

## Product datasheet for **MC208120**

### **Ak4 (NM\_001177602) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ak4 (NM\_001177602) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Ak4  
**Synonyms:** Ak-3; Ak-4; Ak3; Ak3l1; AK 4; D4ErtD274e  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC208120 representing NM\_001177602  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCTTCCAACTCCTGCGCGGGTCATCCTCGGGCCGCCGGCTCTGGCAAGGGCACCGTTTGCAGAA  
GGATCGCCAGAACTTTGGCTCCAGCATCTCTCCAGCGGCCACTTGTTCGGGAGAACCTCAAGACCGG  
CACGGAAGTTGGTGACGTGGCAAACAGTACCTAGAAAAAGGTCTTTGGTTCCAGATCAGTGATCACA  
CGCCTAATGATGTCAGAACTGGAGACTCGGAGTGCAGCACTGGCTGTTAGATGGATCCCGAGGACAT  
TAGTACAGGCAGAAAGCCCTGGACGGAATCTGTGATGTGGACCTAGTAATCAGTTTGAATATTCCTTTTGA  
GACACTTAAAGATCGTCTGAGCCGACGGTGGATTACCCTTCTAGCGGGAGGGTCTATAACCTGGACTTC  
AACCCACCTCAAGTGCAGGGGATTGATGACATCACTGGTGGAGCCACTTGTCCAACAGGAAGATGATAAAC  
CTGAAGCAGTTGCTGCCAGGCTAAGACGGTACAAGGATGCGGCAAACAGTCATCGAACTGTACAAGAG  
CCGTGGAGTGCTCCACCAGTTTCTGGGACGGAGACTAACAGAATCTGGCCTTATGTTTACACACTTTTC  
TCCAACAAGATCACACCTATTCAATCAAAGAAGCCTAC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001177602  
**Insert Size:** 672 bp



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<b>OTI Disclaimer:</b>	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).
<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>	<u><a href="#">NM_001177602.1</a></u> , <u><a href="#">NP_001171073.1</a></u>
<b>RefSeq Size:</b>	5136 bp
<b>RefSeq ORF:</b>	672 bp
<b>Locus ID:</b>	11639
<b>UniProt ID:</b>	<u><a href="#">Q9WUR9</a></u>
<b>Cytogenetics:</b>	4 46.84 cM
<b>Gene Summary:</b>	Involved in maintaining the homeostasis of cellular nucleotides by catalyzing the interconversion of nucleoside phosphates. Efficiently phosphorylates AMP and dAMP using ATP as phosphate donor, but phosphorylates only AMP when using GTP as phosphate donor. Also displays broad nucleoside diphosphate kinase activity.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longest transcript. Variants 1-4 encode the same protein.