

Recombinant Human UBE2G2, GST-tagged

Cat. No. UBE2G2-7946H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human UbiquitinConjugating Enzyme E2 G2/UBE2G2 is produced by our E. coli expression system. The target protein is expressed with sequence (Met1Leu165) of Human UBE2G2 fused with a GST tag at the Nterminus.
Species	Human
Source	E.coli
Description	UbiquitinConjugating Enzyme E2 G2 (UBE2G2) is an important cellular mechanism for targeting abnormal or shortlived proteins for degradation, which belong to the ubiquitinconjugating 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 reticulumassociated degradation pathway which is essential for the degradation of misfolded ER proteins. The mechanism of K48linked polyubiquitination 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 heterooligomer which brings multiple UBE2G2 molecules into close proximity which allows for Ub transfer between neighboring E2s.
Form	Supplied as a 0.2 µM filtered solution of 50mM HEPES, 150mM NaCl, 2mM DTT, 10% Glycerol, pH 7.5
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Notes	For research use only.

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Storage

Store at less than 20°C. stable for 6 months after receipt. Please minimize freeze-thaw cycles.

GENE INFORMATION
Gene Name

UBE2G2 ubiquitin-conjugating enzyme E2G 2 [Homo sapiens]

Official Symbol

UBE2G2

Synonyms

UBE2G2; ubiquitin-conjugating enzyme E2G 2; ubiquitin conjugating enzyme E2G 2 (homologous to yeast UBC7) , ubiquitin conjugating enzyme E2G 2 (UBC7 homolog, yeast); ubiquitin-conjugating enzyme E2 G2; UBC7; ubiquitin-protein ligase G2; ubiquitin carrier protein G2; ubiquitin conjugating enzyme 7; ubiquitin conjugating enzyme G2; ubiquitin-conjugating enzyme E2G 2 (UBC7 homolog, yeast); ubiquitin-conjugating enzyme E2G 2 (homologous to yeast UBC7);

Gene ID

7327

mRNA Refseq

NM_001202489

Protein Refseq

NP_001189418

MIM

603124

UniProt ID

P60604

**Chromosome
Location**

21q22.3

Pathway

Adaptive Immune System, organism-specific biosystem; Antigen processing: Ubiquitination & Proteasome degradation, organism-specific biosystem; Class I MHC

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mediated antigen processing & presentation, organism-specific biosystem; Immune System, organism-specific biosystem; Parkinsons disease, organism-specific biosystem;

Function

ATP binding; acid-amino acid ligase activity; ligase activity; nucleotide binding; protein binding; ubiquitin-protein ligase activity;

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