

Product datasheet for **MC219121**

Ak5 (NM_001081277) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ak5 (NM_001081277) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ak5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219121 representing NM_001081277
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAACACCAACGACGCCAAGGAGTACCTGGCCGGAGGGACATTCTCAGCTTTTCGAGAGCCTGCTCA
 ATGGCTTGATGTGTTCCAAGCCAGAAGACCCCATAGAGTACTTGAAACTTGTTTACAGAAAGTCAAGGA
 GCTAGGAGGCTGTGACAAGGTGAAGTGGGACACATTTGTCAGCCAGGAAAAGAAGACGTTACCGCCCTA
 AATGGAGGACAATCACGGAGATCCTTCCCGAAATGTCATGCCTGAAAATTCAACTTTCCATATCGGC
 GGTATGACCGGCTCCCTCCAATCCACCAGTTTTCCATAGAGAGTGACACGGACCTGTGGAGACGGCGGA
 GCTGATAGAAGAATATGAGGTTTTGACCCGACTAGACCTCGGCCAAAAATCATTCTTGTCATAGGTGGT
 CCAGGAAGTGGAAAGGTAAGTACTCAGAGTTTGAAAATTCAGAGCGGTATGGATTCCAGTACATCTCAGTGG
 GAGAATTATTGAGGAAGAAAATCCACAGTGCCAGCAGCAACAGAAAATGGAGTCTGATCGCCAAGATAAT
 CACCAATGGGGAGCTGGCCACAGGAGACAACAATTACGGAGATAAAACAAAAATGATGCAAATACCC
 GATGAAGAAGGCATTGTGATTGATGGATTCCCAAGGGATGTTGCCAGGCCTGTCTTTTGGAGACCAGA
 TCTGCACCCCTGACCTGGTGGTGTCTGGCTGTGCCAACAGAGGCTCAAGGAGAGGTTACAGAAAGCG
 TGGCGAGCAGCAGGGCGGCCAGATGACAACTGAAAGCAACCCAAAGGAGACTAGTGAACCTTCAAGCAG
 AATGCCGCCCCACTAGTGAAGTACTTCCAAGAGAAGGGACTCATCGTGACTTTTGATGCCGACCGAGATG
 AAGACGCAGTGTCCATGACATCAGCGTGGCCGTCGACAGCAAGCTGTTTCCAAACAAAGAGGCTCCGAT
 GGATCAAGTGACCTTGACCCTTCCATGATGTTTGGTGGAGAGATTATTGACACAGGATCAGATTAC
 GATAACCAGGACGATGATCAGCTAAATGTATTTGGAGAAGACACAGAGGGAGGCTTCATGGAGATTGGA
 GGAAGTGTAATAATTTTTCTTGATGGTGGCCCTGGCTCTGGCAAAGGCACCCAGTGTGAGAAGCTGGC
 AGAAAAATATGGCTTACCCATCTCTACTGGTGGAGCTCTGGCCAGGAACTGACCTCAGAGTCAGAA
 AGAAGCAAAGTATCCGTGACATCATGGAGCGTGGAGATCTGGTCCCTCGGGTGTGCTTCTGGAGCTGC
 TGAAGGAGGCCATGGTGGCCAGCCTGGGCAACACCAAGGGCTTCTGATTGACGGCTACCCCGGGAAGT
 GAAGCAAGGGGAAGATTTGGACGAAGGATCGGAGACCCACACTTGGTGTCTGCATGGACTGCTCAGCA
 GACACCATGACTAACCGCTTCTCAGAGAAGCCAGAGCAGCCAGCGGGGGAGGACGGTCCAAGAGCA
 TTGCCAAGCGCTGGAGGCTACCACCGAGCGTCCATCCCGTCGTCACCTACTACGAGAGGAAAACACA
 GCTACGGAAGGTAATGCAGAGGGAACACCAGAGCAAGTTTTTCTCAGCTCTGCACAGCTATTGACTCT
 GTTTT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001081277
- Insert Size:** 1689 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_001081277.1](#), [NP_001074746.1](#)

RefSeq Size: 3103 bp

RefSeq ORF: 1689 bp

Locus ID: 229949

UniProt ID: [Q920P5](#)

Cytogenetics: 3 H3

Gene Summary: Nucleoside monophosphate (NMP) kinase that catalyzes the reversible transfer of the terminal phosphate group between nucleoside triphosphates and monophosphates. Active on AMP and dAMP with ATP as a donor. When GTP is used as phosphate donor, the enzyme phosphorylates AMP, CMP, and to a small extent dCMP. Also displays broad nucleoside diphosphate kinase activity.[UniProtKB/Swiss-Prot Function]