

Product datasheet for **RC236822**

DDB2 (NM_001300734) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DDB2 (NM_001300734) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: DDB2
Synonyms: DDBB; UV-DDB2; XPE
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236822 representing NM_001300734
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTCCCAAGAAACGCCAGAAACCCAGAAGACCTCCGAGATTGTATTACGCCCCAGGAACAAGAGGA
GCAGGAGTCCCCTGGAGCTGGAGCCCGAGGCCAAGAAGCTCTGTGCGAAGGGCTCCGGTCTAGCAGAAG
ATGTGACTCAGACTGCCTCTGGGTGGGGCTGGCTGGCCACAGATCCTGCCACCATGCCGCAGCATCGTC
AGGACCTCCACCAGCATAAGCTGGGCAGAGCTTCCTGGCCATCTGTCCAGCAGGGGCTCCAGCAGTCCT
TTTTGCACACTCTGGATTCTTACCGGATATTACAAAAGGCTGCCCCCTTGACAGGAGGGCTACATCCTT
GGCGTGGCACCCAACACCCAGCACCCTGGCTGTGGGTTCAAAGGGGGAGATATCATGCTCTGGAAT
TTTGGCATCAAGGACAAACCCACCTTCAAAAGGGGAGCCTGGCATCCTCGCTACAACCTCATTGTTG
TGGGCCGATACCCAGATCCTAATTTCAAAGTTGTACCCCTTATGAATTGAGGACGATCGACGTGTTGCA
TGGAACTCAGGGAAGATGATGTGTCAGCTCTATGACCCAGAATCTTCTGGCATCAGTTCGCTTAATGAA
TTCAATCCCATGGGGACACGCTGGCCTCTGCAATGGGTTACCACATTCTCATCTGGAGCCAGGAGGAAG
CCAGGACACGGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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:	<ol style="list-style-type: none">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_001300734.1 , NP_001287663.1
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]