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Product datasheet for SC334716

DDB2 (NM_001300734) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDB2 (NM_001300734) Human Untagged Clone
Tag:	Tag Free
Symbol:	DDB2
Synonyms:	DDBB; UV-DDB2; XPE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001300734, the custom clone sequence may differ by one or more nucleotides

ATGGCTCCCAAGAAACGCCCAGAAACCCAGAAGACCTCCGAGATTGTATTACGCCCCAGGAACAAGAGGA
GCAGGAGTCCCCTGGAGCTGGAGCCCGAGGCCAAGAAGCTCTGTGCGAAGGGCTCCGGTCCTAGCAGAAG
ATGTGACTCAGACTGCCTCTGGGTGGGGCTGGCTGGCCCACAGATCCTGCCACCATGCCGCAGCATCGTC
AGGACCCTCCACCAGCATAAGCTGGGCAGAGCTTCCTGGCCATCTGTCCAGCAGGGGCTCCAGCAGTCCT
TTTTGCACACTCTGGATTCTTACCGGATATTACAAAAGGCTGCCCCCTTTGACAGGAGGGCTACATCCTT
GGCGTGGCACCCAACTCACCCCAGCACCGTGGCTGTGGGTTCCAAAGGGGGAGATATCATGCTCTGGAAT
TTTGGCATCAAGGACAAACCCACCTTCATCAAAGGGGCAGCCTGGCATCCTCGCTACAACCTCATTGTTG
TGGGCCGATACCCAGATCCTAATTTCAAAAGTTGTACCCCTTATGAATTGAGGACGATCGACGTGTTCGA
TGGAAACTCAGGGAAGATGATGTGTCAGCTCTATGACCCAGAATCTTCTGGCATCAGTTCGCTTAATGAA
TTCAATCCCATGGGGGACACGCTGGCCTCTGCAATGGGTTACCACATTCTCATCTGGAGCCAGGAGGAAG
CCAGGACACGGAAGTGA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001300734
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).

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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_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
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] Transcript Variant: This variant (D1) lacks four consecutive alternate exons compared to variant WT, without a reading frame change. The resulting isoform (D1) has the same N- and C-termini but is shorter compared to isoform WT.