

## Product datasheet for **MR218024**

### **Ak7 (NM\_030187) Mouse Tagged ORF Clone**

#### **Product data:**

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



[View online »](#)

ORF Nucleotide  
Sequence:

>MR218024 representing NM\_030187  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCTGAAGAGGAAGTTCCTGCGACCACCGAAAAAGTTCTGAAGATACAGAGGGTATTCATAAACCATC  
TGGACACCTATAGCAGCGGAAACATAGGAAAGTTCCTAGCTAACTGTGTGCTGGGGCTTACTGGAAGA  
GATTGGAGAGGAGGAGGAGGAGGACGAGACAAAGTCAAGTGTAGCTCCAGAAGCCCCACTACAAAA  
GTGAAGGAAGGCACCTTCCAGATCGTGGGCACCTTGGTCAAGCCAGAGAGTGTCAAGCCAGACTTCGCTG  
TGGAGGCTTATAAGGGCATCTCCCGGGAAGACCTGCTCTCGCATCTCATGGAGTGCATGCTGCATCTA  
TAACATCACAGAGAATGTGCAGCAAGTGGAGGAAGCCTTGTGGCAGTCTCCGCATTGAATGAAGAAATC  
AGCCATTTTAAAAGCGAAAGGTGTTCAATTTGTTGTCGACAGTGTGACATGGGCGAGATCCAAACCC  
TGGACCCTGACGACAACGAGGTTCCCTTACAGAAGAGGATTATCGAAGAAGGAAACATCACCCCAACT  
CCTGGACCATATCAACGCTGAAAAAATTGTTCTCAAATTTGAAAAAATGCCAAAAAGTTCGCAACTTAT  
GTAGTCGCCTCAGGACTTCAAGTATGGAGCAGAAGGAGGCATCTTACACAGTTTTTTAAGATGGCCTGGC  
TGGGCGAGGTCCCGCACTACCCGTGTTTGGAGATGGGACCAATTGCATTCCGGCCATTCATGTTGTTGA  
CCTCGCAGGAGTGATCCAGAACATCATAGACCAGTGCCCAAGCTTCACTACCTGGTGGCTGTGGATGAG  
GCTGTGCACACCTTGAAGACCTGGTCAAGTGCATCAGCAAAAATACCGGCCCTGGAAGATCCAGAAA  
TGCCCAAAGAAAATGCTTTCCTGACAAAGGACTTGACACAAGAGTACCTCGACCCTGTGGTCAACCT  
GAGAATGGAAGCCCTGTTTGTGAAGGAGAACTTAACTCCGCTGGGTCGCCAAACAGGCTTCGTGGAG  
AACATCAACAGCATCTCAAAGAGTACAAGCAAAGCCGGGATTACTGCCAATCAAGATCTGCATCCTTG  
GTCTCCTGCTGTGGGAAAATCCAGCATCTCTGAAGAGCTGGCCAAGTACTACAAATGCATCACATCAA  
GATGAAGGATGTGATTGCTGAAGCCATAGCCAAACTGGAGGCGATTGTGCGACCCCAAGGACTCAGTGGAA  
GGAGAAGGAAGGCGAAGAGGAGGAGGAGGAAGAGAACGTGGATGATGCCAGGAGCTCCTTGATGGCA  
TCAAGGAAGCATGGAGCAGAACGCAGGTCCGCTAGAAGACCAATATATAATTGATTTGTGAAAGAAAA  
GCTCAAATCTATGCCTTGTAGGAACCAAGGTTTCATTTTGGATGGCTTCCCAAAGACCTATGATCAAGCG  
AAAGACCTGTTCAACCAGGAAGAGGAAGAGGAAGAAGAAGAAATCAGAGGCAAAATATTTCCCTATGATA  
AATTAATTACACCGAGTTTGTGTGCGGTCTGGACGCATCTGATGAGTTCCTGAAGGAGCGGGTGTGAA  
TCTCCCGAGAGTGTGTCGGCAGGAACACTACAGCCAGGACCGATTCTCCGGTCTCTGAGCCACTAC  
CGGACATCAATACAGATGATGAGACGGTCTTCAACTACTTCGACGAGCTTGAAATTCACCCGATACATA  
TCGATGTAGGAAAATCTGAAGACGCCAGAACAGACTTGTATCAAACAGCTCATCAAAGAGATCGGGAA  
GCCTCGGAATTACGGCTTAACAGACGAAGAAAAGGCAGAGGAGGAGAAGAAAGCAGCGGAGGAACGCTG  
GCCAAGGAGGCTGCTCAGACGGCAGAACTCGAACACAAGGAGGCCATGGAGATGGCGGAGAAGATAGCCC  
GCTGGGAGGAGTGAATAAACGGCTGGAGGAAGTAAAGCGAGAGGAGAGGGAGCTGCTGGAGGTACAGTC  
CGTCCCTGAGAAACTACCTGATGACGTACGTGATGCCACGCTCATGCAGGGCCTCAATGAATGCTGC  
AAGGTGAGACCCGAAGACCCCGTGGATTTCTGGCAGAGTATCTTTCAAGAACAATCCTGAAATGCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR218024 representing NM\_030187  
Red=Cloning site Green=Tags(s)

```

MAEEEVPATTEKVLKIQRVFINHLDTYSSGNIGKFLANCVAGASLEEIGEEEEEEDETKSAVAPEPTTK
VKEGTFQIVGTLVKPESVKPDFAVEAYKGISREDLLSHLMCEDAVIYNI TENVQQVEEALWAVSALNEEI
SHFEKRKVFILLSTVMTWARSKPLDPDDNEVPFTEEDYRRRKHHPNFLDHINAELIVLKFGNNAKFFATY
VVASGLQYGAEGGILHTFFFKMAWLGEVPALPVFGDGTNCIPAIHVVDLAGVIQNIIDHVPKLHYLVAVDE
AVHTLEDLVKCI SKNTGPGKIQKVPKENAFLTKDLTQEYLDHLLVNL RMEALFVKENFNIRWVAQTGFVE
NINSILKEYKQSRGLLPKIKICILGPPAVGKSSISEELAKYYKLHHIKMKDVIAEAI AKLEAIVAPKDSVE
GEEGEEEEEEENVDDAQELLDGIKESMEQNAGRLEDQYIIRFVKEKLSMPCRNQGFILDGFPKTYDQA
KDLFNQEEEEEEERIGKIFPYDKLITPEFVCGLDASDEFKERVMLPESV VAGTHYSQDRFLRSLSHY
RDINTDDETVFNFYFDELEIHPHIDVGKLEDAQNRLAIKQLIKEIGKPRNYGLTDEEKAEKAAEERL
AKEAAQTAELEHKEAMEMAEKIARWEEWNKRLEEVKREERELLEVSQVPLRNYLMTYVMP TLMQGLNECC
KVRPEDPVDFLAEYLFKNNPEMQ
    
```

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9097\\_a03.zip](https://cdn.origene.com/chromatograms/mm9097_a03.zip)

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_030187

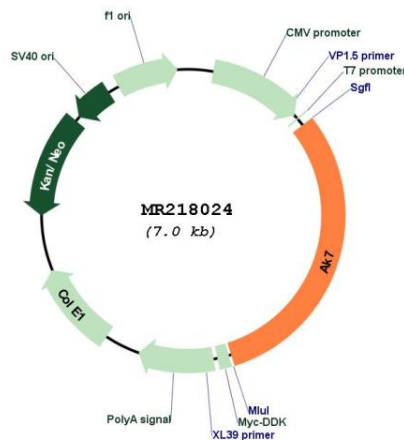
**ORF Size:** 2169 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<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>MW:</b>	82.5 kDa
<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]

### Product images:



Circular map for MR218024