

Product datasheet for **RR207574**

Dbp (NM_012543) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dbp (NM_012543) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dbp
Synonyms:	MGC105474
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR207574 representing NM_012543 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCGCCTCTGAGCGACAGGACCCGGGCCCTGCTGCTGGGTGGCCGGCTGGGGCCCCCTG
GCGGGGAGCGCTGCTTGGGCTGAGGAGCCTTCTGCAGGAAACAGCAAGCCAAAGAACCGCCAGCTG
TCTCCTGAAGGAAAAGGAGCGCAAGGCAACTCTGCCCTCAGCCCCGTCCCGGACCCGCTCTGAAACG
GCGGGCCAGCGGATGCCCAACTGGGGCGTTAGTGGCGGTGGTCCCCTCGGGGCGCTCAGGGCCTG
TGCTGGCCCGAGTCTTTTTCGCGCGTCTGTGGGAACGCACCTTGCCTTTCGGGGACGTGGAATACGT
GGACCTGGACGCCTTCTTGTGGAGCACGGCTACCGCCGAGCCCGCCCGGGGGCTGTGCGCCG
GCACCTCTCCAGCGCGCACTCCCGCGCCTCCCCGGGCCCGGCTTTCAGACTCCTTCCCCCGCT
CCTCGCCCGGCACGCCCGCGCGGGCCACTCTGGGAGCCGCGCGGCCACCGCGCAGGCTTGACCTC
TAGGGACACCCAGTCTGTGGACCCAGACACCGTGGAGGTGCTAATGACCTTTGAACCTGATCCGGCT
GATCTTGCCCTGTCAAGCATTCCAGGCCATGAGACTTTTGACCTCGGAGGCACCGCTTCTCAGAGGAGG
AATTGAAGCCTCAGCCAATCATGAAGAAGCAAGGAAAGTCCAGGTGCCCGAGGAACAGAAGGATGAGAA
GTACTGGAGCCGGAGGTACAAGAACAATGAAGCAGCCAAGAGGTGAGAGACGCAAGAAGACTCAAGGAG
AACCAGATATCTGTGCGGCAGCCTTCTGGAGAAGGAAAACGCCCTATTGCGGCAGGAGGTGGTGGCTG
TGCGGCAGGAGCTGTCCCACTACCGTGTGTGCTTTCACGCTACCAGGCCAACACGGGACACTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR207574 representing NM_012543
Red=Cloning site Green=Tags(s)

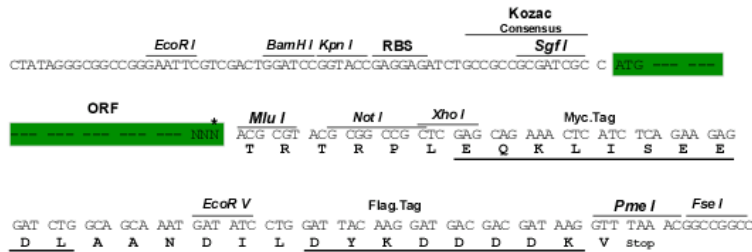
MARPLSDRTPGPLLLGGPAGAPPGGGALLGLRSLQGNPKPEASCLLKEKERKATLPSAPVPGPVLET
 AGPADAPTGAIVSGGSPRGRSGPVAGPSLFAPLLWERTLPFGDVEYVDLDAFLLEHGLPPSPPPGGLSP
 APSPARTPAPSPGPGSCSSSSPRSSPGHAPARATLGAAGGHRAGLTSRDTPSPVDPDTVEVLMTFEPDPA
 DLALSSIPGHETFDRRHRFSEEELKPQIMKKARKVQVPEEQKDEKYWSRRYKNNEAAKRSRDARRLKE
 NQISVRAAFLEKENALLRQEVVAVRQELSHYRAVL.SRYQAQHGTL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_012543

ORF Size: 975 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_012543.3](#), [NP_036675.1](#)

RefSeq Size: 1660 bp

RefSeq ORF: 978 bp

Locus ID: 24309

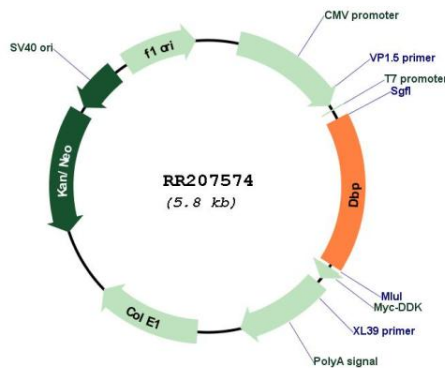
UniProt ID: [P16443](#)

Cytogenetics: 1q22

MW: 34.4 kDa

Gene Summary: The protein encoded by this gene is a member of the Par bZIP transcription factor family and binds to specific sequences in the promoters of several genes, such as albumin, Cyp2a4, and Cyp2a5. The encoded protein can bind DNA as a homo- or heterodimer and is involved in the regulation of some circadian rhythm genes. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2014]

Product images:



Circular map for RR207574