

## Product datasheet for **RN205759**

### **Ak8 (NM\_001004266) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ak8 (NM_001004266) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ak8
Synonyms:	AK 8; RGD1303144
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN205759 representing NM\_001004266  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGATGTACTCTCGGCCCGCACCGCATCCCCCAGAAATGCCTCAGTACGGGGAAGACTACCACATCT  
 TCGAGATGATGCAGAGCATGCTGGAGCAGCTCCTGATTCACCAGCCAGAGGACCCATCAGCTTCATGAT  
 CAGTCACCTTCGCAGGAACAACGATAATGTGCCGAGAGTTGTGATATTAGGTCGCCCTGCCTCAGGGAAA  
 ACCACCATCGCGATGTGGCTCTGCAAACATCTGAACAGCAACCTCATACCAAGGAGAATTATTAGAGA  
 GAGAGTTTTCCCTCCTGTCTCTGGAAGCCAAGAAACTACCAGGTTTACAAGAGAGTGCCCAATTCGAC  
 TCTTGTGACGCTGGTCCAGGAGCGTCTGAATGAGGATGACTGCCTCAGAAGGGGCTGGATCCTGGATGGC  
 ATCCCCGAGAGGGGGAGCAGGCTCTGATGATCCAGACCCTGGGACTGGCACCAAGCACGTCATCGTGC  
 TTAGCGCTCCAGACTCCGTCTGATCGAGAGAAATGTGGGAAACGGATTGATCCTGTCTACTGGAGAGAT  
 CTATCACACCACCTTCGACTGGCCCCCTGAGCTTGAAATACAGAACAGGCTGATACAGCCAGAAGGCATC  
 TCGGAGATAGACACAGCGAAGAAGCTGCTGGAATACCACAGGCACATCATCAGGATTCCTTCTCCTACC  
 CTAATACTCTGAAACTATCAGCTCAGACCAGCCATGTGTGGATGTCTTCTACCAGGCTCTGACCTACGT  
 CCAATCTGGCCACCGATGTAATGCCCGTTACCCCCAAGGTGCTGCTGTGTGGGCAATGGGCTGTGGG  
 AAGAACTGCAGGCTGCCCTTCTGTCCCAGAAATATGGCTCTGTAACATCAGCTGCGGGCAGCTGCTGA  
 AGGAAGCTATGGCAGCGAATCGAGCCTTGGGGACCTCATAGAACCATTCTTTGAAAAGAGGATGACAGT  
 TCCAGACAGTATCATCACCAGAGTTCTGACTGAGCGTCTGAAGCAACAAGATTGCATCCAGAAAGGGTGG  
 GTGCTGCACGGCTTCCAAGAGACCTGGACCAGGCCGGCTGCTGAACTCTATGGGCTACAGTCCAACA  
 GGGTGTCTTCTGAATGTGCCGTTGGATTCCATCCTGGAGCGGCTCACACTGAGAAGGACAGACCCTGT  
 CACAGGAGAAAGGTTCCATCTCATGTACAAGCCCCCTCCACCATAGAGGTCAGGCTCGCCTCCTGCAG  
 AACCCCAAGGATTCAGAGGAGTACATCAAGCTCCAACCGACTTGTCTATAGGAACTCTGGGGACCTGG  
 AGCAGTACTACGATCGGGCCATATTGTCAACGGTGACCAGGCCATACACAGTTTTTGTAGTATATAGA  
 GAGTGGAAATCATTAACTCTGCCAGGAAAGTTAC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001004266
- Insert Size:** 1440 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: [NM\\_001004266.1](#), [NP\\_001004266.1](#)

RefSeq Size: 1581 bp

RefSeq ORF: 1440 bp

Locus ID: 311833

UniProt ID: [Q68FP8](#)

Cytogenetics: 3p12

**Gene Summary:** Nucleoside monophosphate (NMP) kinase that catalyzes the reversible transfer of the terminal phosphate group between nucleoside triphosphates and monophosphates. Has highest activity toward AMP, and weaker activity toward dAMP, CMP and dCMP. Also displays broad nucleoside diphosphate kinase activity.[UniProtKB/Swiss-Prot Function]