

## Product datasheet for **MC221113**

### **Ak7 (NM\_030187) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ak7 (NM_030187) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ak7
Synonyms:	4930502N02Rik; AK 7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC221113 representing NM\_030187  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTGAAGAGGAAGTTCCTGCGACCACCGAAAAAGTTCGAAGATACAGAGGGTATTCATAAACCATC  
 TGGACACCTATAGCAGCGGAAACATAGGAAAGTTCCTAGCTAACTGTGTGCTGGGGCTTACTGGAAGA  
 GATTGGAGAGGAGGAGGAGGAGGACGAGACAAAGTCACTGTAGCTCCAGAAGCCCCACTACAAAA  
 GTGAAGGAAGGCACCTTCCAGATCGTGGCACCTTGGTCAAGCCAGAGAGTGTCAAGCCAGACTTCGCTG  
 TGGAGGCTTATAAGGGCATCTCCCGGAAAGACCTGCTCTCGCATCTCATGGAGTGCATGCTGCATCTA  
 TAACATCACAGAGAATGTGCAGCAAGTGGAGGAAGCCTTGTGGCAGTCTCCGCATTGAATGAAGAAATC  
 AGCCATTTTAAAAGCGAAAGGTGTTCAATTTGTGTCGACAGTATGACATGGGCGAGATCCAAACCCC  
 TGGACCCTGACGACAACGAGGTTCCCTTACAGAAAGGATTATCGAAGAAGGAAACATCACCCCAACT  
 CCTGGACCATATCAACGCTGAAAAAATTGTTCTCAAATTTGAAAAAATGCCAAAAAGTTCGCAACTTAT  
 GTAGTCGCCTCAGGACTTCAAGTATGGAGCAGAAGGAGGCATCTTACACAGTTTTTTAAGATGGCCCTGGC  
 TGGGCGAGGTCCCGCACTACCCGTGTTTGGAGATGGGACCAATTGCATTCCGGCCATTCATGTTGTTGA  
 CCTCGCAGGAGTATCCAGAACATCATAGACCAGTGCCTCAAGCTTCACTACCTGGTGGCTGTGGATGAG  
 GCTGTGCACACCTTGAAGACCTGGTCAAGTGCATCAGCAAAAATACCGGCCCTGGAAGATCCAGAAA  
 TGCCCAAAGAAAATGCTTTCCTGACAAAGGACTTGACACAAGAGTACCTCGACCCTGTGGTCAACCT  
 GAGAATGGAAGCCCTGTTTGTGAAGGAGAACTTAACTCCGCTGGGTGCGCCAAACAGGCTTCGTGGAG  
 AACATCAACAGCATCCTCAAAGAGTACAAGCAAAGCCGGGATTACTGCCAATCAAGATCTGCATCCTTG  
 GTCCCTGCTGTGGGAAAATCCAGCATCTCTGAAGAGCTGGCCAAGTACTACAAACTGCATCACATCAA  
 GATGAAGGATGTGATTGCTGAAGCCATAGCCAAACTGGAGGCGATTGTGCGACCCCAAGGACTCAGTGGAA  
 GGAGAAGAGGAAGGCGAAGAGGAGGAGGAGGAAGAGAACGTGGATGATGCCAGGAGCTCCTTGATGGCA  
 TCAAGGAAAGCATGGAGCAGAACGCAGGTCCGCTAGAAGACCAATATATAATTGATTTGTGAAAGAAAA  
 GCTCAAATCTATGCCTTGTAGGAACCAAGGTTTCATTTTGGATGGCTTCCCAAAGACCTATGATCAAGCG  
 AAAGACCTGTTCAACCAGGAAGAGGAAGAGGAAGAAGAAATCAGAGGCAAAAATTTCCCTATGATA  
 AATTAATTACACCGAGTTTGTGTGCGGTCTGGACGCATCTGATGAGTTCCTGAAGGAGCGGGTATGAA  
 TCTCCCGAGAGTGTGTCGTCAGGAACTACTACAGCCAGGACCGATTCTCCGGTCTCTGAGCCACTAC  
 CGGGACATCAATACAGATGATGAGACGGTCTTCAACTACTTCGACGAGCTTGAAATTCACCCGATACATA  
 TCGATGTAGGAAAATTTGAAGACGCCAGAACAGACTTGTATCAAACAGCTCATCAAAGAGATCGGGAA  
 GCCTCGGAATTACGGCTTAACAGACGAAGAAAAGGCAGAGGAGGAGAAGAAAGCAGCGGAGGAACGCTG  
 GCCAAGGAGGCTGCTCAGACGGCAGAACTCGAACACAAGGAGGCCATGGAGATGGCGGAGAAGATAGCCC  
 GCTGGGAGGAGTGAATAAACGGCTGGAGGAAGTAAAGCGAGAGGAGAGGGAGCTGCTGGAGGTACAGTC  
 CGTCCCTGAGAAACTACCTGATGACGTACGTGATGCCACGCTCATGCAGGGCCTCAATGAATGCTGC  
 AAGGTGAGACCCGAAGACCCCGTGGATTTCTGGCAGAGTATCTTTCAAGAACAATCCTGAAATGCAGT  
 AG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_030187

**Insert Size:** 2172 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).

<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_030187.1</a></u> , <u><a href="#">NP_084463.1</a></u>
<b>RefSeq Size:</b>	3093 bp
<b>RefSeq ORF:</b>	2172 bp
<b>Locus ID:</b>	78801
<b>UniProt ID:</b>	<u><a href="#">Q9D2H2</a></u>
<b>Cytogenetics:</b>	12 E
<b>Gene Summary:</b>	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. Involved in maintaining ciliary structure and function.[UniProtKB/Swiss-Prot Function]