

## Product datasheet for **RG236822**

### **DDB2 (NM\_001300734) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DDB2 (NM_001300734) 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:	>RG236822 representing NM_001300734. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC
ATGGCTCCAAGAAACGCCAGAAACCCAGAAGACCTCCGAGATTGTATTACGCCCCAGGAACAAGAGG
AGCAGGAGTCCCCTGGAGCTGGAGCCCAGGCCAAGAAGCTCTGTGCGAAGGGCTCCGGTCTTAGCAGA
AGATGTGACTCAGACTGCCTCTGGGTGGGGCTGGCTGGCCACAGATCCTGCCACCATGCCGCAGCATC
GTCAGGACCCCTCCACCAGCATAAGCTGGGCAGAGCTTCTGGCCATCTGTCCAGCAGGGGCTCCAGCAG
TCCTTTTGCACACTCTGGATTCTTACCGGATATTACAAAAGGCTGCCCCCTTTGACAGGAGGGCTACA
TCCTTGCGTGGCACCCAACCTCACCCAGCACCGTGGCTGTGGGTCCAAAGGGGAGATATCATGCTC
TGGAAATTTGGCATCAAGGACAAACCCACCTTCATCAAAGGGGCAGCCTGGCATCCTCGCTACAACCTC
ATTGTTGTGGCCGATACCCAGATCCTAATTTCAAAGTTGTACCCCTTATGAATTGAGGACGATCGAC
GTGTTGATGAAACTCAGGGAAGATGATGTGTGACGCTCTATGACCCAGAATCTTCTGGCATCAGTTG
CTTAATGAATTCATCCCATGGGGACACGCTGGCCTCTGCAATGGGTTACCACATTCTCATCTGGAGC
CAGGAGGAAGCCAGGACACGGAAG
ACCGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



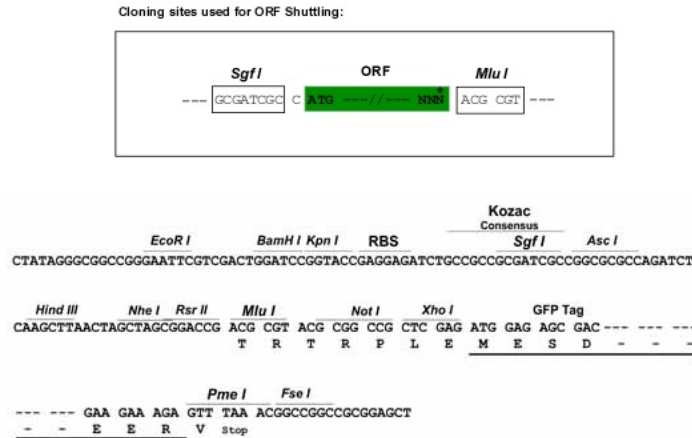
[View online »](#)

**Protein Sequence:** >Peptide sequence encoded by RG236822  
 Blue=ORF Red=Cloning site Green=Tag(s)

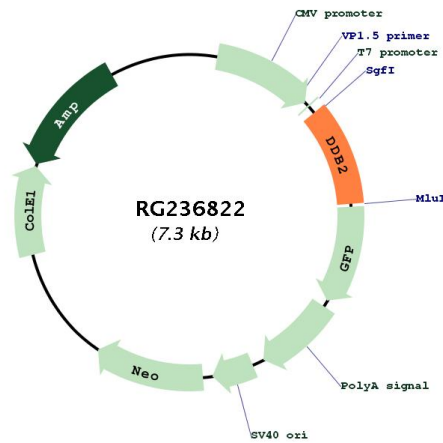
MAPKKRPETQKTSEIVLRRPNKRSRSPLELEPEAKKLCAGSGPSRRCDSDCLWVGLAGPQILPPCRSI  
 VRTLHQHKLGRASWPSVQQGLQQSFLHTLDSYRILQKAAPFDRRATSLAWHPSTVAVGSKGGDIML  
 WNFGIKDKPTFIKGAAWHPRYNLIVVGRYPDPNFKSCTPYELRTIDVFDGNSGKMMCQLYDESSGISS  
 LNEFNPMGDTLASAMGYHILIWSQEEARTRK  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNTAVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001300734

<b>ORF Size:</b>	714 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001300734.1</a> , <a href="#">NP_001287663.1</a>
<b>RefSeq Size:</b>	1303 bp
<b>RefSeq ORF:</b>	717 bp
<b>Locus ID:</b>	1643
<b>UniProt ID:</b>	<a href="#">Q92466</a>
<b>Cytogenetics:</b>	11p11.2
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Nucleotide excision repair, p53 signaling pathway, Ubiquitin mediated proteolysis
<b>MW:</b>	27.2 kDa
<b>Gene Summary:</b>	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]