

Product datasheet for **RC224294**

UBE1C (UBA3) (NM_198197) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	UBE1C
Synonyms:	UBA3, hUba3, MGC22384, DKFZp566J164
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC224294 representing NM_198197
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGACACTATAGATGTTTCCAATCTAAATAGGCAGTTTTTATTTAGGCCTAAAGATATTGGAAGACCTA
AGGCTGAAGTTGCTGCAGAATTTCTAAATGACAGAGTTCTAATTGCAATGTAGTCCACATTTCAACAA
GATTCAAGATTTTAACGACACTTTCTATCGACAATTCATATTATGTATGTGGACTGGACTCTATCATC
GCCAGAAGATGGATAAATGGCATGCTGATATCTCTTCTAAATTATGAAGATGGTGTCTTAGATCCAAGCT
CCATTGTCCCTTTGATAGATGGGGGACAGAAGGTTTTAAAGGAAATGCCCGGGTGATTCTGCCTGGAAT
GACTGCTTGTATCGAATGCACGCTGGAACCTTTATCCACCACAGGTTAATTTCCCATGTGCACCATTGCA
TCTATGCCAGGCTACCAGAACTGTATTGAGTATGAAGGATGTTGCAGTGGCCTAAGGAGCAGCCTT
TTGGAGAAGGGTTCCATTAGATGGAGATGATCCTGAACATATACAATGGATTTTCCAAAAATCCCTAGA
GAGAGCATCACAATATAATATTAGGGGTGTTACGTATAGGCTCACTCAAGGGGTAGTAAAAAGAATCATT
CCTGCAGTAGCTTCCACAAATGCAGTCATTGCAGCTGTGTGTGCCACTGAGGTTTTAAAAATAGCCACAA
GTGCATACATTCCCTTGAATAATTACTTGGTGTTAATGATGTAGATGGCTGTATACATACACATTTGA
AGCAGAAAGAAAGGAAAAGTGGCAGCTTGTAGCCAGCTTCTCAAATATTCAGTTTTCTCCATCAGCT
AAACTACAGGAGGTTTTGGATTATCTAACCAATAGTGCTTCTCGCAAAATGAAATCTCCAGCCATCACAG
CCACCCTAGAGGAAAAATAGAACACTTTACTTACAGTCGGTAACCTCTATTGAAGAACGAACAAGGCC
AAATCTCTCCAAACATTGAAAGAATTGGGGCTGTTGATGGACAAGAAGTGGCGTTGCTGATGTCACC
ACCCACAGACTGTACTATTCAAATTCATTTTACTTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>RC224294 representing NM_198197

Red=Cloning site Green=Tags(s)

MDTIDVSNLNRQFLFRPKDIGRPKAEVAAEFLNDRVPCNVVPHFNKIQDFNDTFYRQFHIIVCGLDSII
ARRWINGMLISLLNYEDGVLDPSSIIVPLIDGGTEGFKGNARVILPGMTACIECTLELYPPQVNFPMCTIA
SMPRLPEHCIEYVRMLQWPKEQPFGEVPLDGGDPEHIQWIFQKSLERASQYNIRGVTYRLTQGVVKRII
PAVASTNAVIAAVCATEVFKIATSAYIPLNNYL VFNDVDGLYTYTFAERKENCPCSQLPQNIQFSPSA
KLQEVLDYLTNSASLQMKSPAITATLEGKNRTL YLQSVTSIEERTRPNLSKTLKELGLVDGQELAVADVT
TPQT VLFKLHFTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

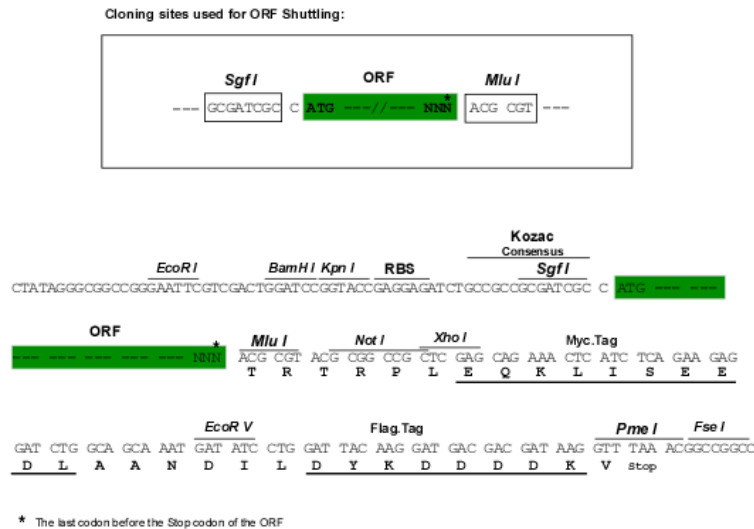
Chromatograms:

https://cdn.origene.com/chromatograms/ja1541_all.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_198197

ORF Size:

1089 bp

OTI Disclaimer:

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:

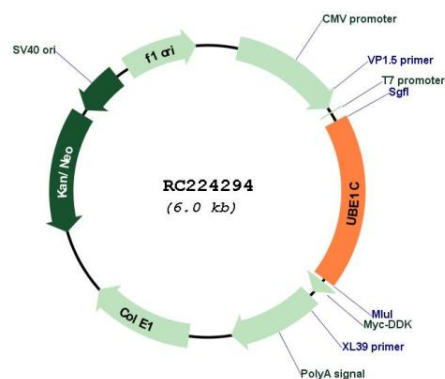
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_198197.1, NP_937840.1</u>
RefSeq Size:	2015 bp
RefSeq ORF:	1091 bp
Locus ID:	9039
Cytogenetics:	3p14.1
Protein Pathways:	Ubiquitin mediated proteolysis
MW:	41.2 kDa
Gene Summary:	The modification of proteins with ubiquitin is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation. Ubiquitination involves at least three classes of enzymes: ubiquitin-activating enzymes, or E1s, ubiquitin-conjugating enzymes, or E2s, and ubiquitin-protein ligases, or E3s. This gene encodes a member of the E1 ubiquitin-activating enzyme family. The encoded enzyme associates with AppBp1, an amyloid beta precursor protein binding protein, to form a heterodimer, and then the enzyme complex activates NEDD8, a ubiquitin-like protein, which regulates cell division, signaling and embryogenesis. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC224294