

Product datasheet for **MC226207**

Ak1 (NM_001198790) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ak1 (NM_001198790) Mouse Untagged Clone
Tag: Tag Free
Symbol: Ak1
Synonyms: Ak-1; B430205N08Rik
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC226207 representing NM_001198790
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAAGAGAAGCTGAAGAAGGCCAAGATCATCTTTGTGGTGGGCGGACCTGGCTCAGGAAAGGGCACCC
AGTGCGAGAAGATTGTACAGAAATATGGCTACACCCACCTGTCTACTGGGACCTGCTTCGGGCAGAAGT
CAGCTCTGGATCGGAGAGGGGCAAGAAGCTGTCGGCTATCATGGAGAAGGGAGAGCTAGTGCCACTGGAC
ACGGTGTGGACATGCTCCGAGATGCTATGTTAGCCAAAGTGGATTCTTCCAATGGCTTCCTGATCGACC
GCTACCCGAGGGAGGTGAAACAGGGAGAAGAATTTGAACAGAAGATTGGACAGCCACACTGCTGCTGTA
TGTGGACGCAGGCGCCGAGACCATGACCCAACGACTCCTGAAGCGAGGGGAGACCAGTGGCCGCGTGGAT
GACAACGAGGAGACCATCAAGAAGCGGCTGGAGACTTATTACAATGCCACAGAACCTGTCATCTCCTTCT
ATGACAAGCGTGGCATTGTGCGCAAGTCAATGCCGAAGGCACGGTGGACTGTCTTCTCTGAGGTCTG
CACCTATCTTGACTCCCTGAAG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001198790
Insert Size: 585 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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OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001198790.1</u> , <u>NP_001185719.1</u>
RefSeq Size:	2106 bp
RefSeq ORF:	585 bp
Locus ID:	11636
UniProt ID:	<u>Q9R0Y5</u>
Cytogenetics:	2 22.09 cM
Gene Summary:	<p>Catalyzes the reversible transfer of the terminal phosphate group between ATP and AMP. Also possesses broad nucleoside diphosphate kinase activity. Plays an important role in cellular energy homeostasis and in adenine nucleotide metabolism (By similarity). May provide a mechanism to buffer the adenylate energy charge for sperm motility. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs at the 5' UTR and 5' coding region, compared to variant 1. The encoded protein (isoform 2) has a shorter, distinct N-terminus compared to isoform 1. Variants 2, 3, and 4 encode the same protein (isoform 2).</p>