

## Product datasheet for RC208372

### DDB1 (NM\_001923) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DDB1 (NM_001923) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DDB1
Synonyms:	DDBA; UV-DDB1; XAP1; XPCE; XPE; XPE-BF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208372 representing NM_001923 Red=Cloning site Blue=ORF Green=Tags(s)

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**Protein Sequence:** >RC208372 representing NM\_001923  
 Red=Cloning site Green=Tags(s)

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MSYNYVVT AQKPTAVNGCVTGHF TSAEDLNLLIAKNTRLEIYVVTAEGLRPVKEVGMYGKIAVMELFRPK
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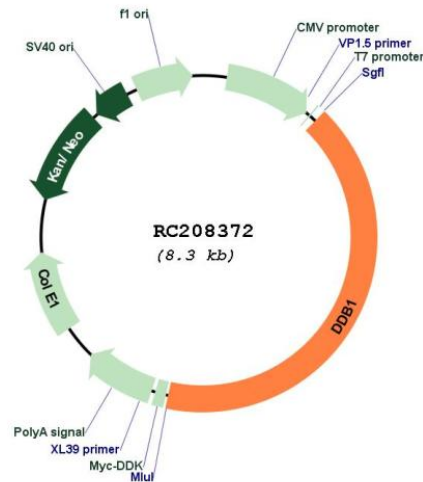
**Chromatograms:** [https://cdn.origene.com/chromatograms/mg3554\\_b01.zip](https://cdn.origene.com/chromatograms/mg3554_b01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_001923

ORF Size: 3420 bp

**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:**

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\\_001923.5](#)

RefSeq Size: 4221 bp

RefSeq ORF: 3423 bp

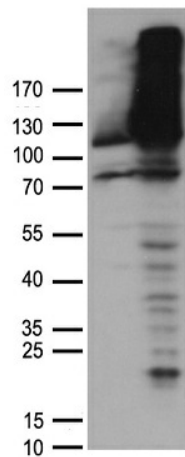
Locus ID: 1642

UniProt ID: [Q16531](#)

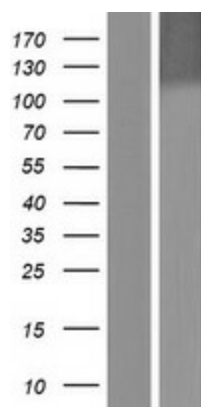
Cytogenetics: 11q12.2

<b>Domains:</b>	CPSF_A
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Nucleotide excision repair, Ubiquitin mediated proteolysis
<b>MW:</b>	126.8 kDa
<b>Gene Summary:</b>	<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>

### Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY DDB1 (Cat# RC208372, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-DDB1 antibody (Cat# [TA890041]). Positive lysates [LY419658] (100ug) and [LC419658] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY419658]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208372 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).