

## Product datasheet for **MG202030**

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ube2k (NM\_016786) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Ube2k  
**Synonyms:** AW492011; D5Ertd601e; E2-25k; HIP-2; Hip2; Hypg; Lig  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG202030 representing NM\_016786  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCAACATCGCGGTGCAGCGAATCAAGCGGGAGTTCAAGGAGGTGCTGAAGAGCGAGGAGACGAGCA  
AAAATCAAATTAAGTAGATCTTGATAGAGATAATTTACAGAATTAAGAGGAGAAATAGCAGGACCTCC  
AGACACACCGTATGAAGGTGGAAGATATCAACTAGAGATAAAAAACCAGAAACATATCCATTTAACCC  
CCTAAGGTCCGGTTTACTACTAAAATATGGCACCTAATATTAGTCCGTCACAGGGCTATTTGTTGG  
ATATCCTGAAAGATCAATGGGCAGCAGCAATGACTCTGCGCACGGTATTATTGTCATTGCAAGCGCTGTT  
GGCGGCTGCAGAACCAGATGACCCCAAGATGCAGTAGTAGCGAATCAGTACAAACAGAATCCTGAAATG  
TTCAAGCAGACAGCTCGACTTTGGGCACACGTGTACGCTGGAGCACCAGTTTCTAGTCCAGAATACACCA  
AAAAAATAGAAAACCTCTGTGCTATGGGTTTTGATAGGAACGCAGTAATAGTGGCCTTGCTTCAAATC  
ATGGGATGTAGAGACTGCAACAGAACTGCTTCTGAGTAAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG202030 representing NM\_016786  
Red=Cloning site Green=Tags(s)

MANIAVQRIKREFKEVLKSEETSKNQIKVDLVDFNFTLRGEIAGPPDTPYEGGRYQLEIKIPETYPFNP  
PKVRFITKIWHPNISSVTGAICLDILKDQWAAAMTLRTVLLSLQALLAAEPDDPQDAVVANQYKQNP  
FKQTARLWAHVYAGAPVSSPEYTKKIENLCAMGFDRNAVIVALSSKSWDVETATELLLSN

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** [NM\\_016786.4](#)

**RefSeq Size:** 4866 bp

**RefSeq ORF:** 603 bp

**Locus ID:** 53323

**UniProt ID:** [P61087](#)

**Cytogenetics:** 5 33.72 cM

**Gene Summary:** 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]