

Product datasheet for **RG200412**

AK6 (NM_016283) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: AK6 (NM_016283) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: AK6
Synonyms: AD-004; CGI-137; CINAP; CIP; hCINAP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200412 representing NM_016283
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTGCTCCGAACATCCTGCTCACCGGTACACCAGGGGTTGGAAAAACCACACTAGGCAAGAAGCTTG
 CGTCAAAATCAGGACTGAAATACATTAATGTGGGTGATTTAGCTCGAGAAGAGCAATTGTATGATGGCTA
 TGATGAAGAGTATGACTGTCCATTTTAGATGAAGACAGAGTAGTTGATGAGTTAGATAACCAAATGAGA
 GAAGGTGGAGTTATTGTTGATTACCATGGTTGTGATTTCTCCCTGAACGCTGGTTTCATATAGTTTTTG
 TGCTGAGAACAGATACCAATGTATTGTACGAAAGACTTGAACAAGGGGTATAATGAGAAGAACTAAC
 AGACAATATTCAGTGTGAGATTTTCAAGTTCTTTATGAAGAAGCCACAGCATCCTACAAGGAAGAAATC
 GTGCATCAGCTGCCAGTAATAAACGAGAAGAGCTAGAAAATAATGTAGATCAGATCTTGAATGGATTG
 AGCAGTGGATCAAAGATCATAACTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200412 representing NM_016283
 Red=Cloning site Green=Tags(s)

MLLPNILLTGTPGVGKTLGKELASKSGLKYINVGLAREEQLYDGYDEEYDCPILEDVVDVDELNDQMR
 EGGVIVDYHGCDFFPERWFHIVFLRDTNVL YERLETRGYNEKLLTDNIQCEIFQVLYEATASYKEEI
 VHQLPSNKPELENNVDQILKWIEQWIKDHNS

TRTRPLE - GFP Tag - V

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

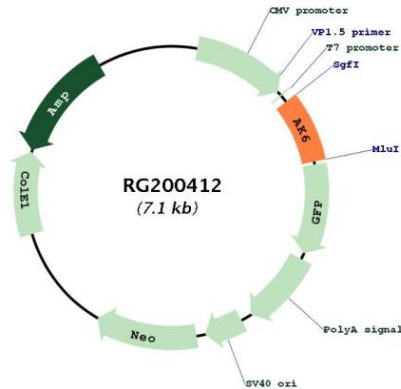
Locus ID: 102157402

UniProt ID: [Q9Y3D8](#)

Cytogenetics: 5q13.2

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 (GenelD: 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 RG200412