

Product datasheet for **RC224851**

UBE2S (NM_014501) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UBE2S (NM_014501) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UBE2S
Synonyms:	E2-EPF; E2EPF; EPF5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224851 representing NM_014501 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGAACCTCAACGTGGAGAACCTACCCCGCACATCATCCGCCTGGTGTACAAGGAGGTGACGACACTGA
 CCGCAGACCCACCCGATGGCATCAAGTCTTTCCCAACGAGGAGGACCTCACCGACCTCCAGGTACCAT
 CGAGGGCCCTGAGGGGACCCATATGCTGGAGGTCTGTTCCGCATGAACTCCTGCTGGGAAGGACTTC
 CCTGCCTCCCCACCAAGGGCTACTTCTGACCAAGATCTTCCACCGAACGTGGGCGCCAATGGCGAGA
 TCTGCGTCAACGTGCTCAAGAGGACTGGACGGCTGAGCTGGGCATCCGACACGTACTGCTGACCATCAA
 GTGCCTGCTGATCCACCTAACCCGAGTCTGCACTCAACGAGGAGGCGGCCGCTGCTTTGGAGAAC
 TACGAGGAGTATGCGGCTCGGGCCGCTGCTCACAGAGATCCACGGGGCGCGCGGGGCCAGCGGCA
 GGGCCGAAGCCGGTGGGCCCTGGCCAGTGGCACTGAAGCTTCTCCACCGACCTGGGGCCCCAGGGGG
 CCCGGGAGGGGCTGAGGGTCCCATGGCCAAGAAGCATGCTGGCGAGCGCGATAAGAAGCTGGCGGCCAAG
 AAAAAGACGACAAGAAGCGGGCGCTGCGGCGGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC224851 representing NM_014501
 Red=Cloning site Green=Tags(s)

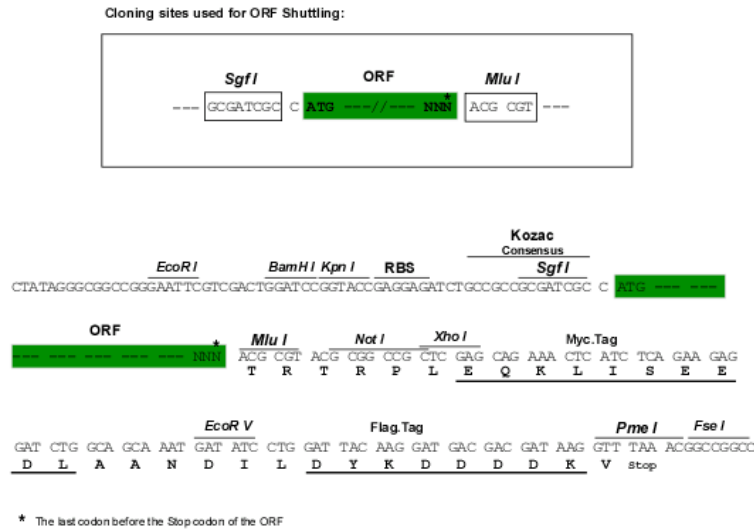
MNSNVENLPPIIRLVYKEVTTLTADPPDGIKVPNEEDLTDLQVTIEGPEGTPYAGGLFRMKLLLGKDF
 PASPPKGYFLTKIFHPNVGANGEICVNVLKRDTAELGIRHVLLTIKLLIHPNPESALNEEAGRLLLEN
 YEEYAARALLTEIHGGAGGPGSGRAEAGRALASGTEASSTDPGAPGGPGAEGPMAKKHAGERDKKLA
 AKKTDKKRALRRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6172_a07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014501

ORF Size: 666 bp

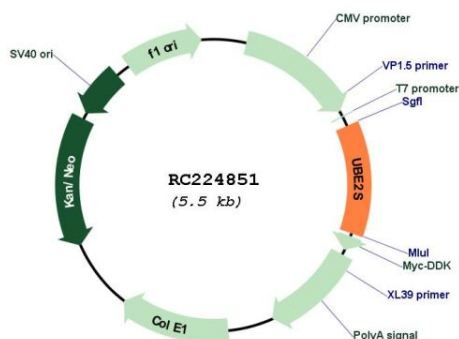
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

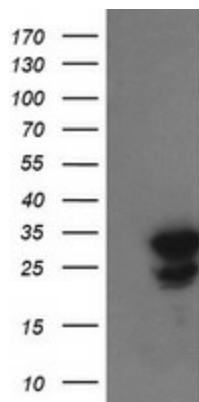
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<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:	NM_014501.3
RefSeq Size:	890 bp
RefSeq ORF:	669 bp
Locus ID:	27338
UniProt ID:	Q16763
Cytogenetics:	19q13.42
Domains:	UBCc
Protein Families:	Druggable Genome
Protein Pathways:	Ubiquitin mediated proteolysis
MW:	23.7 kDa
Gene Summary:	This gene encodes a member of the ubiquitin-conjugating enzyme family. The encoded protein is able to form a thiol ester linkage with ubiquitin in a ubiquitin activating enzyme-dependent manner, a characteristic property of ubiquitin carrier proteins. [provided by RefSeq, Jul 2008]

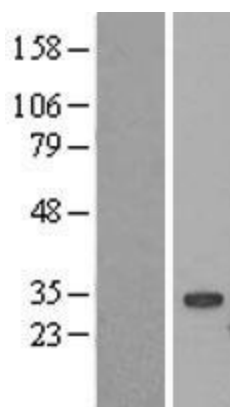
Product images:



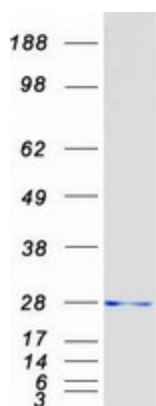
Circular map for RC224851



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY UBE2S (Cat# RC224851, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-UBE2S (Cat# [TA505187]). Positive lysates [LY402342] (100ug) and [LC402342] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402342]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224851 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UBE2S protein (Cat# [TP324851]). The protein was produced from HEK293T cells transfected with UBE2S cDNA clone (Cat# RC224851) using MegaTran 2.0 (Cat# [TT210002]).