

## Product datasheet for **RG231890**

### AK3 (NM\_001199853) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** AK3 (NM\_001199853) 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:** >RG231890 representing NM\_001199853  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACTCGGCTGGCCCTTCATGAGCTGAAAAATCTCACCCAGTATAGCTGGCTGTTGGATGGTTTTCCAA  
 GGACACTTCCACAGGCAGAAGCCCTAGATAGAGCTTATCAGATCGACACAGTGATTAACCTGAATGTGCC  
 CTTTGAGGTCATTAACAACGCCTTACTGCTCGCTGGATTCATCCCGCCAGTGGCCGAGTCTATAACATT  
 GAATTC AACCTCCAAAACCTGTGGCATTGATGACCTGACTGGGAGCCTCTCATT CAGCGTGAGGATG  
 ATAAACCAGAGACGGTTATCAAGAGACTAAAGGCTTATGAAGACCAAACAAGCCAGTCTGGAATTA  
 CCGAAAAAAGGGGTGCTGGAAACATTCTCCGGAACAGAAACCAACAAGATTTGGCCCTATGTATATGCT  
 TTCTACAAACTAAAGTTCACAAAGAAGCCAGAAAGCTTCAGTTACTCCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG231890 representing NM\_001199853  
 Red=Cloning site Green=Tags(s)

MTRLALHELKNLQYSWLLDGFPRPLPQAEALDRAYQIDTVINLNVFPEVIKQRLTARWIHPASGRVYNI  
 EFNPPKTVGIDDLTGEPLIQREDDKPKETVIKRLKAYEDQTKPVLEYYQKKGVLETFSGTETNKIWPVYVA  
 FLQTKVPQRSQKASVTP

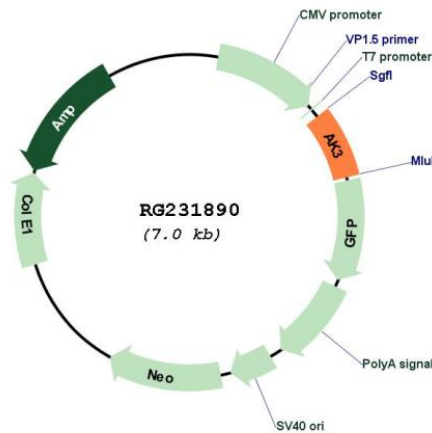
**TRTRPLE** - GFP Tag - V

**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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001199853.1</a></u> , <u><a href="#">NP_001186782.1</a></u>
<b>RefSeq Size:</b>	4032 bp
<b>RefSeq ORF:</b>	474 bp
<b>Locus ID:</b>	50808
<b>UniProt ID:</b>	<u><a href="#">Q9UIJ7</a></u>
<b>Cytogenetics:</b>	9p24.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Pyrimidine metabolism
<b>Gene Summary:</b>	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]