

Product datasheet for RC224463

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: Myc-DDK Symbol: AK3L1 Synonyms: AK3; AK3L1; AK3L2; AK 4 Mammalian Cell Neomycin Selection: Vector: pCMV6-Entry (PS100001) E. coli Selection: Kanamycin (25 ug/mL) **ORF** Nucleotide >RC224463 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) Sequence: TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC

ATGGCTTCCAAACTCCTGCGCGGGTCATCCTCGGGCCGCCCGGCTCGGGCAAGGGCACCGTGAGCCAGA GGATCGCCCAGAACTTTGGTCTCCAGCATCTCTCCAGCGGCCACTTCTTGCGGGAGAACATCAAGGCCAG CACCGAAGTTGGTGAGATGGCAAAGCAGTATATAGAGAAAAGTCTTTTGGTTCCAGACCATGTGATCACA CGCCTAATGATGTCCGAGTTGGAGAACAGGCGTGGCCAGCACTGGCTCCTTGATGGTTTTCCTAGGACAT TAGGACAAGCCGAAGCCCTGGACAAAATCTGTGAAGTGGATCTAGTGATCAGTTTGAATATTCCATTTGA AACACTTAAAGATCGTCTCAGCCGCCGTTGGATCACCCTCCTAGCGGAAGGGTATATAACCTGGACTTC AATCCACCTCATGTACATGGTATTGATGACGTCACTGGTGAACCGTTAGTCCAGCAGGAGGAGATGATAAAC CCGAAGCAGTTGCTGCCAGGCTAAGACAGTACAAAGACGTGGCAAAGCCAGTCATTGAATTATACAAGAG CCGAGGAGTGCTCCACCAATTTTCCGGAACGGAGACGAACAAAATCTGGCCTACGTTTACACACTTTTC TCAAACAAGATCACCCTATTCAGTCCAAGACCGATAT

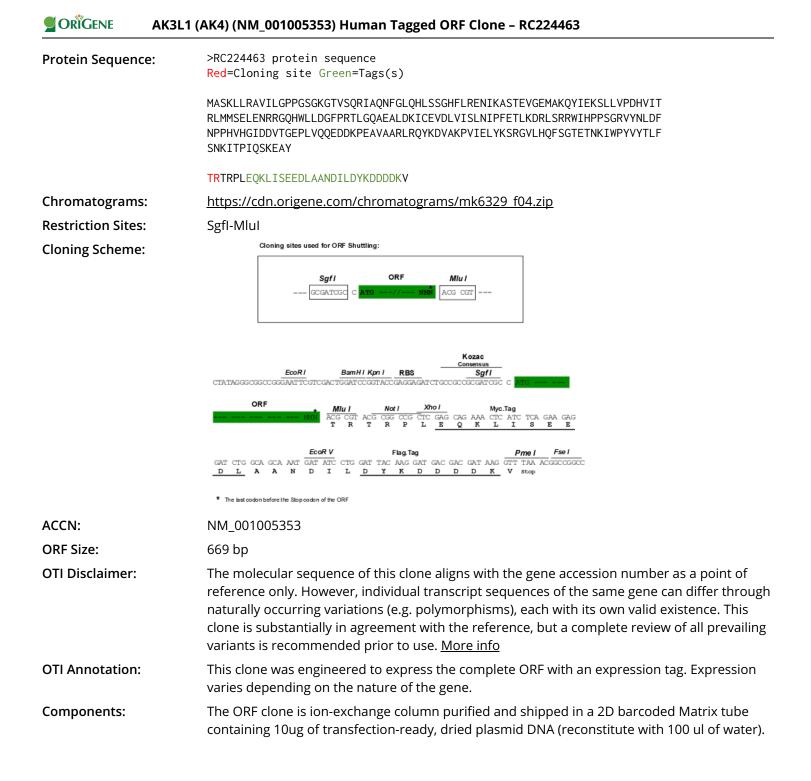
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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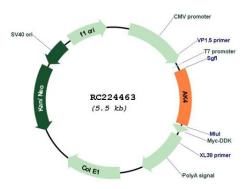
CRIGENE AK3L1 (AK4) (NM_001005353) Human Tagged ORF Clone – RC224463

Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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 001005353.2, NP 001005353.1</u>
RefSeq Size:	6998 bp
RefSeq ORF:	672 bp
Locus ID:	205
UniProt ID: Cytogenetics:	<u>P27144</u> 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]

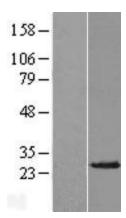
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Product images:

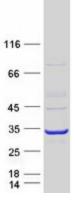


Circular map for RC224463



Western blot validation of overexpression lysate (Cat# [LY423694]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224463 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified AK4 protein (Cat# [TP324463]). The protein was produced from HEK293T cells transfected with AK4 cDNA clone (Cat# RC224463) using MegaTran 2.0 (Cat# [TT210002]).

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