

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 Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG205621 representing NM_003338
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCTGAAGAGGATTCAGAAAGAATTGAGTGATCTACAGCGGATCCACCTGCTCACTGTTCAGCTG
GACCTGTGGGAGATGACTTGTCCACTGGCAAGCCACTATTATGGGGCCTCCTGATAGCGCATATCAAGG
TGGAGTCTTCTTCTCACTGTACATTTCCGACAGATTATCCTTTTAAACCACCAAGATTGCTTTCACA
ACAAAAATTTACCATCCAACATAAACAGTAATGGAAGTATTTGTCTCGATATTCTGAGGTCACAATGGT
CACCAGCTCTGACTGTATCAAAAGTTTTATTGTCCATATGTTCTCTACTTTGTGATCCTAATCCAGATGA
CCCTTAGTACCAGATATTGCACAAATCTATAAATCAGACAAAGAAAAATACAACAGACATGCAAGAGAA
TGGACTCAGAAATATGCAATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205621 representing NM_003338
Red=Cloning site Green=Tags(s)

MALKRIQKELSDLQRDPPAHCSAGPVGDDLFWQATIMGPPDSAYQGGVFFLTVHFPTDYPFKPPKIAFT
TKIYHPNINSNGSICLDILRSQWSPALTVSKVLLSICSLLCDPNPDDPLVPDIAQIYKSDKEYNRHARE
WTQKYAM

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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: [NM_003338.5](#)

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