

Product datasheet for **RC202933**

CKS1 (CKS1B) (NM_001826) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CKS1 (CKS1B) (NM_001826) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CKS1
Synonyms: CKS1; ckshs1; PNAS-16; PNAS-18
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC202933 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCGCACAACAAATTTACTATTCGGACAAATACGACGACGAGGAGTTTGAGTATCGACATGTCATGC
TGCCCAAGGACATAGCCAAGCTGGTCCCTAAAACCCATCTGATGTCTGAATCTGAATGGAGGAATCTTGG
CGTTCAGCAGAGTCAGGGATGGGTCCATTATATGATCCATGAACCAGAACCTCACATCTTGCTGTTCCGG
CGCCCACTACCAAGAAACCAAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC202933 protein sequence
Red=Cloning site Green=Tags(s)
MSHKQIYYSDKYDDEEFYRHMVLPKDI AKLVPKTHLMSESEWRNLGVQQSQGWVHYMIHEPEPHILLFR
RPLPKPKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6144_e02.zip

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_001826

ORF Size: 237 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_001826.3](#)

RefSeq Size: 834 bp

RefSeq ORF: 240 bp

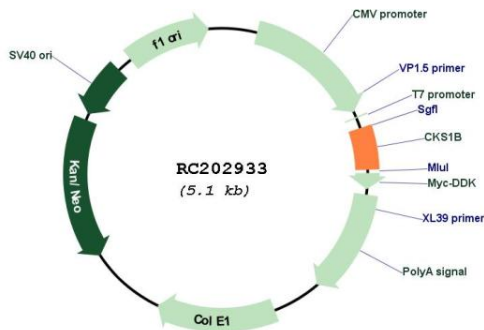
Locus ID: 1163

UniProt ID: [P61024](#)
Cytogenetics: 1q21.3
Domains: CKS
Protein Families: Druggable Genome, Stem cell - Pluripotency
Protein Pathways: Pathways in cancer, Small cell lung cancer

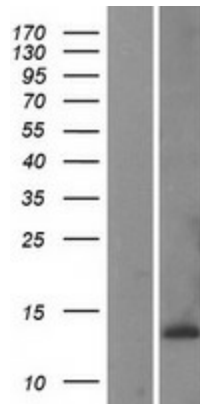
MW: 9.7 kDa

Gene Summary: CKS1B protein binds to the catalytic subunit of the cyclin dependent kinases and is essential for their biological function. The CKS1B mRNA is found to be expressed in different patterns through the cell cycle in HeLa cells, which reflects a specialized role for the encoded protein. At least two transcript variants have been identified for this gene, and it appears that only one of them encodes a protein. [provided by RefSeq, Sep 2008]

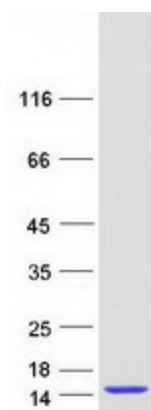
Product images:



Circular map for RC202933



Western blot validation of overexpression lysate (Cat# [LY400692]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202933 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CKS1B protein (Cat# [TP302933]). The protein was produced from HEK293T cells transfected with CKS1B cDNA clone (Cat# RC202933) using MegaTran 2.0 (Cat# [TT210002]).