

Product datasheet for **RG231892**

AK3 (NM_001199856) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: AK3 (NM_001199856) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: AK3
Synonyms: AK3L1; AK6; AKL3L; AKL3L1; FIX
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG231892 representing NM_001199856
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTCGGCTGGCCCTTCATGAGCTGAAAAATCTCACCCAGTATAGCTGGCTGTTGGATGGTTTTCCAA
GGACACTTCCACAGGCAGAAGCCCTAGATAGAGCTTATCAGATCGACACAGTGATTAACCTGAATGTGCC
CTTTGAGGTCATTAACAACGCCTTACTGCTCGCTGGATTCATCCCGCCAGTGGCCGAGTCTATAACATT
GAATTC AACCTCCAAAACCTGTGGCATTGATGACCTGACTGGGAGCCTCTCATT CAGCGTGAGGATG
ATAAACCCAGAGACGGTTATCAAGAGACTAAAGGCTTATGAAGACCAAACAAGCCAGTCCCTGGAATATTA
CCAGAAAAAGGGGTGCTGGAAACATTCTCCGGAACAGAAACCAACAAGATTTGGCCCTATGTATATGCT
TTCTACAAACTAAAGTTCACAAAGAAGCCAGAAAGCTTCAGTTACTCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231892 representing NM_001199856
Red=Cloning site Green=Tags(s)

MTRLALHELKNLQYSWLLDGFPRPLPQAEALDRAYQIDTVINLNVFPEVIKQRLTARWIHPASGRVYNI
EFNPPKTVGIDDLTGEPLIQREDDKPKETVIKRLKAYEDQTKPVLEYYQKKGVLETFSGTETNKIWPVYVA
FLQTKVPQRSQKASVTP

TRTRPLE - GFP Tag - V

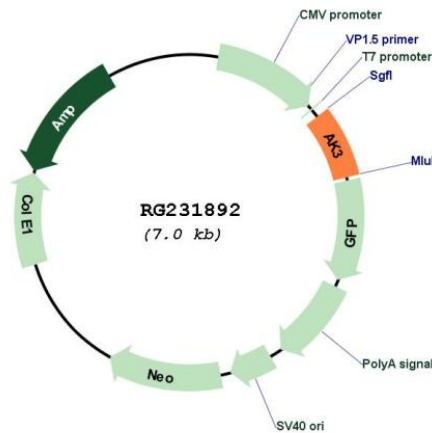
Restriction Sites: SgfI-MluI



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Cloning Scheme:

Cloning sites used for ORF Shutting:


Plasmid Map:

ACCN: NM_001199856

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_001199856.1, NP_001186785.1</u>
RefSeq Size:	4105 bp
RefSeq ORF:	474 bp
Locus ID:	50808
UniProt ID:	<u>Q9UIJ7</u>
Cytogenetics:	9p24.1
Protein Families:	Druggable Genome
Protein Pathways:	Pyrimidine metabolism
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]