

## Product datasheet for **MR200994**

### Ube2v1 (NM\_023230) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ube2v1 (NM\_023230) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ube2v1  
**Synonyms:** 0610011J09Rik; A1256840; CROC-1; CROC1; D7Bwg1382e; UEV-1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR200994 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCAGCCACCACAGGCTCGGGAGTAAAAGTCCCTCGAAATTTCCGACTGTTGGAAGAGCTGGAAGAAG  
GACAGAAAGGAGTAGGCGACGGCACAGTTAGCTGGGGTCTGGAGGACGACGAGGACATGACACTTACAAG  
ATGGACAGGCATGATAATTGGACCTCCACGAACAATCTATGAAAACCGAATATACAGCCTTAAGATAGAG  
TGTGGGCCTAAGTACCCAGAGGCACCCCGTCTGTAAGATTCGTAACAAGAGTCAATATGAGCGCGTGA  
GCAGTTTGAATGGAGTGGTGGATCCGAGAGCCACGGCAGTCTGGCAAAGTGGCAGAAGTCCACAGCAT  
CAAAGTCATCCTGCAGGAAGTCCGGCGCCTGATGATGTCAAAGAGAACATGAAGCTGCCACAGCCGCC  
GAAGGACAGTGTACAGCAAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR200994 protein sequence  
Red=Cloning site Green=Tags(s)  
MAATTGSGVKVPRNFRLLLEEELGQKGVGDGTVSWGLEDDEMTLTRWTGMIIGPPRTIYENRIYSLKIE  
CGPKYPEAPPSVRFVTRVNMMSGVSSNNGVVDPRATAVLAKWQNSHSIKVILQELRRLMMSKENMKLPQPP  
EGQCYSN

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



**Cloning Scheme:**


**ACCN:** NM\_023230

**ORF Size:** 444 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.

**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:**
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:** [NM\\_023230.2](#), [NP\\_075719.1](#)

**RefSeq Size:** 1950 bp

**RefSeq ORF:** 444 bp

**Locus ID:** 66589

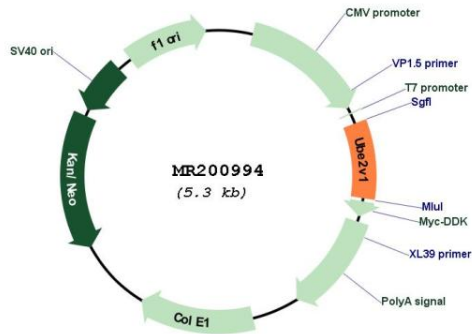
**UniProt ID:** [Q9CZY3](#)

**Cytogenetics:** 2 87.44 cM

**MW:** 16.4 kDa

**Gene Summary:** 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]

**Product images:**



Circular map for MR200994