

Product datasheet for **RR205548**

Prkar2b (NM_001030020) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prkar2b (NM_001030020) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prkar2b
Synonyms:	RATDNA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR205548 representing NM_001030020 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCATCGAGATCCCCGCGGGCTCACGGAGCTGCTGCAGGGCTTCACGGTGGAGGTGCTGAGGCACC
AGCCCCCGACCTGCTGGAGTTCGCGCTGCAGCACTTCACGCGGCTGCAGCAGGAGAACGAGCGCAAGGG
CGCCGCGCGTTCGGCCATGAGGGCAGGACCTGGGGGACGCGGGCGCAGCCGCCGGGGCGGAACCCCC
AGTAAGGGTGTCAACTTCGCGGAGGAGCCATGCGCTCCGATCCGAGAACGCGCAAGAGGAGGAGGCCG
CGGAAGCAGGGGGCTTCAACGCTCCAGTTATAAACCGGTTACAAGGCGTGCCTCGGTATGTGCAGAAGC
TTATAATCCTGATGAAGAAGAAGATGATGCAGAGTCCAGGATAATACATCCAAAACGACGATCAAAGA
AACAGATTGCAAGAAGCCTGCAAAGACATCCTGCTGTTAAGAACCTGGATCCAGAACAGATGTCTCAAG
TATTAGATGCCATGTTTAAAAATTGGTCAAAGAAGGGGAACACGTAATCGATCAAGGTGATGATGGTGA
CAACTTTTACGTCATCGACAGAGGAACATTTGATATTTATGTAATAATGTGATGGCGTTGGAAGATGCGTT
GGTAACTATGACAATCGTGGGAGTTTGGAGAAGTGGCCTTAATGTACAATACCCAGAGCAGCTACAA
TCACTGCTACCTCCTGGTGTCTGTGGGTTTGGACAGGGTACCTTCAGGAGAATAATAGTAAAAAA
CAATGCCAAAAAGAGGAAGATGTACGAGAGCTTTATTGAGTCACTGCCATTCTCAAGTCTCTGGAGGTT
TCTGAACGCTGAAGGTGATGATGATTGGCACCAAAGTTACAACGATGGAGAACAGATCATTGCTC
AGGGAGACTCGGCGGATTCGTTCTTCATTGTAGAATCTGGAGAAGTGAAGATTACTATGAAGAGAAGGG
TAAATCAGACATCGAAGAGAACGGTGTGTGAAATCGCTCGGTGTCTCCGGGACAGTATTTGGAGAG
CTTGCCCTGGTACTAACAAGCCAAGAGCAGCATCTGCACAGCCATTGGGACTGTCAAATGCTTAGCCA
TGGATGTGCAAGCATTGAGAGGCTTCTGGACCTTGCATGGAATATGAAGAGGAATATCGCCACCTA
TGAGGAGCAATTAGTTGCACTGTTGGGACAAACATGGATATTGTTGAGCCCACTGCA

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR205548 representing NM_001030020
Red=Cloning site Green=Tags(s)

MSIEIPAGL TELLQGFTVEVLRHQPADLLEFALQHFTRLQQENERKGAARFGHEGRTWGDAGAAAGGTP
 SKGVNFAEPMRSDSENGEEEEAAEAGAFNAPVINRFTRRASVCAEAYNPDEEEDDAESRIIHPKTDQQR
 NRLQEACKDILLFKNLDPEQMSQVLDAMFEKLVKEGEHVIDQGGDGNFYVIDRGTFDIYVKCDGVGRVCV
 GNYDNRGSFGELALMYNTPRAATITATSPGALWGLDRVTFRRIIVKNNAKRKMYSFIESLPFLKSLEV
 SERLKVVDVIGTKVYNDGEQIIAQGDSADSFIVESGEVRITMKRKGKSDIEENGAVEIARCLRGQYFGE
 LALVTNKPRAASAHAIQTVKCLAMDVQAFERLLGPCMEIMKRNIATYEEQLVALFGTNMDIVEPTA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001030020

ORF Size: 1248 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001030020.1](#), [NP_001025191.1](#)

RefSeq Size: 3182 bp

RefSeq ORF: 1251 bp

Locus ID: 24679

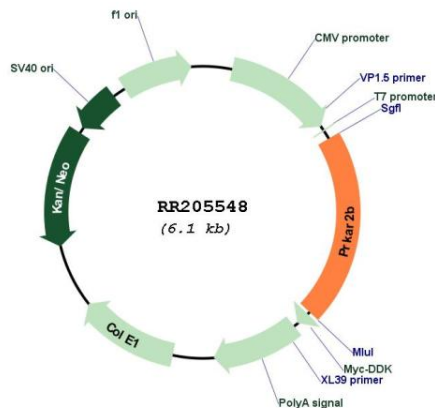
UniProt ID: [P12369](#)

Cytogenetics: 6q16

MW: 46.1 kDa

Gene Summary: acts as a regulatory subunit of type II cAMP-dependent protein kinase [RGD, Feb 2006]

Product images:



Circular map for RR205548