

## Product datasheet for MR201449

### Ak6 (NM\_027592) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ak6 (NM\_027592) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ak6  
**Synonyms:** 2810046E22Rik; 4921516M08Rik; AK/ATPase  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201449 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAGCTCCGAATATCCTGCTCACCGGTACACCAGGGTTGGAAAAACCACACTAGGCAAGAAGCTTG  
 CATCAAGATCAGGCCTGAAGTACGTTAACGTGGGAGATCTAGCTCGAGAAGGGCAGTTATACGACGGCTA  
 CGATGAGGAGTATGGCTGTCCATTCTAGATGAGGATAGGGTTGTCGATGAGTTAGAGCATCAGATGCAG  
 GAGGGCGGTGTGATTGTGGATTACCACGGCTGTGACTTCTCCCCGAACGCTGGTTTCATATAGTGTGG  
 TGGTGAACAGATAATGGTGTATTGTATAAACGACTTGAACAAGGGTTATAATGAGAAGAACTACA  
 AGACAATATTCAGTGTGAGATTTTCAAGTTCTTTATGAAGAAGCCATAGCATCTTACAAAGAAGAAATC  
 GTGCATCAGCTGCCAGTAATGAACCAGAACAGCTCGAGGACAATATCAACCAAATCTCAAATGGATTG  
 AGCAGTGGGTCAAAGATCATAACCCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201449 protein sequence  
 Red=Cloning site Green=Tags(s)

MKLPNILLTGTPGVGKTTLGKELASRSLKYVNVGDLAREGQLYDGYDEEYGCPILEDTRVVDLEHQMQ  
 EGGVIVDYHGCDFFPERWFHIVFLRTDNGVL YKRL ETRGYNEKKLQDNIQCEIFQVLYEEAIASYKEEI  
 VHQLPSNEPEQLEDNINQISKWIEQWVKDHNP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



**Cloning Scheme:**


**ACCN:** NM\_027592

**ORF Size:** 519 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.

**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\\_027592.3](#)

**RefSeq Size:** 990 bp

**RefSeq ORF:** 519 bp

**Locus ID:** 102216272

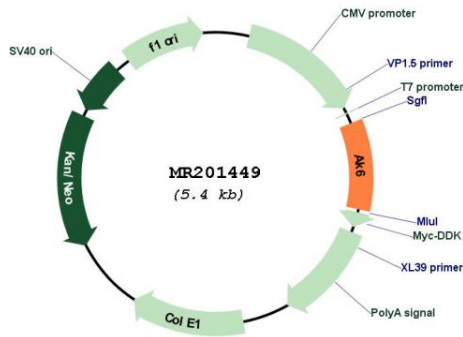
**UniProt ID:** [Q8VCP8](#)

**Cytogenetics:** 13

**MW:** 19.9 kDa

**Gene Summary:** Broad-specificity nucleoside monophosphate (NMP) kinase that catalyzes the reversible transfer of the terminal phosphate group between nucleoside triphosphates and monophosphates. May have a role in nuclear energy homeostasis. Has also ATPase activity. May be involved in regulation of Cajal body (CB) formation.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR201449