

## Product datasheet for **MR222369**

### Dbf4 (NM\_013726) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dbf4 (NM_013726) 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)



[View online »](#)

ORF Nucleotide  
Sequence:

>MR222369 representing NM\_013726  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGAACCTCGAGACCATGAGGATCCACAGCAAAGCACCTCTCCCGGTGGCATCCAAGACAGAAATGAAA  
AGAATCGACCATCCTTGAAATCCCTGAAGGCTGATAATAGACTGGAAAAATCCAAATATAAGCCCTTTG  
GGAAAAATATTTTACCTTGACTTGCCCTCTATCACCATATGTGAGAAACTACAAAAAGATATAAAGGAA  
CTCGGAGGGCGAGTTGAAGAATTTCTCAGCAAAGATATCAGTTATTTTGTTCAAATAAAAAAGGAAGCAA  
AGTATGCACAGACATTGGGTGCGTTTTCTCCTGTACCAAGTCCAGAATCTGCATATACTGCAGAAACCAC  
CTCTCCTCATCCCAGCCATGATGGAAGTTCCTTTAAGTCTCAAGACAGAGTATGTTTGAGCCGAGGAAAA  
TTGTTAGTGA AAAAGCTGTGAAGGATCATGATTTTATTCCTGCTAATAGTATATTATCAAATGCCTTAT  
CATGGGGAGTAAAGATTCTTCATATTGATGACATTCGATACTACATTGAACAGAAGAAGAAAGCACTGAG  
TGCACTCAAGAAATCCAGTGCTTCTGGGAAGGATGCGGGGAAAAAGCTGGTCTGGAATACAAAAGACA  
AGAACAGGGAGACTCAAGAAGCCTTTTTAAAGGTTGAAGATGTGAACCGGTGCTACAGGCCATTTTACC  
TTCAGCTCCCCAGTCTGCCGTGTATAAACTACTTTCTTCCAGAAGCCCTGCAGTCCGTTTGTATATAGAGAA  
GTCATCCAGCGTCCAGAAACAAGCTCAGCCCAAGCTCAGAATTAATATGGACGGCGATAAATGTGGAACC  
CCAGTTCAACTCCAGTTGAAGGAAAAGAGAAAAAAGGATATTGTGAATGTTGCTTACAGAAATACGAAG  
ATCTCGAAACTCACCTTCTGAGTGAGAAACACAGGAACCTTGCACAGAGTAAACAGTATCAAGTTGTTGA  
TGATATTGTATCTCAGTTAGTTTTCGATTTTGTGGAATATGGAAGAGACACACCTCAAAAGAAAAGAATA  
AGATACAGTGTGCGGTCCCTTTCTTCTGTTTCTGCAAAATGCTGAAAAACACTGCACCGAAGGAGAAGC  
CACTCTTGGAGCCCAATTTCCAGAAGGACGTGGGCGAAAGCAGTGGGCACCTGCTCAAGCCGAACCTCTCA  
GTATGAAGAAACCCAGAAACCTGAAGAAAAGCATGGGTTTGCTTCAGAGCCCAACCTATTCTTCAGCT  
GGATTGAAAGGATGTGACAGGAAACAGTGAAGTGTTCATGCAAGTGAAGTGAAGTGAAGTGAAGTGAAGT  
ATGCACAGCTACCTCTGCGTGACAGCACACCGGAACACCAAGTGAACCGAGGGTAGAAATGACGGAGAACA  
GAGAGTAGACCCTGCTCCAGGCGTGTGCGAGTCAATGTGGACAAGTTTCTCATCTCAGTACAGAAAGTAA  
CTACCCCAACACAGTTAGCTGCAGACATTACACAGCTTTCAGCAAAAGATCTGCAAGAAAAGGGCTTTC  
ATGTTGTGATAGGTCATGCTTCTGACCTGGTGGCATTAAATACATCAAAAGAGCAGCTAACAAATGAAGGC  
GAGAACTCCACCCTGTAGTCCCCAGGAGCCTCATGAGTGTGACACTGAGAACATGGAGAATTTGCCTTGT  
GGTAAAAATCCAGCGGAAAGTGAGATGCTATTAGGGCAACAGAAAGCAAATGCTGAACCGAGTGTGAAT  
TGGATAAAAAGAGAACTGAGTATCTTCTGACATGAAGACAGAACTTGTGGGTCAACAGTACAGTCTCT  
ATTGGACCTTTTTAGACAAGCGAGGAGAAATCAGAAATTTTGGGTTTTACAGGCTACACTGAAAACAGT  
GGAATATGTGATGTTTTAGATATTTGGGAGGAAGAAAATCAAGTACCCTGTTGTCAACGTTTTTTTCTT  
CCCCTTCAACTTCTGCATTCGTTGGATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR222369 representing NM\_013726  
 Red=Cloning site Green=Tags(s)

MNLETMRIHSKAPLPGGIQDRNEKNRPSLKSLKADNRLEKSKYKPLWGKIFYLDLPSITICEKLQKDIKE  
 LGGRVEEFLSKDISYFVSNKKEAKYAQTLGRVSPVSPESAYTAETTSPHPSHDGSSFKSQDRVCLSRGK  
 LLAEKAVKDHDFIPANSILSNALSWGVIKILHIDDIRYYIEQKKALSALKKSSASGKDAGKKAGPGIQKT  
 RTGRLKKPFLKVEDVNRRCYRPFYLLQPLSLPCINYFLQKPCSPFDIEKSSSVQKQAQPKLRINMDGDKCGT  
 PVQLQLKEKRKKGYCECCLQKYEDLETHLLSEKHRNFAQSNQYQVVDIVSQLVDFVEYGRDTPQKKRI  
 RYSVGSLSSVSANVLKNTAPKEKPLEPNFQKDVGESSGHLLKPNSQYEETQKPEEKHGFASEPTTYSSA  
 GLKGCDRKPVSMFNASEPDPQEYAYQLPLRDSTPEHQVTEGRNDGEQRVDPAPGVQSQCGQVSHLSTESN  
 LPQPQLAADITQLSAKDLQEKGFHVIGHASDLVALNTSKEQLTMKARTPPCSPQEPHECDTENMENLPC  
 GKIQRKVRMLLGQQKANAEPSELDKKRTEYLP AHEDRTC GSPVQSLDLDFQTSEEKSEFLGFTGYTENS  
 GICDVLDIWEEENSSTLLSTFFSSPSTSAFVGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9034\\_f01.zip](https://cdn.origene.com/chromatograms/mm9034_f01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_013726

**ORF Size:** 1989 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\\_013726.3](#), [NP\\_038754.1](#)

**RefSeq Size:** 2444 bp

**RefSeq ORF:** 1992 bp

**Locus ID:** 27214

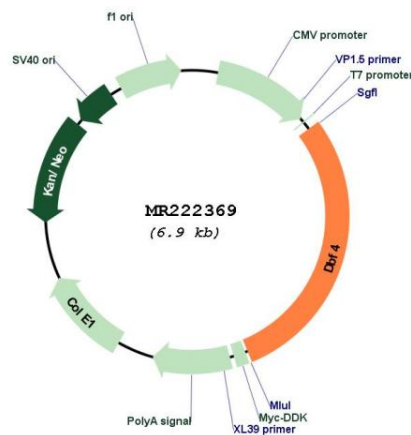
**UniProt ID:** [Q9QZ41](#)

**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 MR222369