

## Product datasheet for **SC333573**

### UBE2D1 (NM\_001204880) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UBE2D1 (NM_001204880) Human Untagged Clone
Tag:	Tag Free
Symbol:	UBE2D1
Synonyms:	E2(17)KB1; SFT; UBC4/5; UBCH5; UBCH5A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC333573 representing NM_001204880. Blue=Insert sequence Red=Cloning site Green=Tag(s)

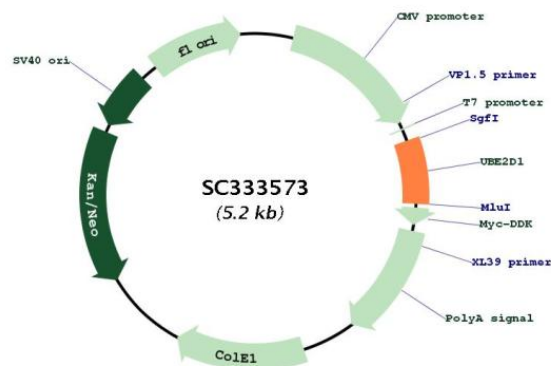
```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACTCCTGATAGCGCATATCAAGGTGGAGTCTTCTTTCTCACTGTACATTTCCGACAGATTATCCT
TTAAACCACCAAAGATTGCTTTCACAACAAAAATTTACCATCAAACATAAACAGTAATGGAAGTATT
TGTCTCGATATTCTGAGGTCACAATGGTCACCAGCTCTGACTGTATCAAAAGTTTTATTGTCCATATGT
TCTCTACTTTGTATCCTAATCCAGATGACCCCTTAGTACCAGATATTGCACAAATCTATAAATCAGAC
AAAGAAAATACAACAGACATGCAAGAGAATGGACTCAGAAATATGCAATGTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-Mlul



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## Plasmid Map:



**ACCN:** NM\_001204880

**Insert Size:** 330 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:	<a href="#">NM_001204880.1</a>
RefSeq Size:	2648 bp
RefSeq ORF:	330 bp
Locus ID:	7321
Cytogenetics:	10q21.1
Protein Pathways:	Ubiquitin mediated proteolysis
MW:	12.4 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. 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 (2) lacks an alternate coding exon compared to variant 1. The resulting isoform (2) uses a downstream start site and has a shorter and distinct N-terminus compared to 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.