

Product datasheet for **RR210557**

Ak4 (NM_017135) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ak4 (NM_017135) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ak4
Synonyms: Ak3I1; Ak3I2; AK 4
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR210557 representing NM_017135
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTCCAACTCCTGCGCGCAGTCATCCTGGGGCCGCTGGCTCTGGCAAGGGCACGGTATGCGAAA
GGATCGCCAGAAGCTTTGGCTCCAGCATCTCTCCAGCGGCCACTTGTTCGGGAGAACCCTAAAGACCAA
CACGGAAGTTGGTGACGTGGCAAACAGTACCTAGAAAAAGTCTTTTGGTTCCGGACCATGTGATCAGC
CGCCTAATGATGTCAGAACTGGAGACCCGGAGTCCCAGCACTGGCTATTAGATGGATCCCAAGGACAT
TAGTGACGGCAGAAGCTCTGGACAGAATCTGTGATGTGGACCTAGTAATCAGTTTGAATATTCCTTTCGA
GACACTTAAAGATCGTCTGAGCCGACGGTGGATTACCCTTCCAGCGGGAGGGTCTATAACCTAGACTTC
AACCCACCTCAAGTGCTGGGGTTGATGACATCACCGGCGAGCCTCTTGTCCAACAGGAAGATGATAAAC
CTGAAGCACTTGCTGCCCGGCTAAGACGGTACAAGGACGACGAAACCAGTCATCGAACTGTACAAGAG
CCGTGGAGTGCTCCACCAGTTTTCTGGGACGGAGACTAACAGAATCTGGCCTTATGTTTACACGCTCTTC
TCCAACAAGATCACCCATTCAATCCAAGAAGCCTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR210557 representing NM_017135
Red=Cloning site Green=Tags(s)

MASKLLRAVILGPPGSGKGTVCERIAQNFGLQHLSSGHLLRENLKTNTEVGDVAKQYLEKGLLVPDHFVIT
 RLLMMSELETRSAQHLLDGFPRTLVQAEALDRICDVLVISLNIPFETLKDRLSRRWIHPSSGRVYNLDF
 NPPQVLGVDDITGEPLVQQEDDKPEALARRRYKDAAKPVIELYKSRGVLHQFSGTETNRIWPVYVYTLF
 SNKITPIQSKEY

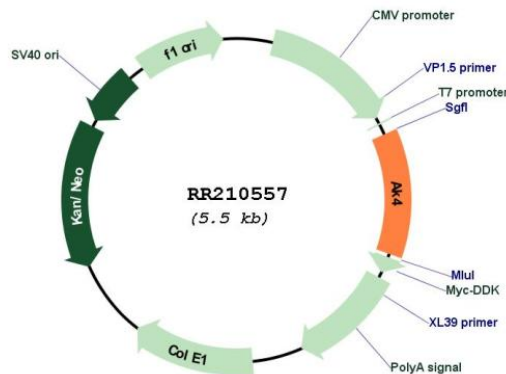
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_017135

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_017135.3 , NP_058831.1
RefSeq Size:	677 bp
RefSeq ORF:	672 bp
Locus ID:	29223
UniProt ID:	Q9WUS0
Cytogenetics:	5q33
MW:	25.2 kDa
Gene Summary:	adenylate kinase isozyme that may play a role in energy metabolism [RGD, Feb 2006]