

## Product datasheet for **RG202516**

### **UBE2H (NM\_003344) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** UBE2H (NM\_003344) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** UBE2H  
**Synonyms:** E2-20K; GID3; UBC8; UBCH; UBCH2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG202516 representing NM\_003344  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCATCTCCCAGTCCGGGCAAGAGGCGGATGGACACGGACGTGGTCAAGCTCATCGAGAGTAAACATG  
 AGGTTACGATCCTGGGAGGACTTAATGAATTTGTAGTGAAGTTTTATGGACCACAAGGAACACCATATGA  
 AGGCGGAGTATGGAAAGTTAGAGTGGACCTACCTGATAAATACCTTTCAAATCTCCATCTATAGGATTC  
 ATGAATAAAATTTCCATCCCAACATTGATGAAGCGTCAGGAAGTGTGTCTAGATGTAATTAATCAA  
 CTTGGACAGCTCTATGATCTTACCAATATATTTGAGTCTTCTGCCTCAGTTATTGGCCTATCCTAA  
 CCCCATAGATCCTCTCAATGGTGACGCTGCAGCCATGTACCTCCACCGACCAGAAGAATACAAGCAGAAA  
 ATTAAGAGTACATCCAGAAATACGCCACGGAGGAGGCGCTGAAAGAACAGGAAGAGGGTACCGGGGACA  
 GCTCATCGGAGAGCTCTATGTCTGACTTTTCCGAAGATGAGGCCAGGATATGGAGTTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG202516 representing NM\_003344  
 Red=Cloning site Green=Tags(s)

MSSSPGKRRMDTDVVKLIESKHEVTILGGLNEFVVKFYGPQGPYEGGVWVVRVLDPKYPFKSPSIGF  
 MNKIFHPNIDEASGTVCLDVINQWTALYDLTNIFESFLPQLLAYPNPIDPLNGDAAAMYLRPEEYKQK  
 IKEYIQKYATEEALKEQEETGDSSSESSMSDFSEDEAQMEL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



[View online >](#)

**Cloning Scheme:**


**ACCN:** NM\_003344

**ORF Size:** 549 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\\_003344.4](#)

**RefSeq Size:** 2728 bp

**RefSeq ORF:** 552 bp

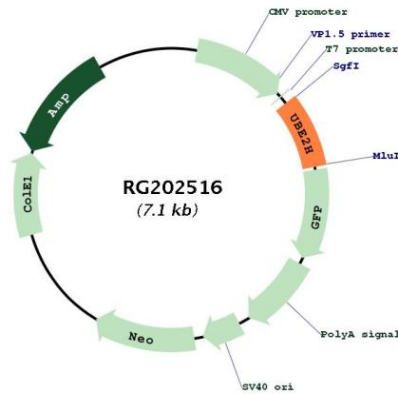
**Locus ID:** 7328

**UniProt ID:** [P62256](#)

**Cytogenetics:** 7q32.2  
**Domains:** UBCc  
**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 E2 ubiquitin-conjugating enzyme family. The encoded protein sequence is 100% identical to the mouse homolog and 98% identical to the frog and zebrafish homologs. Three alternatively spliced transcript variants have been found for this gene and they encode distinct isoforms. [provided by RefSeq, Feb 2011]

**Product images:**



Circular map for RG202516