

## Product datasheet for **MG222626**

### Ube2i (NM\_001177610) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ube2i (NM\_001177610) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Ube2i  
**Synonyms:** 5830467E05Rik; F830028O17Rik; UBC9; Ubce2i; Ubce9  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG222626 representing NM\_001177610  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGGGGATCGCCCTCAGCCGCTTGCAGGAAAGGAAAGCCTGGAGGAAGGACCACCTTTGGCT  
TTGTAGCTGTCCCAACAAAGAACCCTGATGGCACAATGAACCTGATGAACGGGAGTGGCTATCCCTGG  
AAAGAAGGGGACTCCATGGGAAGGAGGCTTGTTCAGCTACGGATGCTTTCAAAGATGACTATCCGTCC  
TCACCACCAAAATGTAATTTGAGCCCCACTGTTTCATCAAACGTGTATCCTTCTGGCACAGTGTGCC  
TGTCATCCTGGAGGAAGACAAGGACTGGAGGCCAGCTATCACCATCAAACAGATCTTATTAGGAATACA  
AGAACTTCTAAATGAACCAATATTCAAGACCCAGCTCAAGCAGAGGCCTACACAATTTACTGCCAAAAC  
AGAGTGAATATGAGAAAAGGTCGAGCACAAGCGAAGAAGTTGCCCCCTCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG222626 representing NM\_001177610  
Red=Cloning site Green=Tags(s)

MSGIALSRLAQRKAWRKDHPFGFVAVPTKNPDGMNLMNWECAIPGKKGTPWEGGLFKLRMLFKDDYPS  
SPPKCKFEPPLFHPNVYPSGTVCLSIIEEDKDWRAITIKQILLGIQELLNEPNIQDPAQAEAYTIYQCN  
RVEYEKRVRAQAKKFAPS

**TR**TRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

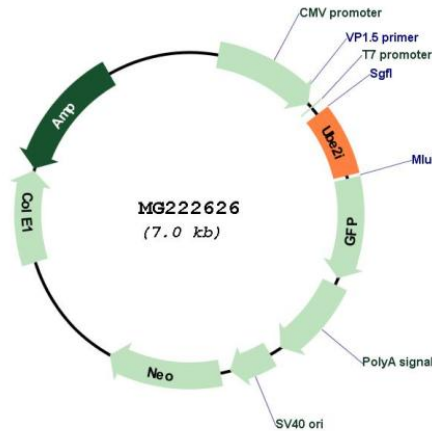


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001177610

ORF Size: 474 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_001177610.1, NP_001171081.1</u>
<b>RefSeq Size:</b>	2516 bp
<b>RefSeq ORF:</b>	477 bp
<b>Locus ID:</b>	22196
<b>UniProt ID:</b>	<u>P63280</u>
<b>Cytogenetics:</b>	17 A3.3
<b>Gene Summary:</b>	Accepts the ubiquitin-like proteins SUMO1, SUMO2 and SUMO3 from the UBLE1A-UBLE1B E1 complex and catalyzes their covalent attachment to other proteins with the help of an E3 ligase such as RANBP2, CBX4 and ZNF451. Can catalyze the formation of poly-SUMO chains. Essential for nuclear architecture, chromosome segregation and embryonic viability. Necessary for sumoylation of FOXL2 and KAT5 (By similarity). Sumoylates p53/TP53 at 'Lys-386'. [UniProtKB/Swiss-Prot Function]