

## Recombinant Human UBE2G2 Protein (GST Tag)

**Catalog Number:** PKSH033184

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

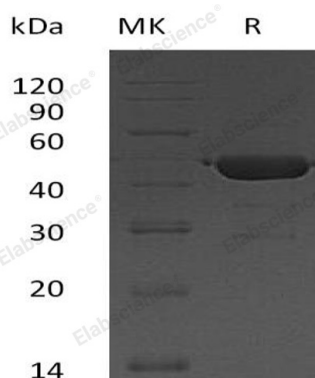
### Description

<b>Species</b>	Human
<b>Source</b>	E.coli-derived Human UBE2G2 protein Met 1-Leu165, with an N-terminal GST
<b>Mol_Mass</b>	45.0 kDa
<b>Accession</b>	P60604
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 50mM HEPES, 150mM NaCl, 2mM DTT, 10% Glycerol, pH 7.5.
<b>Reconstitution</b>	Not Applicable

### Data



> 95 % as determined by reducing SDS-PAGE.

### Background

Ubiquitin-Conjugating Enzyme E2 G2 (UBE2G2) is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation, which belong to the ubiquitin-conjugating enzyme family. It shares 60% and 100% sequence identity with *S.cerevisiae* Ubc7 and mouse respectively. The UBE2G2 enzyme and the GP78 E3 ligase are active components of endoplasmic reticulum-associated degradation pathway which is essential for the degradation of misfolded ER proteins. The mechanism of K48-linked poly-ubiquitination by UBE2G2/GP78 appears to involve the transfer of preassembled Ub chains from UBE2G2 to lysine residues in a substrate. The E2 and E3 enzymes form a large hetero-oligomer which brings multiple UBE2G2 molecules into close proximity which allows for Ub transfer between neighboring E2s.

### For Research Use Only

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