

Product datasheet for **RG236568**

UBE2E3 (NM_001278554) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: UBE2E3 (NM_001278554) 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: >RG236568 representing NM_001278554.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCCAGTGATAGGCAAAGGTCCGATGATGAGAGCCCCAGCACCAGCAGTGGCAGTTCAGATGCGGAC
CAGCGAGACCCAGCCGCTCCAGAGCCTGAAGAACAAGAGGAAAGAAAACCTTCTGCCACCCAGCAGAAG
AAAAACACCAAACCTCTAGCAAACCCTGCTAAGTTATCCACTAGTGTAAAAGAATTCAGAAGGAG
CTAGCTGAAATAACCCTGATCCTCCTAATTGCAGTGTGGGCTAAAGGAGATAACATTTATGAA
TGGAGATCAACTATACTTGGTCCACCGGTTCTGTATATGAAGGTGGTGTGTTTTTCTGGATATCACA
TTTTCATCAGATTATCCATTTAAGCCACCAAAGGTTACTTTCCGCACCAGAATCTATCACTGCAACATC
AACAGTCAGGGAGTCATCTGTCTGGACATCCTTAAAGACAACCTGGAGTCCCGCTTTGACTATTTCAAAG
GTTTTGCTGTCTATTTGTTCCCTTTGACAGACTGCAACCCTGCGGATCCTCTGTTTGAAGCATAGCC
ACTCAGTATTTGACCAACAGAGCAGAACACGACAGGATAGCCAGACAGTGGACCAAGAGATACGCAACA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236568
Blue=ORF Red=Cloning site Green=Tag(s)

```
MSSDRQRSDDSPSTSSGSSDADQRDPAAPEPEEQEERKPSATQQKNTKLSKTTAKLSTSAKRIQKE
LAEITLDPPPNCSSAGPKGDNIEYWRSTILGPPGSVYEGGVFFLDITFSSDYPFKPPKVTFRTRIHNCNI
NSQGVICLDILKDNWSPALITISKVLLSICSLTDCNPADPLVGSIAATQYL TNRAEHDRIRQWTKRYAT
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: Sgfl-Mlul

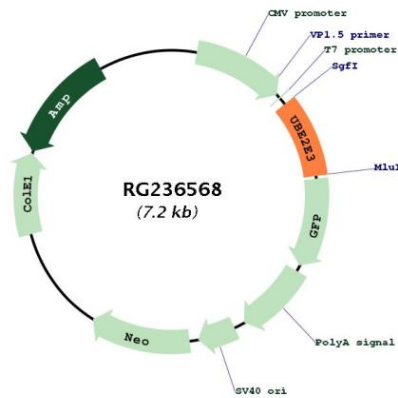


Cloning Scheme:


- ACCN:** NM_001278554
- 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).
- RefSeq:** [NM_001278554.1](#), [NP_001265483.1](#)
- RefSeq Size:** 1557 bp
- RefSeq ORF:** 624 bp
- Locus ID:** 10477
- UniProt ID:** [Q969T4](#)
- Cytogenetics:** 2q31.3
- Protein Pathways:** Ubiquitin mediated proteolysis
- MW:** 22.9 kDa

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]

Product images:


Circular map for RG236568