

Product datasheet for **MR222489**

Ak3 (NM_021299) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ak3 (NM_021299) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ak3
Synonyms: AA407498; AI506714; AK-3; Ak3l; Ak3l1; Ak13l
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR222489 representing NM_021299
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCGTCGGGGCGGCTGCTGCGCGCGTGATCATGGGGCCCCGGGCTCCGGCAAGGGCACCGTGT
CGTCACGCATACCAAACACTTCGAGCTGAAGCACCTCTCCAGCGGGACCTGCTCCGCCAGAACATGCT
GCAGGGCACAGAAATCGGTGTGTGGCCAAGACTTTCATTGACCAAGGAAAGCTGATCCAGATGACGTC
ATGACTCGGCTGGCCCTCACGAGCTCAAACCCTTACCCAGTGTAGCTGGCTGTTGGATGGATTCCAA
GGACACTCCACAGGCAGAAGCCCTGGATAAAGTTTATCAGATAGACACAGTGATAAATCTCAACGTGCC
CTTTGAGGTCATTAACAGCGCCTTACTGCTCGCTGGATACATCCTGCCAGTGGTCGAGTATACAACATT
GAATTC AACCTCCCAAGACTGTGGCATTGATGACCTGACCGGAGAACCCTTGATTACAGCGGAGGATG
ACAAACCAGAGACAGTGATCAAGAGACTAAAGGCCTATGAAGCCCAGACAGAGCCGGTCTCGAGTATTA
CCAGAAAAAGGGGTGTTGGAACATTCTCTGGAACAGAAACCAACAAGATCTGGCCCCACGTATACTCC
TTCCTACAGACGAAAGTTCCAGAAACTACCAAAAGGCCTCTGTTACTCCC

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222489 representing NM_021299
Red=Cloning site Green=Tags(s)

MGASGRLLRAVIMGAPGSGKGTVSSRITKHFELKHLSSGDLLRQNLQGTEIGVLAKTFIDQGKLI PDDV
MTRLALHELKTLTQCSWLLDGFPRTPLPQAEALDKVYQIDTVINLNVPFVIKQRLTARWIHPASGRVYNI
EFNPPKTVGIDDLTGEPLIQREDDKPETVIKRLKAYEAQTEPVLQYYQKKGVLTFSGTETNKIWP HVYS
FLQTKVPETTQKASVTP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9045_f08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021299

ORF Size: 681 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_021299.2](#)

RefSeq Size: 2776 bp

RefSeq ORF: 684 bp

Locus ID: 56248

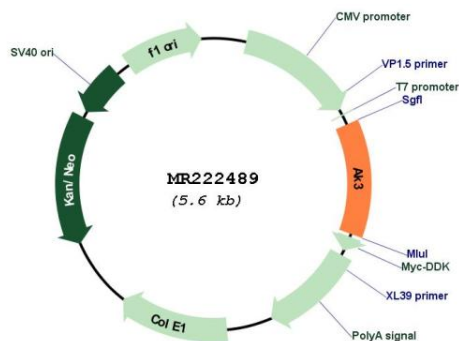
UniProt ID: [Q9WTP7](#)

Cytogenetics: 19 C1

MW: 25.9 kDa

Gene Summary: Involved in maintaining the homeostasis of cellular nucleotides by catalyzing the interconversion of nucleoside phosphates. Has GTP:AMP phosphotransferase and ITP:AMP phosphotransferase activities.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222489