

Product datasheet for **MR202594**

Ube2s (NM_133777) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ube2s (NM_133777) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ube2s
Synonyms:	0910001J09Rik; 6720465F12Rik; AA409170; E2-EPF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202594 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACTCCAATGTGGAGAATCTGCCGCCACATCATCCGCCTAGTGTACAAGGAGGTGACAACACTGA
CGGCAGACCCACCTGATGGCATTAAAGTCTTCCCAATGAGGAGGATCTCACAGACCTGCAGTTACCAT
CGAGGGCCCTGAAGGGACTCCCTATGCTGGAGGTCTGTTCCGTATGAAGCTCCTACTGGGAAGGACTTC
CCTGCCTCCCCACCAAGGGCTACTTCTGACTAAAATCTTCCACCCAAATGTGGCCCCAATGGCGAGA
TCTGTGCAATGTGCTCAAGAGGGACTGGACGGCTGAATTGGGCATACGACATGTGCTGCTGACCATCAA
GTGCTGCTGATCCACCCTAACCAGAGTCTGACTCAATGAGGAGGCAGGCCCTGCTTTGGAGAAT
TATGAAGAGTATGCTGCCCGGGCCGTCTGCTCACAGAAATCCATGGGGGTGCATGCAGCACCAGCAGCG
GGAGGGCTGAGGCTACCAAGACCTGGCCAGTGGGGCTTCAGCCTCCTCTGCTGACCCTATGATCCCAGG
GGTCTAGGGGGAGCTGAGGGTCCCATGGCCAAGAAACATGCAGGTGAGCGAGATAAGAAGCTGGCAGCC
AAGAAAAAGTTGGACAAGAAGCGAGCACTGAGGCGACTG

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202594 protein sequence
 Red=Cloning site Green=Tags(s)

MNSNVENLPPIHRLVYKEVTTLTADPPDGIKVFPNEEDLTDLQVTIEGPEGTPYAGGLFRMKLLLGKDF
 PASPPKGYFLTKIFHPNVGPNGEICVNVLKRWDTAELGIRHVLLTIKLLIHPNPESALNEEAGRLLLEN
 YEEYAARARLLTEIHGGACSTSSGRAEATQDLASGASASSADPMIPGVLGGAEGPMAKKHAGERDKKLAA
 KKKLDKKRALRRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_133777

ORF Size: 672 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_133777.2](#), [NP_598538.1](#)

RefSeq Size: 988 bp

RefSeq ORF: 672 bp

Locus ID: 77891

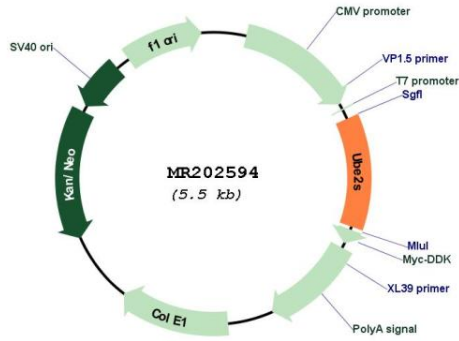
UniProt ID: [Q92114](#)

Cytogenetics: 7 A1

MW: 24.2 kDa

Gene Summary: Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. Catalyzes 'Lys-11'-linked polyubiquitination. Acts as an essential factor of the anaphase promoting complex/cyclosome (APC/C), a cell cycle-regulated ubiquitin ligase that controls progression through mitosis. Acts by specifically elongating 'Lys-11'-linked polyubiquitin chains initiated by the E2 enzyme UBE2C/UBCH10 on APC/C substrates, enhancing the degradation of APC/C substrates by the proteasome and promoting mitotic exit. Also acts by elongating ubiquitin chains initiated by the E2 enzyme UBE2D1/UBCH5 in vitro; it is however unclear whether UBE2D1/UBCH5 acts as an E2 enzyme for the APC/C in vivo. Also involved in ubiquitination and subsequent degradation of VHL, resulting in an accumulation of HIF1A. In vitro able to promote polyubiquitination using all 7 ubiquitin Lys residues, except 'Lys-48'-linked polyubiquitination.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202594