

Product datasheet for **MG221761**

Ak4 (NM_001177602) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ak4 (NM_001177602) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ak4
Synonyms:	Ak-3; Ak-4; Ak3; Ak3l1; AK 4; D4ErtD274e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG221761 representing NM_001177602 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTCCAACCTCCTGCGCGGGTCATCCTCGGGCCGCCGGCTCTGGCAAGGGCACCCTTTGCGAAA
GGATCGCCAGAACTTTGGCCTCCAGCATCTCTCCAGCGGCCACTTGTTCGGGAGAACCTCAAGACCGG
CACGGAAGTTGGTGACGTGGCAAACAGTACCTAGAAAAAGTCTTTTGGTTCCAGATCACGTGATCACA
CGCCTAATGATGTCAGAACTGGAGACTCGGAGTCCCAGCACTGGCTGTTAGATGGATCCCGAGGACAT
TAGTACAGGCAGAAGCCCTGGACGGAATCTGTGATGTGGACCTAGTAATCAGTTTGAATATTCCTTTTGA
GAACTTAAAGATCGTCTGAGCCGACGGTGGATTACCCTTCTAGCGGGAGGGTCTATAACCTGGACTTC
AACCCACCTCAAGTGCAGGGATTGATGACATCACTGGTGGACCACTTGTCCAACAGGAAGATGATAAAC
CTGAAGCAGTTGCTGCCAGGCTAAGACGGTACAAGGATGCGGCAAAACCAGTCATCGAACTGTACAAGAG
CCGTGGAGTGCTCCACCAGTTTCTGGGACGGAGACTAACAGAATCTGGCCTTATGTTTACACACTTTTC
TCCAACAAGATCACACCTATTCAATCCAAGAAGCCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG221761 representing NM_001177602
 Red=Cloning site Green=Tags(s)

MASKLLRAVILGPPGSGKGTVCERIAQNFGLQHLSSGHLLRENKLTGTEVGDVAKQYLEKGLLVPDHVIT
 RLMMSLELETRSAQHLLDGFPRTLVQAEALDGCIDVDLVISLNIPFETLKDRLSRRWIHPSSGRVYNLDF
 NPPQVQGIDDITGEPLVQQEDDKPEAVAARLRRYKDAAKPVIELYKSRGVLHQFSGTETNRIWPVYVYTLF
 SNKITPIQSKEAY

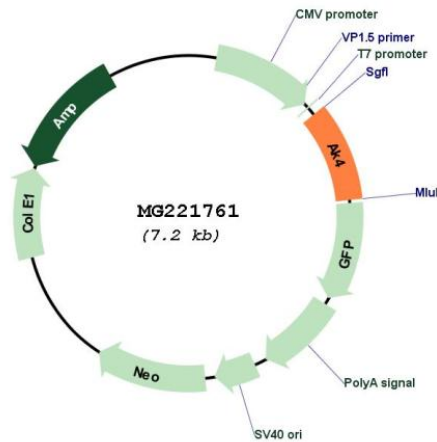
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001177602

ORF Size: 669 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:	<ol style="list-style-type: none">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_001177602.1 , NP_001171073.1
RefSeq Size:	5136 bp
RefSeq ORF:	672 bp
Locus ID:	11639
UniProt ID:	Q9WUR9
Cytogenetics:	4 46.84 cM
Gene Summary:	Involved in maintaining the homeostasis of cellular nucleotides by catalyzing the interconversion of nucleoside phosphates. Efficiently phosphorylates AMP and dAMP using ATP as phosphate donor, but phosphorylates only AMP when using GTP as phosphate donor. Also displays broad nucleoside diphosphate kinase activity.[UniProtKB/Swiss-Prot Function]