

Product datasheet for **RR214021**

Prkag3 (NM_001106921) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prkag3 (NM_001106921) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prkag3
Synonyms:	Ampkg3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR214021 representing NM_001106921
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCCCGAGCTGGAGCACACACTGCCTGGGACCTGACCTGGAGCCACAGTGGGGTCCAGAGAGCC
 AAGAGATGGACTTCTTAGAACCAAGAAAACCTCATGGCCATCGCCAACCTGTGGCCACCAGCTCAGAGAG
 AACCTGTGCTATACGGGAGTCAAAGCTTCCAGATGGACGAGACAGGAGGCCGTAGAGGAAGCAGAGCCA
 CCAGGTTTGGGAGAAGGTGCCAGTCTGGACCAGCTGCTGAGTCCACCAGGCAGAAGGCCACATCCCAA
 AGGCCACACCCTTGGCTCAAGCTGTTCCCTTGGCTGACGCGGAGACCTCCACCACAGGTGGGACCTGTT
 CTTGCCGACTGTGCAGCCTCAGCAGTGGGCTCCAGCACAGGTGACCTGGAGCTGACCATAGAGTCCCA
 GGCCAGAGGTCTGGGACTGTGAGCTCAAAGCCTGGAGCAGGACAGGCCCTGGCCTTGGCCCTCCCGC
 AGGCTCCACTTCTCAGCCTGAGTTGGGACGATGAGCTTCAAACTGGAGCCAGATCTATATGCACTT
 CATGCAAGAGCACACCTGTTATGATGCCATGGCCACCAGCTCTAACTGGTCATCTTTGACACCACACTG
 GAGATAAAGAAAGCTTTCTTTGCCATGGTGGCCAACGGTGTGAGGGCAGCCCTCTGTGGGACAGCAAGA
 AGCAGAGCTTTGTGGCATGCTCACCATCACGGACTTCATCCTGGTGTGCACCGTTACTACAGATCTCC
 CCTGGTCCAGATCTATGAGATTGAAGAACAAGATTGAGACCTGGAGGGGTTTTTCTGCAGAGATCTAC
 CTAACAAGTTGCTTCAAGCCTCTGGTCTCCATCTCTCAAATGACAGTCTATTTGAAGCTGTCTATGCC
 TCATCAAGAACCAGTCCACCGCTGCCGGTCTGGACCTGTCTCTGGCACTGTGCTCTACATACTCAC
 ACACAAGAGGCTACTCAAGTTCCTGCATATATTTGGTGCCTGTTGCCCGGCCCTCTCTCTGCCG
 ACTATCCAAGACTTGGGCATCGGCACATCCGAGATTTAGCTGTAGTTCTGAAAACAGCTCCTATCCTGA
 CTGGCCTGACATCTTTGTGGACCGACGAGTGTCTGCACTGCTGTGGTCAATGAATGGTCAAGTCCG
 GGCCTCTACTCCGCTTTGATGTCATTCACTTGGCTGCACAACAACTTACAACCACCTAGACATGAGT
 GTGGGAGAAGCTCTGAGGCAGAGACACTGTGTCTGGAGGGCTTCTCTCTGCCAGCCTCACGAGAGCC
 TAGGTGAAGTCAATGACAGGATTGCACGGGAACAGGTGCATAGGCTGGTGTGGTGGATGAGACCCAGCA
 TCTTCTGGGTGTGGTCTCCCTCTCTGACATACTCAAGCGCTGGTACTCAGCCCTGCTGGCATCGATGCC
 CTCAGTGCC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR214021 representing NM_001106921
 Red=Cloning site Green=Tags(s)

MEPELEHTLPGTLTWSHSGGPESQEMDFLEPEENSWPSPVATSSERTCAIRGVKASRWTRQEAVEEAEPE
 PGLGEGAQSGPAAESTRQKATFPKATPLAQAVPLADAETSTTGWDLFLPDCAASAVGSSTGDLELTIEFP
 GPEVWDCELKGLEQDRPRPCSPQAPLLSLSWDDELQKPGAQIYMHFMQEHTCYDAMATSSKLVIFDTTL
 EIKKAFFAMVANGVRAAPLWDSKKQSFVGM LITDFILVLHRYRSPLVQIYEIEEHKIEIWRGFSAEIY
 LQGCFFKPLVSI SPNDSLFEAVYALIKNRIHRLPVLDPVSGTVLYILTHKRLLKFLHIFGALLPRPSFLCR
 TIQDLGIGTFRDLAVVLETAPILTALDIFVDRRSALPVVNESGQVVGLYSRFDVILHAAQQTYNHLDMS
 VGEALRQRTLCLGVLSQPHESLGEVIDRIAREQVHRLVLVDETHLLGVVSLSDILQALVLS PAGIDA
 LSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

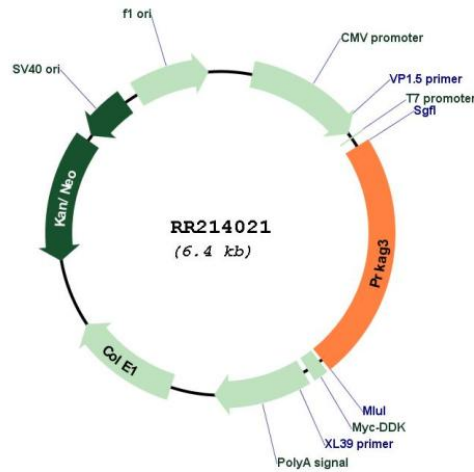
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001106921

ORF Size: 1479 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_001106921.1](#), [NP_001100391.1](#)

RefSeq Size: 2742 bp

RefSeq ORF: 1482 bp

Locus ID: 301518

Cytogenetics: 9q33

MW: 54.4 kDa