

Product datasheet for **RG232440**

ADK (NM_001202450) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADK (NM_001202450) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ADK
Synonyms:	AK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232440 representing NM_001202450 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCTGCTGAGGAGGAGCCGAAGCCAAAAAGCTGAAGGTGGAGGCGCCGCAAGCGCTGAGAGAAA
ATATTCTCTTTGGAATGGGAAATCCTCTGCTTGACATCTCTGCTGTAGTGGACAAAGATTCCTTGATAA
GTATTCTCTGAAACCAATGACCAATCTGGCTGAAGACAAACACAAGGAAGTGGTGGATGAACTTGTG
AAAAAATTCAAAGTCGAATATCATGCTGGTGGCTCTACCCAGAATCAATTAAGTGGCTCAGTGGATGA
TTCAACAGCCACACAAAGCAGCAACATTTTTGGATGCATTGGGATAGATAAATTTGGGGAGATCCTGAA
GAGAAAAGCTGCTGAAGCCCATGTGGATGCTCATTACTACGAGCAGAATGAGCAGCCAACAGGAAGTGT
GCTGCATGCATCACTGGTGACAACAGGTCCTCATAGCTAATCTTGTCTGCTGCCAATTGTTATAAAAAGG
AAAAACATCTTGATCTGGAGAAAACTGGATGTTGGTAGAAAAAGCAAGAGTTTGTATATAGCAGAAGC
TGCCACTTTTGTAGAGAGCAAGGCTTTGAGACTAAAGACATTAAGAGATAGCCAAAAAGACACAAGCC
CTGCCAAAGATGAACTCAAGAGGCAGCGAATCGTGATCTTACCCAAGGGAGAGATGACACTATAATGG
CTACAGAAAGTGAAGTCACTGCTTTTGTGTCTTGGATCAAGACCAGAAAGAAATATTGATACCAATGG
AGCTGGAGATGCATTTGTTGGAGTTTTCTGTCTCAACTGGTCTCTGACAAGCCTCTGACTGAATGTATC
CGTGTGGCCACTATGCAGCAAGCATATAATTAGACGGACTGGCTGCACCTTCTCTGAGAAGCCAGACT
TCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG232440 representing NM_001202450
 Red=Cloning site Green=Tags(s)

MAAAEEEPKPKKLKVEAPQALRENILFGMGNPLLDISAVVDKDFLDKYSCLKPNDQILAEDKHKELFDELV
 KKFVVEYHAGGSTQNSIKVAQWMIQQPHKAATFFGCIGIDKFGEILKRKAAEAHVDAHYEQNEQPTGTC
 AACITGDNRSLIANLAAANCYKKEKHLDEKNWMLVEKARVCYIAEAATFAREQGFETKDIKEIAKKTQA
 LPKMNSKRQRIVIFTQGRDDTIMATESEVTAFAVLDDQDQKEIIDTNGAGDAFVGGFLSQLVSDKPLTECI
 RAGHYAASIIIRRTGCTFPEKPDFH

TRTRPLE - GFP Tag - V

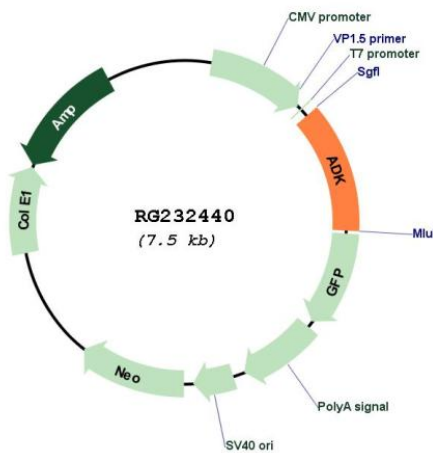
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001202450

ORF Size: 915 bp

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:	<ol style="list-style-type: none">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_001202450.2
RefSeq Size:	1878 bp
RefSeq ORF:	918 bp
Locus ID:	132
UniProt ID:	P55263
Cytogenetics:	10q22.2 10q11-q24
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]