

## Product datasheet for MR228162

### Ube2m (NM\_001243968) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ube2m (NM\_001243968) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ube2m  
**Synonyms:** 2510040H03Rik; Ubc-rs2; UBC12  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR228162 representing NM\_001243968  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCGGCCCTGATATTTGACATTAACGAGCTGAACCTGCCAAGACGTGTGACATCAGCTTCTCAGACC  
CAGACGACCTCTCAACTCAAGCTGGTATCTGTCCTGATGAAGGCTTCTACAAAAGTGCAAGTTTGT  
ATTCAGCTTTAAGGTGGGACAGGTTACCCACATGACCCTCCCAAGGTGAAGTGTGAAACAATGGTTTAT  
CATCCCAACATTGACCTCGAGGGCAACGTCTGCCTCAACATCCTCAGAGAGGACTGGAAGCCAGTCTTA  
CGATAAACTCCATAATTTATGGCCTGCAGTATCTCTTCTTGAGCCGAACCCTGAGGACCCACTGAACAA  
GGAGGCTGCTGAGGTCTGCAGAACACCGCGGCTGTTTGAACAAAATGTGCAGCGCTCCATGAGAGGT  
GGTTACATCGGGTCCACCTACTTCGAGCGCTGCCTGAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR228162 representing NM\_001243968  
Red=Cloning site Green=Tags(s)

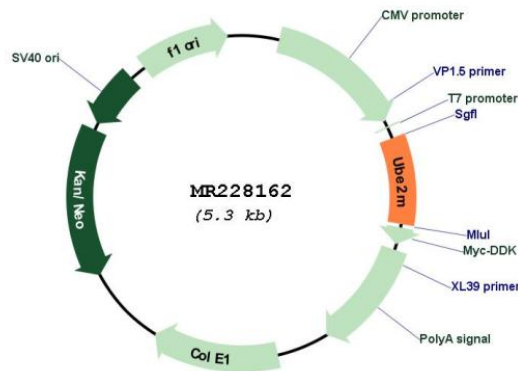
MRPLIFDINELNLPKTCDISFSDPDDLNFKLVICPDEGFYKSGKFVFSFKVGGQYHPDPPKVKCETMVY  
HPNIDLEGNVCLNLRDWDKPVLTINSIIYGLQYLFLPNPEDPLNKEAAEVLQNNRRLFEQNVQSRMRG  
GYIGSTYFERCLK

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



**Cloning Scheme:**

**Plasmid Map:**


ACCN: NM\_001243968

ORF Size: 459 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_001243968.1, NP_001230897.1</u>
<b>RefSeq Size:</b>	1010 bp
<b>RefSeq ORF:</b>	462 bp
<b>Locus ID:</b>	22192
<b>Cytogenetics:</b>	7 7.73 cM
<b>MW:</b>	18.2 kDa
<b>Gene Summary:</b>	Accepts the ubiquitin-like protein NEDD8 from the UBA3-NAE1 E1 complex and catalyzes its covalent attachment to other proteins. The specific interaction with the E3 ubiquitin ligase RBX1, but not RBX2, suggests that the RBX1-UBE2M complex neddylates specific target proteins, such as CUL1, CUL2, CUL3 and CUL4. Involved in cell proliferation (By similarity). [UniProtKB/Swiss-Prot Function]