

Product datasheet for RG201159

UBE2G1 (NM 003342) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: UBE2G1 (NM_003342) Human Tagged ORF Clone

Tag: TurboGFP Symbol: UBE2G1

Synonyms: E217K; UBC7; UBE2G

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG201159 representing NM_003342

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGACGGAGCTGCAGTCGGCACTGCTACTGCGAAGACAGCTGGCAGAACTCAACAAAAATCCAGTGGAAG
GCTTTTCTGCAGGTTTAATAGATGACAATGATCTCTACCGATGGGAAGTCCTTATTATTGGCCCTCCAGA
TACACTTTATGAAGGTGGTGTTTTTAAGGCTCATCTTACTTTCCCAAAAGATTATCCCCTCCGACCTCCT
AAAATGAAATTCATTACAGAAATCTGGCACCCAAATGTTGATAAAAATGGTGATGTGCATTTCTATTC
TTCATGAGCCTGGGGAAGATAAGTATGGTTATGAAAAGCCAGAGGAACGCTGGCTCCCTATCCACACTGT
GGAAACCATCATGATTAGTGTCATTTCTATGCTGGCAGACCCTAATGGAGACTCACCTGCTAATGTTGAT
GCTGCGAAAGAATGGAGGGAAGATAGAAAATGGAGAATTTAAAAGAAAAGTTGCCCGCTGTTAAGAAAAA

GCCAAGAGACTGCTTTTGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201159 representing NM_003342

Red=Cloning site Green=Tags(s)

MTELQSALLLRRQLAELNKNPVEGFSAGLIDDNDLYRWEVLIIGPPDTLYEGGVFKAHLTFPKDYPLRPP KMKFITEIWHPNVDKNGDVCISILHEPGEDKYGYEKPEERWLPIHTVETIMISVISMLADPNGDSPANVD

AAKEWREDRNGEFKRKVARCVRKSQETAFE

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



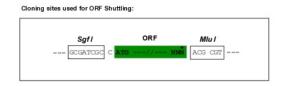
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

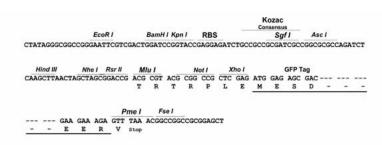
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

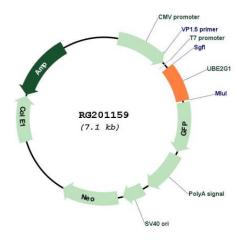


Cloning Scheme:





Plasmid Map:



ACCN: NM_003342

ORF Size: 510 bp



OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at customercom or by calling 301.340.3188 option 3 for pricing and delivery.

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. <u>More info</u>

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:

RefSeq:

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.

NM 003342.4, NP 003333.1

 RefSeq Size:
 4208 bp

 RefSeq ORF:
 513 bp

 Locus ID:
 7326

 UniProt ID:
 P62253

 Cytogenetics:
 17p13.2

Domains: UBCc

Protein Pathways: Parkinson's disease, 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 and catalyzes the covalent attachment of ubiquitin to other proteins. The protein may be involved in degradation of muscle-specific proteins. [provided

by RefSeq, Jul 2008]