

Product datasheet for MC211989

Ube2n (NM_080560) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Ube2n (NM_080560) Mouse Untagged Clone

Tag: Tag Free

Symbol: Ube2n

Synonyms: 1500026J17Rik; AL022654; BB101821; UBC13

Mammalian Cell Selection: Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >MC211989 representing NM_080560
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCCGGGCTGCCCCGAGGATCATCAAGGAAACCCAGCGTTTGCTGGCAGAACCAGTTCCTGGCATT
 AAGCAGAACAGATGAGAGCAACGCCGTTATTTTCATGTGGTCATTGCTGGCCCCAGGATTCCTCCCTT
 TGAGGGAGGGACTTTTAACTTGAATATTCCTCCAGAAGAATACCCAATGGCAGCACCTAAAGTACGT
 TTCATGACCAAAATTTATCATCCTAATGTAGACAAGTTGGGAAGAATATGTTTAGATATTTGAAAGATA
 AGTGGTCCCCAGCACTGCAGATCCGCACAGTTCTGCTATCAATCCAGGCTTTGTTAAGTGCTCCTAATCC
 AGATGATCCATTAGCAAATGATGTAGCCGAGCAATGGAAGACCAACGAAGCCCAAGCCATAGAAACAGCG
 AGAGCATGGACTAGGCTATATGCCATGAACAATATTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_080560

Insert Size: 459 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).



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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:	<ol style="list-style-type: none"> 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_080560.3</u> , <u>NP_542127.1</u>
RefSeq Size:	3851 bp
RefSeq ORF:	459 bp
Locus ID:	93765
UniProt ID:	<u>P61089</u>
Cytogenetics:	10 C2
Gene Summary:	<p>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.</p> <p>[UniProtKB/Swiss-Prot Function]</p>