

Product datasheet for RG206782

AK3L1 (AK4) (NM_203464) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: AK3L1 (AK4) (NM_203464) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: AK4

Synonyms: AK3; AK3L1; AK3L2; AK 4

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-AC-GFP (PS100010)

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

ORF Nucleotide >RG206782 representing NM_203464

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCTTCCAAACTCCTGCGCGCGGTCATCCTCGGGCCGCCCGGCTCGGCCAAGGGCACCGTGAGCCAGA GGATCGCCCAGAACTTTGGTCTCCAGCATCTCTCCAGCGCCACTTCTTGCGGGAGAACATCAAGGCCAG CACCGAAGTTGGTGAGGCAAAGCAGTATATAGAGAAAAGTCTTTTGGTTCCAGACCATGGATCACA CGCCTAATGATGCCGAGTTGGAGAAACAGGCGTGGCCAGCACTGGCTCCTTGATGGTTTTCCTAGGACAT TAGGACAAGCCGAAGCCCTGGACAAAATCTGTGAAGTGGATCTAGTGATCAGTTTGAATATTCCATTTGA AACACTTAAAGATCGTCTCCAGCCGCCGTTGGATTCACCCTCCTAGCGGAAGGGTATATAACCTGGACTTC AATCCACCTCATGTACATGGTATTGATGACGTCACTGGTGAACCGTTAGTCCAGCAGGAGGATGATAAAC CCGAAGCAGTTGCTCCCAGGCTAAGACAGTACAAAGACGTGGCAAAGCCAGTCATTGAATTATACAAGAG CCGAGGAGTGCTCCACCAATTTTCCCGGAACGGAGCAGAACAAAATCTGGCCCTACGTTTACACACTTTTC

TCAAACAAGATCACACCTATTCAGTCCAAAGAAGCATAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206782 representing NM_203464

Red=Cloning site Green=Tags(s)

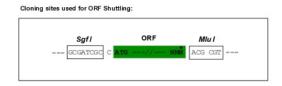
MASKLLRAVILGPPGSGKGTVSQRIAQNFGLQHLSSGHFLRENIKASTEVGEMAKQYIEKSLLVPDHVIT RLMMSELENRRGQHWLLDGFPRTLGQAEALDKICEVDLVISLNIPFETLKDRLSRRWIHPPSGRVYNLDF NPPHVHGIDDVTGEPLVQQEDDKPEAVAARLRQYKDVAKPVIELYKSRGVLHQFSGTETNKIWPYVYTLF SNKITPIQSKEAY

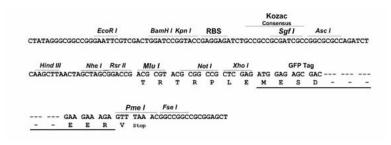
TRTRPLE - GFP Tag - V

Restriction Sites:

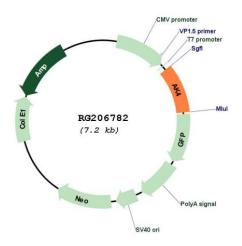
Sgfl-Mlul

Cloning Scheme:





Plasmid Map:



ACCN: NM_203464

ORF Size: 669 bp

AK3L1 (AK4) (NM_203464) Human Tagged ORF Clone - RG206782

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 203464.1, NP 982289.1

RefSeq Size:2241 bpRefSeq ORF:672 bpLocus 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]