

Product datasheet for MR222969

Ube2i (NM_001177609) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ube2i (NM_001177609) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ube2i
Synonyms: 5830467E05Rik; F830028O17Rik; UBC9; Ubce2i; Ubce9
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR222969 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGGGGATCGCCCTCAGCCGCTTGCAGGAAAGGAAAGCCTGGAGGAAGGACCACCTTTGGCT
 TTGTAGCTGTCCCAACAAAGAACCCTGATGGCACAATGAACCTGATGAACGGGAGTGGCTATCCCTGG
 AAAGAAGGGGACTCCATGGGAAGGAGGCTTGTCAAGCTACGGATGCTTTTCAAAGATGACTATCCGTCC
 TCACCACCAAAATGTAATTTGAGCCCCACTGTTTCATCAAACGTGTATCCTTCTGGCACAGTGTGCC
 TGTCATCCTGGAGGAAGACAAGGACTGGAGGCCAGCTATCACCATCAAACAGATCTTATTAGGAATACA
 AGAACTTCTAAATGAACCAATATTCAAGACCCAGCTCAAGCAGAGGCCTACACAATTTACTGCCAAAAC
 AGAGTGAATATGAGAAAAGGTCGAGCACAAGCGAAGAAGTTTGGCCCCCTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222969 protein sequence
 Red=Cloning site Green=Tags(s)

MSGIALSRLAQRKAWRKDHPFGFVAVPTKNPDGTMNLMNWECAIPGKKGTPWEGGLFKLRMLFKDDYPS
 SPPKCKFEPPLFHPNVYPSGTVCLSILEEDKDWRAITIKQILLGIQELLNEPNIQDPAQAEAYTIYQCN
 RVEYEKRVRAQAKKFAPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_001177609

ORF Size: 474 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_001177609.1](#), [NP_001171080.1](#)

RefSeq Size: 3227 bp

RefSeq ORF: 477 bp

Locus ID: 22196

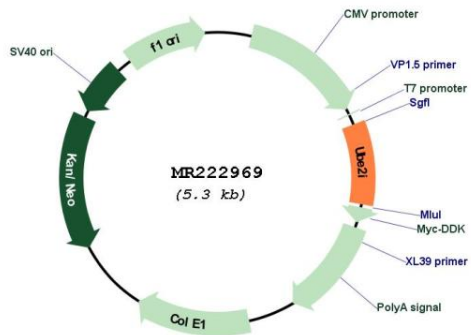
UniProt ID: [P63280](#)

Cytogenetics: 17 A3.3

MW: 18 kDa

Gene Summary: Accepts the ubiquitin-like proteins SUMO1, SUMO2 and SUMO3 from the UBLE1A-UBLE1B E1 complex and catalyzes their covalent attachment to other proteins with the help of an E3 ligase such as RANBP2, CBX4 and ZNF451. Can catalyze the formation of poly-SUMO chains. Essential for nuclear architecture, chromosome segregation and embryonic viability. Necessary for sumoylation of FOXL2 and KAT5 (By similarity). Sumoylates p53/TP53 at 'Lys-386'. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222969