

Product datasheet for **SC108298**

DBF4 (NM_006716) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DBF4 (NM_006716) Human Untagged Clone
Tag:	Tag Free
Symbol:	DBF4
Synonyms:	ASK; CHIF; DBF4A; ZDBF1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC108298 sequence for NM_006716 edited (data generated by NextGen Sequencing)

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ATGAACTCCGGAGCCATGAGGATCCACAGTAAAGGACATTTCCAGGGTGGAAATCCAAGTC
AAAAATGAAAAAACAGACCATCTCTGAAATCTCTGAAAACGATAACAGGCCAGAAAA
TCCAAATGTAAGCCACTTTGGGGAAAAGTATTTTACCTTGACTTACCTTCTGTCACCATA
TCTGAAAACTTCAAAAGGACATTAAGGATCTGGGAGGGCGAGTTGAAGAATTTCTCAGC
AAAGATATCAGTTATCTTATTTCAAATAAGAAGGAAGCTAAATTTGCACAAACCTTGGGT
CGAATTTCTCCTGTACCAAGTCCAGAATCTGCATATACTGCAGAAACCACTTACCTCAT
CCCAGCCATGATGGAAGTTCATTTAAGTACCAGACACAGTSTGTTTAAGCAGAGGAAAA
TTATTAGTTGAAAAAGCTATCAAGGACCATGATTTTATTCCTTCAAATAGTATATTATCA
AATGCCTTGTCATGGGGAGTAAAAATTCTTCATATTGATGACATTAGATACTACATTGAA
CAAAAGAAAAAGAGTTGTATTTACTCAAGAAATCAAGTACTTCAGTAAGAGATGGGGGC
AAAAGAGTTGGTAGTGGTGCACAAAAACAAGAACAGGAAGACTCAAAAAGCCTTTTGTA
AAGGTGGAAGATATGAGCCAACCTTATAGGCCATTTTATCTTCAGCTGACCAATATGCCT
TTTATAAATTATCTATTGAGAAGCCCTGCAGTCCATTTGATGTAGACAAGCCATCTAGT
ATGCAAAAGCAAACCTCAGGTTAAACTAAGAATCCAAACAGATGGCGATAAGTATGGTGG
ACCTCAATTCAACTCCAGTTGAAAGAGAAGAAGAAAAAGGATATTGTGAATGTTGCTTG
CAGAAATATGAAGATCTAGAAACTCACCTTCTAAGTGAGCAACACAGAACTTTGCACAG
AGTAACCGATATCAAGTTGTTGATGATATTGTATCTAAGTTAGTTTTGACTTTTGTGGAA
TATGAAAAGGACACACCTAAAAAGAAAAGAAATAAAATACAGTGTGGATCCCTTTCTCCT
GTTTCTGCAAGTGCCTGAAAAAGACTGAACAAAAGGAAAAAGTGAATTGCAACATATT
TCTCAGAAAGATTGCCAGGAAGATGATACAACAGTGAAGGAGCAGAATTTCTGTATAAA
GAGACCCAGGAACTGAAAAAAGCTCCTGTTTTATTTTCAGAGCCCATCCCCACCCTTCA
AATGAATTGAGAGGGCTTAATGAGAAAATGAGTAATAAATGTTCCATGTTAAGTACAGCT
GAAGATGACATAAGACAGAATTTTACACAGCTACCTCTACATAAAAAACAAACAGGAATGC
ATTCTTGACATTTCCGAACACACATTAAGTGAATGACTTAGAAGAATAAGGGTAGAT
CACTATAAATGTAACATACAGGCATCTGTACATGTTTCTGATTTTCAGTACAGATAATAGT
GGATCTCAACCAAAACAGAAGTCAGATACTGTGCTTTTTCCAGCAAAGGATCTCAAGGAA
AAGGACCTTCAATATTTACTCATGATTCTGGTCTGATAACAATAAACAGTTCACAA
GAGCACCTAACTGTTTCAGGCAAAGGCTCCATTCCATACTCCTCCTGAGGAACCAATGAA
TGTGACTTCAAGAATATGGATAGTTTACCTTCTGGTAAAATACATCGAAAAGTGAATA
ATATTAGGACGAAATAGAAAAGAAAATCTGGAACCAATGCTGAATTTGATAAAAGAACT
GAATTTATTACACAAGAAGAAAACAGAATTTGTAGTTCACCGGTACAGTCTTTACTAGAC
TTGTTTCAGACTAGTGAAGAGAAATCAGAATTTTTGGGTTTCACAAGCTACACAGAAAAG
AGTGGTATATGCAATGTTTTAGATATTTGGGAAGAGGAAAATTCAGATAATCTGTTAAACA
CGGTTTTTCTCGTCCCCTTCAACTTCTACATTTACTGGCTTTTAG
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Clone variation with respect to NM_006716.3
402 g=>s

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_006716 unedited TTGGTCAGAATTTGTATACGACTCACTATAGGCGGCCGCGATTCCGGCACGAGAAAGAGAG AGGCGGCCGTCCTGTCAACAGGCCGGGGGAAGCCGTGCTTTCGCGGCTGCCCGGTGCGAC ACTTTCTCCGGACCCAGCATGTAGGTGCCGGGCGACTGCCATGAACTCCGGAGCCATGAG GATCCACAGTAAAGGACATTTCCAGGGTGAATCCAAGTCAAAAATGAAAAAACAGACC ATCTCTGAAATCTCTGAAAACGATAACAGGCCAGAAAAATCCAATGTAAGCCACTTTG GGGAAAAGTATTTTACCTTGACTTACCTTCTGTCAACATATCTGAAAAACTTCAAAGGA CATTAAAGGATCTGGGAGGGCGAGTTGAAGAATTTCTCAGCAAAGATATCAGTTATCTTAT TTCAAATAAGAAGGAAGCTAAATTTGCACAAACCTTGGGTGCAATTTCTCCTGTACCAAG TCCAGAATCTGCATATACTGCAGAAACCACTTCACCTCATCCCAGCCATGATGGAAGTTC ATTTAAGTCACCAGACACAGTCTTTTTATAGGTGTGTTAAGCAGAGGAAAATTATTAGT TGAAAAAGCTATCAAGGACCATGATTTTATTCCTTCAAATAGTATATTATCAAATGCCTT GTCATGGGGAGTAAAAATCTTCATATTGATGACATTAGATACTACATTGAACAAAAGAA AAAAGAGTTGATTTACTCAAGAAATCAAGTACTTCAGTAAGAGATGGGGCAAAAAGAGT TGGTAGTGGTGCACAAAANNACAGAACAGGAAGACTCANAAAGCCTTTTGAANGGTGGA AGATATGAGCCCACTTATAGGGCAATTTATCTTCAGCTGACCATATGCCTTTATNAANTA TNCTATCAGAAGCCTGCAGTCATNTGATGTGAA</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_006716 unedited GGCCCTACTGTGNACCGCGNCCGCTATTTNANGATCGNGTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTAATGTAACAAAACAAACAGTCACAAGTTTATTCTGTAATTTTCTTTAACAG GTATTCATTTCTGTAATAAATTGCAAAATTTTATTTTTAATTTTACATTTGGGTCTGTA AACAAAGCTGGTAAAAAATCCTAAAAATTTCCATACATATTTATAAAAAATTTCAAGAAT ATGATCCTTATCACTTCTGAAAAGTATGCATTTTTTAAATTCTAAAAGCCAGTAAATGTA AAAGTTGAAGGGGACGAAAAAACGCTGTTAACAGATTATCTGAATTTTCTCTTCCCAA ATATCTAAAACATTGCATATACCACTCTTTTCTGTGTAGCTTGTGAAACCCAAAAATTTCT GATTTCTCTTCACTAGTCTGAAACAAGTCTAGTAAAGACTGTACCGGTGAACTACAAATT CTGTTTTCTTCTGTGTAATAAATTCAGTTCTTTTATCAAATTCAGCATTTGGTTCCAGA TTTTCTTTTCTATTTCTGCTCAATATTTTCACTTTTTCGATGATTTTACCAGAAGGT AAACATCCATATTTGAGAGTCACATTCATTGGGTTCCCTCAGGAGGAGTATGGAATGGA GCCTTTGCCTGAACAGTTAGGTGCTCTTGTGAAGTGTATTGTTATCAGACCAGAATCA TGAGTAAATATTGAATGAAGTCTTTTCTTGAGATCCTTTGCTGGAAAAACACAGTAT CTGACTTCTGTTTGGTTGAGATCCACTATTATCTGTAAGTAAATCAGNACATGTACAGA TGCCTGTATGTTACATTTATAGNGATCTACCCTTAGNTNCTTCTAGNNCATTNTCACTTA ATGNGNNGTCCGAAAATGTCAAGATGCATTCTGNTTGTGTTTATGG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_006716
Insert Size:	2710 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:	<ol style="list-style-type: none">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:	<u>NM_006716.3, NP_006707.1</u>
RefSeq Size:	3923 bp
RefSeq ORF:	2025 bp
Locus ID:	10926
UniProt ID:	<u>Q9UBU7</u>
Cytogenetics:	7q21.12
Domains:	ZnF_DBF
Protein Families:	Druggable Genome
Protein Pathways:	Cell cycle
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>