# **PRODUCT INFORMATION**

**Expression system** E.coli

**Domain** 1-170aa

**UniProt No.** P62253

NCBI Accession No. NP\_003333

### **Alternative Names**

Ubiquitin-conjugating enzyme E2 G1, E2 ubiquitin-conjugating enzyme G1, E217K, UBC7, Ubiquitin carrier protein G1, Ubiquitin-protein ligase G1, UBE2G

# **PRODUCT SPECIFICATION**

### **Molecular Weight**

21.9 kDa (193aa) confirmed by MALDI-TOF

**Concentration** 0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing, 30% glycerol, 1mM DTT

Purity > 95% by SDS-PAGE

Tag His-Tag

Application SDS-PAGE

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

The modification of proteins with ubiquitin is an important cellular mechanism for targeting abnormal or shortlived 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. uE2G1 is a member of the E2 ubiquitin-conjugating enzyme family and catalyzes the covalent attachment of ubiquitin to other proteins. The protein may be involved in degradation of muscle-specific proteins. Recombinant human



uBE2G1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

#### **Amino acid Sequence**

MGSSHHHHHH SSGLVPRGSH MGSMTELQSA LLLRRQLAEL NKNPVEGFSA GLIDDNDLYR WEVLIIGPPD TLYEGGVFKA HLTFPKDYPL RPPKMKFITE IWHPNVDKNG DVCISILHEP GEDKYGYEKP EERWLPIHTV ETIMISVISM LADPNGDSPA NVDAAKEWRE DRNGEFKRKV ARCVRKSQET AFE

### **General References**

Shibata, E., et al. (2011) Mol. Cell. Biol. 31 (15), 3136-3145 Hassink, G., et al. (2005) Biochem. J. 388 (PT 2), 647-655

## DATA



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)