

Product datasheet for MC207357

Prkab1 (NM_031869) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Prkab1 (NM_031869) Mouse Untagged Clone
Tag: Tag Free
Symbol: Prkab1
Synonyms: 1300015D22Rik; AU021155; E430008F22
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC207357 representing NM_031869
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGCAACACGAGCAGCGAGCGCGCCGCGCTGGAGCGGCAGGCGGGCCACAAGACGCCGCGGAGGGACA
 GCTCCGGGGCGCCAAGGATGGGGACAGGCCCAAGATCCTCATGGACAGCCCTGAAGACGCCGACATCTT
 CCACTCCGAAGAGATCAAGGCTCCAGAGAAAGAGGAATTCCTGGCCTGGCAGCAGCAGCTGGAAGCGAAT
 GATAAAGCCCCCGCCAGGCCCGGCCACCGTGTTCGATGGACAGGGGTGGAAAGGAAGTCTACTTGT
 CTGGGTCTTCAACAACCTGGAGCAAGCTTCCCCTCACGAGAAGCCAGAATAACTTTGTAGCCATCTGGA
 CCTGCCTGAAGGAGAGCATCAGTACAAGTTCTTCGTGGATGGACAGTGGACCCATGATCCTTCTGAGCCA
 ATAGTAACCAGCCAGCTTGGCACAGTTAACAACATCATTCAAGTGAAGAAAAGTACTTTGAAGTATTTG
 ATGCTTTAATGGTGGATTCCAAAAGTGCTCCGATGTGTCTGAGCTGTCCAGCTCGCCCCAGGACCCTA
 CCACCAGGAGCCTTACATGTCTAAACCAGAAGAGAGGTTCAAAGCCCCGCCATCCTCCCGCCACACCTG
 CTGCAGGTCATCTTGAACAAGGACACGGGCATCTCTTGACCCAGCACTGCTTCCGGAGCCCAACCAGC
 TCATGCTGAACCACCTCTATGCACTCTCCATCAAGGATGGAGTGTGGTCTCAGTGAACACACCCGGTA
 CAAGAAAAGTATGTACCACCCTCCTCTACAAGCCGAT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_031869
Insert Size: 813 bp



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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:	<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_031869.2 , NP_114075.1
RefSeq Size:	2051 bp
RefSeq ORF:	813 bp
Locus ID:	19079
UniProt ID:	Q9R078
Cytogenetics:	5 F
Gene Summary:	Non-catalytic subunit of AMP-activated protein kinase (AMPK), an energy sensor protein kinase that plays a key role in regulating cellular energy metabolism. In response to reduction of intracellular ATP levels, AMPK activates energy-producing pathways and inhibits energy-consuming processes: inhibits protein, carbohydrate and lipid biosynthesis, as well as cell growth and proliferation. AMPK acts via direct phosphorylation of metabolic enzymes, and by longer-term effects via phosphorylation of transcription regulators. Also acts as a regulator of cellular polarity by remodeling the actin cytoskeleton; probably by indirectly activating myosin. Beta non-catalytic subunit acts as a scaffold on which the AMPK complex assembles, via its C-terminus that bridges alpha (PRKAA1 or PRKAA2) and gamma subunits (PRKAG1, PRKAG2 or PRKAG3) (By similarity).[UniProtKB/Swiss-Prot Function]