

## Product datasheet for **RR201785**

### Prkag1 (NM\_013010) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prkag1 (NM_013010) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prkag1
Synonyms:	Prkaac; Prkga1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR201785 representing NM_013010 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGAGTCGGTTGCTGCAGAGAGCGCTCCAGCTCCGGAGAATGAACACTCTCAAGAGACCCCGAATCGA  
ACAGTAGTGTACACCACCTTCATGAAGTCTCATCGCTGCTATGACCTGATCCCCACAAGCTCCAAGCT  
GGTGGTATTTGACTTTCGCTGCAGGTAAGAAAGCCCTTTTGGCCCTGGTGACTAACGGTGTTCGTGCT  
GCCCTTTGTGGGATAGTAAGAAGCAGAGCTTTGTGGCATGCTGACCATCACTGACTTCATCAATATTC  
TGCACCGATACTACAAGTCAGCCCTGGTGCAGATCTATGAACTGGAGGAGCACAAGATAGAGACTTGGAG  
AGAGGTCTACCTGCAAGACTCCTTAAGCCACTTGTCTGCATTTCTCAAATGCCAGCTTGTTCGATGCT  
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CATGTCTAAGTCTCTGGAAGAGCTACAGATTGGCACCTACGCCAATATTGCCATGGTCCGTACCCTACA  
CCTGTCTATGTGGCTCTGGGCATCTTTGTACAGCACCGAGTCTCCGCCTTGCTGTGGTGGATGAGAAAG  
GGCGTGTGGTGGACATCTACTCAAGTTTGTATGTGATTAATTTGGCAGCAGAAAAGACATACAACAACCT  
AGATGTGTCTGTGACAAAAGCCCTACAGCACCGGTCACACTACTTCGAGGGTGTTCCTCAAGTGTACCTA  
CATGAGACTCTAGAAGCAATCATCAATAGACTGGTGAAGCAGAGGTTCCCGTCTGGTGGTGGTGGATG  
AACATGACGTGGTCAAGGGCATTGTATCGCTGTCTGACATCTTACAGGCTCTGGTCTCACAGGTGGAGA  
GAAGAAGCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR201785 representing NM\_013010  
 Red=Cloning site Green=Tags(s)

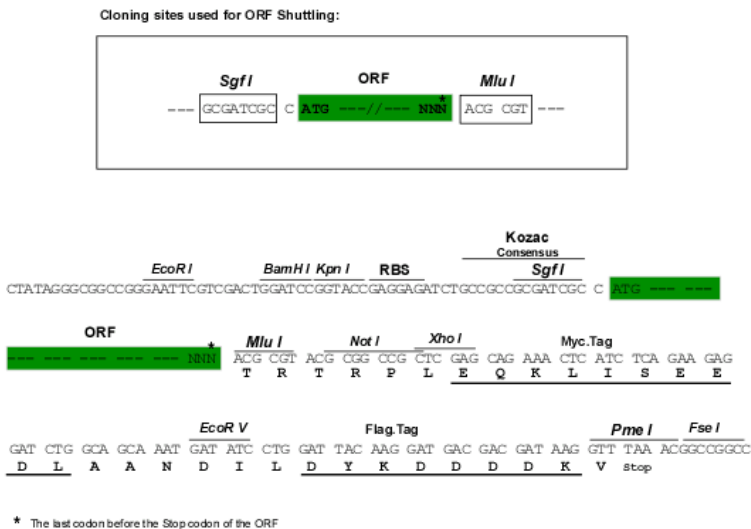
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 VSSLIRNKIHR L PVIDPESGNTLYILTHKRILKFLKLFITEFPKPEFM SKSLEELQIGTYANIAMVVRTTT  
 PVYVALGIFVQHRVSALPVVDEKGRVVDIYSKFDVINLAAEKTYNNLDVSVTKALQHRSHYFEGVLKCYL  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

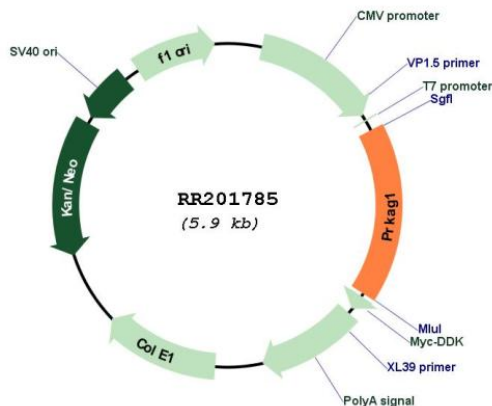
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_013010

**ORF Size:** 990 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_013010.2</a> , <a href="#">NP_037142.1</a>
<b>RefSeq Size:</b>	1611 bp
<b>RefSeq ORF:</b>	993 bp
<b>Locus ID:</b>	25520
<b>UniProt ID:</b>	<a href="#">P80385</a>
<b>Cytogenetics:</b>	7q36
<b>MW:</b>	37.4 kDa
<b>Gene Summary:</b>	non-catalytic component 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]