

## Datasheet for ABIN7198581 **UBE2D4 Protein (His tag)**



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### Overview

Quantity:	100 µg
Target:	UBE2D4
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This UBE2D4 protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human UBE2D4 Protein (His Tag)
Sequence:	Met 1-Met 1474
Characteristics:	A DNA sequence encoding the human UBE2D4 (Q9Y2X8) (Met 1-Met 1474) was expressed, with a polyhistide tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.

### Target Details

Target:	UBE2D4
Alternative Name:	UBE2D4 ( <a href="#">UBE2D4 Products</a> )
Background:	Background: UBE2D4 is a member of the ubiquitin-conjugating E2 family whose members perform the second step in the ubiquitination reaction. Initially identified as the main process for protein degradation; ubiquitination is believed nowadays to be crucial for a wider range of cellular processes. The outcome of the ubiquitin-conjugation reaction; and thereby the fate of

## Target Details

the substrate; is heavily dependent on the number of ubiquitin molecules attached and how these ubiquitin molecules are inter-connected. To deal with this complexity and to allow adequate ubiquitination in time and space; a highly sophisticated conjugation machinery has been developed. In a sequential manner; ubiquitin becomes activated by an ubiquitin-activating enzyme (E1); which then transfers the ubiquitin to a group of ubiquitin-conjugating enzymes (E2s). Next; ubiquitin-loaded E2s are interacting with ubiquitin protein ligases (E3s) and ubiquitin is conjugated to substrates on recruitment by the E3. These three key enzymes are operating in a hierarchical system; wherein two E1s and 35 E2s have been found and hundreds of E3s have been identified in humans. It has been identified the UBE2D family (UBE2D1-4) as E2 partners for IDOL that support both autoubiquitination and IDOL-dependent ubiquitination of the LDLR in a cell-free system.

Synonym: Ubiquitin-Conjugating Enzyme E2 D4; HBUCE1; Ubiquitin Carrier Protein D4; Ubiquitin-Protein Ligase D4; UBE2D4; UBCH5D

UniProt: [Q9Y2X8](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile 20 mM Tris, 0.1M NaCl, 10 % glycerol, 2 mM DTT, pH 8.0

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.