

Product datasheet for MR202030

Ube2k (NM_016786) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ube2k (NM_016786) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ube2k
Synonyms: AW492011; D5Ertd601e; E2-25k; HIP-2; Hip2; Hypg; Lig
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR202030 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCAACATCGCGGTGCAGCGAATCAAGCGGGAGTTCAAGGAGGTGCTGAAGAGCGAGGAGACGAGCA
 AAAATCAAATTAAGTAGATCTTGTAGATGAGAATTTTACAGAATTAAGAGGAGAAATAGCAGGACCTCC
 AGACACACCGTATGAAGGTGGAAGATATCAACTAGAGATAAAAAACCAGAAACATATCCATTTAACCC
 CCTAAGGTCGGTTTATCACTAAAATATGGCACCTAATATTAGTTCGTCACAGGGGCTATTTGTTGG
 ATATCCTGAAAGATCAATGGGCAGCAGCAATGACTCTGCGCACGGTATTATTGTCATTGCAAGCGCTGTT
 GGCGGCTGCAGAACAGATGACCCCAAGATGCAGTAGTAGCGAATCAGTACAAACAGAATCCTGAAATG
 TTCAAGCAGACAGCTCGACTTTGGGCACACGTGTACGCTGGAGCACCAGTTTCTAGTCCAGAATACACCA
 AAAAAATAGAAAACCTCTGTGCTATGGGTTTTGATAGGAACGCAGTAATAGTGGCCTTGTCTTCAAATC
 ATGGGATGTAGAGACTGCAACAGAACTGCTTCTGAGTAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR202030 protein sequence
 Red=Cloning site Green=Tags(s)

MANIAVQRIKREFKEVLKSEETSKNQIKVDLVDENFTELARGEIAGPPDTPYEGGRYQLEIKIPETYPFNP
 PKVRFITKIWHPNISSVTGAICLDILKDQWAAAMTLRTVLLSLQALLAAAEPPDQDAVVANQYKQNPEN
 FKQTARLWAHVYAGAPVSSPEYTKKIENLCAMGFDRNAIVALSSKSWDVETATELLLSN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

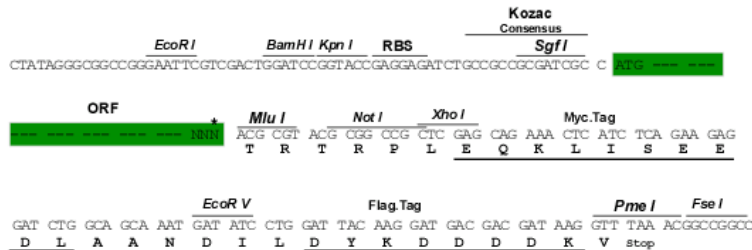
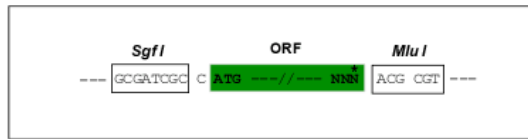


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Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_016786

ORF Size: 603 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.

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).

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

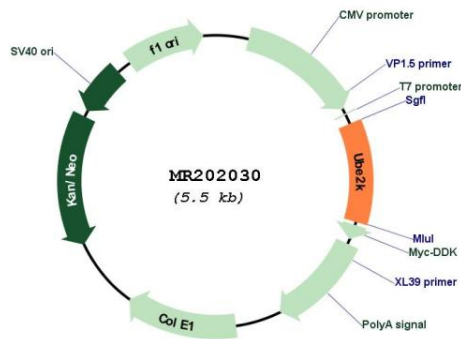
UniProt ID: [P61087](#)

Cytogenetics: 5 33.72 cM

MW: 22.4 kDa

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]

Product images:



Circular map for MR202030