

## Product datasheet for **MG222489**

### Ak3 (NM\_021299) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ak3 (NM_021299) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ak3
Synonyms:	AA407498; AI506714; AK-3; Ak3I; Ak3I1; AkI3I
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222489 representing NM_021299 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGCGTCGGGGCGGCTGCTGCGCGCGTGATCATGGGGCCCCGGGCTCCGGCAAGGGCACCGTGT  
CGTCACGCATACCAAACACTTCGAGCTGAAGCACCTCTCCAGCGGGGACCTGCTCCGCCAGAACATGCT  
GCAGGGCACAGAAATCGGTGTGTGGCCAAGACTTTCATTGACCAAGGAAAGCTGATCCAGATGACGTC  
ATGACTCGGCTGGCCCTCACGAGCTCAAACCCTTACCCAGTGTAGCTGGCTGTTGGATGGATTCCAA  
GGACACTCCACAGGCAGAAGCCCTGGATAAAGTTTATCAGATAGACACAGTGATAAATCTCAACGTGCC  
CTTTGAGGTCAATTAACAGCGCCTTACTGCTCGCTGGATACATCCTGCCAGTGGTCGAGTATACAACATT  
GAATTC AACCTCCCAAGACTGTGGCATTGATGACCTGACCGGAGAACCCTTGATTACAGCGGAGGATG  
ACAAACCAGAGACAGTGATCAAGAGACTAAAGGCCTATGAAGCCCAGACAGAGCCGGTCTCGAGTATTA  
CCAGAAAAAGGGGTGTTGGAACATTCTCTGGAACAGAAACCAACAAGATCTGGCCCCACGTATACTCC  
TTCCTACAGACGAAAGTTCCAGAAACTACCAAAAGGCCTCTGTTACTCCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG222489 representing NM\_021299  
 Red=Cloning site Green=Tags(s)

MGASGRLLRAVIMGAPGSGKGTVSSRITKHFELKHLSSGDLRQNLQGTEIGVLAKTFIDQGKLIIPDDV  
 MTRLALHELKTLTQCSWLLDGFPRTLPQAEALDKVYQIDTVINLNVPFVEVIKQRLTARWIHPASGRVYNI  
 EFNPPKTVGIDDLTGEPLIQREDDKPETVIKRLKAYEAQTEPVLQYYQKKGVLETFSGTETNKIWPVHYS  
 FLQTKVPETTQKASVTP

TRTRPLE - GFP Tag - V

**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

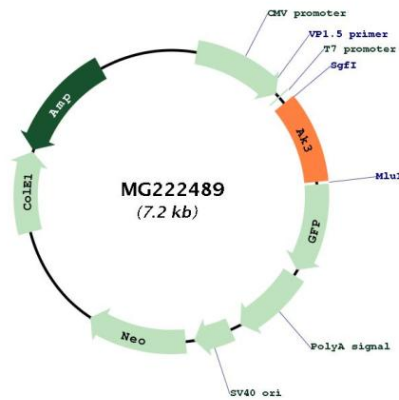
**Locus ID:** 56248

**UniProt ID:** [Q9WTP7](#)

**Cytogenetics:** 19 C1

**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 MG222489