

## Product datasheet for **RC236569**

### UBE2E3 (NM\_001278555) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** UBE2E3 (NM\_001278555) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** UBE2E3  
**Synonyms:** UBCH9; UbcM2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC236569 representing NM\_001278555  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGC**

ATGTCCAGTGATAGGCAAAGGTCCGATGATGAGAGCCCCAGCACCAGCAGTGGCAGTTAGATGCGGACC  
AGCGAGACCCAGCCGCTCCAGAGCCTGAAGAACAAGAGGAAAGAAAACCTTCTGCCACCCAGCAGAAGAA  
AAACACCAAACCTCTAGCAAAACCACTGCTAAGTTATCCACTAGTGCTAAAAGAATTGAGAAGGAGCTA  
GCTGAAATAACCTTGATCCTCCTCTAATTGCAGTGCTGGGCCTAAAGGAGATAACATTTATGAATGGA  
GATCAACTATACTTGGTCCACCGGTTCTGTATATGAAGTGGTGTGTTTTTCTGGATATCACATTTTC  
ATCAGATTATCCATTTAAGCCACCAAGGTTACTTTCCGACCAGAATCTATCACTGCAACATCAACAGT  
CAGGGAGTCATCTGTCTGGACATCCTTAAAGACAAGTGGAGTCCCGCTTTGACTATTTCAAAGGTTTTGC  
TGCTATTTGTTCCCTTTTGACAGACTGCAACCTGCGGATCCTCTGGTTGGAAGCATAGCCACTCAGTA  
TTTGACCAACAGAGCAGAACACGACAGGATAGCCAGACAGTGGACCAAGAGATACGCAACA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC236569 representing NM\_001278555  
Red=Cloning site Green=Tags(s)

MSSDRQRSDDSPSTSSGSSDADQRDPAAPEPEEQEERKPSATQQKNTKLSSKTTAKLSTSAKRIQKEL  
AEITLDPPPNCSAGPKGDNIEWRSTILGPPGSVYEGGVFLDITFSSDYPFKPKVTFTRIYHCNINS  
QGVICLDILKDNWSPALTISKVLLSICSLLTDCNPADPLVGSIAQYL TNRAEHDRIARQWTKRYAT

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

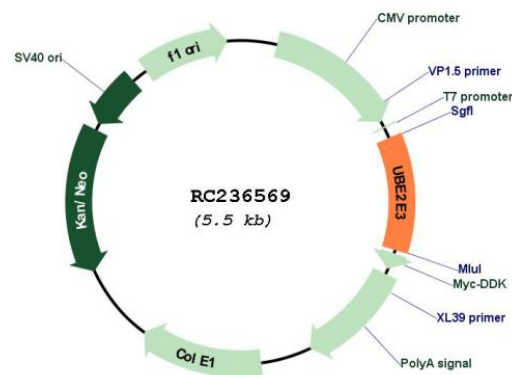


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## Cloning Scheme:



## Plasmid Map:



ACCN: NM\_001278555

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\\_001278555.1](#), [NP\\_001265484.1](#)

**RefSeq Size:** 1365 bp

**RefSeq ORF:** 624 bp

**Locus ID:** 10477

**UniProt ID:** [Q969T4](#)

**Cytogenetics:** 2q31.3

**Protein Pathways:** Ubiquitin mediated proteolysis

**MW:** 23.4 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]