

Product datasheet for RC224463L3

OriGene Technologies, Inc.

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AK3L1 (AK4) (NM_001005353) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: AK3L1 (AK4) (NM 001005353) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: AK3L1

Synonyms: AK3; AK3L1; AK3L2; AK 4

Mammalian Cell Puromycin

Selection:

Vector:

pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC224463).

Sgfl-Mlul

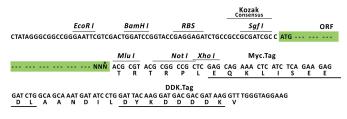
Sequence:

Restriction Sites: Cloning Scheme:

Cloning sites used for ORF Shuttling:

Sgf 1 ORF Mlu I

GCG ATC GCC ATG ---//--- NNN ACG CGT ---



st The last codon before the Stop codon of the ORF.

ACCN: NM_001005353

ORF Size: 669 bp





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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: <u>NM 001005353.1</u>, <u>NP 001005353.1</u>

RefSeq Size: 6998 bp
RefSeq ORF: 672 bp
Locus ID: 205
UniProt ID: P27144

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 P27144

 Cytogenetics:
 1p31.3

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Purine metabolism

MW: 25.3 kDa

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]