

Product datasheet for **SC118046**

UBE2D1 (NM_003338) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: UBE2D1 (NM_003338) Human Untagged Clone
Tag: Tag Free
Symbol: UBE2D1
Synonyms: E2(17)KB1; SFT; UBC4/5; UBCH5; UBCH5A
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_003338 edited
 GAATTCGGCACGAGGCGCTCGGGCGCACACGGAGCAGGGACCGGCCCGGAGCGAGC
 CAGGGAGCGGCTAACCGGGACCCACCGCGCGGAGCCAGCCTAGCTGCCAGCGAGCCCAA
 CCGCGACGACCCACGCCCTGAGCCCCGAGCCGACCCCTGCCGGCCGGTGTCCCCACC
 GCCATCCCTGACCCATGGCGCTGAAGAGGATTCAGAAAGAATTGAGTGATCTACAGCGCG
 ATCCACCTGCTCACTGTTCACTGGACCTGTGGGAGATGACTTGTCCACTGGCAAGCCA
 CTATTATGGGGCCTCCTGATAGCGCATATCAAGGTGGAGTCTTCTTTCTCACTGTACATT
 TTCCGACAGATTATCCTTTTAAACCACCAAGATTGCTTTCAACAACAAAAATTTACCATC
 CAAACATAAACAGTAATGGAAGTATTTGTCTCGATATTCTGAGGTCACAATGGTCACCAG
 CTCTGACTGTATCAAAAGTTTTATTGTCCATATGTTCTCTACTTTGTGATCCTAATCCAG
 ATGACCCCTTAGTACCAGATATTGCACAAATCTATAAATCAGACAAAGAAAAATACAACA
 GACATGCAAGAGAATGGACTCAGAAATATGCAATGTAATAATCAAAAACATTTTCATATA
 TACCAGAGTACTGTAATACTAGGTTTTTTTCAACATTAGCAGTAAATTGAGCACTGTTT
 ACTGTTTCATTGTACCATGAAACCATTTGATTTTTACCCATTTTAAATGTGTTTCTGAAG
 CAAGACAAAACAACTTCCAAAAATACCCTTAAGACTGTGATGAGAGCATTTATCATTTT
 GTATGCATTGAGAAAGACATTTATTATGGTTTTTAAGATACTTGGACATCTGCATCTTCA
 GCTTACAAGATCTACAATGCAGCTGAAAAGCAACCAAAATATTTTTGCTGAAACTAGAT
 GTTTTTACATGAGAAATACTGTATGTGTGTCTAAGATGTCAGTTTTATAAATCTGTATT
 CAGATTTTCATTTGTTAGCTCACTTTATAATTTGATTTTTTTACTGTATAGACTAAA
 TATATTCTATTTACATGATGTCAACTACTTTTCTTTTCTGTGAAACAGTATTGAAAAA
 CCCCACCGCTGATAATTAAGTGAATTAAGTGTCTCCCTTGTCTTAGGATATTCTGTA
 GATTGATTGCAGATTTCTAAATCTGAAATGATCTTTACACTGTAATTCTCAGCATACTG
 ATTATGGAGAAACACTTGTGTTTTGTTTTTATACTTGACTTAACTTTATTGCAATGTGA
 ATTAATTGCACTGCTAAGTAGGAAGATGTGTAACTTTTATTTGTTGCTATTACATTTGA
 ATTTTTXXXXXXXXXXXXXXXXXXXXXCTCGAC



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_003338 unedited</p> <pre> ATTTTGTAAATACGACTACTATAGGGGCGGCCGGAATTCGCACGAGGCGCGCTCGGGCG CACACGGAGCAGGGACCGGCCGCCGGAGCGAGCCAGGGAGCGGCTAACCGGGGACCCACC GCGCGGAGCCAGCCTAGCTGCCAGCGAGCCCAACCGCGACGCCACGCCCTGAGCCC CGCAGCCGACCCCTGCCGGCCGGTGTCCCACCGCCATCCCTGACCCATGGCGCTGAAGA GGATTAGAAAAGAAATTGAGTGATCTACAGCGCGATCCACCTGCTCACTGTTGAGCTGGAC CTGTGGGAGATGACTTGTCCACTGGCAAGCCACTATTATGGGGCCTCCTGATAGCGCAT ATCAAGGTGGAGTCTTCTTTCTCACTGTACATTTTCCGACAGATTATCCTTTTAAACCAC CAAAGATTGCTTTCACAACAAAAATTTACCATCCAAACATAAACAGTAATGGAAGTATTT GTCTCGATATTCTGAGGTCACAATGGTCACCAGCTCTGACTGTATCAAAAGTTTTATTGT CCATATGTTCTCTACTTTGTGATCCTAATCCAGATGACCCCTTAGTACCAGATATTGCAC AAATCTATAAATCAGACAAAAGAAAAATACAACAGACATGCAAGAGAATGGACTCAGAAAT ATGCAATGTA AAAATCAAAAACATTTTCATATATACCAGAGTACTGTA AAAATCTAGGTTT TTTTCAACATTAGCAGTAAATTGAGCACTGTTTACTGTTTCATTGTACCATGAAACCATT TGATTNTTACCCATTNTAAATGTGTTTCTGAAGCAAGACANAACANACTCCAANAATAC CCTTAAGACTGTGATGAGAGCATTATCATTNTGTATGCATTGAGAAAAGAACATTATTAT GGTTTNTAAGATACTGGNACATCTGCATCTTCAGCTTACAAGATCTACAATGCAGCTNGA AAGCAACCNAATNATNNTTTGCTGAAAT </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_003338 unedited</p> <pre> GCACGCAATCTATAGTCGAGTTTTTTTTTTTTTTTTTTTTTCAAGTTTCAAAAACTTTAAT AAAGAAAAAAGAAGACTTCCAAAAATAAATGCCACACAAAAGAAAGTTGTTTTTTTT TTTTGTTTAAAGGAAGATATTCAGAAACAAAACCCCTTACTATCAAAATATACTAAAT ATTTAAATCTAGGATGTTGAGTGTTCAAATTCAGGGCAAATGTAGCTTATAATAATATA GCTAAGTAAAAATTTTCATGATATGGCTGTTTTAAGACATCATTTTATAGATTTACTTTT TAAGCCTATATTTTCTTAAACATCCATTTCACAAATTCATTTAATTATTTTACATTCATTT ATAAAAACACATATTTTCTAACAATAGGTTATTTTGGGCTTTAATAATAATGAACCATGA CAAAATACTCAAGTGATTTAAATGCTTTGCTAATGACTACACCCATCACATATCTTACA TACTTCTACAGCTACTGCAATAATCAGAAGGGCTACAACGTTCCTTAAAAATGACTCA CTCAAGGTTGACAAGCATGCTAAACATTAAGAGATGTATTTTTCCCAAGTTAAACAT TAAAACCTTCTAGTTTTTCTTAAAAATCTATAAAGATAACCTGCTTATTTAAATCACTTTT CGATGGCAACTTATAAAAACAGAGGGAGGCATAATTNTAGAACTTCCTTTGTAACCTCTA TAGTAAAAAANAAGTTTTTCAAATGGTGATGGCATTAAATCCATTTTAGAAATCC TAGATCTTAAATGGTAAGAAATGTNATGTCAATTACATCAAGGTGGGGGGCATTTTAAATG AAATAATCTAGTGACTGTGCAGGTCTATAAGACCTTNTTAGNATGGTGATACTGCCTAT ACTCATTTAGTTCTTAAACAATTATCCTTTANATTAATCCAGAAAACCAATTCTCTAAT CTCCTTACGCAGGGATCACTTTTNTNCTATGACG </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_003338
Insert Size:	2680 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_003338.3](#), [NP_003329.1](#)

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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.