

Product datasheet for **RN208871**

Prkaa2 (NM_023991) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prkaa2 (NM_023991) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Prkaa2
Synonyms:	Ampk; Ampka2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN208871 representing NM_023991
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGAGAAGCAGAAGCACGACGGCGTGTGAAGATCGGACACTACGTGCTGGGGACACCCTGGGCG
 TCGGCACCTTCGGCAAAGTGAAGATTGGAGAACATCAATTGACAGGCCATAAAGTGGCAGTTAAGATCTT
 AAATAGACAGAAGATTCGCAGTTTAGATGTTGTTGGAAAAATAAAACGAGAAATTCAAAACTTAAACTC
 TTTCTGTCATCCTCATATTATCAAACCTACCAAGTGATCAGCACTCCAACAGACTTTTTTATGGTAAATGG
 AATATGTGTCTGGAGGTGAATTGTTGACTACATCTGTAACACGGGAGGGTTGAAGAGGTGGAAGCTCG
 CCGGCTCTCCAGCAGATTCTGTCTGCCGTGGACTACTGTCACAGGCACATGGTTGTCCACAGGGACCTG
 AAGCCAGAGAACGTGTTGCTGGACGCCAGATGAATGCTAAGATAGCTGACTTCGGACTCTAATATGA
 TGTCAGATGGTGAATTTCTACGAACTAGCTGTGGATCGCCAAATTATGCAGCACCGGAGGTCTCAGG
 AAGGCTGTATGCCGGTCTGAGGTTGATATCTGGAGCTGTGGTGTATCCTGTATGCCCTCTCTGTGGC
 ACCCTCCCGTTCGACGATGAGCAGTGCCTACGCTCTTTAAGAAGATCCGAGGGGGTGTGTTCTACATCC
 CGGAGTATCTCAACCGTTCTATTGCCACTCTGCTGATGCACATGCTGCAGGTGGACCCCTTGAAGCGGAGC
 AACTATCAAAGACATACGAGAGCATGAATGGTTTAAACAGGATTTGCCAGTTACCTCTTCTCTGAAGAC
 CCCTCCTATGATGCTAACGTCATTGATGATGAGGCTGTGAAAGAAGTATGTGAAAAATTTGAGTGTACAG
 AATCAGAAGTGATGAACAGTTTATACAGTGGTGACCCCAAGACCAGCTCGCAGTGGCTTATCATCTCAT
 CATTGACAATCGGAGAATAATGAACCAAGCCAGTGAGTTCTACCTCGCTCCAGTCCCAACGGGTTCC
 TTCATGGACGATATGGCCATGCACATTCCTCCCGGCTGAAACCACATCCTGAAAGGATGCCACCTCTCA
 TAGCAGACAGCCCCAAAGCAGCTGTCCACTGGATGCACTCAACACAATAAGCCCAAATCTTTAGCTGT
 GAAAAAAGCCAAGTGGCACCTTGGGATCCGAAGCCAGAGCAAACCATACGACATTATGGCGGAGGTGTAC
 CGAGCTATGAAGCAGCTGGACTTTGAATGGAAGGTAGTGAATGCATACCATCTTCGAGTAAGAAGAAAA
 ACCCAGTGACTGGCAATTACGTGAAAAATGAGCTTACAGCTTTACCTGGTTGACAATCGGAGCTATCTTCT
 AGACTTTAAAAGCATCGATGATGAGGTGGTGGAGCAGAGGTCTGGTTCTTCAACACCTCAGCGCTCCTGT
 TCTGCTGCCGGCCTCCACAGACCTCGGTCAAGTGTGATTCCAGCACAGCCGAGAACCATTCACTGTCTG
 GCTCTCTACTGGTTCTTTGACTGGCAGCACTTTGTCTCCGCTTCCCCGCGCTGGGCAGTCATACCAT
 GGATTTTTTTGAAATGTGCGCCAGTCTTATCACTGCTTTAGCCCGTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2092_f02.zip

Restriction Sites: SgfI-MluI

ACCN: NM_023991

Insert Size: 1659 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_023991.1](#), [NP_076481.1](#)

RefSeq Size: 2652 bp

RefSeq ORF: 1659 bp

Locus ID: 78975

UniProt ID: [Q09137](#)

Cytogenetics: 5q34

Gene Summary: protein kinase that phosphorylates and inhibits acetyl-CoA carboxylase (ACC); rate-limiting enzyme in malonyl-CoA synthesis [RGD, Feb 2006]