

Product datasheet for RG205621

UBE2D1 (NM 003338) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: UBE2D1 (NM_003338) Human Tagged ORF Clone

Tag: TurboGFP Symbol: UBE2D1

Synonyms: E2(17)KB1; SFT; UBC4/5; UBCH5; UBCH5A

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

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

ORF Nucleotide >RG205621 representing NM_003338

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCGCTGAAGAGGATTCAGAAAGAATTGAGTGATCTACAGCGCGATCCACCTGCTCACTGTTCAGCTG
GACCTGTGGGAGATGACTTGTTCCACTGGCAAGCCACTATTATGGGGCCTCCTGATAGCGCATATCAAGG
TGGAGTCTTCTTTCTCACTGTACATTTTCCGACAGATTATCCTTTTAAACCACCAAAGATTGCTTTCACA
ACAAAAATTTACCATCCAAACATAAACAGTAATGGAAGTATTTGTCTCGATATTCTGAGGTCACAATGGT
CACCAGCTCTGACTGTATCAAAAGTTTTATTGTCCATATGTTCTCTACTTTTGTGATCCTAATCCAGATGA
CCCCTTAGTACCAGATATTGCACAAATCTATAAATCAGACAAAGAAAAATACAACAGACATGCAAGAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205621 representing NM_003338

Red=Cloning site Green=Tags(s)

MALKRIQKELSDLQRDPPAHCSAGPVGDDLFHWQATIMGPPDSAYQGGVFFLTVHFPTDYPFKPPKIAFT TKIYHPNINSNGSICLDILRSQWSPALTVSKVLLSICSLLCDPNPDDPLVPDIAQIYKSDKEKYNRHARE

WTQKYAM

TRTRPLE - GFP Tag - V

TGGACTCAGAAATATGCAATG

Restriction Sites: Sgfl-Mlul



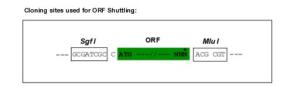
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

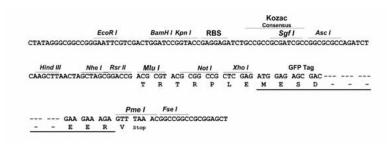
CN: techsupport@origene.cn

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



Cloning Scheme:





ACCN: NM_003338

ORF Size: 441 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: <u>NM 003338.5</u>

RefSeq Size: 2669 bp
RefSeq ORF: 444 bp
Locus ID: 7321
UniProt ID: P51668



Cytogenetics: 10q21.1

Domains: UBCc

Protein Pathways: Ubiquitin mediated proteolysis

Gene Summary: The modification of proteins with ubiquitin is an important cellular mechanism for targeting

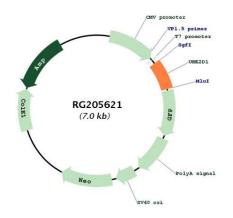
abnormal or short-lived proteins for degradation. Ubiquitination involves at least three classes of enzymes: ubiquitin-activating enzymes, or E1s, ubiquitin-conjugating enzymes, or E2s, and ubiquitin-protein ligases, or E3s. This gene encodes a member of the E2 ubiquitin-conjugating enzyme family. This enzyme is closely related to a stimulator of iron transport

(SFT), and is up-regulated in hereditary hemochromatosis. It also functions in the

ubiquitination of the tumor-suppressor protein p53 and the hypoxia-inducible transcription factor HIF1alpha by interacting with the E1 ubiquitin-activating enzyme and the E3 ubiquitin-protein ligases. Two transcript variants encoding different isoforms have been found for this

gene. [provided by RefSeq, Mar 2011]

Product images:



Circular map for RG205621