

## Product datasheet for MR202030L3

### Ube2k (NM\_016786) Mouse Tagged Lenti ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ube2k (NM_016786) Mouse Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	Ube2k
Synonyms:	AW492011; D5Ertdd601e; E2-25k; HIP-2; Hip2; Hypg; Lig
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR202030).
Restriction Sites:	SgfI-MluI
Cloning Scheme:	

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF.

ACCN:	NM_016786
ORF Size:	600 bp



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_016786.3</a>
<b>RefSeq Size:</b>	4866 bp
<b>RefSeq ORF:</b>	603 bp
<b>Locus ID:</b>	53323
<b>UniProt ID:</b>	<a href="#">P61087</a>
<b>Cytogenetics:</b>	5 33.72 cM
<b>Gene Summary:</b>	Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. In vitro, in the presence or in the absence of BRCA1-BARD1 E3 ubiquitin-protein ligase complex, catalyzes the synthesis of 'Lys-48'-linked polyubiquitin chains. Does not transfer ubiquitin directly to but elongates monoubiquitinated substrate protein. Mediates the selective degradation of short-lived and abnormal proteins, such as the endoplasmic reticulum-associated degradation (ERAD) of misfolded luminal proteins. Ubiquitinates huntingtin. May mediate foam cell formation by the suppression of apoptosis of lipid-bearing macrophages through ubiquitination and subsequent degradation of p53/TP53. Proposed to be involved in ubiquitination and proteolytic processing of NF-kappa-B; in vitro supports ubiquitination of NFKB1. Involved in stabilization of CASP12 during ER stress-mediated amyloid-beta neurotoxicity probably by inhibiting proteasome activity; in vitro ubiquitinates CASP12.[UniProtKB/Swiss-Prot Function]

MR202030L3  
(7.6 kb)

Genetic elements and features shown in the circular map:

- CAT (Cam-r)**: Antibiotic resistance gene.
- 5'-LTR**: 5' Long Terminal Repeat.
- CMV**: Cytomegalovirus promoter.
- Ube2k**: Ubiquitin-conjugating enzyme 2k gene (highlighted in orange).
- Puro**: Puromycin resistance gene.
- LR50**: Origin of replication for the shuttle vector.
- WPRE**: Woodchuck Pre-microRNA Enhancer.
- 3'-LTR**: 3' Long Terminal Repeat.
- ColE1**: Colony-forming efficiency enhancer.
- Restriction sites**: P2K, DDR, MYC, Mint, Y2, Y7, and gsfI are indicated near the Puro and Ube2k genes.