

Product datasheet for **SC213854**

AMPK beta 1 (PRKAB1) (NM_006253) Human 3' UTR Clone

Product data:

Product Type: 3' UTR Clones
Product Name: AMPK beta 1 (PRKAB1) (NM_006253) Human 3' UTR Clone
Vector: pMirTarget (PS100062)
Symbol: PRKAB1
Synonyms: AMPK; HAMPKb
ACCN: NM_006253
Insert Size: 1324 bp
Insert Sequence: >SC213854 3'UTR clone of NM_006253
The sequence shown below is from the reference sequence of NM_006253. The complete sequence of this clone may contain minor differences, such as SNPs.
Blue=Stop Codon **Red**=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GTCACCACCTTGTATACAAGCCCATATGAGAGCTGGGGCGGATGGTGGCCAGGAGACAGCACACC
ACCAGGCTCCACACGTGCATGCTTCCCAAGAGGGAATGGACTGTACATTGCTCATTTCACTCTTC
AGAAGACATTTTCATACCTGCCCTGGTCTGCTTGAAGTTTTGTCCAGGCAGAGCAGCTCCTGCAGCGCC
TCGGTCTGTGACAGTCCCTAGCACCCCATGGCTTTGAGCCTCGGGGACTCATCAAGTCCAAGAAAA
GAGGGAGGGTGGCAGAGGATCTGCAGCCCTGGCCCCGCGGTGCATGAGGCTGGGTGCAGTTCTAAACC
TACATTCTCGATTTTTCTTAAGCAAAAATGAATGCTAACTCCTTTGCCAGTAAAATTCTGGAAACAG
GGACTGAGGCCACACATCATTTCCAGTCATCTGTGTGTTTTAAGGCCAGCCACTGTCCCTGTTGAGG
CCTGGCTATGGAATAAATACAGTGTGGTCTTGCTGCTTCAAATCAACAACAGATTGTCTCTCG
GCTCCAGGAGGTGTCATTTCTATAGAAATTAGAAGCTTCTGATTTCTAGATGAGGTTTTACAATTGT
TTCTTACAGTCATGTGACTAAGTACTCTTTTTGTAAGCAGAGGTGGCTGGCTCTGCAGCCTTAAGGCC
ATTTTTAAAGTACCACGTCTAGAAGTCACATGAACTCTGCTCAGCAATAATCTGTTCTCAGAACAGAC
TTTTCAACCTGCTGCCGATTTCTCCATTAGCTGGATGATCCTCAGGACTGACCAGTTAGCTGGCAGG
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CCTCTTCCCTATAAAAATCACACAGCGTGATTTTACAAGGTCCCCTGGCACCTTGCTCAGGACCTCTGCC
CCTAGTTAGCAAGACTGCAGCAGTTGCTGTTGCTTATTCTGAAAGGAATGTAGAAGTTGACAGCAGCCT
TCTGAGTCTGGGTGAGGAGATGTCCTTTGGACCAAAGCAGACTCTTTATACGCAGCTCAGTTTCCCG
GGAGTCGCCACAGATGTACCCACTAGCCAGGTTGCTGTGAGTCAGCGGAAGCTCCCGTTATGCCCTTT
GCTCCTGGTGGGAGAGGAGGAGTGAGTCCCTGGGTTCCAGTATTTACTTGGTATACCTGAGTTTGGG
GGTACCCTTTTTGTGACTTTTCAAACAGTGAATTACTGTACCTTGATGGACAAGTTTCAATAAAAC
TTTGTAATAAATAA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
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Restriction Sites:	Sgfl-Mlul
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	NM_006253.5
Summary:	The protein encoded by this gene is a regulatory subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. AMPK is an important energy-sensing enzyme that monitors cellular energy status. In response to cellular metabolic stresses, AMPK is activated, and thus phosphorylates and inactivates acetyl-CoA carboxylase (ACC) and beta-hydroxy beta-methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. This subunit may be a positive regulator of AMPK activity. The myristoylation and phosphorylation of this subunit have been shown to affect the enzyme activity and cellular localization of AMPK. This subunit may also serve as an adaptor molecule mediating the association of the AMPK complex. [provided by RefSeq, Jul 2008]
Locus ID:	5564
MW:	48.9