

Product datasheet for **SC115890**

ADK (NM_006721) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADK (NM_006721) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADK
Synonyms:	AK
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115890 sequence for NM_006721 edited (data generated by NextGen Sequencing) <pre> ATGGCAGCTGCTGAGGAGGAGCCGAAGCCCAAAAAGCTGAAGGTGGAGGCGCCGCAAGCG CTGAGAGAAAATATTCTCTTTGGAATGGGAAATCCTCTGCTTGACATCTCTGCTGTAGTG GACAAAGATTTCTTGATAAGTATTCTCTGAAACCAAATGACCAAATCTTGGCTGAAGAC AAACACAAGGAAGTGTGATGAAGTGTGAAAAAATTCAAAGTCGAATATCATGCTGGT GGCTCTACCCAGAATTCAATTAAGTGGCTCAGTGGATGATTCAACAGCCACACAAAGCA GCAACATTTTTTGGATGCATTGGGATAGATAAATTTGGGAGATCCTGAAGAGAAAAGCT GCTGAAGCCCATGTGGATGCTCATTACTACGAGCAGAATGAGCAGCCACAGGAAGTGT GCTGCATGCATCACTGGTGACAACAGGTCCTCATAGCTAATCTTGCTGCTGCCAATTGT TATAAAAAGGAAAAACATCTTGATCTGGAGAAAACTGGATGTTGGTAGAAAAAGCAAGA GTTTGTTATATAGCAGGCTTTTTTCTTACAGTTTCCCAGAGTCAGTATTAAAGGTGGCT CACCATGCTTCTGAAAACAACAGGATTTTCACTTTGAATCTATCTGCACCGTTTATTAGC CAGTTCTACAAGGAATCATTGATGAAAGTTATGCCTTATGTTGATATACTTTTTGGAAAT GAGACAGAAGCTGCCACTTTTGCTAGAGAGCAAGGCTTTGAGACTAAAGACATTAAAGAG ATAGCCAAAAAGACACAAGCCCTGCCAAAGATGAACTCAAAGAGGCAGCGAATCGTGATC TTCACCAAGGGAGAGATGACACTATAATGGCTACAGAAAGTGAAGTCACTGCTTTTGCT GTCTTGGATCAAGACCAGAAAGAAATTATTGATACCAATGGAGCTGGAGATGCATTTGTT GGAGGTTTTCTGTCTCACTGGTCTCTGACAAGCCTCTGACTGAATGTATCCGTGCTGGC CACTATGCAGCAAGCATCATAATTAGACGACTGGCTGCACCTTTCCTGAGAAGCCAGAC TTCCACTGA </pre>

Clone variation with respect to NM_006721.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006721 unedited
 NAGCGTCAGAATTTTGTAACTACGACTACTATAGGGCGGCCGGAATTCGGCACGAGGGT
 GGGCTGTAGAGCCAAAGTGGGTGGGAGCGCGAAGATGGCAGCTGCTGAGGAGGAGCCGA
 AGCCCCAAAAGCTGAAGTGGAGCGCCGCAAGCGCTGAGAGAAAATATTCTCTTTGGAA
 TGGGAAATCCTCTGCTTGACATCTCTGCTGTAGTGGACAAAGATTTCTTGATAAGTATT
 CTCTGAAACCAATGACCAATCTTGGCTGAAGACAAACACAAGGAACTGTTTGATGAAC
 TTGTGAAAAAATTCAAAGTCGAATATCATGCTGGTGGCTCTACCCAGAATTCATTTAAAG
 TGGCTCAGTGGATGATTCAACAGCCACACAAAGCAGCAACATTTTTTGGATGCATTGNGA
 TAGATAAATTTGGGAGATCCTGAAGAGAAAGCTGCTGAAGCCCATGTGGATGCTCATT
 CTACGAGCAGAATGAGCAGCCAAACAGGAACCTGTGCTGCATGCATCACTGGTGAACACAG
 GTCCCTCATAGCTAATCTTGCTGCTGCCAATTGTTATAAAAAGGAAAAACATCTGATCTG
 GAGAAAATGGATGTTGGTAGAAAAGCAAGAGTTTGTATATAGCAGGCTTTTTTCTACAG
 TTTCCAGAGTCAGTATTAAAGTGGCTANCATGCTTCTGAAACAACAGGATTTTACTTTG
 ATCTATCTGCACCGTTATTACCCAGTCTACAGGAATCATTGATGAAGTATGCCTTAGTTT
 ATATACTTTTTGGAATGAAACAAAACGCTTTTGTCTAAAAGCAAGGCTTGANACTAAA
 ACGTTAAGAGAAGCCAAAAAACCAACCCTGCGAAAATGACTCGAGAGCCCGAATCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006721 unedited
 ACTTGTACCGCGCCGATTCTAGATCGAGTTTTTTCTTTTTTTTTTTTTTTTTTGGCAT
 CCTTAAAAATGATTTATTGGTCTCTGATACTAAGTTATTCTTCAGTGTATTATATTGCT
 GTTCTTCATAATTCATTAACAAATTGGGTGTCATTTACGGGCCCAGTATTAAATAATGA
 TCTTTCTCCTCAGTTTGTGTACACAGGGTAAAAGACAGAAAAAATTCCTATATGACA
 AGTTTTTGTGTATCCAATTACAGAGTCCATAAGACTATGATTTGAATATTGTGGTAC
 AACTTAAATTTGGCACATTATTTAATTATCCAAAGTTTATTACATGTTTGAGTGCACATT
 AAAGAGATTATTTGGCATAATTGACAAGATAAAATTTCTGTACCTTATTTGACTATCAGG
 TGTATATGTGGTATATTTATGTATGTGTGTATAGACACACATATACTCCTAAATTA
 TATATTTGTATAAAAAGCTAAAGATTACTATGTTAAGATTAATTCATTAATAAATCTATT
 ATATTAATTTGCATCTGCATTCAAAGCAGAAATGTAAAAAACAATCAGTGTACTAAAT
 ACACACGAATTTACAAAGTAATTGAAAAAGAAATTTCTATTGAAATGTTATATT
 CCTTGTTTAAATGGCATTTAAGTGGCACTATCAAACTATGGAAAAAATACATCATTTTTT
 AGATTGTTGAGATAATAAAGATCTACAAGCCTTACATACCCTTGTTACCCTCCTAATTA
 AATCCGCATTTATATTAGTAGGAAAAATGGCGAAAAATTTCTCTTTTATAATATGGGGA
 ATCTCAGGAGCCATTAAGGCAATGTCTGCCTTCCGGGGCTTGGGGTTTCAGCCTCTCCAT
 CAAGGAAAGCCTGGCTTTCAGGAAGGTGGCACCCCTCCCCCTAATTTGAAGCCTT

Restriction Sites:

NotI-NotI

ACCN:

NM_006721

Insert Size:

2100 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_006721.2, NP_006712.2</u>
RefSeq Size:	2018 bp
RefSeq ORF:	1089 bp
Locus ID:	132
UniProt ID:	<u>P55263</u>
Cytogenetics:	10q22.2 10q11-q24
Domains:	pfkB
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Purine metabolism
Gene Summary:	This gene 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 (2), alternately referred to as ADK-long, differs in the 5' UTR and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (b) is longer than isoform a.