

Product datasheet for **MR220778**

Ak8 (NM_001033874) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ak8 (NM_001033874) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ak8
Synonyms:	1190002A17Rik; AK 8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>MR220778 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

 TTTTGAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

 ATGGATGCAACCACAGCCCTCATCGCATTCCCCGGAATGCCTCAGTACGGGAAGACTACTACATTT
TCGAGATGATGCAGAACATGTTGGAGCAGCTCCTGATCCACCAGCGGAGGACCCCATCAGCTTCATGAT
CACTCACCTGCGCAGGAACAATGATAATGTGCCGAAGGTTGTGATATTAGGTCCGCCTGCCTCAGGGAAA
ACCACCATCGCCATGTGGCTCTGCAAACATCTAAACAGCAACCTCATACCAAGGAGAGCTTACTAGAAA
GAGAGTTTTCCGCTGTCTGTGGAAGCCAAGAGTTACTACCAGGTTTACAAGAAGATCCCAATTCGAT
TCTTGTGAGTCTGTCCAGGAGCGTCTGAATGAAGATGACTGCCTCAGAAAGGGCTGGATCCTGGACGGC
ATCCCTGAGAGGGCGGAGCAGGCTCTGATGATCCAGACCTGGGGCTGGCGCCAAGCACGTCATTGTGC
TTAATGTCTCAGACACTGCTGATCGAGAGAAATGTGGCAAGCGGATCGACCCTGTACCGGAGAGAT
CTATCACACCACCTTCGACTGGCCCCCTGAGCCTGAAATACAGAACAGGCTGAGACAGCCGAGGGCATC
TCGGAGATCGAAACGGCGAAGAAGCTGCTGGAGTACCACAGGCACATCATCAGGATTCCTCCTTCTTACC
CAAAAATCCTGAAAACCATCAGCTCAGACCAGCCGTGTGTGGATGTCTTCTACCAGGCTCTGACCTATGT
CCAATCTGGCCATCGATGCAATGCCCATTCACCCCCAAGGTGCTGCTGTGTGGGCCGTTGGGCAGCGGG
AAGAGACTGCAGGCTACCTTCTGGCCAGAAATATGGCCTTGTAAACATCAGCTGCGGGCAGCTGCTGA
AGGAGGCTGTGGCAGCCAAGTCAAGCTTCGGGGAGCTCATCCAGCCATTCTTTGAAAAGAGGATGACAGT
TCCAGACAGTATCATCACCAGTTCTGGCTGATCGAATGGAGCAACAAGATTGCATCCAGAAAGGGTGG
GTGCTGCACGGCTTCCCAAGAGACCTGGACCAGGCCCGGATGCTGAATCCATGGGCTACAATCCCAACA
GGGTCTTCTTCTGAGTGTGCCACTGGATTCCATTCTGGAGCGGCTGACGCTGAGAAGGACAGACCTGT
CACAGGAGAAAGGTTCCACCTCATGTACAAGCCCCCTCCACCATAGAGGTCCAGGTCCGCCTCCTGCAG
AACCCCAAGGATTCAGAGGAGTACATCAAGCTCCAAACGACCTGTTCTACAGGAACTCTGGGGATCTGG
AGCAGTACTACGATCGAGCCATATTGTCAACGGAGACCAGGCCATACACAGTTTTTGAGTATATAGA
GGGCGGGATCATTAATCTCTGCCAGGAAAGTTACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220778 protein sequence

Red=Cloning site Green=Tags(s)

 MDATTAPHRIPEMPQYGEDYYIFEMMQNMLEQLLIHQPEDPISFMITHLRRNNDNVPKVILGPPASGK
TTIAMWLCKHLNSNLITKESLLEREF SRLSVEAKSYYQVYKKIPNSILVSLVQERLNEDDCLRKGWILDG
IPERREQALMIQTLGLAPKHVIVLNAPDVLIERNVGKRIDPVTGEIYHTTFDWPPEPEIQNRLRQPEGI
SEIETAKLLEYHRHIIIRILPSYPKILKTISSDQPCVDVFYQALTYVQSGHRCNAPFTPKVLLCGPLGSG
KRLQATLLAQKYGLVNISCGQLLKEAFAAKSSFGEIIPFFEKRMTPVDSIITKVLADRMQQDCIQKGW
VLHGFPRDLQARMLNSMGYNPNRVFFLSVPLDSILERLTLRRTPVTGERFHLMYKPPPTIEVQVRLLQ
NPKDSEYIKLQTDLFYRNSGDLEQYYDRAIIVNGDQDPYTVFEYIEGGIINPLPRKVT

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001033874

ORF Size: 1437 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001033874.1](#)

RefSeq Size: 1584 bp

RefSeq ORF: 1440 bp

Locus ID: 68870

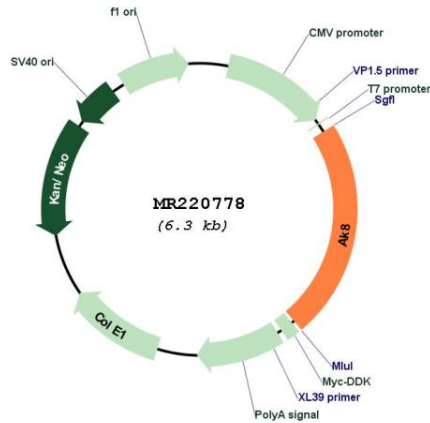
UniProt ID: Q32M07

Cytogenetics: 2 A3

MW: 55 kDa

Gene Summary: 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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220778