

## Product datasheet for **RN200526**

### Ak2 (NM\_030986) Rat Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Ak2 (NM\_030986) Rat Untagged Clone  
 Tag: Tag Free  
 Symbol: Ak2  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >RN200526 representing NM\_030986  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGC**C

ATGGCTCCCAACGCGTTGGCTCCTGAACCGGAGCATCCGAAGGGCATCCGGGCCGTGTTGCTGGGGCCTC  
 CCGGGGCTGGCAAGGGGACCCAGGCACCAAATTGGCTGAGAATTTCTGTCTGTCACTTGGCCACTGG  
 GGACATGCTGAGAGCGATGGTAGCTTCAGGCTCGGAGCTGGGGAAAAAGCTGAAGGCGACAATGGATGCC  
 GGAAAACTGGTGAGTGATGAAATGGTCGTGGAGCTCATTGAGAAGAATTTGGAGACTCCTCCTGCAAAA  
 ATGGCTTTCTTAGATGGCTTCCCTCGGACTGTGAAGCAGGCTGAAATGCTTGATGACCTCATGGATAA  
 GAGGAAAGAGAAGCTCGATTCAGTCATCGAGTTCAGCATCCAGGACTCCCTGCTGATCCGGAGAATCACG  
 GGAAGGCTGATTCACCCAAGAGTGCCCGGTCTACCATGAGGAGTTC AACCTCCAAAGGAGGCCATGA  
 AAGATGATATCACTGGGAGCCCTGATCCGCAGGTGAGATGACAACGAGAAAGCCTTGAAGACCCGCCT  
 GGAGGCCTACCACACTCAGACCACTCCGCTTGTGGAATACTACAGGAAACGGGGCATTCACTGCGCCATT  
 GATGCGTCCCAGACCCCTGACGTGGTGTGTTGCAAGCATCTGGCAGCCTTCTCCAAGCCACATGTAAG  
 ACTTGGTCATGTTTATC**TAA**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII  
 ACCN: NM\_030986  
 Insert Size: 720 bp



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<b>OTI Disclaimer:</b>	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).
<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_030986.2</a> , <a href="#">NP_112248.2</a>
<b>RefSeq Size:</b>	920 bp
<b>RefSeq ORF:</b>	720 bp
<b>Locus ID:</b>	24184
<b>Cytogenetics:</b>	5q36
<b>Gene Summary:</b>	<p>Catalyzes the reversible transfer of the terminal phosphate group between ATP and AMP. Plays an important role in cellular energy homeostasis and in adenine nucleotide metabolism. Adenylate kinase activity is critical for regulation of the phosphate utilization and the AMP de novo biosynthesis pathways. Plays a key role in hematopoiesis.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the longer protein (isoform a).</p>