

Product datasheet for **RR205759**

Ak8 (NM_001004266) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ak8 (NM_001004266) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ak8
Synonyms:	AK 8; RGD1303144
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR205759 representing NM_001004266
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATGTACTCTCGGCCCGCACCGCATCCCCCAGAAATGCCTCAGTACGGGGAAGACTACCACATCT
 TCGAGATGATGCAGAGCATGCTGGAGCAGCTCCTGATTACCAGCCAGAGGACCCCATCAGCTTCATGAT
 CAGTCACCTTCGCAGGAACAACGATAATGTGCCGAGAGTTGTGATATTAGGTCGCCCTGCCTCAGGGAAA
 ACCACCATCGCGATGTGGCTCTGCAACATCTGAACAGCAACCTCATACCAAGGAGAAGTTATTAGAGA
 GAGAGTTTTCCCTCCTGTCTCTGGAAGCCAAGAAACTACCAGGTTTACAAGAGAGTGCCCAATTCGAC
 TCTTGTACGCTGGTCCAGGAGCGTCTGAATGAGGATGACTGCCTCAGAAGGGGCTGGATCCTGGATGGC
 ATCCCGAGAGGGCGGAGCAGGCTCTGATGATCCAGACCTGGGACTGGCACCAAGCACGTCATCGTGC
 TTAGCGCTCCAGACTCCGTCCTGATCGAGAGAAATGTGGGAAACGGATTGATCCTGTACTGGAGAGAT
 CTATCACACCACCTTCGACTGGCCCCCTGAGCTTGAAATACAGAACAGGCTGATACAGCCAGAAGGCATC
 TCGGAGATAGACACAGCGAAGAAGCTGCTGGAATACCACAGGCACATCATCAGGATTCCTTCTCTACC
 CTAATACTGAAACTATCAGCTCAGACCAGCCATGTGTGGATGTCTTCTACCAGGCTCTGACCTACGT
 CCAATCTGGCCACCGATGTAATGCCCGTTACCCCCAAGGTGCTGCTGTGTGGGCAATGGGCTGTGGG
 AAGAACTGCAGGCTGCCCTTCTGTCCCAGAAATATGGCTCGTGAACATCAGCTGCGGGCAGCTGCTGA
 AGGAAGCTATGGCAGCGCAATCGAGCCTTGGGGACCTCATAGAACCATTCTTTGAAAAGAGGATGACAGT
 TCCAGACAGTATCATCACCAGAGTTCTGACTGAGCGTCTGAAGCAACAAGATTGCATCCAGAAAGGGTGG
 GTGCTGCACGGCTTCCAAGAGACCTGGACCAGGCCGGCTGCTGAACTCTATGGGCTACAGTCCAACA
 GGGTGTCTTCTGAATGTGCCGTTGGATTCCATCCTGGAGCGGCTCACACTGAGAAGGACAGACCCCTGT
 CACAGGAGAAAGGTTCCATCTCATGTACAAGCCCCCTCCACCATAGAGGTCCAGGCTCGCCTCCTGCAG
 AACCCCAAGGATTCAGAGGAGTACATCAAGCTCCAACCGACTTGTCTATAGGAACTCTGGGGACCTGG
 AGCAGTACTACGATCGGGCCATATTGTCAACGGTGACCAGGCCATACACAGTTTTTGTAGTATATAGA
 GAGTGAATCATTAACTCTGCCAGGAAAGTTACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR205759 representing NM_001004266
 Red=Cloning site Green=Tags(s)

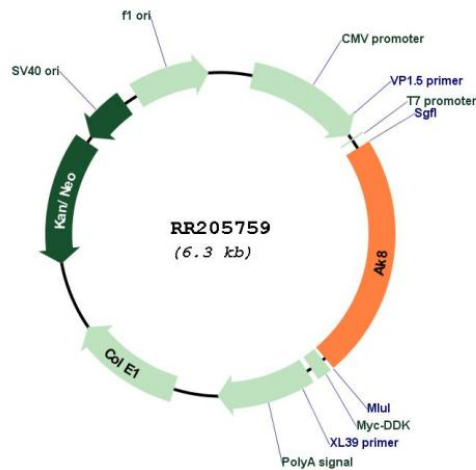
MDATSAPHRIPPEMPQYGEDYHIFEMMQSMLEQLLIHQPEDPISFMISHLRRNNDNVPRVILGPPASGK
 TTIAMWLCKHLNSNLITKENLLEREFSLLSLEAKKHQVYKRVNSTLVSLVQERLNEDDCLRRGWILDG
 IPERREQALMIQTLGLAPKHVIVLSAPDSVLIERNVGRIDPVTGEIYHTTFDWPPELEIQNRLIQPEGI
 SEIDTAKLLLEYHRHIIRILPSYPKILKTISSDQPCVDVFYQALTYVQSGHRCNAPFTPKVLLCGPMGCG
 KKLQAALLSQKYGLVNI SCGQLLKEAMAAESSLDLIEPFPEKRMTPVDSIITRVLTERLQKQDCIQKGW
 VLVHGFPRDLQARLLNSMGYSPNRVFFLNPLDSILERLTLRRDTPVTGERFHLMYKPPPTIEVQARLLQ
 NPKDSEEIYKQLTDLFYRNSGDLEQYYDRAIIVNGDQDPYTVFEYIESGIINPLPRKVT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001004266

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:	<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:	<u>NM_001004266.1, NP_001004266.1</u>
RefSeq Size:	1581 bp
RefSeq ORF:	1440 bp
Locus ID:	311833
UniProt ID:	<u>Q68FP8</u>
Cytogenetics:	3p12
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]