

Product datasheet for **RG200407**

UBE2G2 (NM_003343) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: UBE2G2 (NM_003343) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: UBE2G2
Synonyms: UBC7
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200407 representing NM_003343
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGGGACCGCGCTCAAGAGGCTGATGGCCGAGTACAACAATTAACACTGAATCCTCCGGAAGGAA
 TTGTAGCAGGCCCATGAATGAAGAGAAGCTTTTTGAATGGGAGGCATTGATCATGGGCCAGAAGACAC
 CTGCTTTGAGTTTGGTGTTCCTGCCATCCTGAGTTTCCCACTTGATTACCCGTTAAGTCCCCAAAG
 ATGAGATTTACCTGTGAGATGTTTCATCCCAACATCTACCCTGATGGGAGAGTCTGCATTCCATCTCC
 ACGCGCCAGGCGATGACCCCATGGGCTACGAGAGCAGCGCGGAGCGGTGGAGTCCGTGCAGAGTGTGGA
 GAAGATCCTGCTGTCGGTGGTGTGAGATGCTGGCAGAGCCCAATGACGAAAGTGGAGCTAACGTGGATGCG
 TCCAAAATGTGGCGCGATGACCGGGAGCAGTTCTATAAGATTGCCAAGCAGATCGTCCAGAAGTCTCTGG
 GACTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200407 representing NM_003343
 Red=Cloning site Green=Tags(s)

MAGTALKRLMAEYKQLTLNPPEGIVAGPMNEENFFEWALIMGPEDTCFEFGVFPAILSFPLDYPLSPPK
 MRFTCEMFHPNIYPDGRVCISILHAPGDDPMGYESSAERWSPVQSVKILLSVVSMLEAPNDESGANVDA
 SKMWRDDREQFYKIAKQIVQKSLGL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_003343

ORF Size: 495 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_003343.6](#)

RefSeq Size: 2919 bp

RefSeq ORF: 498 bp

Locus ID: 7327

UniProt ID: [P60604](#)

Cytogenetics: 21q22.3

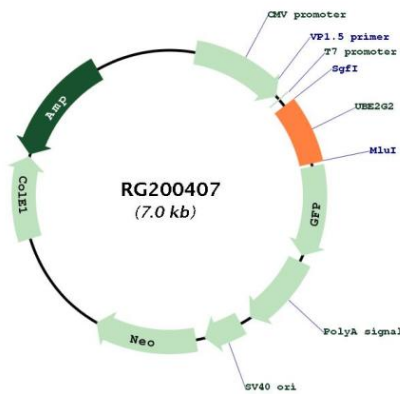
Domains: UBCC

Protein Families: Druggable Genome

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. The encoded protein shares 100% sequence identity with the mouse counterpart. This gene is ubiquitously expressed, with high expression seen in adult muscle. Three alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jan 2011]

Product images:



Circular map for RG200407