

Product datasheet for **RG200274**

UBE2E3 (NM_182678) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: UBE2E3 (NM_182678) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: UBE2E3
Synonyms: UBCH9; UbcM2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200274 representing NM_182678
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCAGTGATAGGCAAAGGTCCGATGATGAGAGCCCCAGCACCAGCAGTGGCAGTTCAGATGCGGACC
 AGCGAGACCCAGCCGCTCCAGAGCCTGAAGAACAAGAGGAAAGAAAACCTTCTGCCACCCAGCAGAAGAA
 AAACACCAAACCTCTAGCAAACCACTGCTAAGTTATCCACTAGTGCTAAAAGAATTGAGAAGGAGCTA
 GCTGAAATAACCCTTGATCCTCCTAATTGCAGTGCTGGCCCTAAAGGAGATAACATTTATGAATGGA
 GATCAACTATACTTGGTCCACCGGTTCTGTATATGAAGGTGGTGTGTTTTTCTGGATATCACATTTTC
 ATCAGATTATCCATTTAAGCCACCAAAGTTACTTTCCGCACCAGAATCTATCACTGCAACATCAACAGT
 CAGGGAGTCATCTGTCTGGACATCCTTAAAGACAACCTGGAGTCCCGCTTTGACTATTTCAAAGGTTTTGC
 TGTCTATTTGTTCCCTTTTGACAGACTGCAACCCTGCGGATCCTCTGGTTGGAAGCATAGCCACTCAGTA
 TTTGACCAACAGAGCAGAACACGACAGGATAGCCAGACAGTGGACCAAGAGATACGCAACA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200274 representing NM_182678
 Red=Cloning site Green=Tags(s)

MSSDRQRSDESPSTSSGSSDADQRDPAAPEPEEQEERKPSATQQKNTKLSKTTAKLSTSAKRIQKEL
 AEITLDPNCSAGPKGDNIEWRSTILGPPGSVYEGGVFLDITFSSDYFPKPKVTFRTRIYHCNINS
 QGVICLDILKDNWSPALTIKVLISICLLTDCNPADPLVGSIAQYL TNRAEHDRIARQWTKRYAT

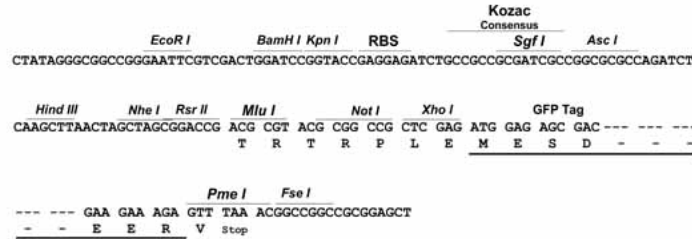
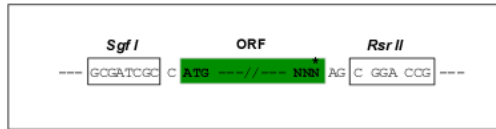
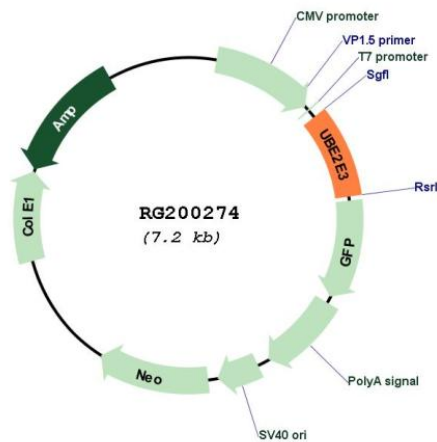
SGP**TRRRLE** - GFP Tag - V

Restriction Sites: Sgfl-RsrII



Cloning Scheme:

Cloning sites used for ORF Shuttling:


Plasmid Map:

ACCN: NM_182678

ORF Size: 621 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_182678.2](#)

RefSeq Size: 1394 bp

RefSeq ORF: 624 bp

Locus ID: 10477

UniProt ID: [Q969T4](#)

Cytogenetics: 2q31.3

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 shares 100% sequence identity with the mouse and rat counterparts, which indicates that this enzyme is highly conserved in eukaryotes. Multiple alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jun 2013]