

Product datasheet for **RG202106**

UBE2E1 (NM_003341) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: UBE2E1 (NM_003341) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: UBE2E1
Synonyms: UBCH6
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG202106 representing NM_003341
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGGATGACGATTCGAGGGCCAGCACCAGCTCCTCCTCATCTTCGTCTTCCAACCAGCAAACCGAGA
 AAGAAACAACACCCCAAGAAGAAGGAGAGTAAAGTCAGCATGAGCAAAAACCTCAAACCTCTCCAC
 CAGCGCAAGAGAATTCAGAAGGAGCTGGCGGACATCACTTTAGACCCTCCACCTAATTGCAGTGCTGGT
 CCCAAAGCGGATAACATCTATGAATGGAGATCAACCATTCTAGGGCTCCAGGATCCGTGTATGAGGGT
 GTGTATTTCTTCGATATCACTTTTACACCAGAAATATCCCTTCAAGCCTCCAAAGTTACATTTGGAC
 AAGAATCTATCATTGTAATTAACAGTCAAGGTGTTATTTGCTTGGACATATTGAAAGATAATTGGAGT
 CCAGCACTAACCTTTCTAAAGTCTCCTTTCTATCTGCTCACTTCTTACAGACTGTAATCTGCCGACC
 CCTTGGTGGGAAGTATTGCCACTCAGTATATGACCAACAGAGCAGAACATGACAGAATGGCCAGACAGTG
 GACCAAGAGATACGCTACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202106 representing NM_003341
 Red=Cloning site Green=Tags(s)

MSDDDSRASTSSSSSSSNQQTEKETNTPKKKESKVSMSKNSKLLSTSAKRIQKELADITLDPNCSAG
 PKGDNIYEWRSITLPPGSVYEGGVFLDITFTPEYFPKPKVTFRTRIYHCNINSQGVICLDILKDNWS
 PALTISKVLLSICSLLTDCNPADPLVGSIAQYMTNRAEHRMARQWTKRYAT

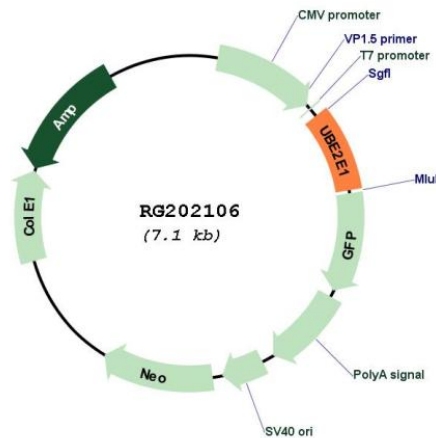
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_003341

ORF Size: 579 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_003341.5](#)

RefSeq Size: 1845 bp

RefSeq ORF: 582 bp

Locus ID: 7324

UniProt ID: [P51965](#)

Cytogenetics: 3p24.2

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. Three alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jan 2011]