

Product datasheet for **RN210018**

Prkaa1 (NM_019142) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prkaa1 (NM_019142) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Prkaa1
Synonyms:	AMPKalpha1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN210018 representing NM_019142
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGCAGACTCAGTTCCTGGAGAAAGATGGCGACGGCCGAGAAGCAGAAGCAGCAGCGGGCGGTGAAGA
 TCGGCCACTACATCCTGGGGGACACGCTGGGCGTCGGCACCTTCGGGAAAGTGAAGGTGGCAAGCACGA
 GTTGACTGGACATAAAGTTGCTGTGAAGATACTCAACCGCAGAAGATTCGAAGCCTGGACGTGGTCCGG
 AAAATCCGCAGAGAGATCCAGAACCTGAAGCTTTTCAGGCACCCTCATATAATCAAAGTGTACCAGGTCA
 TCAGTACACCGTCTGATATTTTCATGGTCATGGAATATGTCTCAGGAGGAGAGCTATTTGATTATATCTG
 TAAAAATGGAAGTTGGACGAAAAGGAGAGTCCGACGTCTGTTCCAGCAGATCCTTTCTGGTGTGGACTAT
 TGTACACAGGCATATGGTGGTCCACAGAGATTTGAAACCTGAAACGTCTGCTTGTATGCACACATGAATG
 CAAAGATAGCCGACTTCGGTCTTTCAAACATGATGTCAGATGGTGAATTTTTAAGAACGAGCTGTGGCTC
 GCCAATTATGCTGCACCAGAAGTAATTTCAAGGAAGATTGTACGCAGGCCCTGAAGTAGACATCTGGAGC
 AGCGGGGTCAATTCCTATGCTTTGCTGTGTGAACTCTCCCTTTTGATGATGACCACGTGCCAACTCTTT
 TTAAGAAGATATGTGACGGGATATTTATACCCCTCAGTATTTGAATCCCTCTGTAAAGCCTTTTGAA
 GCATATGCTGCAGGTAGATCCTATGAAGAGGGCCACAATAAAGATATCAGGGAACATGAATGGTTAAG
 CAGGACCTTCAAATAATCTCTTTCCCTGAAGACCCGCTTATAGTTCAACCATGATTGATGATGAAGCCT
 TAAAAGAAGTGTGTGAGAAGTTCGAGTGTCTCAGAGGAGGAGTCCCTCAGTGCCTGTACAACAGAAACCA
 CCAGGACCCACTGGCAGTTGCCACCCGATTTCTTCCGATGATCACCATTTAACTCGGCCCTCACCCGAGA
 GAGTACCATTCTGGTTGCCGAAACACCAAGGGCCCGACACACCCTAGATGAATTAACCCACAGAAATC
 CAAACACCAAGGCGTACGGAAGGCAAAGTGGCATTGGGGATTGGAAGTCAAAGCCGACCAATGACATC
 ATGGCAGAAGTGTGTAGAGCAATCAAGCAGTTGGACTATGAATGGAAGGTTGTAACCCCTATTATTTGC
 GTGTGCGAAGGAAGAACCCTGTGACAAGCACATTTTCAAATGAGTCTACAGCTATACCAAGTGGATAG
 TAGGACTTACTTATTGGATTTCCGAAGTATTGATGATGAGATTACAGAAGCCAAATCAGGGACTGCTACT
 CCACAGAGATCGGGATCCATCAGCAACTATCGATCTTGCCAAAGGAGCGACTCCGACGCCGAGGCTCAAG
 GAAAGCCCTCAGAAGTCTCTTACCTCATCCGTGACCTCCCTCGACTCCTCTCTGTTGACGTAGCTCC
 AAGACCAGGAAGTCACACGATAGAATTTTTTGAATGTGTGCAAACTAATTAATTAATTTCTGCACAG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_019142

Insert Size: 1680 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: [NM_019142.2](#), [NP_062015.2](#)

RefSeq Size: 4674 bp

RefSeq ORF: 1680 bp

Locus ID: 65248

UniProt ID: [P54645](#)

Cytogenetics: 2q16

Gene Summary: catalytic subunit of AMP-activated protein kinase; phosphorylates hepatic acetyl-CoA carboxylase and adipose hormone-sensitive lipase [RGD, Feb 2006]