

Product datasheet for **SC119409**

ADK (NM_001123) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADK (NM_001123) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADK
Synonyms:	AK
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001123, the custom clone sequence may differ by one or more nucleotides

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ATGACGTCAGTCAGAGAAAATATTCTCTTTGGAATGGGAAATCCTCTGCTTGACATCTCTGCTGTAGTGG
ACAAAGATTTCCCTTGATAAGTATTCTCTGAAACCAAATGACCAAATCTTGGCTGAAGACAAACACAAGGA
ACTGTTTGATGAACTTGTGAAAAAATCAAAGTCGAATATCATGCTGGTGGCTCTACCCAGAATTCAATT
AAAGTGGCTCAGTGGATGATTCAACAGCCACACAAAGCAGCAACATTTTTGGATGCATTGGGATAGATA
AATTTGGGGAGATCCTGAAGAGAAAAGCTGCTGAAGCCCATGTGGATGCTCATTACTACGAGCAGAAATGA
GCAGCCAAACAGGAACTTGTGCTGCATGCATCACTGGTGACAACAGGTCCCTCATAGCTAACTTTGCTGCT
GCCAATTGTTATAAAAAGGAAAAACATCTTGATCTGGAGAAAACTGGATGTTGGTAGAAAAAGCAAGAG
TTTGTTATATAGCAGGCTTTTTCTTACAGTTTCCCAGAGTCAGTATTAAGGTGGCTCACCATGCTTC
TGAAAACAACAGGATTTTCACTTTGAATCTATCTGCACCGTTTATTAGCCAGTTCTACAAGGAATCATTG
ATGAAAGTTATGCCTTATGTTGATATACTTTTTGGAAATGAGACAGAAGCTGCCACTTTTGCTAGAGAGC
AAGGCTTTGAGACTAAAGACATTAAGAGATAGCCAAAAGACACAAGCCCTGCCAAAGATGAACTCAA
GAGGCAGCGAATCGTGATCTTCACCCAAGGGAGAGATGACACTATAATGGCTACAGAAAGTGAAGTCACT
GCTTTTGCTGTCTTGGATCAAGACCAGAAAGAAATTATTGATACCAATGGAGCTGGAGATGCATTTGTTG
GAGTTTTCTGTCTCAACTGGTCTCTGACAAGCCTCTGACTGAATGTATCCGTGCTGGCCACTATGCAGC
AAGCATCATAATTAGACGGACTGGCTGCACCTTCTGAGAAGCCAGACTTCCACTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001123 unedited NNGGTTGTGAGATTTTGTATACGACTCTATAGGGCGGCCGGAATTCGCACCAGCCCAG TCGCTGAGTGCCTGAGCCGGGAAGCAGTTGCTGTGGTACCTGCTGCTGCCGAGCGGACG TAGAGCATCGGACGCGGGCGCCGTGGCGTTGGGCAGGAGGGCGAAGCCATGACGTCAGTC AGAGAAATATTCTCTTTGGAATGGGAAATCCTCTGCTTGACATCTCTGCTGTAGTGGACA AAGATTTTCCTTGATAAGTATTCTCTGAAACCAATGACCAAATCTTGGCTGAAGACAAAC ACAAGGAAGTGTGATGAACTTGTGAAAAAATCAAAGTCGAATATCATGCTGGTGGCT CTACCCAGAATCAATTAAGTGGCTCAGTGGATGATTCAACAGCCACACAAAGCAGCAA CATTTTTTGGATGCATTGGGATAGATAAATTTGGGGAGATCCTGAAGAGAAAAGCTGCTG AAGCCCATGTGGATGCTCATTACTACGAGCAGAATGAGCAGCCAACAGGAACTTGTGCTG CATGCATCACTGGTGACAACAGGTCCCTCATAGCTAATCTTGCTGCTGCCAATTGTTATA AAAAGGAAAAACATCTTGATCTGGAGAAAACTGGATGTTGGTAGAAAAAGCAAGAGTTT GTTATATAGCAGGCTTTTTTCTACAGTTTCCCAGAGTCAGTATTAAGGTGGCTCACC ATGCTTCTGAAACAACAGGATTNTCACTTTGAATCTATCTGCACCGTTTATTAGCCAGTT CTACAGGAATCATTGATGAAAGTTATGCCTTATGGTGATATACTNTNTGAAATGAGACA GAAGCTGNCACCTTTGCTAGAGAGCAAGGCTTNTGAGACTAAGACATTTAAGAGATAGCC CAAAAGAACCA
Restriction Sites:	NotI-NotI
ACCN:	NM_001123
Insert Size:	2100 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
RefSeq:	NM_001123.2 , NP_001114.2
RefSeq Size:	2082 bp
RefSeq ORF:	1038 bp
Locus ID:	132
UniProt ID:	P55263 , A0A140VJE0
Domains:	pfkB
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Purine metabolism

Gene Summary:

This gene encodes an enzyme which catalyzes the transfer of the gamma-phosphate from ATP to adenosine, thereby serving as a regulator of concentrations of both extracellular adenosine and intracellular adenine nucleotides. Adenosine has widespread effects on the cardiovascular, nervous, respiratory, and immune systems and inhibitors of the enzyme could play an important pharmacological role in increasing intravascular adenosine concentrations and acting as anti-inflammatory agents. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2011]

Transcript Variant: This variant (1), alternately referred to as ADK-short, represents the longest transcript and encodes isoform a.