

Product datasheet for **MR222368**

Dbf4 (NM_001190717) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dbf4 (NM_001190717) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dbf4
Synonyms:	AA545217; Ask
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR222368 representing NM_001190717
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAACCTCGAGACCATGAGGATCCACAGCAAAGCACCTCTCCCGGTGGCATCCAAGACAGAAATGAAA
 AGAATCGACCATCCTTGAAATCCCTGAAGGCTGATAATAGACTGGAAAAATCCAAATATAAGCCCTTTG
 GGGAAAAATATTTTACCTTGACTTGCCTTCTATCACCATATGTGAGAAACTACAAAAAGATATAAGGAA
 CTCGGAGGGCGAGTTGAAGAATTTCTCAGCAAAGATATCAGTTATTTTGTTCAAATAAAAAAGGAAGCAA
 AGTATGCACAGACATTGGGTGCGTTTTCTCCTGTACCAAGTCCAGAATCTGCATATACTGCAGAAACCAC
 CTCTCCTCATCCCAGCCATGATGGAAGTTCCTTTAAGTCTCAAGACAGAGTATGTTTGAGCCGAGGAAAA
 TTGTTAGTGA AAAAGCTGTGAAGGATCATGATTTTATTCCTGCTAATAGTATATTATCAAATGCCTTAT
 CATGGGGAGTAAAGATTCTTCATATTGATGACATTCGATACTACATTGAACAGAAGAAGAAAGCACTGAG
 TGCACTCAAGAAATCCAGTGCTTCTGGGAAGGATGCGGGGAAAAAGCTGGTCTGGAATACAAAAGACA
 AGAACAGGGAGACTCAAGAAGCCTTTTTAAAGGTTGAAGATGTGAACCGGTGCTACAGGCCATTTTACC
 TTCAGTCCCCAGTCTGCCGTGATAAACTACTTTCTTCCAGAAGCCCTGCAGTCCGTTTGTATATAGAGAA
 GTCATCCAGCGTCCAGAAACAAGCTCAGCCCAAGCTCAGAATTAATATGGACGGCGATAAATGTGGAACC
 CCAGTTCAACTCCAGTTGAAGGAAAAGAGAAAAAAGGATATTGTGAATGTTGCTTACAGAAATACGAAG
 ATCTCGAAACTCACCTTCTGAGTGAGAAACACAGGAACCTTGCACAGAGTAAACAGTATCAAGTTGTTGA
 TGATATTGTATCTCAGTTAGTTTTCGATTTTGTGGAATATGGAAGAGACACACCTCAAAAGAAAAGAATA
 AGATACAGTGTGCGGTCCCTTTCTTCTGTTTCTGCAATGTCTGAAAAACACTGCACCGAAGGAGAAGC
 CACTCTTGGAGCCCAATTTCCAGAAGGACGTGGGCGAAAGCAGTGGGCACCTGCTCAAGCCGAACCTCA
 GTATGAAGAAACCCAGAAACCTGAAGAAAAGCATGGGTTTGCTTCAGAGCCCAACCTATTCTTCAGCT
 GGATTGAAAGGATGTGACAGGAAACAGTGAAGCATGTTCAATGCAAGTGAAGCTGACCCAGAGCAGGAGT
 ATGCACAGCTACCTCTGCGTGACAGCACACCGGAACACCAAGTGAACCGAGGGTAGAAATGACGGAGAACA
 GAGAGTAGACCCTGCTCCAGGCGTGTGCGAGTCAATGTGGACAAGTTTCTCATCTCAGTACAGAAAGTAA
 CTACCCCAACACAGTTAGCTGCAGACATTACACAGCTTTCAGCAAAAGATCTGCAAGAAAAGGGCTTTC
 ATGTTGTGATAGGTCATGCTTCTGACCTGGTGGCATTAAATACATCAAAAGAGCAGCTAACAAATGAAGGC
 GAGAACTCCACCCTGTAGTCCCCAGGAGCCTCATGAGTGTGACACTGAGAACATGGAGAATTTGCCTTGT
 GGTAAAAATCCAGCGGAAAGTGAGATGCTATTAGGGCAACAGAAAGCAAATGCTGAACCGAGTGTGAAT
 TGGATAAAAAGAGAACTGAGTATCTTCTGCACATGAAGACAGAACTTGTGGGTCAACAGTACAGTCTCT
 ATTGGACCTTTTTTCAGACAAGCGAGGAGAAATCAGAAATTTTGGGTTTTACAGGCTACACTGAAAACAGT
 GGAATATGTGATGTTTTAGATATTTGGGAGGAAGAAAATCAAGTACCCTGTTGTCAACGTTTTTTTCTT
 CCCCTTCAACTTCTGCATTCGTTGGATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222368 representing NM_001190717
Red=Cloning site Green=Tags(s)

MNLETMRIHSKAPLPGGIQDRNEKNRPSLKSLKADNRLEKSKYKPLWGKIFYLDLPSITICEKLQKDIKE
 LGGRVEEFLSKDISYFVSNKKEAKYAQTLGRVSPVSPESAYTAETTSPPHSHDGSFSKSDQDRVCLSRGK
 LLAEKAVKDHDFIPANSILSNALSWGVIKILHIDDIRYYIEQKKKALSALKKSSASGKDAGKKAGPGIQKT
 RTGRLKKPFLKVEDVNRRCYRPFYLLPPLPCINYLQKPCSPFDIEKSSSVQKQAQPKLRINMDGDKCGT
 PVQLQLKEKRKKGYCECLQKYEDLETHLLSEKHRNFAQSNQYQVDDIVSQLVDFVEYGRDTPQKKRI
 RYVSGSLSSVSANVLKNTAPKEKPLLEPNFQKDVGESSGHLLKPNQYEEETQKPEEKHGFASEPTTYSSA
 GLKGCDRKPVSMFNASEPDPQEYAYQLPLRDSTPEHQVTEGRNDGEQRVDPAPGVSQSCGQVSHLSTESN
 LPQPQLAADITQLSAKDLQEKGFHVIGHASDLVALNTSKEQLTMKARTPPCSPQEPHECDTENMENLPC
 GKIQRKVRMLLGQQKANAEPSEALDKRTEYLP AHEDRTCSPVQSLDLDFQTSEEKSEFLGFTGYTENS
 GICDVLDIWEEENSSTLLSTFFSSPSTSAFVGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001190717

ORF Size: 1986 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_001190717.1](#), [NP_001177646.1](#)

RefSeq Size: 2441 bp

RefSeq ORF: 1989 bp

Locus ID: 27214

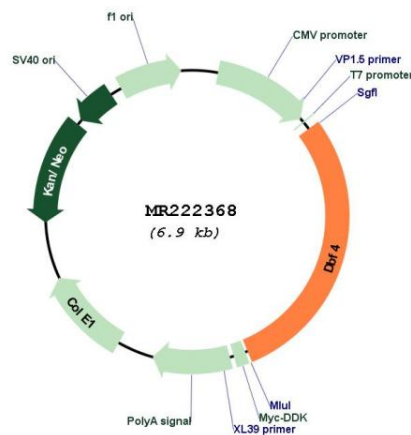
UniProt ID: [Q9QZ41](#)

Cytogenetics: 5 A1

MW: 74.6 kDa

Gene Summary: Regulatory subunit for CDC7 which activates its kinase activity thereby playing a central role DNA in 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 MR222368