

Product datasheet for **SC122547**

DDB2 (NM_000107) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDB2 (NM_000107) Human Untagged Clone
Tag:	Tag Free
Symbol:	DDB2
Synonyms:	DDBB; UV-DDB2; XPE
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_000107 edited
TACCCCTTCACACGGAGGACGCGATGGCTCCCAAGAAACGCCAGAAACCCAGAAGACCT
CCGAGATTGTATTACGCCCCAGGAACAAGAGGAGCAGGAGTCCCCTGGAGCTGGAGCCCCG
AGGCCAAGAAGCTCTGTGCGAAGGGCTCCGGTCTAGCAGAAGATGTGACTCAGACTGCC
TCTGGTGGGGCTGGCTGGCCCACAGATCCTGCCACCATGCCGCAGCATCGTCAGGACCC
TCCACCAGCATAAGCTGGGCAGAGCTTCTGGCCATCTGTCCAGCAGGGGCTCCAGCAGT
CCTTTTGCACACTCTGGATTCTTACCGGATATTACAAAAGGCTGCCCCCTTTGACAGGA
GGGTACATCCTTGGCGTGGCACCCAACCTCACCCAGCACCGTGGCTGTGGGTTCCAAAG
GGGAGATATCATGCTCTGGAATTTTGGCATCAAGGACAAACCCACCTTCATCAAAGGA
TTGGAGCTGGAGGGAGCATCACTGGGCTGAAGTTTAAACCCTCTCAATACCAACCAGTTTT
ACGCCCTCTCAATGGAGGGAACAACCTAGGCTGCAAGACTTTAAAGGCAACATTCTACGAG
TTTTTGCAGCTCAGACACCATCAACATCTGGTTTTGTAGCCTGGATGTGTCTGCTAGTA
GCCGAATGGTGGTCACAGGAGACAACGTGGGGAACGTGATCCTGCTGAACATGGACGGCA
AAGAGCTTTGGAATCTCAGAATGCACAAAAGAAAGTGACGCATGTGGCCCTGAACCCAT
GCTGTGATTGGTTCCTGGCCACAGCCTCCGTAGATCAAACAGTAAAATTTGGGACTGC
GCCAGTTAGAGGAAAGCCAGCTTCTCTACTCGCTGCCGCACAGGCATCCTGTCAACG
CAGCTTGTTCAGTCCCAGTGGAGCCCGCTCCTGACCACGGACCAAGAGCGAGATCC
GAGTTTACTCTGCTTCCCAGTGGGACTGCCCCCTGGGCTGATCCCGCACCTCACCGTC
ACTTCCAGCACCTCACACCTATCAAGGCAGCCTGGCATCCTCGCTACAACCTCATTGTTG
TGGGCCGATACCCAGATCCTAATTTCAAAGTTGTACCCCTTATGAATTGAGGACGATCG
ACGTGTTGATGGAACTCAGGGAAGATGATGTGTGAGCTCTATGACCCAGAATCTTCTG
GCATCAGTTCGCTTAATGAATTCATCCCATGGGGACACGCTGGCCTCTGCAATGGGTT
ACCACATCTCATCTGGAGCCAGGAGGAAGCCAGGACACGGAAGTGAGAGACACTAAAGA
AGGTGTGGCCAGACAAGGCCTTGGAGCCACACATGGGATCAAGTCTGCAAGCAGAGG
TGGCGATTTGTTAAAGGGCCAAAAGTATCCAAGTTAGGGTTGGAGCAGGGGTGCTGGGA
CCTGGGGCACTGTGGGACTGGGACACTTTTATGTTAATGCTCTGGACTTGCCTCCAGAGA
CTGCTCCAGAGTTGGTGACACAGCTGTCCCAAGGGCCCTCTGTATCTAGCCTGGAACCA
AGGTTATCTTGGAACTAAATGACTTTTCTCTCTCAGTGGGTGGTAGCAGAGGGATCAAG
CAGTTATTTGATTTGTGCTCACTTTTGATATGGCCAATAAAACCATACCGACTGAAAAA
AAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_000107 unedited
NAAACGACAACATTTGTATACGACTCATATAGGCGGCCGNAATTCGCACGAGGTACCC
CTTCACACGNAGACGCGATGGCTCCCAATAAACGCCATAAAACCCATAAGACCTCCGAGA
TTGTATTACGCCCCAGGAACAAGAGGAGCAGGAGTCCCCTGGAGCTGGAGCCCGAGGCCA
AGAAGCTCTGTGCGAAGGGCTCCGGTCTAGCAGAAGATGTGACTCAGACTGCCTCTGGG
TGGGCTGGCTGGCCCACAGATCCTGCCACCATGCCGCAGCATCGTCAGGACCCCTCACCC
AGCATAAGCTGGGCAGAGCTTCTGGCCATCTGTCCAGCAGGGGCTCCAGCAGTCCTTTT
TGCACACTCTGGATTCTTACCGGATATTACAAAAGGCTGCCCCCTTTGACAGGAGGGCTA
CATCCTTGGCGTGGCACCCAACCTCACCCAGCACCGTGGCTGTGGGTTCCAAAGGGGAG
ATATCATGCTCTGGAATTTTGGCATCAAGGACAAACCCACCTTCATCAAAGGATTGGAG
CTGGAGGGAGCATCACTGGGCTGAAGTTTAAACCCTCTCAATACCAACCAGTTTTACGCT
CCTCAATGGAGGGAACAACCTAGGCTGCAAGACTTTAAAGGCAACATTCTACGAGTTTTTG
CCAGCTCAGACACCATCAACATCTGGTTTTGTAGCCTGGATGTGTCTGCTAGTAGCCGAA
TGGTGGTCACAGGAGACAACGTGGGGAACGTGATCCTGCTGAACATGGACGGCAAAGAGC
TTTGGAATCTCAGAATGCACAAAAGAAAGTGACGCATGTGGCCCTGAACCCATGCTGTG
ATTGGTTCCTGGCCACAGCCTCCGTAGATCAACAGTAAAATTTGGGACTTGCC

Restriction Sites: Please inquire

ACCN: NM_000107

Insert Size: 1700 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_000107.1</u> , <u>NP_000098.1</u>
RefSeq Size:	1820 bp
RefSeq ORF:	1284 bp
Locus ID:	1643
UniProt ID:	<u>Q92466</u>
Cytogenetics:	11p11.2
Protein Families:	Druggable Genome
Protein Pathways:	Nucleotide excision repair, p53 signaling pathway, Ubiquitin mediated proteolysis
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (WT) represents the longer transcript and encodes the longer isoform (WT).</p>