

## Product datasheet for **MC200177**

### Ube2k (NM\_016786) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ube2k (NM_016786) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ube2k
Synonyms:	AW492011; D5Ertd601e; E2-25k; HIP-2; Hip2; Hypg; Lig
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC002013 sequence for NM_016786

GAGGTGGCAGCGGTGGCGGTGGTCGTAGCGGTGGCGGAGGAGCGGGTACGAATCAGCTGCGGGCAGAGA  
 CATGGCCAACATCGCGGTGCAGCGAATCAAGCGGGAGTTCAAGGAGGTGCTGAAGAGCGAGGAGACGAGC  
 AAAAAATCAAATTAAGTAGATCTTGTAGATGAGAATTTTACAGAATTAAGAGGAGAAATAGCAGGACCTC  
 CAGACACACCGTATGAAGGTGGAAGATATCAACTAGAGATAAAAAATACCAGAAACATATCCATTTAACCC  
 CCTAAGTCCGTTTATCACTAAAATATGGCACCTAATATTAGTTCCTGCACAGGGGCTATTTGTTTG  
 GATATCTGAAAGATCAATGGGCAGCAGCAATGACTCTGCGCACGGTATTATTGTCATTGCAAGCGCTGT  
 TGGCGGTGCAGAACAGATGACCCCCAAGATGCAGTAGTAGCGAATCAGTACAAACAGAATCCTGAAAT  
 GTTCAAGCAGACAGCTCGACTTTGGGCACACGTGTACGCTGGAGCACCAGTTTCTAGTCCAGAATACACC  
 AAAAAATAGAAAACCTCTGTGCTATGGGTTTTGATAGGAACGCAGTAATAGTGGCCTTGCTTCAAAT  
 CATGGGATGTAGAGACTGCAACAGAACTGCTTCTGAGTAAGTGGCACAGGAGCTGCGCCAGCATCGCT  
 CTCGCCTCTTGAGGAGCATCAACACCTGTTATTTTATAGGATTCTGCATAAAGTTCTTTAACTGGCATT  
 CTTGCCTAATGATGTTACCTAGGCACCATTGGAGACTGCAAAAAAAAAAAAAATTCCTGCTCTGTAATA  
 AAGCTAATTAACGTCTGTGTAATTTAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites:	RsrII-NotI
ACCN:	NM_016786
Insert Size:	603 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).


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<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>	<u><a href="#">BC002013</a></u> , <u><a href="#">AAH02013</a></u>
<b>RefSeq Size:</b>	894 bp
<b>RefSeq ORF:</b>	603 bp
<b>Locus ID:</b>	53323
<b>UniProt ID:</b>	<u><a href="#">P61087</a></u>
<b>Cytogenetics:</b>	5 33.72 cM
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>