

Product datasheet for **RC209130**

AKIP (AURKAIP1) (NM_017900) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: AKIP (AURKAIP1) (NM_017900) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: AKIP
Synonyms: AIP; AKIP; MRP-S38
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC209130 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTCCTGGGGCGCTGACTTCCCAGCTGTTGAGGGCCGTTCTTGGGCAGGCGCCGCCCGCCTTGGC
 CCGTCTCTGGAGTGTGGGCAGCCGGTCTGCGGGCCCTTTACAGCACATCGCCGGCCGGCCAGGTAG
 GGGCGCTCTCCCTCGCAAGGGGGCCAGCTGGAGCTGGAGGAGATGCTGGTCCCCAGGAAGATGTCC
 GTCAGCCCCCTGGAGAGCTGGCTCACGGCCCGTGCTTCTGCCAGACTGGATACCGGGACCGCAGGGA
 CTGTGGTCCACCGCAATCCTACCAGTGTCCGCCAGCCAGATAGGGGAAGGGGCCGAGCAGGGGATGA
 AGGCGTCGCGGATGCGCCTCAAATTCAGTGCAAAAACGTGCTGAAGATCCGCCGGCGGAAGATGAACCAC
 CACAAGTACCGGAAGCTGGTGAAGAAGACGCGGTTCTGCGGAGGAAGGTCCAGGAGGGACGCTGAGAC
 GCAAGCAGATCAAGTTCGAGAAAGACCTGAGGCGCATCTGGCTGAAGGCGGGGCTAAAGGAAGCCCCGA
 AGGCTGGCAGACCCCAAGATCTACCTGCGGGGCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC209130 protein sequence
 Red=Cloning site Green=Tags(s)

MLLGRLTSQLLRAVPWAGGRPPWPVSGVLGSRVCGPLYSTSPAGPGRAASLPRKGAQLELEEMLVPRKMS
 VSPLESWLTARCFPLRLDTGTAGTVAPPQSYQCPSQIGEGAEQGDEGVADAPQIQCKNVLKIRRRKMNH
 HKYRKL VKKTRFLRRKVQEGRLRRKQIKFEKDLRRIWLKAGLKEAPEGWQTPKIYLRGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



Chromatograms: https://cdn.origene.com/chromatograms/mk6553_e06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017900

ORF Size: 597 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_017900.3](#)

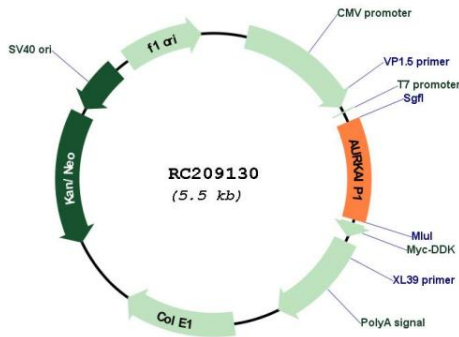
RefSeq Size: 1032 bp

RefSeq ORF: 600 bp

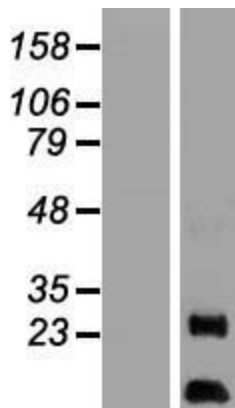
Locus ID: 54998

UniProt ID: [Q9NWT8](#)
Cytogenetics: 1p36.33
Protein Families: Druggable Genome
MW: 22.4 kDa
Gene Summary: May act as a negative regulator of Aurora-A kinase, by down-regulation through proteasome-dependent degradation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC209130



Western blot validation of overexpression lysate (Cat# [LY426729]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC225223] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).