

## Product datasheet for **RG204675**

### **UBE1C (UBA3) (NM\_003968) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	UBE1C (UBA3) (NM_003968) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UBE1C
Synonyms:	hUBA3; NAE2; UBE1C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG204675 representing NM\_003968  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGATGGCGAGGAGCCGGAGAGGAAAAGAAGGAGAATAGAGGAGCTGCTGGCTGAGAAAATGGCTG  
 TTGATGGTGGGTGTGGGACACTGGAGACTGGGAAGGTCGCTGGAACCATGTAAAGAAGTTCCTCGAGCG  
 ATCTGGACCCCTTACACACCCTGATTTCAACCGAGCACTGAATCTCTCCAGTCTTGTAGATACATGT  
 AAAGTTCTAGTCATTGGAGCTGGCGCTTAGGATGTGAGCTCCTGAAAAATCTGGCCTTGTCTGGTTTTA  
 GACAGATTCATGTTATAGATATGGACACTATAGATGTTTCCAATCTAAATAGGCAGTTTTTATTTAGGCC  
 TAAAGATATTGGAAGACCTAAGGCTGAAGTTGCTGCAGAAATTTCTAAATGACAGAGTTCCTAATTGCAAT  
 GTAGTTCCACATTTCAACAAGATTCAAGATTTTAAACGACACTTTCTATCGACAATTTTATATTGAT  
 GTGGACTGGACTCTATCATCGCCAGAAGATGGATAAATGGCATGCTGATATCTCTTCTAATTTATGAAGA  
 TGGTGTCTTAGATCCAAGCTCCATTGTCCCTTTGATAGATGGGGGACAGAAGGTTTTAAAGGAAATGCC  
 CGGGTGATTCTGCCTGGAATGACTGCTTGTATCGAATGCACGCTGGAACCTTATCCACCACAGGTTAATT  
 TTCCCATGTGCACCATTGCATCTATGCCAGGCTACCAGAACACTGTATTGAGTATGTAAGGATGTTGCA  
 GTGGCCTAAGGAGCAGCCTTTTGGAGAAGGGTCCATTAGATGGAGATGATCCTGAACATATACAATGG  
 ATTTTCCAAAAATCCCTAGAGAGAGCATCAACAATAATATTAGGGGTGTACGTATAGGCTCACTCAAG  
 GGGTAGTAAAAAAGATCATTCTGCAGTAGCTCCACAATGCAGTCATTGCAGCTGTGTGTGCCACTGA  
 GGTTTTTAAAATAGCCACAAGTGCATACATTCCCTTGAATAATTACTTGGTGTAAATGATGTAGATGGG  
 CTGTATACATACATTTGAAGCAGAAAGAAAGGAAAACCTGCCAGCTTGTAGCCAGCTTCTCAAATA  
 TTCAGTTTTCTCCATCAGCTAAACTACAGGAGTTTTGGATTATCTAACCAATAGTGCTTCTCTGCAAT  
 GAAATCTCCAGCCATCACAGCCACCCTAGAGGGAAAAAATAGAACAATTTACTTACAGTCGGTAACCTCT  
 ATTTGAAGAACGAACAAGCCAAATCTCTCCAAAACATTGAAAGAATTGGGGCTTGTGATGGACAAGAAC  
 TGGCGGTTGCTGATGTCACCACCCACAGACTGTACTATTCAAATTCATTTTACTTCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG204675 representing NM\_003968  
 Red=Cloning site Green=Tags(s)

MADGEEPERKRRRIEELLAEKMAVDGGCGDGDWEGRWNVKFLERSGPFTHPDFEPSTESLQFLLDTC  
 KVLVIGAGGLGCELLKNLALSGFRQIHVIDMDTIDVSNLNRQFLFRPKDIGRPAEVAEFLNDRVPNCN  
 VVPHFNKIQDFNDTFYRQFHIIIVCLDSIIARRWINGMLISLLNYEDGVLDPSSIVPLIDGGTEGFKGNA  
 RVILPGMTACIECTLEL YPPQVNFPMCTIASMPRLPEHCIEYVRMLQWPKEQPFGEVPLDGDPEHIQW  
 IFQKSLERASQYNIRGVTYRLTQGVVKRIIPAVASTNAVIAAVCATEVFKIATSAYIPLNNYLVFNDVDG  
 LYTYTFAERKENC PACSQLPQNIQFSPAKLQEVLDYL TNSASLQMKSPAITATLEGKNRTL YLQSVTS  
 IEERTRPNLSKTLKELGLVDGQELAVADVTPQT VLFKLHFTS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_003968

**ORF Size:** 1389 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.

**RefSeq:** [NM\\_003968.3](#), [NP\\_003959.3](#)

**RefSeq Size:** 2136 bp

**RefSeq ORF:** 1392 bp

**Locus ID:** 9039

**UniProt ID:** [Q8TBC4](#)

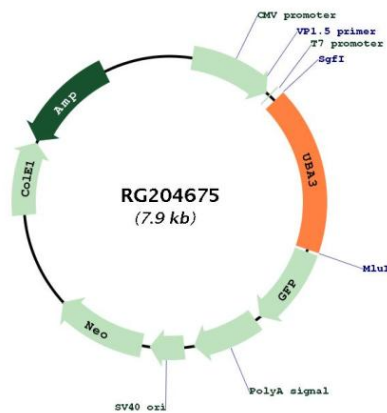
**Cytogenetics:** 3p14.1

**Domains:** UBACT, ThiF

**Protein Pathways:** Ubiquitin mediated proteolysis

**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 RG204675