

Product datasheet for **RC231890**

AK3 (NM_001199853) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: AK3 (NM_001199853) 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: >RC231890 representing NM_001199853
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGACTCGGCTGGCCCTTCATGAGCTGAAAAATCTCACCCAGTATAGCTGGCTGTTGGATGGTTTTCCAA
GGACACTTCCACAGGCAGAAGCCCTAGATAGAGCTTATCAGATCGACACAGTGATTAACCTGAATGTGCC
CTTTGAGGTCATTAACAACGCCTTACTGCTCGCTGGATTCATCCCGCCAGTGGCCGAGTCTATAACATT
GAATTC AACCTCCAAAAGTGTGGCATTGATGACCTGACTGGGAGCCTCTCATT CAGCGTGAGGATG
ATAAACAGAGACGGTTATCAAGAGACTAAAGGCTTATGAAGACCAAAACAAGCCAGTCCTGGAATATTA
CCAGAAAAAGGGGTGCTGGAAACATTCTCCGGAACAGAAACCAACAAGATTTGGCCCTATGTATATGCT
TTCCTACAACTAAAGTTCACAAAGAAGCCAGAAAGCTTCAGTTACTCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231890 representing NM_001199853
Red=Cloning site Green=Tags(s)

MTRLALHELKLNLTQYSWLLDGFPRTPQAEALDRAYQIDTVINLNVPFVIVKQRLTARWIHPASGRVYNI
EFNPPKTVGIDDLTGEPLIQREDDKPEVIVKRLKAYEDQTKPVLEYYQKKGVLETFSGTETNKIWPVYVA
FLQTKVPQRSQKASVTP

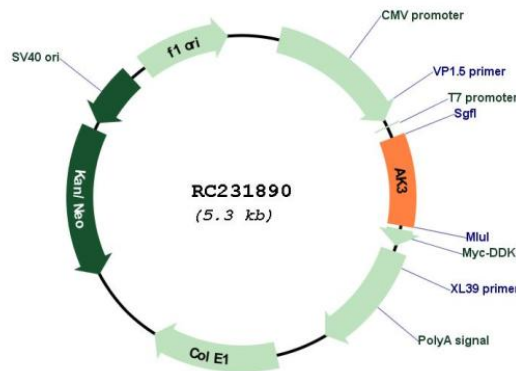
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001199853

ORF Size: 471 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:	<ol style="list-style-type: none">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:	<u>NM_001199853.1</u> , <u>NP_001186782.1</u>
RefSeq Size:	4032 bp
RefSeq ORF:	474 bp
Locus ID:	50808
UniProt ID:	<u>Q9UII7</u>
Cytogenetics:	9p24.1
Protein Families:	Druggable Genome
Protein Pathways:	Pyrimidine metabolism
MW:	18.6 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]