTGGAAT TTTGGCATCAAGGACAAACCCACCTTCATCAAAGGGGCAGCCTGGCATCCTCGCTACAACCTCATTGTTG TGGGCCGATACCCAGATCCTAATTTCAAAAGTTGTACCCCTTATGAATTGAGGACGATCGACGTGTTCGA TGGAAACTCAGGGAAGATGATGTCAGCTCTATGACCCAGAATCTTCTGGCATCAGTTCGCTTAATGAA TTCAATCCCATGGGGGACACGCTGGCCTCTGCAATGGGTTACCACATTCTCATCTGGAGCCAGGAGGAAG CCAGGACACGGAAG

> **ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC236822 representing NM_001300734

Red=Cloning site Green=Tags(s)

MAPKKRPETQKTSEIVLRPRNKRSRSPLELEPEAKKLCAKGSGPSRRCDSDCLWVGLAGPQILPPCRSIV RTLHQHKLGRASWPSVQQGLQQSFLHTLDSYRILQKAAPFDRRATSLAWHPTHPSTVAVGSKGGDIMLWN FGIKDKPTFIKGAAWHPRYNLIVVGRYPDPNFKSCTPYELRTIDVFDGNSGKMMCQLYDPESSGISSLNE FNPMGDTLASAMGYHILIWSQEEARTRK

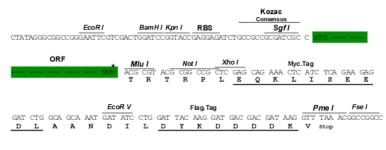
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

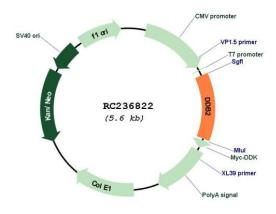
Cloning Scheme:





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

Plasmid Map:



ACCN: NM_001300734

ORF Size: 714 bp



DDB2 (NM_001300734) Human Tagged ORF Clone - RC236822

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 001300734.1</u>, <u>NP 001287663.1</u>

 RefSeq Size:
 1303 bp

 RefSeq ORF:
 717 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: 27.2 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]