

Product datasheet for RC200274

UBE2E3 (NM_182678) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: UBE2E3 (NM_182678) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: UBE2E3
Synonyms: UBCH9; UbcM2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC200274 representing NM_182678
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCCAGTGATAGGCAAAGGTCCGATGATGAGAGCCCCAGCACCAGCAGTGGCAGTTCAGATGCGGACC
 AGCGAGACCCAGCCGCTCCAGAGCCTGAAGAACAAGAGGAAAGAAAACCTTCTGCCACCCAGCAGAAGAA
 AAACACCAAACCTCTAGCAAACCACTGCTAAGTTATCCACTAGTGCTAAAAGAATTGAGAAGGAGCTA
 GCTGAAATAACCCCTTGATCCTCCTAATTGCAGTGCTGGCCCTAAAGGAGATAACATTTATGAATGGA
 GATCAACTATACTTGGTCCACCGGTTCTGTATATGAAGGTGGTGTGTTTTTCTGGATATCACATTTTC
 ATCAGATTATCCATTTAAGCCACCAAAGGTTACTTTCCGCACCAGAATCTATCACTGCAACATCAACAGT
 CAGGGAGTCATCTGTCTGGACATCCTTAAAGACAACCTGGAGTCCCGCTTTGACTATTTCAAAGGTTTTGC
 TGTCTATTTGTTCCCTTTTGACAGACTGCAACCCCTGCGGATCCTCTGGTTGGAAGCATAGCCACTCAGTA
 TTTGACCAACAGAGCAGAACACGACAGGATAGCCAGACAGTGGACCAAGAGATACGCAACA

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200274 representing NM_182678
 Red=Cloning site Green=Tags(s)

MSSDRQRSDDESPSTSSGSSDADQRDPAAPEPEEQEERKPSATQQKNTKLSSKTTAKLSTSAKRIQKEL
 AEITLDPPPNCASGPKGDNIYWRSTILGPPGSVYEGGVFFLDITFSSDYFPKPKVTFRTRIIYHCNINS
 QGVICLDILKDNWSPALTISKVLLSICSLLTDCNPADPLVGSIAATQYL TNRAEHDRIARQWTWKRYAT

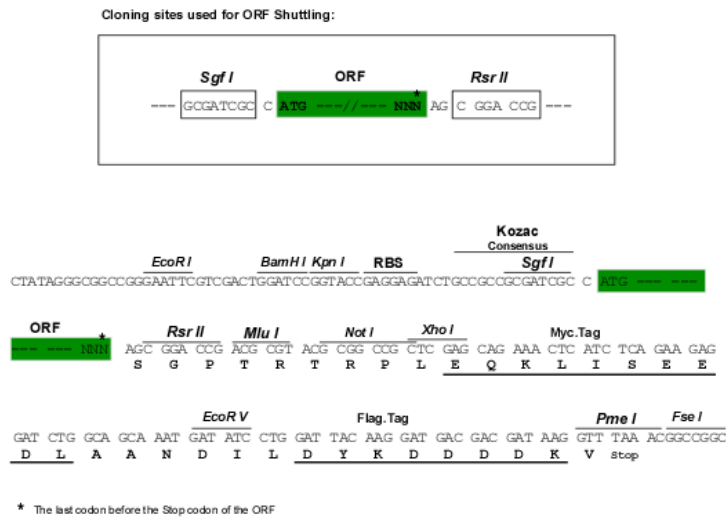
SGPTRRRLEQKLI SEEDLAANDILDYKDDDDKV



Chromatograms: https://cdn.origene.com/chromatograms/mg2875_f04.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_182678

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_182678.2](#)

RefSeq Size: 1394 bp

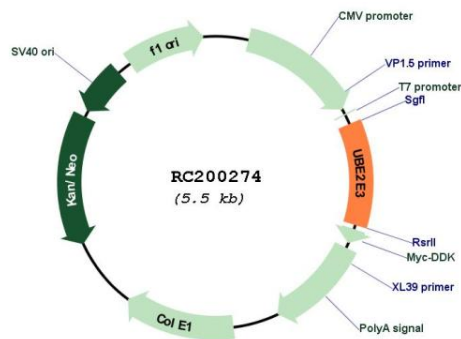
RefSeq ORF: 624 bp

Locus ID: 10477

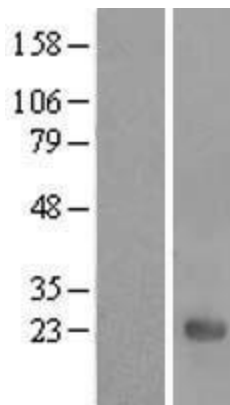
UniProt ID: [Q969T4](#)
Cytogenetics: 2q31.3
Protein Pathways: Ubiquitin mediated proteolysis
MW: 22.7 kDa

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 RC200274



Western blot validation of overexpression lysate (Cat# [LY405443]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200274 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).