

## Product datasheet for **RG212888**

### ADK (NM\_006721) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ADK (NM_006721) 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:	>RG212888 representing NM_006721 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGCTGCTGAGGAGGAGCCGAAGCCAAAAAGCTGAAGGTGGAGGCGCCGCAAGCGCTGAGAGAAA  
ATATTCTCTTTGGAATGGGAAATCCTCTGCTTGACATCTCTGCTGTAGTGGACAAAGATTCCTTGATAA  
GTATTCTCTGAAACCAATGACCAATCTGGCTGAAGACAAACACAAGGAAGTGTGATGAAGTGTG  
AAAAAATCAAAGTCGAATATCATGCTGGTGGCTCTACCCAGAATCAATTAAGTGGCTCAGTGGATGA  
TTCAACAGCCACACAAAGCAGCAACATTTTTGGATGCATTGGGATAGATAAATTTGGGGAGATCCTGAA  
GAGAAAAGCTGCTGAAGCCCATGTGGATGCTCATTACTACGAGCAGAATGAGCAGCAACAGGAAGTGT  
GCTGCATGCATCACTGGTGAACAAGTCCCTCATAGCTAATCTTCTGCTGCCAATTGTTATAAAAAGG  
AAAAACATCTTGATCTGGAGAAAACTGGATGTTGGTAGAAAAAGCAAGAGTTTGTATATAGCAGGCTT  
TTTTCTTACAGTTTCCCCAGAGTCAGTATTAAGGTGGCTCACCATGCTTCTGAAAAACAAGGATTTTC  
ACTTTGAATCTATCTGCACCGTTTATTAGCCAGTTCTACAAGGAATCATTGATGAAAGTTATGCCTATG  
TTGATATACTTTTTGAAATGAGACAGAAGCTGCCACTTTTGCTAGAGAGCAAGGCTTTGAGACTAAAGA  
CATTAAAGAGATAGCCAAAAAGACACAAGCCCTGCCAAAGATGAAGTCAAAGAGGAGCAAGTCAAGTATC  
TTCACCAAGGGAGAGATGACACTATAATGGCTACAGAAAGTGAAGTCACTGCTTTTGGCTCTTGGGAT  
AAGACCAGAAAGAAATTATTGATACCAATGGAGCTGGAGATGCATTTGTTGGAGGTTTTCTGTCTCAACT  
GGTCTCTGACAAGCCTCTGACTGAATGTATCCGTGCTGGCCACTATGCAGCAAGCATCATAATTAGACGG  
ACTGGCTGCACCTTCTCTGAGAAGCCAGACTTCCAC

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG212888 representing NM\_006721  
 Red=Cloning site Green=Tags(s)

MAAAEEEEPKPKLKVAPQALRENILFGMGNPLLDISAVVDKDFLDKYSCLKPNDQILAEDKHKELFDELV  
 KKFVKEYHAGGSTQNSIKVAQWMIQQPHKAATFFGCIGIDKFGEILKRKAAEAHVDAHYEQNEQPTGTC  
 AACITGDNRSLIANLAAANCYKKEKHLDEKNWMLVEKARVCYIAGFFLTVSPESVLKVAHHAASENNRIF  
 TLNL SAPFISQFYKESLMKVMPYVDILFGNETEAATFAREQGFETKDIKEIAKKTQALPKMNSKRQRIVI  
 FTQGRDDTIMATESEVTAFVLDQDQKEIIDTNGAGDAFVGGFLSQLVSDKPLTECIRAGHYAASIIIRR  
 TGCTFPEKPDFH

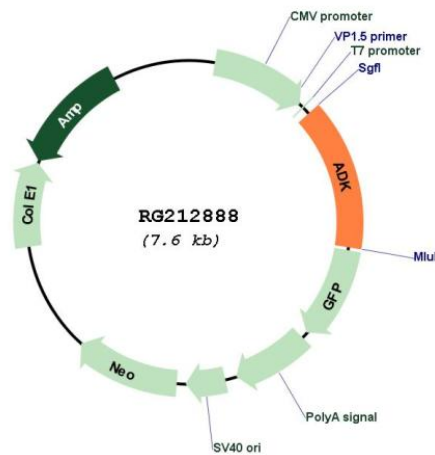
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_006721

<b>ORF Size:</b>	1086 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_006721.4</a>
<b>RefSeq Size:</b>	2049 bp
<b>RefSeq ORF:</b>	1089 bp
<b>Locus ID:</b>	132
<b>UniProt ID:</b>	<a href="#">P55263</a>
<b>Cytogenetics:</b>	10q22.2 10q11-q24
<b>Domains:</b>	pfkB
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Purine metabolism
<b>Gene Summary:</b>	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]