

## Product datasheet for **RR214498**

### Ube2d2 (NM\_001037292) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ube2d2 (NM\_001037292) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ube2d2  
**Synonyms:** E217kB; Ubc2e  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR214498 representing NM\_001037292  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCTCTGAAGAGAATCCACAAGGAATTGAATGACCTGGCTCGAGATCCTCCAGCACAGTGTTCAGCAG  
GTCCTGTTGGAGATGATATGTTTCATTGGCAGGCTACAATAATGGGGCCAATGACAGCCCTATCAGGG  
TGGAGTATTTTTCTGACTATTCATTTCCCAACAGATTACCCCTCAAACCGCTAAGGTTGCATTTACA  
ACAAGAATTTATCATCCAAATATTAACAGTAATGGCAGCATTGTCTTGATATTCTACGGTCACAGTGGT  
CTCCAGCACTAACTATTTCAAAGTACTTTGTCCATCTGTTCTCTGTTGTGTGATCCCAATCCAGATGA  
TCCTTTAGTGCCTGAGATTGCTCGGATCTACAAAACAGATAGAGAAAAGTACAACAGAATAGCTCGGGAA  
TGGACTCAGAAGTATGCCATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR214498 representing NM\_001037292  
**Red=Cloning site Green=Tags(s)**

MALKRIHKELNDLARDPPAQCSAGPVGDDMFHWQATIMGPNDSPYQGGVFFLTIHFPTDYPFKPPKVAFT  
TRITYHPNINSNGSICLDILRSQWSPAL TISKVLLSICSLLCDPNPDDPLVPEIARIYKTDREKYNRIARE  
WTQKYAM

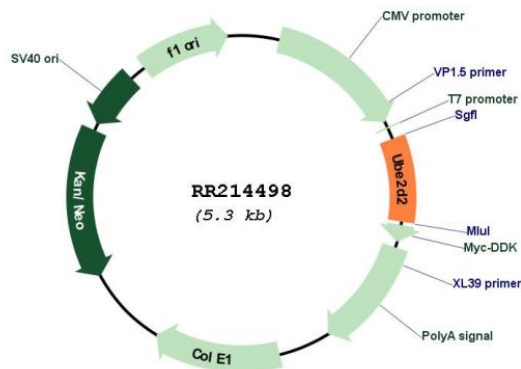
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001037292

**ORF Size:** 441 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001037292.1, NP_001032369.1</u>
<b>RefSeq Size:</b>	915 bp
<b>RefSeq ORF:</b>	444 bp
<b>Locus ID:</b>	641452
<b>UniProt ID:</b>	<u>P62839</u>
<b>Cytogenetics:</b>	18p11
<b>MW:</b>	16.7 kDa
<b>Gene Summary:</b>	Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. In vitro catalyzes 'Lys-48'-linked polyubiquitination. Mediates the selective degradation of short-lived and abnormal proteins. Functions in the E6/E6-AP-induced ubiquitination of p53/TP53. Mediates autoubiquitination of STUB1 and TRAF6. Involved in the signal-induced conjugation and subsequent degradation of NFKBIA, FBXW2-mediated GCM1 ubiquitination and degradation, MDM2-dependent degradation of p53/TP53 and the activation of MAVS in the mitochondria by DDX58/RIG-I in response to viral infection. Essential for viral activation of IRF3 (By similarity). Mediates ubiquitination of PEX5. [UniProtKB/Swiss-Prot Function]