

Product datasheet for RC232141

SKP2 (NM_001243120) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SKP2 (NM_001243120) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SKP2
Synonyms: FBL1; FBXL1; FLB1; p45
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC232141 representing NM_001243120
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACCAACCATTGGCTGAACATTTAGTACTCTCGAAAAAACAATTTAGTGCCTAACCTTT
 CTGGGTGTTCTGGATTCTCTGAATTTGCCCTGCAGACTTTGCTAAGCAGCTGTTCCAGACTGGATGAGCT
 GAACCTCTCTGGTGTGTTTATTCTCACTGAAAAGCATGTACAGGTGGCTGTTGCGCATGTGTGAGAGACC
 ATCACCAGCTGAATCTTAGCGGTACAGAAAAGAAATCTCCAGAAATCAGATCTCTACTTTAGTTAGAA
 GATGCCCAATCTGTCCATCTAGACTTAAGTGATAGTGTGATGCTAAAGAATGACTGCTTTTCAGGAATT
 TTTCCAGCTCAACTACCTCCAACACCTATCACTCAGTCGGTGTATGATATAATACCTGAACTTTACTT
 GAAGTTGGAGAAATCCACACTAAAAACTACAAGTTTTGGAATCGTGCCAGATGGTACCCTTCAAC
 TGTTAAAGGAAGCCCTTCTCATCTACAGATAATTGCTCCATTTACCACCATTGCCAGGCCAACTAT
 TGGCAACAAAAAGAACAGGAGATATGGGCATCAAATGCCGACTGACTGCAAAGCCAGTTGTCTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC232141 representing NM_001243120
 Red=Cloning site Green=Tags(s)

MDQPLAEHFSTLAKNSNLVRLNLSGCSGFSEFALQTLSSCSRLDELNLWCDFTEKHVQVAVAHVSET
 ITQLNLSGYRKNLQKSDLSTLVRRCPNLVHLDLSDSVMLKNDQCFQEFFQLNYLQHLSLSRCYDIIPETLL
 ELGEIPTLKTLLQVFGIVPDGTLQLLKEALPHLQINCSHFITTIARPTIGNKKNQEIWGIKRLTLQKPSCL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

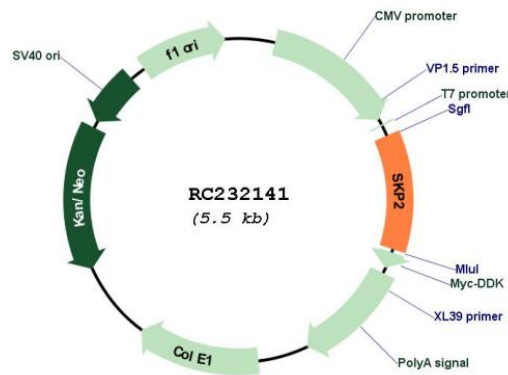


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001243120

ORF Size: 630 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_001243120.1](#), [NP_001230049.1](#)

RefSeq Size: 3273 bp

RefSeq ORF: 633 bp

Locus ID: 6502

UniProt ID: [Q13309](#)

Cytogenetics: 5p13.2

Protein Families: Druggable Genome

Protein Pathways: Acute myeloid leukemia, Apoptosis, Cell cycle, Oocyte meiosis, p53 signaling pathway, Pathways in cancer, Progesterone-mediated oocyte maturation, Small cell lung cancer, Ubiquitin mediated proteolysis

MW: 24.2 kDa

Gene Summary: This gene encodes a member of the F-box protein family which is characterized by an approximately 40 amino acid motif, the F-box. The F-box proteins constitute one of the four subunits of ubiquitin protein ligase complex called SCFs (SKP1-cullin-F-box), which function in phosphorylation-dependent ubiquitination. The F-box proteins are divided into 3 classes: Fbws containing WD-40 domains, Fbls containing leucine-rich repeats, and Fbxs containing either different protein-protein interaction modules or no recognizable motifs. The protein encoded by this gene belongs to the Fbls class; in addition to an F-box, this protein contains 10 tandem leucine-rich repeats. This protein is an essential element of the cyclin A-CDK2 S-phase kinase. It specifically recognizes phosphorylated cyclin-dependent kinase inhibitor 1B (CDKN1B, also referred to as p27 or KIP1) predominantly in S phase and interacts with S-phase kinase-associated protein 1 (SKP1 or p19). In addition, this gene is established as a protooncogene causally involved in the pathogenesis of lymphomas. Alternative splicing of this gene generates three transcript variants encoding different isoforms. [provided by RefSeq, Jul 2011]