

Product datasheet for **RR209845**

Prkar1a (NM_013181) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Prkar1a (NM_013181) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Prkar1a
Synonyms: RIIA
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR209845 representing NM_013181
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**C

ATGGCGTCTGGCAGTATGGCAGCCAGTGAGGAAGAGCGGAGTCTCCGGGAATGCGAGCTCTATGTGCAGAGCACAACATCCAGGCCCTGCTGAAGGACTCCATCGTGCAGCTGTGCACTGCTCGGCCCGAGAGGCCCATGGCATTCTTCGGGAATACTTTGAGAGGCTGGAGAAGGAGGAGCAAGACAGATTCAGAGCCTACAGAAATCCGGCATTTCGTACAGACTCGAGGGAGGATGAGATCTCTCCACCCCAAATCCGGTGGTGAAGGGCCGTCGGCGCCGGTGCTATCAGCGCTGAGGTTTACACTGAGGAAGATGCTGCGTCTACGTTAGAAAAGTTATACCAAAAAGATTATAAGACAATGGCTGCTTTAGCCAAGGCCATCGAAAAGAACGTGTTATTTTCACACCTTGATGACAATGAGAGAAGTGACATTTTTGATGCAATGTTTCCAGTCTCCTTTATTGCTGGAGAGACAGTTATTCAGCAAGGGGATGAAGGGGATAACTTCTATGTGATTGATCAAGGAGAAATGGATGTGTATGTCAATAATGAATGGGCAACCAAGTGTGGGGAAGGAGGAGCTTTGGAGAGCTGGCTTTGATTTACGGAAACCCAGAGCAGCCACTGTCAAAGCAAAGACAAACGTGAAACTGTGGGCATTGACCGAGACAGTACCGGAGAAATCCCTCATGGGAAGCACTCTGCGAAAGAGGAAGATGTATGAAGAATTTCTTAGTAAAGTCTATTTTAGAGTCTCTGACAAAGTGGGAGCGTCTCACAGTAGCTGATGCACTGGAGCCTGTCCAGTTTGAAGATGGACAGAAAGATTGTGGTGAAGGAGAACCAGGGGATGAGTTCTTATTATTTAGAGGGCACGGCCGCTGTGCTGACGCTCGGTGAGAAAACGAAGAGTTTGTGAAGTGGGACGCTGGGCCCTTCTGACTATTTTGGTGAATTTGCCCTGCTGATGAATCGTCTCGGGCTGCCACTGTGTTGCGCGTGGCCCTTTGAAGTGCCTAAGTTGACCGACCTCGGTTTGAACGCGTCTTGGCCCATGCTCAGATATCCTCAAGCGAAACATCCAGCAGTACAACAGCTTTGTGCTACTGTCCGTC

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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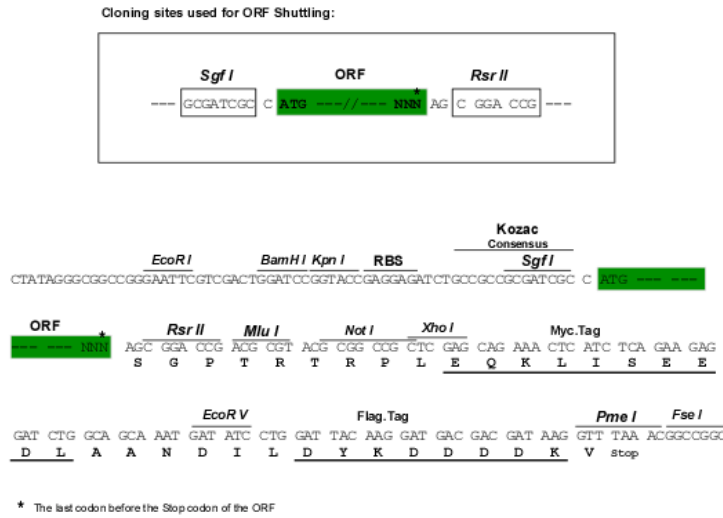
Protein Sequence: >RR209845 representing NM_013181
Red=Cloning site Green=Tags(s)

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 SGIRTSREDEISPPPPNPVVKGRRRRGAISAEVYTEEDAASYVRKVIPKDYKTMALAKAIEKNVLF
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 GELAL IYGT
 RAATVKAKTNVKLWIDRDSYRRILMGSTLRKRKMYEEFLSKVSI
 LESLDKWERLTVADALEPVQFEDGQ
 KIVVQGE
 PGDEFFIILEGTA
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 PSDYFGEIALLMNR
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 DRPRFERVLGPCSDILKRNIQQYNSFVLSLV

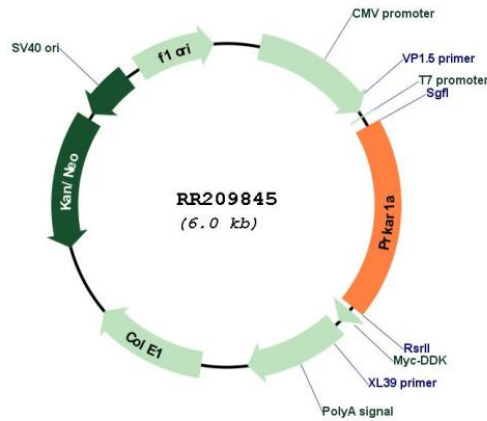
SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_013181

ORF Size:	1143 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:	<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_013181.1 , NP_037313.1
RefSeq Size:	1433 bp
RefSeq ORF:	1146 bp
Locus ID:	25725
UniProt ID:	P09456
Cytogenetics:	10q32.1
MW:	43.1 kDa
Gene Summary:	regulatory subunit of cAMP-dependent protein kinase (PKA); negatively regulates meiosis [RGD, Feb 2006]