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Product datasheet for MC200519

Ak2 (NM_016895) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ak2 (NM_016895) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ak2
Synonyms:	Ak-2; D4Ertd220e
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>BC008610 sequence for NM_016895
GCTGGCTGTTGGAGTGAAGCTTTGGTAGACATGGCTCCCAACGTGTTGGCTTCCGAACCGGAGATTCCGA
AGGGCATCCGGGCCGTGTTGCTGGGGCCGCCCGGGGCTGGCAAGGGGACGCAGGCACCCAAACTGGCTGA
AAACTTTTGTGTCTGTCATTTGGCCACCGGGGACATGCTGAGAGCCATGGTAGCTTCTGGCTCGGAGCTA
GGAAAAAAGCTGAAGGCGACAATGGATGCAGGGAAACTGGTGAGTGACGAAATGGTTGTGGAGCTAATTG
AGAAGAATTTGGAGACTCCTTCGTGCAAAAATGGCTTTCTTCTAGATGGCTTCCCTCGGACTGTGAGGCA
GGCTGAAATGCTTGATGACCTCATGGAGAAGAGGAAAGAGAAGCTCGATTCAGTCATTGAGTTCAGCATC
CAAGACTCGCTGCTGATCCGGAGGATCACTGGGAGGCTGATTCACCCCAAGAGTGGCCGGTCCTACCATG
AGGAATTCAACCCTCCAAAGGAGCCCATGAAAGATGATATCACTGGGGAGCCCCTGATCCGCAGGTCAGA
TGACAACGAGAAAGCCTTGAAGACCCGCCTGGAGGCCTACCACACTCAGACCACTCCGCTCGTGGAGTAC
TACAGGAAACGCGGCATTCACTGCGCCATCGATGCGTCCCAGACCCCTGACATCGTGTTTGCGAGCATCC
TGGCAGCCTTCTCCAAAGCCACATCCTAGTAACAGAAGGCCAGGCGAGACCGCACCCCTGCTCATCTCCC
CGCCGTGGGATCCCTGCTCTTAGGTGCTGGGCAGAGGGAAGAGGGTGGTCATGGGAAGGAAGGATGGATG
GATGGTGAGGGAGGTGGGGAGGGGCTCCTCGAGAGAAGATTTGGAACAGTGGCAGTGTTATAATTAGTAA
GGTTTTTTTTTTTTTTTACACATAGATGAGAATTTTTAAAGTATAAGCAAGGGAAAAGATTAATTTAAAA
AAAAAAAAAAACTGTGATTGGAGTGCATTGGTGCAGATAAGGAGACATGGTATTATTTTTAAGCAGTCAG
CCTCTGCTTTTCTCTGGACCACAAAGCTAATGCTCTCTAAGAGACCTCAGCTTCTACATAAGAACCTCAT
GGATCCCCAGGCCCAGAGCACAGCAGTCAGGCTGGGCCTGTGCATCCCGTGCAGAGGAGGGGGCTGCTGA
CTGCCGGGGGCTCCCCACTCCATAAAGCGAGAAGACTGACCTGCGCGGATGGAAGAGACGGGGTGTGAGG
TTATGGGTGCTGCTCAGCAGACCATCTCTCCTGGAATTGTGGGGAGCAAGGGGAAACAGATCCCACACTT
AAGACTTCGGAGTTGCTTGCTCTAGTGACAAAGCCTTCAGCCACTCAGCACTCCCTAGTCTTAAAACCTT
GCCTTCATTCATCCACGGGACCCTTTTAGATAACTGAACAAGGCCTAGGAGTGTAGCTCAGTGGCGTGTG
TGTGCCTGGCTCTGTAAAGCCCCGGCTTCAGTCCTCTACAGGGAAGGGTTGGGGGAAAAGCTAAAATGTC
TTAAGCTAAGTCATCCAAGGATTGTCCCCCTCACCTCCTGGGACTGGGATTGCCCGACAACACTGTGATG
TATTTCTCAATGAGGTGCCTTTCATAACTGACCAAATGCTGCCATGTTTGGCCCCTGAGTCAATAAAATA
TGTTGAAAATTTGTAAAAAAAAAAAAAAAA

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Restriction Sites:	RsrII-NotI
ACCN:	NM_016895
Insert Size:	699 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	BC008610, AAH08610
RefSeq Size:	1710 bp
RefSeq ORF:	699 bp
Locus ID:	11637
UniProt ID:	Q9WTP6
Cytogenetics:	4 62.62 cM
Gene Summary:	Catalyzes the reversible transfer of the terminal phosphate group between ATP and AMP. Plays an important role in cellular energy homeostasis and in adenine nucleotide metabolism. Adenylate kinase activity is critical for regulation of the phosphate utilization and the AMP de novo biosynthesis pathways. Plays a key role in hematopoiesis.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) contains an alternate 3' terminal exon, compared to variant 1. It encodes isoform b which has a shorter C-terminus, compared to isoform a. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.