

## Product datasheet for **MC210396**

### Ube2v1 (NM\_023230) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ube2v1 (NM\_023230) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Ube2v1  
**Synonyms:** 0610011J09Rik; AI256840; CROC-1; CROC1; D7Bwg1382e; UEV-1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC210396 representing NM\_023230  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCAGCCACCACAGGCTCGGGAGTAAAAGTCCCTCGAAATTTCCGACTGTTGGAAGAGCTGGAAGAAG  
GACAGAAAGGAGTAGGCGACGGCACAGTTAGCTGGGTCTGGAGGACGACGAGGACATGACACTTACAAG  
ATGGACAGGCATGATAATTGGACCTCCACGAACAATCTATGAAAACCGAATATACAGCCTTAAGATAGAG  
TGTGGCCTAAGTACCCAGAGGCACCCCGTCTGTAAGATTGTAACAAGAGTCAATATGAGCGGCGTGA  
GCAGTTCGAATGGAGTGGTGGATCCGAGAGCCACGGCAGTGTGGCAAAGTGGCAGAACTCCACAGCAT  
CAAAGTCATCCTGCAGGAACTGCGGCGCCTGATGATGTCAAAGAGAACATGAAGCTGCCACAGCCGCC  
GAAGGACAGTGTACAGCAAT**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI  
**ACCN:** NM\_023230  
**Insert Size:** 444 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).



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<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><a href="#">NM_023230.2</a></u> , <u><a href="#">NP_075719.1</a></u>
<b>RefSeq Size:</b>	1950 bp
<b>RefSeq ORF:</b>	444 bp
<b>Locus ID:</b>	66589
<b>UniProt ID:</b>	<u><a href="#">Q9CZY3</a></u>
<b>Cytogenetics:</b>	2 87.44 cM
<b>Gene Summary:</b>	<p>Has no ubiquitin ligase activity on its own. The UBE2V1-UBE2N heterodimer catalyzes the synthesis of non-canonical poly-ubiquitin chains that are linked through 'Lys-63'. This type of poly-ubiquitination activates IKK and does not seem to involve protein degradation by the proteasome. Plays a role in the activation of NF-kappa-B mediated by IL1B, TNF, TRAF6 and TRAF2. Mediates transcriptional activation of target genes. Plays a role in the control of progress through the cell cycle and differentiation (By similarity). Plays a role in the error-free DNA repair pathway and contributes to the survival of cells after DNA damage. Promotes TRIM5 capsid-specific restriction activity and the UBE2V1-UBE2N heterodimer acts in concert with TRIM5 to generate 'Lys-63'-linked polyubiquitin chains which activate the MAP3K7/TAK1 complex which in turn results in the induction and expression of NF-kappa-B and MAPK-responsive inflammatory genes (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks an internal exon which results in the use of an alternate start codon compared to variant 1. The encoded isoform (2) is shorter and has a distinct N-terminus compared to isoform 1.</p>