

## Product datasheet for **RG200390**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DDB2 (NM_000107) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DDB2
Synonyms:	DDBB; UV-DDB2; XPE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200390 representing NM_000107 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCCCAAGAAACGCCAGAAACCCAGAAGACCTCCGAGATTGTATTACGCCCCAGGAACAAGAGGA  
GCAGGAGTCCCCTGGAGCTGGAGCCCGAGGCCAAGAAGCTCTGTGCGAAGGGCTCCGGTCTAGCAGAAG  
ATGTGACTCAGACTGCCTCTGGGTGGGGCTGGCTGGCCCCACAGATCCTGCCACCATGCCGCAGCATCGTC  
AGGACCCTCCACCAGCATAAGCTGGGCAGAGCTTCTGGCCATCTGTCCAGCAGGGGCTCCAGCAGTCTCT  
TTTTGCACACTCTGGATTCTTACCGGATATTACAAAAGGCTGCCCCCTTTGACAGGAGGGCTACATCCTT  
GGCGTGGCACCCAACTACCCCAGCACCGTGGCTGTGGGTTCAAAGGGGGAGATATCATGCTCTGGAA  
TTTGGCATCAAGGACAAACCCACCTTCATCAAAGGGATTGGAGCTGGAGGGAGCATCACTGGGCTGAAGT  
TTAACCTCTCAATACCAACCAGTTTTACGCCTCCTCAATGGAGGGAACAACCTAGGCTGCAAGACTTTAA  
AGGCAACATTCTACGAGTTTTTGGCAGCTCAGACACCATCAACATCTGGTTTTGTAGCCTGGATGTGTCT  
GCTAGTAGCCGAATGGTGGTACAGGAGACAACGTGGGGAACGTGATCCTGCTGAACATGGACGGCAAA  
AGCTTTGGAATCTCAGAATGCACAAAAAGAAAGTACGCATGTGGCCCTGAACCCATGCTGTGATTGGTT  
CCTGGCCACAGCCTCCGTAGATCAAACAGTGAAAATTTGGGACCTGCGCCAGGTTAGAGGAAAGCCAGC  
TTCCTCTACTCGCTGCCGCACAGGCATCCTGTCAACGCAGCTTGTTCAGTCCCAGTGGAGCCCGGCTCC  
TGACCAGGACCAGAAGAGCGAGATCCGAGTTTACTCTGCTTCCAGTGGGACTGCCCCCTGGGCCTGAT  
CCCGCACCTCACCGTCACTTCCAGCACCTCACACCTATCAAGGCAGCCTGGCATCCTCGTACAACCTC  
ATTGTTGTGGCCGATACCCAGATCCTAATTTCAAAGTTGTACCCCTTATGAATTGAGGACGATCGACG  
TGTTTCGATGAAACTCAGGGAAGATGATGTGTCAGCTCTATGACCAGAATCTTCTGGCATCAGTTCGCT  
TAATGAATTCATCCCATGGGGACACGCTGGCCTCTGCAATGGGTTACCACATTCTCATCTGGAGCCAG  
GAGGAAGCCAGGACCGGAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG200390 representing NM\_000107  
Red=Cloning site Green=Tags(s)

MAPKKRPETQKTSEIVLRPNKRSRSPLELEPEAKKLCAGSGPSRRCDSDCLWVGLAGPQILPPCRSIV  
 RTLHQHKLGRASWPSVQQLQQSFLHTLDSYRILQKAAPFDRRATSLAWHPHPSTVAVGSKGGDIMLWN  
 FGIKDKPTFIKIGIGAGGSITGLKFNPLNTNQFYASSMEGTTTLQDFKGNILRVFASDITINIWFCSLDVS  
 ASSRMVVTGDVGNVILLNMDGKELWNLRMHKKKVTHTVALNPPCCDWFLATASVDQTVKIWDLRQVRGKAS  
 FLYSLPHRHPVNAACFSPDGARLLTTDQKSEIRVYSASQWDCPLGLIPHPHRHFQHLTPIKAAWHPRYNL  
 IIVGGRYPDPNFKSCTPYELRTIDVFDGNSGKMMCQLYDPSSGIISSLEFNPMDTLASAMGYHILIWSQ  
 EEARTRK

TRTRPLE - GFP Tag - V

**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.

**RefSeq:** [NM\\_000107.1](#), [NP\\_000098.1](#)

**RefSeq Size:** 1820 bp

**RefSeq ORF:** 1284 bp

**Locus ID:** 1643

**UniProt ID:** [Q92466](#)

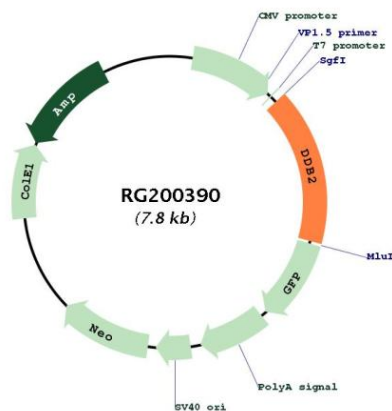
**Cytogenetics:** 11p11.2

**Protein Families:** Druggable Genome

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

**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 RG200390