

Product datasheet for **MC220247**

Dbf4 (NM_001190717) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Dbf4 (NM_001190717) 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: >MC220247 representing NM_001190717
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAACCTCGAGACCATGAGGATCCACAGCAAAGCACCTCTCCCGGTGGCATCCAAGACAGAAATGAAA
 AGAATCGACCATCCTTGAAATCCCTGAAGGCTGATAATAGACTGGAAAAATCCAAATATAAGCCCTTTG
 GGGAAAAATATTTTACCTTGACTTGCCCTCTATACCATATGTGAGAAACTACAAAAAGATATAAGGAA
 CTCGGAGGGCGAGTTGAAGAATTTCTCAGCAAAGATATCAGTTATTTTGTTCAAATAAAAAGGAAGCAA
 AGTATGCACAGACATTGGGTGCGTTTTCTCCTGTACCAAGTCCAGAATCTGCATATACTGCAGAAACCAC
 CTCTCCTCATCCCAGCCATGATGGAAGTTCCTTAAAGTCTCAAGACAGAGTATGTTTGAGCCGAGAAAA
 TTGTTAGTGTAAAAAGCTGTGAAGGATCATGATTTTATTCCTGCTAATAGTATATTATCAAATGCCTTAT
 CATGGGGAGTAAAGATTCTTCATATTGATGACATTCGATACTACATTGAACAGAAGAAGAAAGCACTGAG
 TGCACTCAAGAAATCCAGTGCTTCTGGGAAGGATGCGGGGAAAAAAGCTGGTCTGGAATACAAAAGACA
 AGAAGGAGACTCAAGAAGCCTTTTTTAAAGGTTGAAGATGTGAACCGGTGCTACAGGCCATTTTACCTTC
 AGCTCCCCAGTCTGCCGTGTATAAACTACTTTCTTCAGAAGCCCTGCAGTCCGTTTGATATAGAGAAGTC
 ATCCAGCGTCCAGAAACAAGCTCAGCCCAAGCTCAGAATTAATATGGACGGCGATAAATGTGGAACCCCA
 GTTCAACTCCAGTTGAAGGAAAAGAGAAAAAAGGATATTGTGAATGTTGCTTACAGAAATACGAAGATC
 TCGAAACTCACCTTCTGAGTGAGAAACACAGGAACCTTGCACAGAGTAACCAAGTCAAGTTGTTGATGA
 TATTGTATCTCAGTTAGTTTTCGATTTTGTGGAATATGGAAGAGACACACCTCAAAGAAAAAGAAATAAGA
 TACAGTGTGGGTCCTTTCTTCTGTTTCTGCAAAATGCTCTGAAAAACTGCACCGAAGGAGAAGCCAC
 TCTTGGAGCCCAATTTCCAGAAGGACGTGGGCGAAAGCAGTGGGCACCTGTCAAGCCGAACCTCTCAGTA
 TGAAGAAACCCAGAAACCTGAAGAAAAGCATGGGTTTGCTTCAGAGCCCAACCTATTCTTCAGCTGGA
 TTGAAAGGATGTGACAGGAAACCAGTGAGCATGTTCAATGCAAGTGAGCCTGACCCAGAGCAGGAGTATG
 CACAGCTACCTCTGCGTGACAGCACACCCGGAACACCAAGTGACCGAGGGTAGAAATGACGGAGAACAGAG
 AGTAGACCCTGCTCCAGGCGTGTGCGAGTCATGTGGACAAGTTTCTCATCTCAGTACAGAAAGTAATCTA
 CCCCACACAGTTAGCTGCAGACATTACACAGCTTTCAGCAAAAGATCTGCAAGAAAAGGGCTTTCATG
 TTGTGATAGGTGCTTCTGACCTGGTGGCATTAAATACATCAAAGAGCAGCTAACAATGAAGGGCAG
 AACTCCACCCTGTAGTCCCAGGAGCCTCATGAGTGTGACACTGAGAACATGGAGATTTGCCTTGTGGT
 AAAATCCAGCGGAAAGTGAAGTGTATTAGGGCAACAGAAAGCAAATGTGAACCGAGTGTGAATTGG
 ATAAAAAGAGAACTGAGTATCTTCTGCACATGAAGACAGAACTGTGGGTCAACAGTACAGTCTCTATT
 GGACCTTTTTTCAGACAAGCGAGGAGAAATCAGAATTTTTGGGTTTTACAGGCTACACTGAAAACAGTGG
 ATATGTGATGTTTATGATATTTGGGAGGAAGAAAATCAAGTACCTGTTGTCAACGTTTTTTCTTCCC
 CTTCAACTTCTGCATTGTTGGATTT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001190717
- Insert Size:** 1989 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_001190717.1](#), [NP_001177646.1](#)

RefSeq Size: 2441 bp

RefSeq ORF: 1989 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 (2) uses an alternate in-frame splice site in the coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.