

Product datasheet for **RG206120**

DBF4 (NM_006716) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DBF4 (NM_006716) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DBF4
Synonyms:	ASK; CHIF; DBF4A; ZDBF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG206120 representing NM_006716
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGAACCTCCGAGCCATGAGGATCCACAGTAAAGGACATTTCCAGGGTGGAAATCCAAGTCAAAAATGAAA
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TTCACCTCATCCCAGCCATGATGGAAGTTCATTTAAGTACCAGACACAGTGTGTTAAGCAGAGGAAAA
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CATGGGGAGTAAAAATTTTCATATTGATGACATTAGATACTACATTGAACAAAAAGAAAAAGATTGTA
TTTACTCAAGAAATCAAGTACTTCAGTAAGAGATGGGGGCAAAAGAGTTGGTAGTGGTGCACAAAAACA
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CAGTTCACAAGAGCACCTAACTGTTCAAGCAAAGGCTCCATTCCATACTCCTCCTGAGGAACCCAATGAA
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TTTTTGGGTTTACAAGCTACACAGAAAAGAGTGGTATATGCAATGTTTTAGATATTTGGGAAGAGGAAA
ATTCAGATAATCTGTTAACAGCGTTTTTCTCGTCCCCTTCAACTTCTACATTTACTGGCTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG206120 representing NM_006716
 Red=Cloning site Green=Tags(s)

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MNSGAMRIHSGHFQGGIQVKNEKNRPSLKSLKTDNRPEKSKCKPLWGKVFYLDLPSVTISEKLQKDIKD
LGGRVEEFVLSKDISYLSINKEAKFAQTLGRISPVSPESAYTAETTSPPHSHDGSFSPDVLCLSRGK
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RTGRLKKPFVKVEDMSQLYRPFYQLTNMPFINYSIQKPCSPFDVDPKSSMQQTQVKLRIQTDGDKYGG
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NELRGLNEKMSNKCMLSTAEDDIRQNFQLPLHKNKQECILDISEHTLSENDLEELRVDHYKCNIQASV
HVSDFDSTNSGSPKQKSDTVLFPKDLKEKDLHSIFTHDGLITINSSQEHLTVQAKAPFHTPPEEPNE
CDFKNMDSLPSGKIHRKVKIIILGRNRKENLEPNAEFDKRTEFITQEENRICSSPVQSLDLDFQTSEEKSE
FLGFTSYTEKSGICNVLDIWEENSDNLLTAFFSSPSTSTFTGF
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006716

ORF Size: 2022 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_006716.4](#)

RefSeq Size: 3923 bp

RefSeq ORF: 2025 bp

Locus ID: 10926

UniProt ID: [Q9UBU7](#)

Cytogenetics: 7q21.12

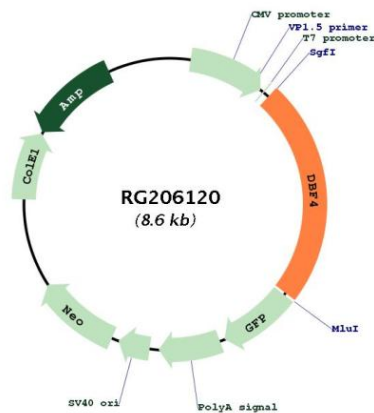
Domains: ZnF_DBF

Protein Families: Druggable Genome

Protein Pathways: Cell cycle

Gene Summary: Regulatory subunit for CDC7 which activates its kinase activity thereby playing a central role in DNA replication and cell proliferation. Required for progression of S phase. The complex CDC7-DBF4A selectively phosphorylates MCM2 subunit at 'Ser-40' and 'Ser-53' and then is involved in regulating the initiation of DNA replication during cell cycle.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG206120