

## Product datasheet for **RC200412**

### AK6 (NM\_016283) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** AK6 (NM\_016283) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** AK6  
**Synonyms:** AD-004; CGI-137; CINAP; CIP; hCINAP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC200412 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTGCTCCGAACATCCTGCTCACCGGTACACCAGGGTTGGAAAAACCACACTAGGCAAGAAGCTTG  
CGTCAAAATCAGGACTGAAATACATTAATGTGGGTGATTTAGCTCGAGAAGAGCAATTGTATGATGGCTA  
TGATGAAGAGTATGACTGTCCATTTTAGATGAAGACAGAGTAGTTGATGAGTTAGATAACCAAATGAGA  
GAAGGTGGAGTTATTGTTGATTACCATGGTTGTGATTTCTCCCTGAACGCTGGTTTCATATAGTTTTTG  
TGCTGAGAACAGATACCAATGTATTGTACGAAAGACTTGAACAAGGGTTATAATGAGAAGAACTAAC  
AGACAATATTCAGTGTGAGATTTTTCAAGTTCTTTATGAAGAAGCCACAGCATCCTACAAGGAAGAAATC  
GTGCATCAGCTGCCAGTAATAAACGAGAAGAGCTAGAAAATAATGTAGATCAGATCTTGAATGGATTG  
AGCAGTGGATCAAAGATCATAACTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC200412 protein sequence  
 Red=Cloning site Green=Tags(s)

MLLPNILLTGTPGVGKTTLGKELASKSGLKYINVGLAREEQLYDGYDEEYDCPILDEDRVVDELDNQMR  
EGGVIVDYHGCDFFPERWFHIVFLRDTNVL YERLETRGYNEKKLTDNIQCEIFQVLYEATASYKEEI  
VHQLPSNKPEELENVDQILKWIEQWIKDHNS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6144\\_e06.zip](https://cdn.origene.com/chromatograms/mk6144_e06.zip)



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_016283

ORF Size: 516 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\\_016283.5](#)

RefSeq Size: 962 bp

RefSeq ORF: 519 bp

Locus ID: 102157402

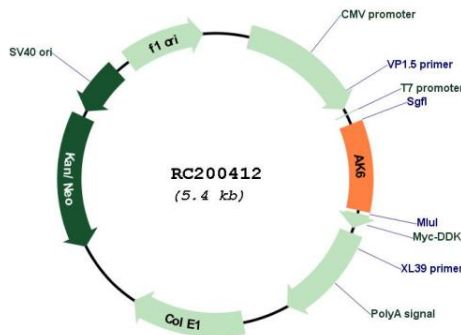
UniProt ID: [Q9Y3D8](#)

**Cytogenetics:** 5q13.2

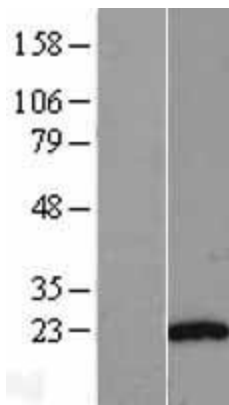
**MW:** 20.1 kDa

**Gene Summary:** This gene encodes a protein that belongs to the adenylate kinase family of enzymes. The protein has a nuclear localization and contains Walker A (P-loop) and Walker B motifs and a metal-coordinating residue. The protein may be involved in regulation of Cajal body formation. In human, AK6 and TAF9 (GeneID: 6880) are two distinct genes that share 5' exons. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]

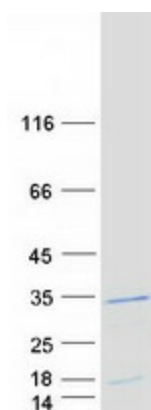
**Product images:**



Circular map for RC200412



Western blot validation of overexpression lysate (Cat# [LY402534]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200412 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AK6 protein (Cat# [TP300412]). The protein was produced from HEK293T cells transfected with AK6 cDNA clone (Cat# RC200412) using MegaTran 2.0 (Cat# [TT210002]).