UBE2G2 cDNA Clone – Ubiquitin-Conjugating Enzyme E2G 2 (UBC7 Homolog, Yeast) (Human)

PRODUCT OVERVIEW

Product Name	UBE2G2, cDNA Clone
Full Product Name	UBE2G2 cDNA Clone
Product Gene Name	UBE2G2 cdna clone
Sequence	atggcgggga ccgcgctcaa gaggctgatg gccgagtaca aacaattaac actgaatcct ccggaaggaa ttgtagcagg ccccatgaat gaagagaact tttttgaatg ggaggcattg atcatgggcc cagaagacac ctgctttgag tttggtgttt ttcctgccat cctgagtttc ccacttgatt acccgttaag tcccccaaag atgagattta cctgtgagat gtttcatccc aacatctacc ctgatgggag agtctgcatt tccatcctcc acgcgccagg cgatgacccc atgggctacg agagcagcgc ggagcggtgg agtcctgtgc agagtgtgga gaagatcctg ctgtcggtgg tgagcatgct ggcagagccc aatgacgaaa gtggagctaa cgtggatgcg tccaaaatgt ggcgcgatga ccgggagcag ttctataaga ttgccaagca gatcgtccag aagtctctgg gactgtga
Molecular Weight	15,614 Da
OMIM	603124
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for UBE2G2 cdna clone	MBS1273208 is a cDNA clone targeting UBE2G2.
Other Notes	Small volumes of UBE2G2 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for UBE2G2. It may not necessarily be applicable to this product.

NCBI GI #	12804628
NCBI GeneID	7327
NCBI Accession #	BC001738
UniProt Secondary Accession #	P56554; A6NMQ7; A8K3L4; D3DSL7
UniProt Related Accession #	P60604
NCBI Official Full Name	Homo sapiens ubiquitin-conjugating enzyme E2G 2 (UBC7 homolog, yeast), mRNA
NCBI Official Synonym Full Names	ubiquitin conjugating enzyme E2 G2
NCBI Official Symbol	UBE2G2
NCBI Official Synonym Symbols	UBC7
UniProt Protein Name	Ubiquitin-conjugating enzyme E2 G2
UniProt Synonym Protein Names	E2 ubiquitin-conjugating enzyme G2; Ubiquitin carrier protein G2; Ubiquitin-protein ligase G2
Protein Family	Ubiquitin-conjugating enzyme

UniProt Gene Name	UBE2G2
UniProt Entry Name	UB2G2_HUMAN
NCBI Protein Information	ubiquitin-conjugating enzyme E2 G2
NCBI Summary for UBE2G2	The modification of proteins with ubiquitin is an important cellular mechanism for targeting abnormal or short-lived 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. This gene encodes a member of the E2 ubiquitin-conjugating enzyme family. The encoded protein shares 100% sequence identity with the mouse counterpart. This gene is ubiquitously expressed, with high expression seen in adult muscle. Three alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jan 2011]
UniProt Comments for UBE2G2	UBE2G2: Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. In vitro catalyzes 'Lys- 48'-linked polyubiquitination. Involved in endoplasmic reticulum- associated degradation (ERAD). Belongs to the ubiquitin-conjugating enzyme family. Protein type: EC 6.3.2.19; Ubiquitin conjugating system; Ubiquitin ligase; Ligase; Endoplasmic reticulum Chromosomal Location of Human Ortholog: 21q22.3 Cellular Component: cytosol Molecular Function: protein binding; ubiquitin protein ligase binding; ubiquitin-protein ligase activity Biological Process: cellular protein catabolic process; ER-associated protein catabolic process; protein amino acid N-linked glycosylation via asparagine; ubiquitin-dependent protein catabolic process
Research Articles on UBE2G2	**1.** These results reveal an unanticipated mode of Ube2g2 self-association that allows Ube2g2 to effectively engage two ubiquitins to specifically synthesize Lys48-linked ubiquitin chains.
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