

## Product datasheet for RC232029

### AK3 (NM\_001199852) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** AK3 (NM\_001199852) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** AK3  
**Synonyms:** AK3L1; AK6; AKL3L; AKL3L1; FIX  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC232029 representing NM\_001199852  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGCGTCCGCGGGCTGCTGCGAGCGGTGATCATGGGGCCCCGGGCTCGGGCAAGGGCACCGTGT  
CGTCGCGCATCACTACACTTCGAGCTGAAGCACCTCCTCAGCGGGACCTGCTCCGGGACAACATGCT  
GCGGGGCACAGGTTTTCCAAGGACACTCCACAGGCAGAAGCCCTAGATAGAGCTTATCAGATCGACACA  
GTGATTAACCTGAATGTGCCCTTTGAGGTCAATTAACAACGCCTTACTGCTCGCTGGATTATCCCGCCA  
GTGGCCGAGTCTATAACATTGAATTCAACCCTCCCAAACTGTGGGCATTGATGACCTGACTGGGGAGCC  
TCTCATTACGCGTGAGGATGATAAACCAGAGACGGTTATCAAGAGACTAAAGGCTTATGAAGACCAACA  
AAGCCAGTCTGGAAATATTACCAGAAAAAGGGGTGCTGGAAACATTCTCCGGAACAGAAACCAACAAGA  
TTTGGCCCTATGTATATGCTTTCCTACAACTAAAGTTCCACAAAGAAGCCAGAAAGCTTCAGTTACTCC  
A

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC232029 representing NM\_001199852  
Red=Cloning site Green=Tags(s)

MGASARLLRAVIMGAPGSGKGTVSSRITTHFELKHLSSGDLLRDNMLRGTGFPRTLPAEALDRAYQIDT  
VINLNVFPEVIKQRLTARWIHPASGRVYNIENPPKTVGIDDLTGEPLIQREDDKPEVVIKRLKAYEDQT  
KPVLEYQKKGVLLETFSGTETNKIWPYVYAFLLQTKVPQRSQKASVTP

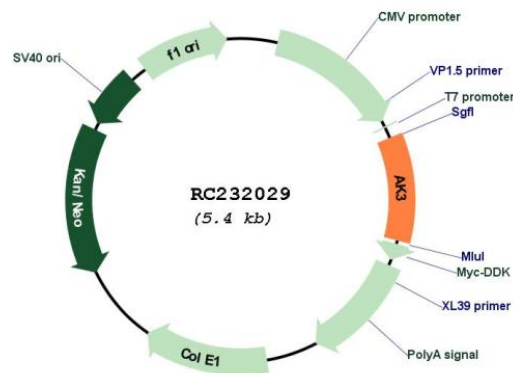
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001199852

**ORF Size:** 561 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\\_001199852.2](#)

**RefSeq Size:** 4213 bp

**RefSeq ORF:** 564 bp

**Locus ID:** 50808

**UniProt ID:** [Q9UIJ7](#)

**Cytogenetics:** 9p24.1

**Protein Families:** Druggable Genome

**Protein Pathways:** Pyrimidine metabolism

**MW:** 21.5 kDa

**Gene Summary:** The protein encoded by this gene is a GTP:ATP phosphotransferase that is found in the mitochondrial matrix. Several transcript variants encoding a few different isoforms have been found for this gene. [provided by RefSeq, Dec 2010]