

Product datasheet for **MC220248**

Dbf4 (NM_013726) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dbf4 (NM_013726) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dbf4
Synonyms:	AA545217; Ask
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC220248 representing NM_013726
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAACCTCGAGACCATGAGGATCCACAGCAAAGCACCTCTCCCGGTGGCATCCAAGACAGAAATGAAA
 AGAATCGACCATCCTTGAAATCCCTGAAGGCTGATAATAGACTGGAAAAATCCAAATATAAGCCCTTTG
 GGGAAAAATATTTTACCTTGACTTGCCCTCTATCACCATATGTGAGAAACTACAAAAAGATATAAGGAA
 CTCGGAGGGCGAGTTGAAGAATTTCTCAGCAAAGATATCAGTTATTTTGTTCAAATAAAAAAGGAAGCAA
 AGTATGCACAGACATTGGGTGCGTTTTCTCCTGTACCAAGTCCAGAATCTGCATATACTGCAGAAACCAC
 CTCTCCTCATCCCAGCCATGATGGAAGTTCCTTTAAGTCTCAAGACAGAGTATGTTTGAGCCGAGGAAAA
 TTGTTAGTGA AAAAGCTGTGAAGGATCATGATTTTATTCCTGCTAATAGTATATTATCAAATGCCTTAT
 CATGGGGAGTAAAGATTCTTCATATTGATGACATTCGATACTACATTGAACAGAAGAAGAAAGCACTGAG
 TGCCTCAAGAAATCCAGTGCTTCTGGGAAGGATGCGGGGAAAAAGCTGGTCTGGAATACAAAAGACA
 AGAACAGGGAGACTCAAGAAGCCTTTTTAAAGGTTGAAGATGTGAACCGGTGCTACAGGCCATTTTACC
 TTCAGTCTCCCGAGTCTGCCGTGTATAAACTACTTTCTTCAAGAGCCCTGCAGTCCGTTTGTATAGAGAA
 GTCATCCAGCGTCCAGAAACAAGCTCAGCCCAAGCTCAGAATTAATATGGACGGCGATAAATGTGGAACC
 CCAGTTCAACTCCAGTTGAAGGAAAAGAGAAAAAAGGATATTGTGAATGTTGCTTACAGAAATACGAAG
 ATCTCGAAACTCACCTTCTGAGTGAGAAACACAGGAACCTTGCACAGAGTAAACAGTATCAAGTTGTTGA
 TGATATTGTATCTCAGTTAGTTTTCGATTTTGTGGAATATGGAAGAGACACACCTCAAAAGAAAAGAATA
 AGATACAGTGTGGGTCCTTTCTTCTGTTTCTGCAATGTCTGAAAAACTGCACCGAAGGAGAAGC
 CACTCTTGGAGCCCAATTTCCAGAAGGACGTGGGCGAAAGCAGTGGGCACCTGCTCAAGCCGAACCTCA
 GTATGAAGAAACCCAGAAACCTGAAGAAAAGCATGGGTTTGTCTCAGAGCCACAACCTATTCTTCAGCT
 GGATTGAAGGATGTGACAGGAAACAGTGAAGTGTTCATGCAAGTGAAGTGAAGTGAAGTGAAGTGAAGT
 ATGCACAGCTACCTCTGCGTGACAGCACACCGGAACACCAAGTGAAGTGAAGTGAAGTGAAGTGAAGT
 GAGAGTAGACCCTGCTCCAGGCGTGTGCGAGTCAATGGGACAAGTTTCTCATCTCAGTACAGAAAGTAAT
 CTACCCCAACACAGTTAGTGCAGACATTACACAGCTTTCAGCAAAAGATCTGCAAGAAAAGGGCTTTC
 ATGTTGTGATAGGTCATGCTTCTGACCTGGTGGCATTAAATACATCAAAAGAGCAGCTAACAAATGAAGGC
 GAGAACTCCACCCTGTAGTCCCCAGGAGCCTCATGAGTGTGACACTGAGAACATGGAGAATTTGCCTTGT
 GGTAAAAATCCAGCGGAAAGTGAAGTGTATTAGGGCAACAGAAAGCAAATGCTGAACCGAGTGTGAAT
 TGGATAAAAAGAGAACTGAGTATCTTCTGACATGAAGACAGAACTTGTGGGTACACAGTACAGTCTCT
 ATTGGACCTTTTTCAGACAAGCGAGGAGAAATCAGAATTTTTGGGTTTTACAGGCTACACTGAAAACAGT
 GGAATATGTGATGTTTTAGATATTTGGGAGGAAAGAAAATCAAGTACCCTGTTGTCAACGTTTTTTTCTT
 CCCCTTCAACTTCTGCATTCTGGATT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_013726
- Insert Size:** 1992 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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

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]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).