

Product datasheet for **RG214891**

DBF4B (NM_145663) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DBF4B (NM_145663) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DBF4B
Synonyms:	ASKL1; CHIFB; DRF1; ZDBF1B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG214891 representing NM_145663
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGAGCGAACCGGAAAGGGAGACGATTGCCTCGAGCTGGAGAGTTCCATGGCTGAGAGTAGGCTCCGGG
 CCCCGGACCTAGGAGTTTCCAGGTGTCTAGGAAAATGCCAGAAGAACTACCCAGGTGCCAGGAAGCATCC
 CTTTTCCGAAAGTCCTTTACTTGATCTGCCTGCTGGCAAGAATCTCCAGTTTTTACGGGGGCCATT
 CAGCAACTGGGTGGGTAATTGAGGGTTTTCTGAGCAAAGAAAGTAAGTTACATCGTGTCCAGCCGAGAG
 AAGTAAAGGCAGAGAGCAGTGGGAAAAGCCATAGAGGCTGCCCTAGCCCTAGCCCAGTGAGGTCAGAGT
 GGAAACATCGGCCATGGTTGATCCAAAAGGCAGCCACCCAGGCCTTACGGAAACCCGTTGACTCGGTG
 CCTCTAAGCAGAGGGAAGGAGCTGCTGCAGAAGGCTATCAGAAACAGGGGAGCATCAGTGGAGGAGGCA
 GTGGGGGAGCAGCAGCCTCTGACCAATGCCCGCTCTTGGGGAGTGAGGATTCTGCACGTGGATGAAAT
 GATGATGCACGTGCAACAGCTGTCTTTCGCTCTTATGTGTGAAAAACAACAGCCAAAGAAGCCAGAG
 GGAACATGTCCAGCAGCAGAGTCAAGAACACGGAAAGTGCCAGACTGAAGGCCCGTTCTCTCAAAATCG
 AAGATGAAAGCAGGAAGTTTCGTCCTTTCCATCATCAGTTTAAATCCTTTCTGAAATTTCTTTCTTGG
 ACCCAAAGATGCAAGTCCCTTTGAGGCCCGACGACCCTGGGCAGCATGCACCATACCAGAGAATCCAAG
 GATGGAGAGCCAAGCCCACGATCAGTGTCCACACCATGCCAGGAGGAAGAAAGGCTACTGCGAGTGCT
 GTCAGGAGGCCTTCGAGGAGCTCCATGTGCATCTTCAGAGTGGCCAGCACCAGGAGCTTTGCCCTGGAAGC
 CCATCTATATGCAGAAGTGACAGGATCATTGCTCAGCTCAGCCACAGCTTTGCAGACATCCCTTTCCAG
 GCTGGCCTCCCAGGTGGTCAGGTTCCCAGCTTCTGATTGTGACCCTCTCTGTCTGAGACTCTGCACC
 CCCATCAGCCCTCCCATCCCAGGCAGCATCTCCAGGATAAGGAAAGAAGACAGCTGCCAGGCATCAGT
 GACCCAAGGCAGGGCTGCGGGCCAGCAGCGATGGACAGAATCACTAGATGGTGTGATGGGACCTCCTGCA
 AGTCACACATGTGTGAGTGCCACAACCCTCTGCCGGCCTTGCCCAAGGGCTCCAGGGAGCAGGGTGCC
 TCTGTCCCTGCCAGCCTCCTTTACCCAGTCTCATCTGGTCACTTCTTGGCTCTGCTGCTGGGAGTG
 GTCGCCTGCAGAGGACATGCCCCCCTCCATCCCTCCCAAGAAACTCCTTTGCCCGCGGACATTCCTGTT
 AAGGGCCCACTCCTTTCCCTGAAGCCAGACCGTGGCTTATGTCTGCACGCTGCTGGGTTCTGCTCTTC
 CTTTTGTGACATGGGTTGCCTCATTCCCAGTACACACCCCTCTGCATGAGGAAGTTTCCCTTGCCC
 CTGTCTCAGACTTGATACTTTACCTGCTGCTCACACAAAGCCTGTGGTGCCGGGTTGGGTGCCCTCA
 TTGTCAACTGCAGGACCATTCGCCGAACCTCACATCCGTGTACCCTTGCTTCCCTCTATCTCAATG
 ATCATGACCTTGACATCTCTGCCAGGCCAAACCCCAAGGCTGGAACACTCCTCAGCCATTCTCCATTG
 CGGCTTCTGGCTGTAGACTCAGGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG214891 representing NM_145663
 Red=Cloning site Green=Tags(s)

MSEPGKDDCLELESSMAESRLRAPDLGVSRCLGKCQKNSPGARKHPFSGKSFYLDLPAGKNLQFLTGA
 IQLGGVIEGFLSKEVSYIVSSRREVKAESSGKSHRGCPSPSPSEVRVETSAMVDPKGSHPSPSRKPVDSV
 PLSRGKELLQKAIRNQGISGGGSGSSLLTNARSWGVRILHVDEMMHVQQLSLASLCVKKQPKKPE
 GTCPPAESRTRKVARLKAPFLKIEDESFRPFHHQKSFPEISFLGPKDASPFEAPTTLGSMHHTRESK
 DGEPSPRSPAAHTMPRRKGYCECCQEAFFELHVHLQSAQHRSFALEAHLAEVDRIIAQLSHSFADIPFQ
 AGLPRWSGSPASDCDPLCPETLHPHQSPHRAASPRIRKEDSCQASVTQGRAAGQQRWTESLDGVMGPPA
 SHTCVSATTLPLALPKGSREQGCLCPCPASFTQSHLVTSLALLPGEWSPAEDMPLHPSQENSFAPADIPV
 KGPLLFPPEARPWMSARCWVRPFVTVWGLIPHDTPLEHEVSPCPLRLGYLYLLLTQSLWCRVRVPS
 LSTAGPIRTPSHPTLAFPSYLNHDHGLHLCQAKPQGWNTQPFLHCGFLAVDSG

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_145663

ORF Size: 1845 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_145663.3](#)

RefSeq Size: 3081 bp

RefSeq ORF: 1848 bp

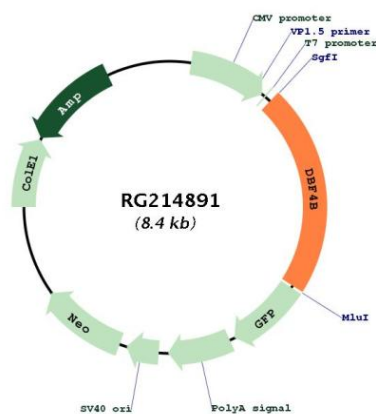
Locus ID: 80174

UniProt ID: [Q8NFT6](#)

Cytogenetics: 17q21

Gene Summary: This gene encodes a regulator of the cell division cycle 7 homolog (*S. cerevisiae*) protein, a serine-threonine kinase which links cell cycle regulation to genome duplication. This protein localizes to the nucleus and, in complex with the cell division cycle 7 homolog (*S. cerevisiae*) protein, may facilitate M phase progression. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2010]

Product images:



Circular map for RG214891