

Product datasheet for **MC202285**

Ak1 (NM_021515) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ak1 (NM_021515) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ak1
Synonyms:	Ak-1; B430205N08Rik
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >BC054366 sequence for NM_021515
 CAGGGCCAAAGCCAGAGAGAGGGGAGGTGACAGCGGGAACAGGATAGGATCATGGGCTGCTGTGTCTA
 GTGAACCCCAAGAAGAGGGGAGGCAGAAAGACTGGAGAGAAGCTGAAGAAGCCAAGATCATCTTTGTGGT
 GGGCGGACCTGGCTCAGGAAAGGGCACCCAGTGCAGAGAAGATTGTACAGAAATATGGCTACACCCACCTG
 TCTACTGGGGACCTGCTTCGGGCAGAAGTCAGCTCTGGATCGGAGAGGGGCAAGAAGCTGTCGGCTATCA
 TGGAGAAGGGAGAGCTAGTGCCACTGGACACGGTGTGGACATGCTCCGAGATGCTATGTTAGCCAAAGT
 GGATTCTCCAATGGCTTCTGTGACGACGGTACCCGAGGGAGGTGAAACAGGGAGAAGAATTTGAACAG
 AAGATTGGACAGCCACACTGCTGCTGTATGTGGACGCAGGCGCCGAGACCATGACCCAACGACTCCTGA
 AGCGAGGGGAGACCAGTGCCCGCTGGATGACAACGAGGAGACCATCAAGAAGCGGCTGGAGACTTATTA
 CAATGCCACAGAACCTGTCATCTCCTTCTATGACAAGCGTGGCATTGTGCGCAAGGTCAATGCCAAGGC
 ACGGTGGACACTGCTTCTCTGAGGTCTGCACCTATCTTGACTCCCTGAAGTAACTGGATCCCTTGCCA
 GCTCCCAGCCCGCCACCCTTGTCTCCCTGACCCAGGCAGCCTGGCTCAAGCCAGCACCTCCACCCTG
 CCGGGCTGTGCACAGACACAGGAAGCCATGTTATCCTGTCCCATGGACACTAAAGAAATTGCCAAGGAGG
 GTTAGGATTGCTCTTTCTTTGCTTCCAGTTATGGTGATTATGCTGCCACAGCCGGAGGCCCCAGCGT
 GGCCGGCCATTCTTCCCTGTGCTCAGCCAGCTGTCTTGTCTCCCTCTGGCTCTGCTGGGATCCTAGG
 CCCTTCTTAGCCAGGCTGTGTCAAAGCCTAGGGTCCCTGGGTTGGCAGGCTGCTCTGGGGGTCTGGT
 GTTCACCCGTCTTCTCATAGCCTCGTTGTGTGGCTTTGGCCCTAAGCCATTGTCTCTCTGGAGTGAGTTT
 TCTTTTTTCTTTCTTTCTTTCTTTTCTTTTCTTTCTCTGTTTCTTTCTTTTTTTTTTTTTTAAACACA
 GCATCTCGTGTGACTTAAGCTGGCCTCAACCCTGTTATGTAACCTAAGGGCAACCTTAATCCTTCTGCCTC
 CACTTGTCTTCTGTGTGCTGAGATTACAGGTGTGTGTGGACCTCCACCCTCTGGTTTTGGGGCA
 CTGGGAATCAAGCCATGGCCCTGTATACGAGGCCAGCACGCTACAGAGTGAGCTGCATCCCGGGCTGGG
 CAGGTTTTCTGTGCTGACTGGGGTCTGGCATGGGCAAAGGGCAAAGGGCATGGGCTCACCAGCTGGGG
 CCACGGTCACTGGGTGCCAAGGAGCTGTGCAATGGGCATACAGCTAGGTGGGAAGCTGGGGTCAAGGG
 TGGCCTTCTGAAGAAGGCTCCCTTGGTATAGACCTGCCAGGCCTTGCCATCCTTTGGCTGGTTTTAAAG
 CTTGCTCTGTACGCTATGTCCCAACCCTATCCTCGGCCTTAAGACAAGAGCATGCAGATTAAGGAGTG
 TGAGCTGCCATAGACAAGGATGTGGGATCAAGGACCAGGCCTGGGACCCGGAGAGGACACCCAGGGATGC
 CAAGAAGAGCTGGCATCTCTTCTGCTCTTATTCTTTGGTCTCATTACACAGGAAGCCTCTGTTGGTA
 CTCACTTGTCTGGGGCCCGTCTCCATCCCTAGTGACTTCCCCTGTAAGCCAGATAGCCTGTAAGCCA
 GCAGCCATGGCTGTCCAGGGACACCTGCCCTGGGGTGACGGTGTCACTCCTTTCTGTTTACTACCA
 GTGGGGCCACCTTCTTCTGCATTGCCTATTTAAGCTGTCTTTAAAAATAAATAATGTATTTTCAGTTA
 TAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_021515

Insert Size: 633 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: [BC054366](#), [AAH54366](#)

RefSeq Size: 2053 bp

RefSeq ORF: 633 bp

Locus ID: 11636

UniProt ID: [Q9R0Y5](#)

Cytogenetics: 2 22.09 cM

Gene Summary: 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]
Transcript Variant: This variant (1) encodes the longer protein (isoform 1).