

Product datasheet for **RN211808**

Ube2s (NM_001106224) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ube2s (NM_001106224) Rat Untagged Clone
Tag: Tag Free
Symbol: Ube2s
Synonyms: RGD1564746
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN211808 representing NM_001106224
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAACCCAATGTAGAGAATCTCCCTCCCACATCATCCGCCTAGTGTACAAGGAGGTGACAACACTGA
CAGCAGATCCACCCGATGGCATTAAAGTCTTCCCAATGAGGAGGATCTCACCGACTGCAGGTTACAAT
CGAGGGCCCTGAAGGGACCCCTATGCTGGAGGTCTGTTCCGTATGAAGCTCCTACTAGGAAGGACTTC
CCTGCCTCCCCACCCAAGGGCTACTTCCTGACTAAAATCTTCCACCCAAATGTGGGCCCAATGGTGAGA
TCTGTGTCAACGTGCTCAAGAGGACTGGACTGCTGAGTTGGGCATACGACATGTGCTGCTGACCATCAA
GTGCTGCTGATCCATCCTAACCAGAGTCTGCACTCAATGAGGAGGCAGGCCGCCTGCTTTGGAGAAC
TACGAGGAGTATGCTGCCCGGGCCGCTGCTCACAGAGATCCATGGGGGTGCATGTAGCACCAGCAGTG
GGAGGGCTGAGGCTTCCCGGGACCTGGCCAGTGGGGCTTCAGCCTCCTCCACTGACCCTATGACCCAGG
GGTCTAGGAGGAGCTGAGGGTCCCATGGCCAAGAAACATGCAGGTGAGCGAGATAAGAAGCTGGCAGCC
AAGAAAAAGTTGGACAAGAAGCGAGCACTGAGGCGACTG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001106224
Insert Size: 672 bp



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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).
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.
RefSeq:	<u>NM_001106224.2</u> , <u>NP_001099694.1</u>
RefSeq Size:	991 bp
RefSeq ORF:	672 bp
Locus ID:	292588
UniProt ID:	<u>B5DFI8</u>
Cytogenetics:	1q12
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]