

**MATERIAL DATA SHEET****His<sub>6</sub>-UBE2J1, human recombinant**  
**Cat. # E2-750**

UBE2J1 is a human homologue of the yeast Ubc6 protein. In yeast, this tail-anchored transmembrane E2 is localized to the cytoplasmic surface of the ER and participates in ER-associated degradation (ERAD) of misfolded proteins. UBE2J1 is reported to play a role in degradation of misfolded MHC class I molecules via a mechanism requiring the E3 ubiquitin ligase Hrd-1. This protein contains amino acids 2-282 and an N-terminal 6-His tag; the C-terminal transmembrane and luminal amino acid sequences (aa's 283-318) have been removed.

**Product Information**

<b>Quantity:</b>	50   100 µg
<b>Stock:</b>	0.80 mg/ml (25 µM) in 50 mM HEPES pH 8.0, 200 mM NaCl, 1 mM TCEP, and 10% Glycerol (v/v)
<b>MW:</b>	32 kDa
<b>Purity:</b>	> 95% by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie Blue stain.

**Use & Storage**

<b>Use:</b>	Recombinant Human UBE2J1 is a member of the Ubiquitin-conjugating enzyme (E2) family that receives ubiquitin from a Ubiquitin-activating enzyme (E1) and subsequently interacts with a Ubiquitin ligase (E3) to conjugate ubiquitin to substrate proteins. Reaction conditions will need to be optimized for each specific application. We recommend an initial UBE2J1 concentration of 0.1-1 µM.
<b>Storage:</b>	Store at -80°C. Avoid multiple freeze/thaw cycles.

**Literature**

<b>References:</b>	Burr M.L., <i>et al.</i> (2011) <u>Proc Natl Acad Sci.</u> <b>108</b> : 2034 Burr M.L., <i>et al.</i> (2013) <u>Proc Natl Acad Sci.</u> <b>110</b> : 14290 Lenk U., <i>et al.</i> (2002) <u>J Cell Sci.</u> <b>115</b> : 3007 Menon M.B., <i>et.al.</i> (2013) <u>Biochem J.</u> <b>456</b> : 163
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