

Product datasheet for **RC207977**

UBC3B (UBE2R2) (NM_017811) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UBC3B (UBE2R2) (NM_017811) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UBC3B
Synonyms:	CDC34B; E2-CDC34B; UBC3B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207977 representing NM_017811 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCAGCAGCAGATGACCAGCTCGCAGAAGGCCCTGATGCTCGAGCTGAAATCCCTGCAGGAGGAAC
CGGTGGAGGGCTCCGGATCACCTGGTGGACGAGTCCGACCTCTACAACGGGAGGTGGCCATCTTCGG
ACCCCCAACACCCTCTACGAAGCGGCTACTTCAAGGCGCATATTAATTTCTATTGACTACCCCTAT
TCACCACCTACCTCAGATTCTTGACCAAAATGTGGCACCCCAACATTTATGAGAATGGAGATGTATGCA
TTTCGATTCTTCATCCGCTGTAGATGACCCACAGAGTGGAGAAGTGCCTTCTGAAAGGTGGAATCCTAC
TCAGAATGTGAGGACTATCCTATTAAGTGAATCTCACTGCTTAATGAGCCCAACACCTTCTCCCCAGCC
AATGTGCGATGCTTCAGTTATGTTTCAGGAAATGGAGAGACAGTAAAGGAAAAGACAAAGAATATGCTGAAA
TTATTAGGAAACAAGTTTCAGCCACTAAGGCCGAAGCAGAAAAGGATGGAGTGAAGGTCCCCACAACCCCT
GGCGGAATACTGCATCAAACTAAAGTGCCTTCCAATGACAACAGCTCAGATTTGCTTTACGACGACTTG
TATGATGACGACATTGATGATGAAGATGAGGAGGAGGAAGATGCCGACTGTTATGATGATGATGATTCTG
GGAATGAGGAGTCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC207977 representing NM_017811
Red=Cloning site Green=Tags(s)

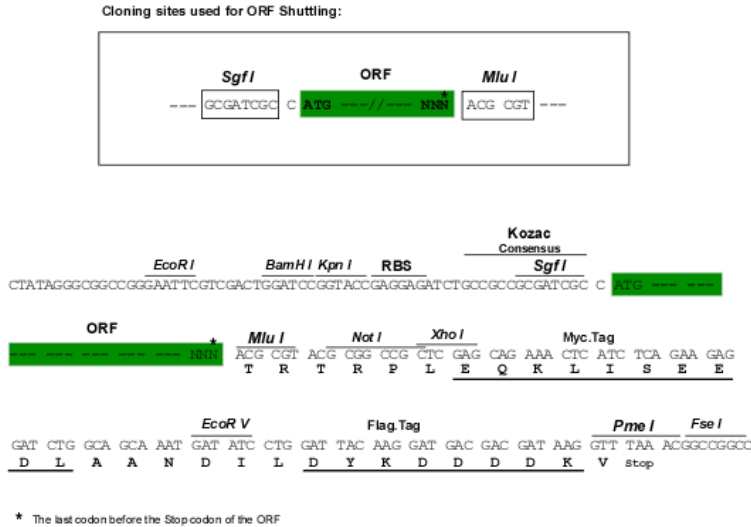
MAQQQMTSSQKALMLELKSLQEEPVEGFRITLVDSDLYNWEVAIFGPPNTLYEGGYFKAHIKFPIDYPY
 SPPTFRFLTKMWHPNYIENGDVCSILHPPVDDPQSGELPSEWRNPTQNVRTILLSVISLLNEPNTFSPA
 NVDASVMFRKWRDSKGDKEYAEIIRKQVSATKAEAEKDGKVPPTLAEYCIKTKVPSNDNSSDLLYDDL
 YDDIDDEDEEEEDADCYDDDDSGNEES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2875_e08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017811

ORF Size: 714 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_017811.4](#)

RefSeq Size: 4457 bp

RefSeq ORF: 717 bp

Locus ID: 54926

UniProt ID: [Q712K3](#)

Cytogenetics: 9p13.3

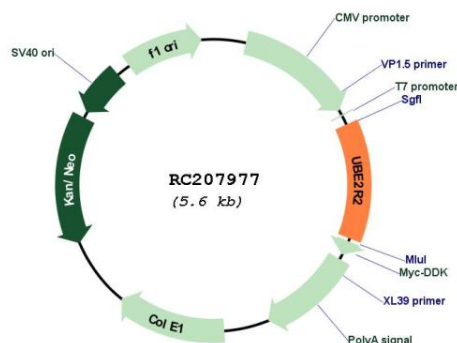
Domains: UBCc

Protein Pathways: Ubiquitin mediated proteolysis

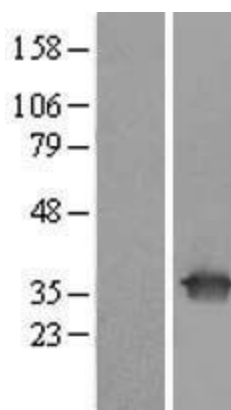
MW: 27 kDa

Gene Summary: Protein kinase CK2 is a ubiquitous and pleiotropic Ser/Thr protein kinase involved in cell growth and transformation. This gene encodes a protein similar to the E2 ubiquitin conjugating enzyme UBC3/CDC34. Studies suggest that CK2-dependent phosphorylation of this ubiquitin-conjugating enzyme functions by regulating beta-TrCP substrate recognition and induces its interaction with beta-TrCP, enhancing beta-catenin degradation. [provided by RefSeq, Jul 2008]

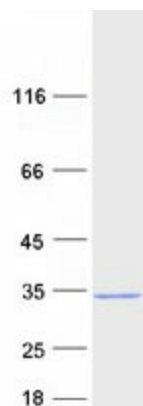
Product images:



Circular map for RC207977



Western blot validation of overexpression lysate (Cat# [LY413520]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207977 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UBE2R2 protein (Cat# [TP307977]). The protein was produced from HEK293T cells transfected with UBE2R2 cDNA clone (Cat# RC207977) using MegaTran 2.0 (Cat# [TT210002]).