

Product datasheet for **RG221399**

UBF1 (UBTF) (NM_014233) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UBF1 (UBTF) (NM_014233) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UBF1
Synonyms:	CONDBA; NOR-90; UBF; UBF-1; UBF1; UBF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG221399 representing NM_014233
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAACGGAGAAGCCGACTGCCCCACAGACCTGGAATGGCCGCCCCAAAGGCCAAGACCGTTGGTCCC
 AGGAAGACATGCTGACTTTGCTGGAATGCATGAAGAACAACCTTCCATCCAATGACAGCTCCAAGTTCAA
 AACCCACGAATCACACATGGACTGGGAAAAAGTAGCATTAAAGACTTTTCTGGAGACATGTGCAAGCTC
 AAATGGGTGGAGATTTCTAATGAGGTGAGGAAGTCCGTACATTGACAGAATTGATCCTCGATGCTCAGG
 AACATGTTAAAAATCCTTACAAAGGCCAAAACTCAAGAAACACCCAGACTTCCCAAAGAAGCCCCTGAC
 CCCTTATTTCCGCTTCTCATGGAGAAGCGGGCCAAGTATGCGAACTCCACCCTGAGATGAGCAACCTG
 GACCTAACCAAGATTCTGTCCAAGAAATACAAGGAGCTCCGGAGAAGAAGAAGATGAAATATATTCAGG
 ACTTCCAGAGAGAAAACAGGAGTTCGAGCGAAACCTGGCCCGATTCCAGGGAGGATCACCCGACCTAAT
 CCAGAATGCCAAGAAATCGGACATCCAGAGAAGCCAAAACCCCCAGCAGCTGTGGTACACCCACGAG
 AAGAAGGTGTATCTCAAAGTGGCCAGATGCCACTACGAAGGAGGTGAAGGACTCCCTGGGGAAGCAGT
 GGTCTCAGCTCTCGGACAAAAAGAGGCTGAAATGGATTATAAGGCCCTGGAGCAGCGGAAGGAGTACGA
 GGAGATCATGAGAGACTATCCAGAAGCACCCAGAGCTGAACATCAGTGAGGAGGGTATCACCAAGTCC
 ACCCTCACCAAGGCCGAACGCCAGCTCAAGGACAAGTTTGACGGGCGACCCACCAAGCCACTCCGAACA
 GCTACTCGCTGTACTGCGCAGAGCTCATGGCCAACATGAAGGACGTGCCAGCACAGAGCGCATGGTGCT
 GTGCAGCCAGCAGTGAAGCTGCTGTCCAGAAGGAGAAGGACGCCTATCACAAGAAGTGTATCAGAAA
 AAGAAAGATTACGAGGTGGAGCTGCTCCGTTTCTCGAGAGCTGCCTGAGGAGGAGCAGCAGCGGGTCT
 TGGGGGAAGAGAAGATGCTGAACATCAACAAGAAGCAGGCCACCCAGCCCGCTCCAAGAAGCCAGCCCA
 GGAAGGGGCAAGGGCGGCTCCGAGAAGCCAAAGCGGCCCGTGTGGCCATGTTTCATCTTCTCGGAGGAG
 AAACGGCGGCAGCTGCAGGAGGAGCGGCCTGAGCTCTCCGAGAGCGAGCTGACCCGCTGCTGGCCGAA
 TGTGGAACGACCTGTCTGAGAAGAAGAAGGCCAAGTACAAGGCCCGAGAGGGCGGCTCAAGGCTCAGTC
 GGAGAGGAAGCCCGGGGAGCGGAGGAACGGGCAAGCTGCCCGAGTCCCCAAAAGAGCTGAGGAG
 ATCTGGCAACAGAGCGTTATCGGCGACTACCTGGCCCGTTCAAGAATGACCGGGTGAAGGCCTGAAAAG
 CCATGAAATGACCTGGAATAACATGGAAAAGAAGGAGAACTGATGTGGATTAAGAAAGCAGCCGAAGA
 CAAAAAGCGATATGAGAGAGAGCTGAGTGAGATGCGGGCACCTCCAGCTGCTACAAATCTTCCAAGAAG
 ATGAAATTCAGGGAGAACCAAGAAGCCTCCATGAACGTTACCAGAAGTTCTCCAGGAGCTGCTGT
 CCAATGGGGAGCTGAACCACCTGCCGCTGAAGGAGCGCATGGTGGAGATCGGCAGTGCCTGGCAGCGCAT
 CTCCCAGAGCCAGAAGGAGCACTACAAAAGCTGGCCGAGGAGCAGCAAAAGCAGTACAAGGTGCACCTG
 GACCTCTGGGTTAAGAGCCTGTCTCCCCAGGACCGTGCAGCATATAAAGAGTACATCTCCAATAAACGTA
 AGAGCATGACCAAGCTGCGAGGCCAAACCCCAATCCAGCCGGACTACTCTGCAGTCCAAGTCCGGAGTC
 CGAGGAGGATGATGAAGAGGATGAGGATGACGAGGACGAGGATGAAGAAGAGGAAGATGATGAGAATGGG
 GACTCCTCTGAAGATGGCGGCGACTCCTCTGAGTCCAGCAGCGAGGACGAGAGCGAGGATGGGGATGAGA
 ATGAAGAGGATGACGAGGACGAAGACGACGACGAGGATGACGATGAGGATGAAGATAATGAGTCCGAGGG
 CAGCAGCTCCAGCTCCTCCTCAGGGGACTCCTCAGACTCTGACTCCAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG221399 representing NM_014233
 Red=Cloning site Green=Tags(s)

MNGEADCPTDLEMAAPKGQDRWSQEDMLTLLCEMKNNLPSNDSSKFKTTESHMDWEKVAFKDFSGDMCKL
 KWVEISNEVRKFRRTLTELILDAQEHVKNPYKGGKLLKHPDFPKKPLTPYFRFFMEKRAKYAKLHPMSNL
 DLTKILSKKYKELPEKKMKYIQDFQREKQEFERNLARFREDHPDLIQNAKKSIDIPEKPKTPQQLWYTHE
 KKVYLKVRPDATTKVEKDSL GKQWSQLSDKKRLKWIHKALEQRKEYEEIMRDYIQKHPELNI SEEGITKS
 TLTKAERQLKDKFDGRPTKPPNSYSLYCAELMANMKDVPSTERMVLCSQQWKL LSQKEKDAYHKKCDQK
 KKDYEVLLRFLLESLPEEEQQRVLGEEKMLNINKKQATSPASKKPAQEGGKGGSEKPKRPVSAMFIFSEE
 KRRQLQEERPELSESELTRLLARMWNDLSEKKAKYKAREAAALKAQSERKPGGEREERGLPESPKRAEE
 IWQQSVIGDYLARFKNDRVKALKAMEMTWNMEKKEKLMWIKKAAEDQKRYERELSEMRAPPAATNSSKK
 MKFQGEPPKPPMNGYQKFSQELL SNGELNHLPLKERMVEIGSRWQRI SQSQKEHYKLAEEQQKQYKVHL
 DLVWKSLSPODRAAYKEYISNKRKSMTKLRGPNPKSSRTLQSKSESEEDDEDEDEDEDEDEEEDDENG
 DSSEDGGDSSESSSEDESEDGNEEDEDDEDDDEDDDEDEDNESESSSSSSSSSGDSSSDSDSN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

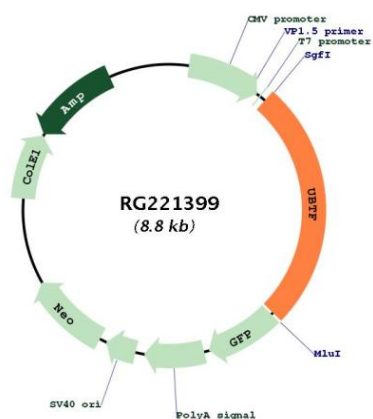


ACCN: NM_014233

ORF Size: 2292 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	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:	<p>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]</p>

Product images:



Circular map for RG221399