

Product datasheet for **SC105115**

UBE2D2 (AK001428) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UBE2D2 (AK001428) Human Untagged Clone
Tag:	Tag Free
Symbol:	UBE2D2
Synonyms:	E2(17)KB2; PUBC1; UBC4; UBC4/5; UBCH4; UBCH5B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC105115 sequence for AK001428 edited (data generated by NextGen Sequencing)

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ATGGCTCTGAAGAGAATCCACAAGGAATTGAATGATCTGGCACGGGACCCTCCAGCACAG
TGTTCAGCAGGTCTGTTGGAGATGATATGTTCCATTGGCAAGCTACAATAATGGGGCCA
AATGACAGTCCCTATCAGGGTGGAGTATTTTTCTTGACAATTCATTTCCAACAGATTAC
CCCTTCAAACCACCTAAGGTTGCATTTACAACAAGAATTTATCATCCAAATATTAACAGT
AATGGCAGCATTGTCTTGATATTCTACGATCACAGTGGTCTCCAGCACTAACTATTTCA
AAAGTACTCTTGCCATCTGTTCTCTGTTGTGTGATCCCAATCCAGATGATCCTTTAGTG
CCTGAGATTGCTCGGATCTACAAAACAGATAGAGAAAAGTACAACAGAATAGCTCGGGAA
TGGACTCAGAAGTATGCGATGTAA
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Clone variation with respect to AK001428.1



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5' Read Nucleotide Sequence:	>OriGene 5' read for AK001428 unedited TGGATTTTGTAAATACGACTTTACTATAGGGCGGCCGGAATTCGCACGAGAGCAGGGAGG AAGACAGGCAATCCCTCCGGCTGTCCGACCAAGAGAGGCCGGCCGAGCCCGAGGCTTGGG CTTTTGTCTTCTGGCGGAGGGATCTGCGGCGGTTAGGAGGCGGCGCTGATCCTGGGAGG AAGAGGCAGCTACGGCGGCGGCGGCGGTGGCGGCTAGGGCGGCGGCGAATAAAGGGGCCG CCGCCGGGTGATCGCGTGACCGCTGCGGCAGGCCAGGAGCTGAGTGGGCCCCGGCCCTC AGCCCGTCCC GCCGACCCGCTTTCCTCAACTCTCCATCTTCTCCTGCCGACCGAGATCG CCGAGGCCGGCCTCAGGCTCCCTAGCCCTTCCCGTCCCTTCCCGCCCCCGTCCCCGCC CCGGGGGCCGCCGCCACCCGCTCCACCATGGCTCTGAAGAGAATCCACAAGGAATTGA ATGATCTGGCACGGGACCCTCCAGCACAGTGTTCCAGCAGGTCCTGTTGGAGATGATATGT TCCATTGGCAAGCTACAATAATGGGGCCAAATGACAGTCCCTATCAGGGTGGAGTATTTT TCTTGACAATTCATTTCCCAACAGATTACCCCTTCAAACACCTAAGGTTGCATTACAA CAAGAATTTATCATCAAATATTAACAGTAATGGCAGCATTTGTCTTGATATTCTACGAT CACAGTGGTCTCCAGCACTAACTATTTCAAAGTACTCTTGCCATCTGTCTCTGTTGT GTGATCCCAATCCAGATGATCCTTTAGTGCCTGAGATTTGCTCGATCTNCAAACAGATGA GAAAAGTCCACAGATAGCTCGGGAATGACTCAGAGTATGCGATGTATTAAGAAATATGN ATACCTCTACAATAAGATAGGGGACTCTGAAGAGAAGTCTTTGATTCCATTGACTGCTT CTTGAGCCCC
Restriction Sites:	NotI-NotI
ACCN:	AK001428
Insert Size:	2000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	AK001428.1 , BAG50911.1
RefSeq Size:	2526 bp
RefSeq ORF:	2526 bp
Locus ID:	7322
Cytogenetics:	5q31.2
Domains:	UBCc
Protein Pathways:	Ubiquitin mediated proteolysis

Gene Summary:

Regulated degradation of misfolded, damaged or short-lived proteins in eukaryotes occurs via the ubiquitin (Ub)-proteasome system (UPS). An integral part of the UPS system is the ubiquitination of target proteins and covalent linkage of Ub-containing proteins to form polymeric chains, marking them as targets for 26S proteasome-mediated degradation. Ubiquitination of proteins is mediated by a cascade of enzymes which includes E1 (ubiquitin activating), E2 (ubiquitin conjugating), and E3 (ubiquitin ligases) enzymes. This gene encodes a member of the E2 enzyme family. Substrates of this enzyme include the tumor suppressor protein p53 and peroxisomal biogenesis factor 5 (PEX5). Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, May 2013]