

## Product datasheet for **RN202076**

### **Ak3 (NM\_013218) Rat Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ak3 (NM_013218) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ak3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN202076 representing NM_013218 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGGCATCGGGCGGCTGCTGCGCGCCGTGATCATGGGGGCCCGGGCTCCGGTAAGGGCACTGGGT  
CGTCACGCATCACAAACACTTCGAGCTGAAGCACCTCTCCAGCGGGACCTGCCGCCAGAACATGCT  
GCAGGGCACAGAAATCGCTGTGTTGGCCAAGAGCTTCATTGACCAAGGAAAGCTATCCCGATGATGAC  
ATGACTCGGCTGGCCCTCCATGAGCTGAAAAACCTTACCCAGTGTAGCTGGCTGTTGGACGGATTCCAA  
GGACACTTCCACAGGCAGAAGCCCTGGATAGAGTTTATCAGATAGACACAGTGATAAATCTCAACGTGCC  
CTTTGAGGTCATTAACACTACGCCTTACTGCTCGCTGGATTCATCCTGCCAGTGGCCGAGTTTACAACATT  
GAATTC AACCTCCCAAGACTGTGGCATCGATGACCTAACGGGAGAACCCTGATT CAGCGTGAGGACG  
ACAAACCAGAGACGGTGATCAAGAGATTGAAAGCGTATGAAGCCAGACAGAGCCGGTCTGCAGTATTA  
CCAGAAAAAGGGGTGTTGAAACATTCTCCGGAACAGAAACCAACAAGATCAGGCCCCACGTATACTCC  
TTCTGCAAATGAAAGTCCAGAAACCATCAAAAAGCCTCTGTTACTCC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_013218
Insert Size:	684 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).



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<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_013218.1</a> , <a href="#">NP_037350.1</a>
<b>RefSeq Size:</b>	1061 bp
<b>RefSeq ORF:</b>	684 bp
<b>Locus ID:</b>	26956
<b>UniProt ID:</b>	<a href="#">P29411</a>
<b>Cytogenetics:</b>	1q52
<b>Gene Summary:</b>	Involved in maintaining the homeostasis of cellular nucleotides by catalyzing the interconversion of nucleoside phosphates. Has GTP:AMP phosphotransferase and ITP:AMP phosphotransferase activities.[UniProtKB/Swiss-Prot Function]