

## Product datasheet for **RR208623**

### Ube2f (NM\_001008381) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ube2f (NM\_001008381) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ube2f  
**Synonyms:** RGD1307608  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR208623 representing NM\_001008381  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCTAACTCTGGCAAGCAAGTTGAAGCGGGATGATGGTCTCAAAGGATCCCGGGCCTCAGCCTCCACAT  
CCGACTCCACTCGGAGGGTTTCTGTGAGAGACAAGTTGCTTGTTAAAGAGGTTGCAGAACTGAAGCTAA  
TTTACCTTATGAGGGTTACTACCAGGGTGAAAATTTTCAGTTTGAAGTGAAGTTCTGTGCCTACAAC  
ATGGTGCCTCCCAAGGTGAAATGCTTGACTAAAATCTGGCACCCCAACATCACAGAAACAGGGGAAATAT  
GCCTAAGTTTACTAAGAGAACATTCAATTGATGGCACTGGCTGGGCTCCCACTAGAACGTTAAAGGATGT  
TGTTTGGGGATTAAGTCTTTATTTACTGATCTTTGAATTTTGGATGATCCACTGAACATTGAAGCTGCA  
GAACATCATTTGCGGGACAAGGAAGATTTTCGGGACAAAGTGGATGAATACATCAAACGCTATGCCAGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR208623 representing NM\_001008381  
**Red=Cloning site Green=Tags(s)**

MLTLASKLKRDDGLKGSRASASTSDSTRVSVRDKLLVKEVALEANLPYEGYYQGGKFFQFETEVDPDAYN  
MVPPKVCLTKIWHPNITETGEICLSLLREHSIDGTGWAPRTLKDVVWGLNSLFDLLNFDDPLNIEAA  
EHHLRDKEDFRDKVDEYIKRYAR

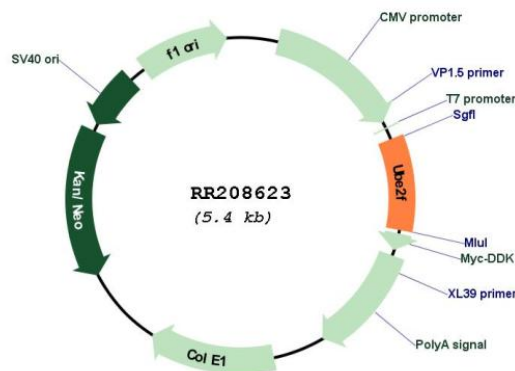
**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**

**Plasmid Map:**


ACCN: NM\_001008381

ORF Size: 489 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_001008381.1, NP_001008382.1</u>
<b>RefSeq Size:</b>	1145 bp
<b>RefSeq ORF:</b>	492 bp
<b>Locus ID:</b>	363284
<b>UniProt ID:</b>	<u>Q5U203</u>
<b>Cytogenetics:</b>	9q36
<b>MW:</b>	18.6 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 RBX2, but not RBX1, suggests that the RBX2-UBE2F complex neddylates specific target proteins, such as CUL5.[UniProtKB/Swiss-Prot Function]