

Product datasheet for MR228419

Ak1 (NM 001198791) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Ak1 (NM_001198791) Mouse Tagged ORF Clone

Tag: Myc-DDK

Symbol: Ak1

Synonyms: Ak-1; B430205N08Rik

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>MR228419 ORF sequence

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGAAGAAGCTGAAGAAGGCCAAGATCATCTTTGTGGTGGGCGGACCTGGCTCAGGAAAGGGCACCC AGTGCGAGAAGATGTACAGAAATATGGCTACACCCACCTGTCTACTGGGGACCTGCTTCGGGCAGAAGT CAGCTCTGGATCGGAGAGGGGCAAGAAGCTGTCGGCTATCATGGAGAAGGGAGAGCTAGTGCCACTGGAC ACGGTGCTGGACATGCTCCGAGATGCTATGTTAGCCAAAGTGGATTCTTCCAATGGCTTCCTGATCGACG GCTACCCGAGGAGGTGAAACAGGGAGAAGAATTTGAACAGAAGATTGGACAGCCCACACTGCTGCTGTA TGTGGACGCAGGCCCGAGACCATGACCCAACGACTCCTGAAGCGAGGGGAGACCAGTGCCGCTGGAT GACAACGAGGAGACCATCAAGAAGCGGCGCGAGACCTTATTACAATGCCACAGAACCTGTCATCTCTTCT ATGACAAGCGTGGCATTGTGCGCAAGGTCAATGCCGAAGGCACGGTGGACACTGTCTTCTCTGAGGTCTG

CACCTATCTTGACTCCCTGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228419 protein sequence

Red=Cloning site Green=Tags(s)

MEEKLKKAKIIFVVGGPGSGKGTQCEKIVQKYGYTHLSTGDLLRAEVSSGSERGKKLSAIMEKGELVPLD TVLDMLRDAMLAKVDSSNGFLIDGYPREVKQGEEFEQKIGQPTLLLYVDAGAETMTQRLLKRGETSGRVD

DNEETIKKRLETYYNATEPVISFYDKRGIVRKVNAEGTVDTVFSEVCTYLDSLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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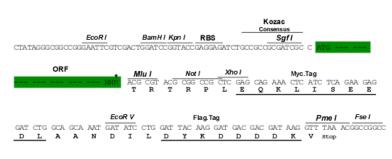
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Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_001198791

ORF Size: 585 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 001198791.1, NP 001185720.1

RefSeq Size: 2088 bp
RefSeq ORF: 585 bp
Locus ID: 11636
UniProt ID: Q9R0Y5



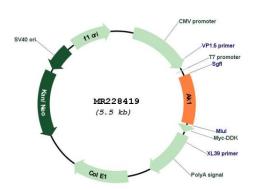
Cytogenetics: 2 22.09 cM MW: 21.5 kDa

Gene Summary: Catalyzes the reversible transfer of the terminal phosphate group between ATP and AMP.

Also possesses broad nucleoside diphosphate kinase activity. Plays an important role in cellular energy homeostasis and in adenine nucleotide metabolism (By similarity). May provide a mechanism to buffer the adenylate energy charge for sperm motility.

[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR228419