

Product datasheet for **SC115105**

UBF1 (UBTF) (NM_014233) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UBF1 (UBTF) (NM_014233) Human Untagged Clone
Tag:	Tag Free
Symbol:	UBF1
Synonyms:	CONDBA; NOR-90; UBF; UBF-1; UBF1; UBF2
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 sequence for NM_014233 edited
 ATGAACGGAGAAGCCGACTGCCCCACAGACCTGGAAATGGCCGCCCCAAAGGCCAAGAC
 CGTTGGTCCCAGGAAGACATGCTGACTTTGCTGGAATGCATGAAGAACAACTTCCATCC
 AATGACAGCTCCAAGTTCAAAACCACCGAATCACACATGGACTGGGAAAAAGTAGCATT
 AAAGACTTTTCTGGAGACATGTGCAAGCTCAAATGGGTGGAGATTCTAATGAGGTGAGG
 AAGTTCGTACATTGACAGAATTGATCCTCGATGCTCAGGAACATGTTAAAAATCCTTAC
 AAAGCAAAAAAACAAGAAACACCCAGACTTCCCAAAGAAGCCCTGACCCCTTATTTCC
 CGCTTCTCATGGAGAAGCGGGCCAAGTATGCGAAACTCCACCCTGAGATGAGCAACCTG
 GACCTAACCAAGATTCTGTCCAAGAAATACAAGGAGCTTCCGGAGAAGAAGAAGTGAAA
 TATATTACAGGACTTCCAGAGAGAGAAACAGGAGTTCGAGCGAAACCTGGCCCGATTGAGG
 GAGGATACACCCGACCTAATCCAGAATGCCAAGAAATCGGACATCCAGAGAAGCCCAAA
 ACCCCCCAGCAGCTGTGGTACACCCACGAGAAGAAGGTGTATCTCAAAGTGGGCCAGAT
 GCCACTACGAAGGAGGTGAAGGACTCCCTGGGAAGCAGTGGTCTCAGCTCTCGGACAAA
 AAGAGGCTGAAATGGATTATAAGGCCCTGGAGCAGCGGAAGGAGTACGAGGAGATCATG
 AGAGACTATATCCAGAAGCACCCAGAGCTGAACATCAGTGAAGGAGGTATCACCAAGTCC
 ACCCTCACCAAGGCCAAGCCAGCTCAAGGACAAGTTTGACGGGCGACCCACCAAGCCA
 CCTCCGAACAGCTACTCGCTGTACTGCGCAGAGCTCATGGCCAACATGAAGGACGTGCC
 AGCACAGAGCGCATGGTGTGTGACGCCAGCAGTGAAGCTGCTGTCCAGAAGGAGAAG
 GACGCCTATCACAAAGAGTGTGATCAGAAAAAGAAAGATTACGAGGTGGAGCTGCTCCGT
 TTCCTCGAGAGCCTGCCTGAGGAGGAGCAGCAGCGGGTCTTGGGGGAAGAGAAGATGCTG
 AACATCAACAAGAAGCAGGCCACCAGCCCCGCCTCCAAGAAGCCAGCCAGGAAGGGGGC
 AAGGGCGGCTCCGAGAAGCCCAAGCGGCCGTGTCGGCCATGTTTCATCTTCTCGGAGGAG
 AAACGGCGCAGCTGCAGGAGGAGCGGCCCTGAGCTCTCCGAGAGCGAGCTGACCCGCCTG
 CTGGCCCGAATGTGGAACGACCTGTCTGAGAAGAAGAAGGCCAAGTACAAGGCCCGAGAG
 GCGGCGCTCAAGGCTCAGTCGGAGAGGAAGCCGCGGGGAGCGCGAGGAACGGGGCAAG
 CTGCCCGAGTCCCCAAAAGAGCTGAGGAGATCTGGCAACAGAGCGTTATCGGCGACTAC
 CTGGCCCGCTTCAAGAATGACCGGGTGAAGGCCTTGAAGCCATGGAAATGACCTGGAAT
 AACATGGAAGAAGAAGGAGAACTGATGTGGATTAAGAAAGCAGCCGAAAGACAAAAGCGA
 TATGAGAGAGAGCTGAGTGAAGTGCAGGACCTCCAGCTGCTACAAATCTTCCAAGAAG
 ATGAAATTCAGGGAGAACCCAAGAAGCCTCCCATGAACGGTTACCAGAAGTTCTCCAG
 GAGCTGCTGTCCAATGGGGAGCTGAACCACCTGCCGCTGAAGGAGCGCATGGTGGAGATC
 GGCAGTCGCTGGCAGCGCATCTCCAGAGCCAGAAGGAGCACTACAAAAAGCTGGCCGAG
 GAGCAGCAAAAAGCAGTACAAGGTGCACCTGGACCTCTGGGTTAAGAGCCTGTCTCCCGAG
 GACCGTGACGATATAAAGAGTACATCTCCAATAAACGTAAGAGCATGACCAAGCTGCGA
 GGCCAAACCCCAATCCAGCCGACTACTCTGCAGTCCAAGTCCGAGTCCGAGGAGGAT
 GATGAAGAGGATGAGGATGACGAGGACGAGGATGAAGAAGAGGAAGATGATGAGAATGGG
 GACTCCTCTGAAGATGGCGGCGACTCCTCTGAGTCCAGCAGCGAGGACGAGAGCGGAGGAT
 GGGGATGAGAATGAAGAGGATGACGAGGACGAAGACGACGACGAGGATGACGATGAGGAT
 GAAGATAATGAGTCCGAGGGCAGCAGCTCCAGCTCCTCCTCCTCAGGGGACTCCTCAGAC
 TCTGACTCCAACTGA

Restriction Sites: NotI-NotI
ACCN: NM_014233
Insert Size: 2920 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 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 clone may be unstable or toxic at high copy number in common E. coli strain. We recommend using a lower copy number E. coli strain, such as CopyCutter strain (<http://www.epibio.com/item.asp?ID=435>) for transformation and plasmid preparation. Please be aware that the DNA yield could be low. Additional aliquots of this clone can be ordered from OriGene.

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_014233.1](#), [NP_055048.1](#)

RefSeq Size: 3097 bp

RefSeq ORF: 2295 bp

Locus ID: 7343

UniProt ID: [P17480](#)

Cytogenetics: 17q21.31

Domains: HMG

Protein Families: Transcription Factors

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 (1) encodes the longer isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.