

## Product datasheet for MC209613

### Ube2b (NM\_009458) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ube2b (NM_009458) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ube2b
Synonyms:	2610301N02Rik; E2-14k; HR6B; mHR6B; Rad6b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC209613 representing NM_009458 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGACCCCGCCCGTAGGAGGCTCATGCGGGATTTCAAGCGATTGCAAGAGGACCCACCTGTGGGG  
TCAGTGGCGCCCATCTGAAAACAACATCATGCAGTGGAAATGCAGTTATATTTGGACCAGAAGGGACACC  
CTTTGAAGATGGTACTTTTAAACTAGTAATAGAATTTTCTGAAGAATATCCAAATAAACCACCAACCGTT  
AGGTTTTTATCCAAAATGTTTCATCCAAATGTGTATGCTGATGGTAGCATATGTTTAGATATCCTGCAGA  
ATCGATGGAGTCCACATATGATGTCTCTCCATCTTAACCTCCATTTCAGTCTCTGCTGGATGAACCGAA  
TCCAAACAGTCCAGCCAACAGCCAAGCAGCACAGCTTTATCAGGAAAACAACCGGAGTATGAGAAGAGA  
GTTTCGGCCATTGTTGAGCAAAGCTGGAATGATTC**ATAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_009458
Insert Size:	459 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_009458.4</a></u> , <u><a href="#">NP_033484.3</a></u>
<b>RefSeq Size:</b>	2141 bp
<b>RefSeq ORF:</b>	459 bp
<b>Locus ID:</b>	22210
<b>UniProt ID:</b>	<u><a href="#">P63147</a></u>
<b>Cytogenetics:</b>	11 B1.3
<b>Gene Summary:</b>	Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. In association with the E3 enzyme BRE1 (RNF20 and/or RNF40), it plays a role in transcription regulation by catalyzing the monoubiquitination of histone H2B at 'Lys-120' to form H2BK120ub1. H2BK120ub1 gives a specific tag for epigenetic transcriptional activation, elongation by RNA polymerase II, telomeric silencing, and is also a prerequisite for H3K4me and H3K79me formation. In vitro catalyzes 'Lys-11'-, as well as 'Lys-48'- and 'Lys-63'-linked polyubiquitination. Required for postreplication repair of UV-damaged DNA. Associates to the E3 ligase RAD18 to form the UBE2B-RAD18 ubiquitin ligase complex involved in mono-ubiquitination of DNA-associated PCNA on 'Lys-164'. May be involved in neurite outgrowth. [UniProtKB/Swiss-Prot Function]