

Product datasheet for **MR226043**

Ube2b (NM_009458) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ube2b (NM_009458) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ube2b
Synonyms: 2610301N02Rik; E2-14k; HR6B; mHR6B; Rad6b
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR226043 representing NM_009458
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGACCCCGCCCGTAGGAGGCTCATGCGGGATTTCAAGCGATTGCAAGAGGACCCACCTGTGGGG
TCAGTGGCGCCCATCTGAAAACAACATCATGCAGTGGAAATGCAGTTATATTTGGACCAGAAGGGACACC
CTTTGAAGATGGTACTTTTAACTAGTAATAGAATTTTCTGAAGAATATCCAAATAAACCACCAACCGTT
AGGTTTTATCCAAAATGTTTCATCCAAATGTGTATGCTGATGGTAGCATATGTTTAGATATCCTGCAGA
ATCGATGGAGTCCACATATGATGTCTCTCCATCTTAACCTCCATTAGTCTCTGCTGGATGAACCGAA
TCCAAACAGTCCAGCCAACAGCCAAGCAGCACAGCTTTATCAGGAAAACAACGGGAGTATGAGAAGAGA
GTTTCGGCCATTGTTGAGCAAAGCTGGAATGATTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226043 representing NM_009458
Red=Cloning site Green=Tags(s)
MSTPARRRLMRDFKRLQEDPPVGVSGAPSENNIMQWNAVIFGPEGTPFEDGTFKLVIEFSEEYPNKPPTV
RFLSKMFHPNVYADGSICLDILQNRWSPYDVSSILTSIQSLLEPNPNPANSQAAQLYQENKREYEKR
VSAIVEQSWNDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

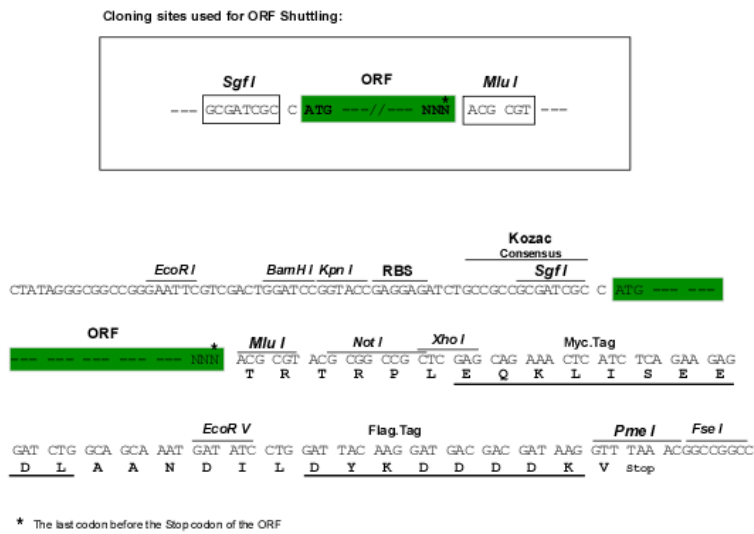
Chromatograms: https://cdn.origene.com/chromatograms/mm9042_c10.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009458

ORF Size: 456 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_009458.5](#)

RefSeq Size: 2141 bp

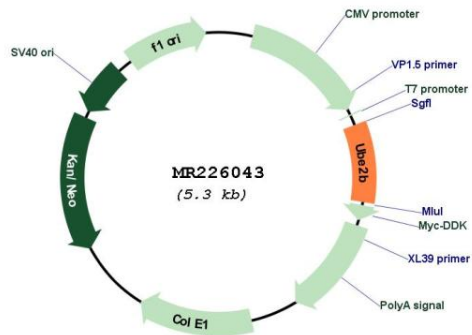
RefSeq ORF: 459 bp

Locus ID: 22210

UniProt ID: [P63147](#)
Cytogenetics: 11 B1.3
MW: 17.8 kDa

Gene Summary: 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]

Product images:



Circular map for MR226043