

## Product datasheet for **SC315449**

### UBF1 (UBTF) (NM\_001076683) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                             |
| Product Name:             | UBF1 (UBTF) (NM_001076683) Human Untagged Clone |
| Tag:                      | Tag Free  |
| Symbol:                   | UBF1  |
| Synonyms:                 | CONDBA; NOR-90; UBF; UBF-1; UBF1; UBF2          |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)                          |
| E. coli Selection:        | Kanamycin (25 ug/mL)                            |



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**Fully Sequenced ORF:** >SC315449 representing NM\_001076683.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGAACGGAGAAGCCGACTGCCCCACAGACCTGGAAATGGCCGCCCCCAAAGGCCAAGACCGTTGGTCC
CAGGAAGACATGCTGACTTTGCTGGAATGCATGAAGAACAACCTCCATCCAATGACAGCTCCAAGTTC
AAAACCACCGAATCACACATGGACTGGGAAAAAGTAGCATTAAAGACTTTTCTGGAGACATGTGCAAG
CTCAAATGGGTGGAGATTCTAATGAGGTGAGGAAGTCCGTACATTGACAGAATTGATCCTCGATGCT
CAGGAACATGTTAAAAATCCTTACAAGGCAAAAACTCAAGAAACACCCAGACTTCCAAAGAAGCCC
CTGACCCCTTATTTCCGCTTCTTCATGGAGAAGCGGGCCAAGTATGCGAAACTCCACCCTGAGATGAGC
AACCTGGACCTAACCAAGATTCTGTCCAAGAAATACAAGGAGCTCCGGAGAAGAAGAAGATGAAATAT
ATTCAGGACTTCAGAGAGAGAAACAGGAGTTCGAGCGAAACCTGGCCGATTCCAGGAGGATCACCCC
GACCTAATCCAGAATGCCAAGAAATCGGACATCCAGAGAAGCCAAAACCCCCAGCAGCTGTGGTAC
ACCCACGAGAAGAAGGTGTATCTCAAAGTGCGGCCAGATGAGATCATGAGAGACTATATCCAGAAGCAC
CCAGAGCTGAACATCAGTGAGGAGGGTATCACCAAGTCCACCCTACCAAGGCCGAACGCCAGCTCAAG
GACAAGTTTGACGGGCGACCCACCAAGCCACTCCGAACAGCTACTCGCTGTACTGCGCAGAGCTCATG
GCCAACATGAAGGACGTGCCCAGCACAGAGCGCATGGTGTGTGACAGCCAGCAGTGGAAAGCTGTGTCC
CAGAAGGAGAAGGACGCCTATCACAAGAAGTGTGATCAGAAAAAGAAAGATTACGAGGTGGAGCTGCTC
CGTTTCTCGAGAGCCTGCCTGAGGAGGAGCAGCAGCGGGTCTTGGGGGAAGAGAAGATGCTGAACATC
ACAAGAAGCAGGCCACCCAGCCCGCTCCAAGAAGCCAGCCAGGAAGGGGGCAAGGGCGGCTCCGAG
AAGCCAAAGCGGCCGTGTCGGCCATGTTATCTTCTCGGAGGAGAAACGGCGCAGCTGCAGGAGGAG
CGGCCTGAGCTCTCCGAGAGCGAGCTGACCCGCTGCTGGCCGAATGTGGAACGACCTGTCTGAGAAG
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CGCGAGGAACGGGGCAAGCTGCCCGAGTCCCCAAAAGAGCTGAGGAGATCTGGCAACAGAGCGTTATC
GGCGACTACCTGGCCCGTTCAAGAATGACCGGGTGAAGGCCCTTGAAGCCATGGAAATGACCTGGAAAT
AACATGGAAAAGAAGGAGAACTGATGTGGATTAAGAAGGCAGCCGAAGACCAAAAGCGATATGAGAGA
GAGCTGAGTGAGATGCGGGCACCTCCAGCTGCTACAAATCTTCCAAGAAGATGAAATCCAGGGAGAA
CCCAAGAAGCCTCCCATGAACGGTTACCAGAAGTCTCCAGGAGCTGCTGTCCAATGGGGAGCTGAAC
CACCTGCCGCTGAAGGAGCGCATGGTGGAGATCGGCAGTCGCTGGCAGCGCATCTCCAGAGCCAGAAG
GAGCACTACAAAAGCTGGCCGAGGAGCAGCAAAAGCAGTACAAGGTGCACCTGGACCTCTGGGTTAAG
AGCCTGTCTCCCAGGACCGTGCAGCATATAAAGAGTACATCTCCAATAAACGTAAGAGCATGACCAAG
CTGCGAGGCCCAAACCCCAAATCCAGCCGACTACTCTGCAGTCCAAGTCGGAGTCCGAGGAGGATGAT
GAAGAGGATGAGGATGACGAGGACGAGGATGAAGAAGAGGAAGATGATGAGAATGGGGACTCCTCTGAA
GATGGCGGCGACTCCTCTGAGTCCAGCAGCGAGGACGAGAGCGGAGGATGGGGATGAGAATGAAGAGGAT
GACGAGGACGAAGACGACGACGAGGATGACGATGAGGATGAAGATAATGAGTCCGAGGGCAGCAGCTCC
AGCTCCTCCTCCTCAGGGGACTCCTCAGACTCTGACTCCAACTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001076683  
**Insert Size:** 2184 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001076683.1](#)

**RefSeq Size:** 4635 bp

**RefSeq ORF:** 2184 bp

**Locus ID:** 7343

**UniProt ID:** [P17480](#)

**Cytogenetics:** 17q21.31

**Protein Families:** Transcription Factors

**MW:** 84.9 kDa

**Gene Summary:**

This gene encodes a member of the HMG-box DNA-binding protein family. The encoded protein plays a critical role in ribosomal RNA transcription as a key component of the pre-initiation complex, mediating the recruitment of RNA polymerase I to rDNA promoter regions. The encoded protein may also play important roles in chromatin remodeling and pre-rRNA processing, and its activity is regulated by both phosphorylation and acetylation. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.

Pseudogenes of this gene are located on the short arm of chromosomes 3, 11 and X and the long arm of chromosome 11. [provided by RefSeq, Aug 2011]

Transcript Variant: This variant (2) differs in the 5' UTR and lacks an exon in the coding region, but maintains the reading frame, compared to variant 1. Variants 2 and 3 encode the same isoform (b), which is shorter than isoform a.