

Product datasheet for **MR225146**

Ddb2 (NM_028119) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ddb2 (NM_028119) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ddb2
Synonyms:	2610043A19Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR225146 representing NM_028119
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCCAAGAAATGCCAGAAACCCAGAAGTCCCCGACGTTGCGGTGCTCCTCAGGAGCAAAGTC
GCAGAGGTCCTCAGGAGCTGGAGCCGAAGCAAGAAGCTGCGTGTGCAGGGTCCCGTTTCTAGCAGGAC
ATGTGAGTCGTGCTGCCTTCTGGCAGAGTTGTCCAGCCTGCAGATCCCTTACGAGTAGCAGCATTGTC
AGGGATCTTTACCAGCATAAGTTGGCAAAAGCCACCTGGTCATCACTACAGCAGGGTCTGCAGAAGTCCT
TTTTGCACTCTAGTCTTACCAGGATTCCGAAAAGCTGCCCTTTGACAGGAGGACTACGTCCTT
GGCATGGCACCAGCTATCCCAGTACCCTGGCTGTGGGCTCAAAGGGGGAGATATTATGATCTGGAAC
TTTGGCATCAAGGACAAACCTATCTTCTTAAAGGGATTGGAGCTGGAGGAAGCATCACTGGGCTGAAGT
TTAACCATCTCAATACCAACCAGTTTTTGCCTCCTCAATGGAGGGAACAACCAGGCTGCAGGATTTTAA
AGGCAACATTCTCAGAGTTTATACCAGCTCAAACCTTGTCAAGGCTGGTTTTGCAGCCTTGATGTTTCT
GCCAAGAGCAGAGTGGTGGTTACAGGAGACAATATGGGACATGTGATCCTGTTGAGCACAGATGGCAAGG
AGCTTTGGAACCTCCGAATGCACAAGAAGAAAGTAGCCACGTGGCCCTGAATCCCTGCTGTGATTGGCT
TCTGGCCACAGCCTCCATAGATCAAACAGTGAAGATTTGGGACCTGCGCCAAATTAAGGGAAAGACAGC
TTCTCTACTCACTGCCTCACAGGCATCCTGTCAATGCAGCTTGTGTTAGCCAGATGGAGCTCGGCTCC
TGACTACTGACCAGAACAATGAGATTCGGGTTTACTCTGCCTCCCAGTGGGATAGCCCCCTGAATCTGAT
CTCCCACCCTCACCGCATTTTTCAGCACCTCACACCCATCAAGGCGACCTGGCATTACGGGCACAACCTC
ATTGTTGTGGGCCGATACCCAGATCCTAATCTTAAAAGTTGTGTTCCCTATGAACAAAGGACAATAGATG
TGTTTGTGAAGCTCAGGGAAGATGATGTGTCAGCTCTATGATCCAGGATACTCCGGTATTACTTCGCT
CAATGAGTTCAATCCTATGGGAGACACACTGGCCTCTACTATGGGTTATCATATTCTCATTGGAGCCAA
GAGGAAGATGGGTCACAGAAAGATCATGAAAGACTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225146 representing NM_028119
Red=Cloning site Green=Tags(s)

MAPKKCPETQKSPDVAVLLRSKSRGPQLEPEAKKLRVQGPVSSRTCESCLLAE LSSLQIPSRSSSIV
RDLYQHKL GKATWSSLQQLQKSF LHS LASYQVFRKAAPFDRRTSLAWHPTHPSTLAVGSKGGDIMIWN
FGIKDKPIFLKGI GAGGSITGLKFNHLNTNQFFASSMEGTTTLQDFKGNILRVYTSNSCKVWFCSLDVS
AKSRVVVTGDNMGHVILLSTDGKELWNLRMHKKKVAHVALNPCCDWLLATASIDQTVKIWDLRQIKGKDS
FLYSLPHRHPVNAACFSPDGARLLTTDQNEIRVYSASQWDSPLNLI SHPHRFQHLTPIKATWHSRHNL
IVVGRYPDPNLKSCVPYELRTIDVFDGSSGKMMCLYDPGYSGITSLNEFNPMGDTLASTMGYHIL IWSQ
EEDGSQKDHREL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

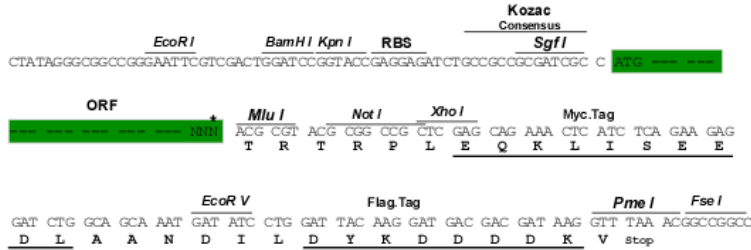
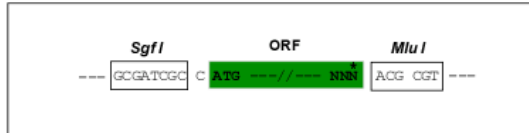
https://cdn.origene.com/chromatograms/mm9038_g06.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_028119

ORF Size: 1296 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_028119.5](#), [NP_082395.2](#)
RefSeq Size: 1929 bp

RefSeq ORF: 1299 bp

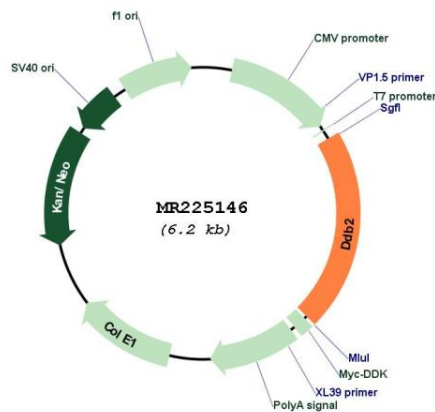
Locus ID: 107986

UniProt ID: [Q99J79](#)
Cytogenetics: 2 E1

MW: 48.8 kDa

Gene Summary: Required for DNA repair. Binds to DDB1 to form the UV-damaged DNA-binding protein complex (the UV-DDB complex). The UV-DDB complex may recognize UV-induced DNA damage and recruit proteins of the nucleotide excision repair pathway (the NER pathway) to initiate DNA repair. The UV-DDB complex preferentially binds to cyclobutane pyrimidine dimers (CPD), 6-4 photoproducts (6-4 PP), apurinic sites and short mismatches. Also appears to function as the substrate recognition module for the DCX (DDB1-CUL4-X-box) E3 ubiquitin-protein ligase complex DDB1-CUL4-ROC1 (also known as CUL4-DDB-ROC1 and CUL4-DDB-RBX1). The DDB1-CUL4-ROC1 complex may ubiquitinate histone H2A, histone H3 and histone H4 at sites of UV-induced DNA damage. The ubiquitination of histones may facilitate their removal from the nucleosome and promote subsequent DNA repair. The DDB1-CUL4-ROC1 complex also ubiquitinates XPC, which may enhance DNA-binding by XPC and promote NER. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225146