

Product datasheet for **RC200390**

DDB2 (NM_000107) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDB2 (NM_000107) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DDB2
Synonyms:	DDBB; UV-DDB2; XPE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC200390 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTCCAAGAAACGCCAGAAACCCAGAAGACCTCCGAGATTGTATTACGCCCCAGGAACAAGAGGA
 GCAGGAGTCCCCTGGAGCTGGAGCCGAGGCCAAGAAGCTCTGTGCGAAGGGCTCCGGTCTAGCAGAAG
 ATGTGACTCAGACTGCCTCTGGGTGGGGCTGGCTGGCCACAGATCCTGCCACCATGCCGAGCATCGTC
 AGGACCTCCACCAGCATAAGCTGGGCAGAGCTTCTGGCCATCTGTCCAGCAGGGGCTCCAGCAGTCTT
 TTTTGCACACTCTGGATTCTTACCGGATATTACAAAAGGCTGCCCCCTTTGACAGGAGGGCTACATCCTT
 GGCGTGGCACCCAACTACCCACGACCCGTGGCTGTGGTTCCAAAGGGGAGATATCATGCTCTGGAAT
 TTTGGCATCAAGGACAAACCCACCTTCATCAAAGGGATTGGAGCTGGAGGGAGCATCACTGGGCTGAAGT
 TTAACCTCTCAATACCAACCAGTTTTACGCCCTCTCAATGGAGGGAACAACCTAGGCTGCAAGACTTTAA
 AGGCAACATTCTACGAGTTTTTCCAGCTCAGACACCATCAACATCTGGTTTTGTAGCCTGGATGTGTCT
 GCTAGTAGCCGAATGGTGGTCACAGGAGACAACGTGGGGAACGTGATCCTGCTGAACATGGACGGCAAAG
 AGCTTTGGAATCTCAGAATGCACAAAAAGAAAGTGACGCATGTGGCCCTGAACCCATGCTGTGATTGGTT
 CCTGGCCACAGCCTCCGTAGATCAAACAGTGAAAATTTGGGACCTGCGCCAGGTTAGAGGGAAAGCCAGC
 TTCCTCTACTCGTGCAGCAGGCATCCTGTCAACGCAGCTTGTTCAGTCCCGATGGAGCCCGGCTCC
 TGACCACGGACCAGAAGAGCGAGATCCGAGTTTACTCTGCTTCCCAGTGGGACTGCCCCCTGGGCCTGAT
 CCCGCACCCTCACCGTCACTTCCAGCACCTCACACCTATCAAGGCAGCCTGGCATCCTCGCTACAACCTC
 ATGTTGTGGGCCGATACCCAGATCCTAATTTCAAAGTTGTACCCCTTATGAATTGAGGACGATCGAGC
 TGTTTCGATGAAACTCAGGGAAGATGATGTGTGAGCTCTATGACCCAGAATCTTCTGGCATCAGTTCGCT
 TAATGAATTCATCCCATGGGGGACAGCTGGCCTCTGCAATGGGTTACCACATTCTCATCTGGAGCCAG
 GAGGAAGCCAGGACACGGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200390 protein sequence
 Red=Cloning site Green=Tags(s)

MAPKKRPETQKTSEIVLRPRNKRSPLELEPEAKKLCAGSGPSRRCDSDCLWVGLAGPQILPPCRSIV
 RTLHQHKLGRASWPSVQQLQSFHLTDSYRILQKAAPFDRRATSLAWHPTHPSTVAVGSKGGDIMLWN
 FGIKDKPTFIKIGAGGSITGLKFNPLNTNQFYASSMEGTTTLQDFKGNILRVFASDITINWFCSLDVS
 ASSRMVVTGDNVGNVILLNMDGKELWNLRMHKKKVTHVALNPCCDWFLATASVDQTVKIWDLRQVRGKAS
 FLYSLPHRHPVNAACFSPDGARLLTTDQKSEIRVYSASQWDCPLGLIPHPHRHFQHLTPIKAAWHPRYNL
 IVVGRYPDPNFKSCTPYELRTIDVFDGNSGKMMQCLYDPESSGISLNEFNPMGDTLASAMGYHILIWSQ
 EEARTRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6082_a11.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_000107

ORF Size: 1281 bp

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: [NM_000107.3](#)

RefSeq Size: 1870 bp

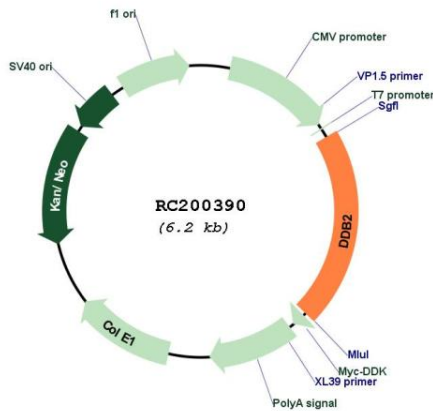
RefSeq ORF: 1284 bp

Locus ID: 1643

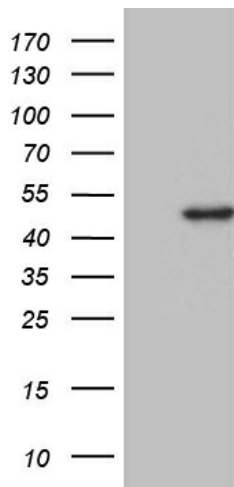
UniProt ID: [Q92466](#)
Cytogenetics: 11p11.2
Protein Families: Druggable Genome
Protein Pathways: Nucleotide excision repair, p53 signaling pathway, Ubiquitin mediated proteolysis
MW: 47.9 kDa

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]

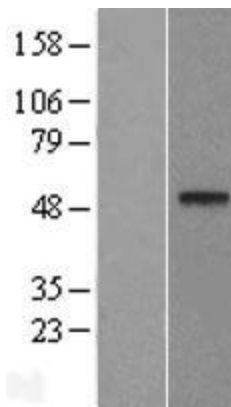
Product images:



Circular map for RC200390



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY DDB2 (Cat# RC200390, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-DDB2 (Cat# [TA810712])(1:500). Positive lysates [LY424922] (100ug) and [LC424922] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY424922]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200390 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).