

## **Product datasheet for RG224463**

## AK3L1 (AK4) (NM 001005353) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: AK3L1 (AK4) (NM\_001005353) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: AK3L1

Synonyms: AK3; AK3L1; AK3L2; AK 4

Mammalian Cell Neomycin

Selection:

**Vector:** pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG224463 representing NM\_001005353
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

 ${\tt TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC}$ 

GCCGCGATCGCC

ATGGCTTCCAAACTCCTGCGCGCGGTCATCCTCGGGCCGCCCGGCTCGGGCAAGGGCACCGTGAGCCAGA
GGATCGCCCAGAACTTTGGTCTCCAGCATCTCTCCAGCGGCCACTTCTTGCGGGAGAACATCAAGGCCAG
CACCGAAGTTGGTGAGATGGCAAAGCAGTATATAGAGAAAAGTCTTTTGGTTCCAGACCATGTGATCACA
CGCCTAATGATGTCCGAGTTGGAGAACAGGCGTGGCCAGCACTGGCTCCTTGATGGTTTTCCTAGGACAT
TAGGACAAGCCGAAGCCCTGGACAAAATCTGTGAAGTGGATCTAGTGATCAGTTTGAATATTCCATTTGA
AACACTTAAAGATCGTCTCAGCCGCCGTTGGATTCACCCTCCTAGCGGAAGGGTATATAACCTGGACTTC
AATCCACCTCATGTACATGGTATTGATGACGTCACTGGTGAACCGTTAGTCCAGCAGGAGGATGATAAAC
CCGAAGCAGTTGCTGCCAGGCTAAGACAGTACAAAGACGTGGCAAAAGCCAGTCATTGAATTATACAAGAG
CCGAGGAGTGCTCCACCAATTTTCCGGAACGGAGACGAACAAAATCTGGCCCTACGTTTACACACTTTTC

TCAAACAAGATCACACCTATTCAGTCCAAAGAAGCATAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com Protein Sequence: >RG224463 representing NM\_001005353

Red=Cloning site Green=Tags(s)

MASKLLRAVILGPPGSGKGTVSQRIAQNFGLQHLSSGHFLRENIKASTEVGEMAKQYIEKSLLVPDHVIT RLMMSELENRRGQHWLLDGFPRTLGQAEALDKICEVDLVISLNIPFETLKDRLSRRWIHPPSGRVYNLDF NPPHVHGIDDVTGEPLVQQEDDKPEAVAARLRQYKDVAKPVIELYKSRGVLHQFSGTETNKIWPYVYTLF

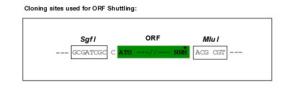
SNKITPIQSKEAY

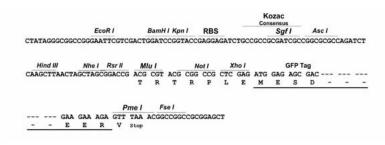
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

**Cloning Scheme:** 





**ACCN:** NM\_001005353

ORF Size: 669 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 001005353.1, NP 001005353.1

 RefSeq Size:
 2352 bp

 RefSeq ORF:
 672 bp

 Locus ID:
 205

 UniProt ID:
 P27144

 Cytogenetics:
 1p31.3

**Protein Families:** Druggable Genome

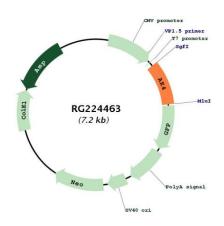
**Protein Pathways:** Metabolic pathways, Purine metabolism

**Gene Summary:** This gene encodes a member of the adenylate kinase family of enzymes. The encoded

protein is localized to the mitochondrial matrix. Adenylate kinases regulate the adenine and guanine nucleotide compositions within a cell by catalyzing the reversible transfer of phosphate group among these nucleotides. Five isozymes of adenylate kinase have been identified in vertebrates. Expression of these isozymes is tissue-specific and developmentally regulated. A pseudogene for this gene has been located on chromosome 17. Three transcript variants encoding the same protein have been identified for this gene. Sequence alignment suggests that the gene defined by NM\_013410, NM\_203464, and NM\_001005353 is located on

chromosome 1. [provided by RefSeq, Jul 2008]

## **Product images:**



Circular map for RG224463