

Product datasheet for **SC118946**

DDB1 (NM_001923) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDB1 (NM_001923) Human Untagged Clone
Tag:	Tag Free
Symbol:	DDB1
Synonyms:	DDBA; UV-DDB1; XAP1; XPCE; XPE; XPE-BF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001923, the custom clone sequence may differ by one or more nucleotides

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ATGTCGTACAACACTACGTGGTAACGGCCCAAGAAGCCACCGCCGTGAACGGCTGCGTGACCCGACACTTTA
CTTCGGCCGAAGACTTAAACCTGTTGATTGCCAAAAACACGAGATTAGAGATCTATGTGGTCACCCCGCA
GGGGCTTCGGCCCGTCAAAGAGGTGGGCATGTATGGGAAGATTGCGGTTCATGGAGCTTTTCAGGCCCAAG
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GACCCGCATTATTGGCATCATTGACCCTGAGTGCCGGATGATTGGCCTGCGTCTCTATGATGGCCTTTTC
AAGTTATTCCACTAGATCGCGATAATAAAGAAGCTCAAGGCCCTCAACATCCGCCTGGAGGAGCTGCATG
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AGTGGCTTGCTTGGACATCACCCATTAGGAGACAGCAATGGACTGTCCCCTCTTTGTGCCATTGGCCTC
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GAGAGATCATTCTCGCTCCATCCTGATGACCACCTTTGAGAGTAGCCATTACCTCCTTTGTGCCTTGGG
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AAGCGAGAGGCCACTGCAGACGACCTCATCAAGTTGTGGAGGAGCTAACTCGGATCCATTAG
    
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_001923 unedited
TCACTATTTGTATACGACTCACTATAGGGCGGCCCGCAATTCGCACGAGGCTGGAGGCT
GCAGGGCTGACGGCTCTCCTGGCTCATTAAGGTTCCCTACGGAGAAATACTGTTTTGTG
TTTGAGGTTTGAATTTGTAGAGCAATAGGGGCACTAATAACGTTGGGCAAGCAGACCGGT
GGGCCCTTTGAAGTCTGAAGAATCAACGCTCAAAGGGAGGAGTGTGCGCTCGAGTCCC
GACGGGCCGCTCCAAGCCTCGACATGTCGTACAACCTACGTGGTAACGGCCCAGAAGCCCA
CCGCCGTGAACGGCTGCGTGACCGGACACTTTACTTCGGCCGAAGACTTAAACCTGTTGA
TTGCCAAAACACGAGATTAGAGATCTATGTGGTACCGCCGAGGGGCTTCGGCCCGTCA
AAGAGGTGGGCATGTATGGGAAGATTGCGGTATGGAGCTTTTCAGGCCCAAGGGGGAGA
GCAAGGACCTGCTGTTTATCTTGACAGCGAAGTACAATGCCTGCATCCTGNAGTATAAAC
AGAGTGGCGAGAGCATTGACATCATTACGCGAGCCATGGCAATGTCCAGGACCGCATTG
GCCGCCCTCACAGACCGGCATTATTGGCATCATTGACCCTGAGTGCCGGATGATTGGCC
CTGCGCTCTATGATGGCCTTTTAAAGTTATTTACTAGATCGCGATATAAGAACTCAAGG
CCTTACATCCGCTGGAGGAAGTGCATGCCATGACAGCCAGCTCCTCATTGGTTGCC
AAGCACCTACTATTTGCTTTGGTAAACAAGCCCTCAGGGGCGGGACGTAAAAAATATGA
GGGGTTTTCCGAAAAAGGAATTCTATAAAGGCCCTTTGGAAAAAGGAAAATGTCCAACC
TGAACCTTCTGGGAACGCATACCCCAACACCTTTG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_001923 unedited TCTTTTTTGGTAACTAGAACAAACATTACATCCCCACCTTTTTTTCCAAAAGCAGTTTGCG AGACAAAAGGCTGTGGCGTGGGGATCATCCACCATCTCCAGGTTTTACACCCAGGCTACC CATGGCTTGGCAGTCAGGCCTCTAGGCCTGATGCTCTCAGAGGCAATAGAAGAAAAGTAA AAGGAAGTCTCACTTCACAGACAATGAAACCCCTCCTAACCTCTTCCCCACTACCCACA ACTCCCTACACTGCCAATCTAAATAAAAAAGAGGACAATGCATGAGTGTGAGATACCACAT ACACACACACACATACACACACACACACACACGACAGCTTCCTTTTCAGCCAAAGAAGTGCAAA ATCCTTCCCCGGAAGGAGGACAACCTGGCAACACCAATCAAGGCTTGGTGGTCTAAGGTGA TGGCTGGAATCATGTGAGACTGGTAAAAATCCAGGGAGAAAATGTTTCACCTTCAGCTCA TTCCCAAGTCTCTATGAAGCCCGCCCACTTCCACATAGGGGAAGTGTGGCTCTGGNGGC AGCTGGCTTANGGAAAGGCTCCCATGGCCAAAAAGACNATGGTGGAGAGGGGGGAGG GCANCANGGCANAGCCTTTGNGGAGGGTCAGCAAAGGGGCCNCTGCCCTTGCTAATGG ATCCCAGTAGCTCCTNCACAACCTTGATGAGGTCGTCTGCAGTGGCCTCTCGCTTCATA CCGCTGNCATCGTCATACTGTNAGGGTTGCCACCCTNCTGCATCTTGGGGCGGCTAT ATNCAGNAACTCTCAATCAAGTCACCGTCGATGAAACCTGTNNGCTGGTCTGTCTTTCC GCTCGTGTGAAAGGATCTNCANAANNGATGCTCGATCTNCCCACACTTTGATGACTTTA ATGANTCGATNCTGCATGTCCAGCCAGAAGTTGTACCAGCCTNTGACAGTGAGGTACACAG CCTTTAATGCCGNTGACCGTGCCGAAACCACCGAGCCTGGGTGGGGTGGGAGTCTCA
Restriction Sites:	NotI-NotI
ACCN:	NM_001923
Insert Size:	423 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).
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_001923.2</u> , <u>NP_001914.2</u>
RefSeq Size:	4221 bp
RefSeq ORF:	3423 bp
Locus ID:	1642
UniProt ID:	<u>Q16531</u>
Cytogenetics:	11q12.2
Domains:	CPSF_A

Protein Families:	Druggable Genome
Protein Pathways:	Nucleotide excision repair, Ubiquitin mediated proteolysis
Gene Summary:	<p>The protein encoded by this gene is the large subunit (p127) of the heterodimeric DNA damage-binding (DDB) complex while another protein (p48) forms the small subunit. This protein complex functions in nucleotide-excision repair and binds to DNA following UV damage. Defective activity of this complex causes the repair defect in patients with xeroderma pigmentosum complementation group E (XPE) - an autosomal recessive disorder characterized by photosensitivity and early onset of carcinomas. However, it remains for mutation analysis to demonstrate whether the defect in XPE patients is in this gene or the gene encoding the small subunit. In addition, Best vitelliform macular dystrophy is mapped to the same region as this gene on 11q, but no sequence alternations of this gene are demonstrated in Best disease patients. The protein encoded by this gene also functions as an adaptor molecule for the cullin 4 (CUL4) ubiquitin E3 ligase complex by facilitating the binding of substrates to this complex and the ubiquitination of proteins. [provided by RefSeq, May 2012]</p>