

Product datasheet for **MR201097**

Ube2n (NM_080560) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ube2n (NM_080560) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ube2n
Synonyms: 1500026J17Rik; AL022654; BB101821; UBC13
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201097 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGGGTGCCCGCAGGATCATCAAGGAAACCCAGCGTTTCTGGCAGAACCAGTTCCTGGCATT
AAGCAGAACCAGATGAGAGCAACGCCGTTATTTTCATGTGGTCATTGCTGGCCCCAGGATTCCTCCCTT
TGAGGGAGGGACTTTAACTTGAATTCCTCCAGAAGAATACCCAATGGCAGCACCTAAAGTACGT
TTCATGACAAAATTTATCATCCTAATGTAGACAAGTTGGGAAGAATATGTTTAGATATTTGAAAGATA
AGTGGTCCCAGCACTGCAGATCCGCACAGTTCTGCTATCAATCCAGGCTTTGTTAAGTGCTCCTAATCC
AGATGATCCATTAGCAAATGATGTAGCCGAGCAATGGAAGACCAACGAAGCCCAAGCCATAGAAACAGCG
AGAGCATGGACTAGGCTATATGCCATGAACAATATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201097 protein sequence
Red=Cloning site Green=Tags(s)
MAGLPRRIKETQRLLAEPVPGIKAEPDESNAFYFHVVIAGPQDSPFEGGTFKLELFLPEEYPMAPKVR
FMTKIYHPNVDKLGRIICLDILKDKWSPALQIRTVLLSIQALLSAPNPDDPLANDVAEQWKTNEAQAIETA
RAWTRLYAMNNI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_080560

ORF Size: 459 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_080560.3](#), [NP_542127.1](#)

RefSeq Size: 3851 bp

RefSeq ORF: 459 bp

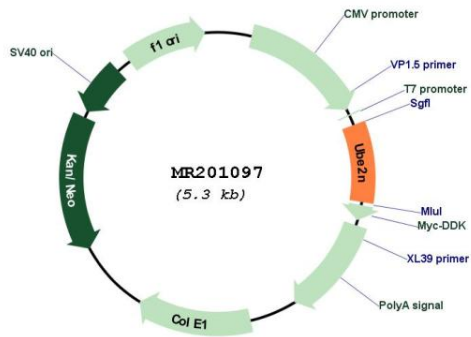
Locus ID: 93765

UniProt ID: [P61089](#)

Cytogenetics: 10 C2
MW: 17.1 kDa
Gene Summary:

The UBE2V1-UBE2N and UBE2V2-UBE2N heterodimers catalyze the synthesis of non-canonical 'Lys-63'-linked polyubiquitin chains (PubMed:22424771, PubMed:28039360). This type of polyubiquitination does not lead to protein degradation by the proteasome. Mediates transcriptional activation of target genes. Plays a role in the control of progress through the cell cycle and differentiation. Plays a role in the error-free DNA repair pathway and contributes to the survival of cells after DNA damage. Acts together with the E3 ligases, HLTF and SHPRH, in the 'Lys-63'-linked poly-ubiquitination of PCNA upon genotoxic stress, which is required for DNA repair. Appears to act together with E3 ligase RNF5 in the 'Lys-63'-linked polyubiquitination of JKAMP thereby regulating JKAMP function by decreasing its association with components of the proteasome and ERAD. Promotes TRIM5 capsid-specific restriction activity and the UBE2V1-UBE2N heterodimer acts in concert with TRIM5 to generate 'Lys-63'-linked polyubiquitin chains which activate the MAP3K7/TAK1 complex which in turn results in the induction and expression of NF-kappa-B and MAPK-responsive inflammatory genes. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR201097