

## Product datasheet for **RR211376**

### Prkab1 (NM\_031976) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prkab1 (NM_031976) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prkab1
Synonyms:	5'-AMP-activatedproteinkinasebetasubunit; 5-AMP-activatedproteinkinasebetasubunit
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR211376 representing NM_031976 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGCAATACGAGCAGCGAGCGCGCCGCTGGAGCGGCAGGCTGGCCATAAGACGCCGCGGAGGGACA  
GCTCGGAGGGCACCAAGGATGGGGACAGGCCAAGATCCTGATGGACAGCCCCGAAGACGCCGACATCTT  
CCACACCGAGGAAATGAAGGCTCCAGAGAAGGAGGAGTTCCTGGCGTGGCAGCAGCAGCTCGAGGTGAAT  
GAGAAAGCCCCCGCCAGGCTCGGCCACCGTATTTTCGATGGACAGGGGGTGGAAAGGAGGTCTACTTGT  
CTGGATCCTTCAACAACCTGGAGCAAATTGCCCTCACTAGAAGCCAAAACAACCTCGTAGCCATCCTGGA  
CCTNCCGGAAGGAGAGCATCAGTACAAGTCTTTGTGGATGGCCAGTGGACCCACGATCCTTCCGAGCCA  
ATAGTAACCAGCCAGCTTGGCACAGTTAACAACATCATTCAAGTGAAGAAAACCTGACTTTGAAGTATTTG  
ATGCTTTAATGGTGGATCCCAAAGTGCTCCGATGTATCTGAGCTGTCCAGTTCACCCAGGACCCTA  
CCACCAGGAGCCTTACATCTCTAAACCAGAGGAGCGGTTCAAGGCCCGCCATCCTCCCGCCTCACCTG  
CTGCAGGTCATCTTGAACAAGGACACGGGCATCTCTTGTGATCCAGCGCTGCTCCGGAGCCCAACCAG  
TCATGCTGAACCACCTCTATGCACTCTCTATCAAGGATGGAGTGATGGTGCTCAGTGCAGCCATCGGTA  
CAAGAAAAGTACGTACCACCCTCCTTACAAGCCATA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR211376 representing NM\_031976  
Red=Cloning site Green=Tags(s)

MGNTSSERAALERQAGHKTPRRDSSEGTKDGRPKILMDSPEADIFHTEEMKAPEKEEFLAWQHDLEVN  
 EKAPAQARPTVFRWTGGGKEVYLSGSFNNWSKLPLTRSQNNFVAILDXPGEHQYKFFVDGQWTHDPSEP  
 IVTSQLGTVNNIIQVKKTDFEVFDALMVDSQKCSDVSELSSSPGPYHQEPYISKPEERFKAPPILPPLL  
 LQVILNKDTGISCDPALLPEPNHVMLNHLIALSIKDGVMVLSATHRYKKKYVTTLLYKPI

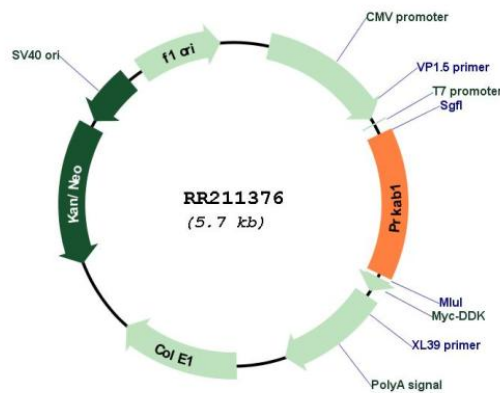
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_031976  
**ORF Size:** 810 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_031976.1</a> , <a href="#">NP_114182.1</a>
<b>RefSeq Size:</b>	1978 bp
<b>RefSeq ORF:</b>	813 bp
<b>Locus ID:</b>	83803
<b>UniProt ID:</b>	<a href="#">P80386</a>
<b>Cytogenetics:</b>	12q16
<b>MW:</b>	30.5 kDa
<b>Gene Summary:</b>	may facilitate the association of the heterotrimeric AMP-activated protein kinase; may phosphorylate and inactivate enzymes involved in lipid metabolism; may play a role in response to metabolic stress [RGD, Feb 2006]