

Product datasheet for **RR217128**

Prkcq (NM_001276721) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prkcq (NM_001276721) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prkcq
Synonyms:	Pkcq
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR217128 representing NM_001276721
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCACCGTTTCTTGAATTGGTTTATCCAACCTTGACTGTGGGACCTGTCAAGCTTGTACGGGAGAGG
 CGGTGAACCCCTACTGTGCCGTGCTTGTCAAAGAGTATGTGGAATCAGAAAACGGGCAGATGTACATCCA
 GAAAAAGCCGACCATGTACCCGCTTGGGACAGCACCTTTGATGCCACATTAACAAGGGAAGGGTGATG
 CAGATCATCGTGAAGGCAAAAATGTAGACCTCATATCAGAAACCACCGTGGAGCTCTACTCCCTGGCAG
 AGAGATGCCGCAAGAACAATGGGCGGACAGAAATATGGTTAGAGCTGAAACCTCAAGGCCGAATGCTAAT
 GAATGCAAGATACTTTCTGAAAATGAGTGACACAAAGGACATGAGTGAATTTGAGAACGAAGGATCTTT
 GCACTGCATCACCGCGAGGCGCCATCAAACAAGCCAAAGTCCACCACGTCAAGTGTACGAGTTACAG
 CCACCTTTTTCCCTCAACCCACGTTCTGCTCTGTCTGCCATGAATTTGTCTGGGGCTGAACAAGCAGGG
 CTACCAGTGCCGACAATGTAATGCAGCGATTACAAGAAGTGCATCGATAAAGTGATAGCCAAGTGACA
 GGATCGGCGATCAATAGTCGAGAGACCATGTTCCACAAGGAGAGATTCAAGATCGACATGCCACACAGAT
 TCAAAGTCTACAACATAAGAGTCCAACCTTCTGTGAGCACTGTGGTACCCTGCTATGGGGCTGGCGAG
 GCAAGGTCTCAAGTGTGATGCATGTGGCATGAACGTCCACCACCGATGCCAGACAAGGTTGCCAACCTC
 TGTGGTATAAACCAGAAGCTAATGGCTGAAGCGCTAGCAATGATTGAAAGCACTCAACAGGCTCGCACCT
 TAAGAGATTCAGAACACATCTTCCGAGAAGGACCAATTGAAATCAGTTTCCCAGCTCCATCAAAAGTGA
 AACCAGGCCACCATGCGTACCAACACCTGGGAAAAAAGAACCCAGGGAATTTGCTGGGAGTCCCCTTTG
 GATGGGGCAGATAAAACGGCCAGCCTCCTGAACCTGAAGTGAAGTTGCAAAGGGCTTCTCTGCAACTGA
 AAGTTCAAGAGAACCAACAGTTTTTTCGCAATAAAAGCCTTAAAGAAAGATGTGGTGTGATGGACGAT
 GACGTCGAGTGCACGATGGTGGAGAAGAGATTCTGCTTGGCCTGGGAGCATCCGTTTCTTACACACA
 GTTCTGCACATTCCAGACCAAGGAAAATCTCTTTTTCTGATGGAGTATCTCAATGGAGGAGACTTAAT
 GTACCACATCAAAGTTGCCACAAATTTGATCTTCCAGAGCCACGTTTTATGCTGCTGAGATCATCCTT
 GGTCTACAGTTCCTTCAATCAAAGGAATTGTCTACAGGGACCTGAAGCTAGATAATATCCTGTTAGACA
 GAGATGGCCATATCAAAATAGCAGACTTTGGGATGTGCAAAGAGAATATGCTGGGAGATGCGAAGACAAA
 TACTTTCTGTGGGACGCCTGACTACATCGCTCCGGAGATCTTGTGGTCAAGAAACAACCATTCCGTT
 GACTGGTGGTCCCTTTGGGTTCTTCTTTACGAGATGCTGATTGGCCAGTCGCCTTCCACGGGCAGGACG
 AAGAGGAGCTTTTCCACTCCATCCGCATGGACAATCCCTTTTACCAAGGTGGCTAGAAAAGGAGGCCAA
 GGATCTTCTAGTGAAGCTTTTTGTGAGAGAGCCTGAAAAGAGGCTGGGAGTGAGAGGAGACATCCGCCAG
 CATCCTTTGTTTCGAGAGATCAACTGGGAAGAGCTTGAGAGAAAAGAGATTGACCCACCTTCAGACCAA
 AAGTGAATCACCATATGACTGTAGCAATTTGACAAGGAATTCCTAAGTGAGAAACCCCGGCTATCGTT
 CGCTGACAGAGCACTCATCAACAGCATGGACCAGAACATGTTTCAGCAACTTCTCCTTCAATAACCCGGG
 ATGGAGACTCTCATTTGCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217128 representing NM_001276721
 Red=Cloning site Green=Tags(s)

MSPFLRIGLSNFDGTCQACQGEAVNPYCAVLVKEYVESENGQMYIQKKPTMYPPWDSTFDAHINKGRVM
 QIIVKGNVDL ISETTVELYS LAERC RKNNGRTEIWL ELKPQGRMLMNARYFLEMSDTKDMSEFENEGFF
 ALHHRRGAIKQAKVHVHKCHEFTATFFPQPTFCSVCHEFVWGLNKQGYQCRQCNAAIHKKIDKVI AKCT
 GSAINSRETMFHKERFKIDMPHRFKVYNYKSPTFCEHCGTLLWGLARQGLKCDACGMNVVHRCQTKVANL
 CGINQKLM AEALAM IESTQQARTLRDSEHIFREGPIEISFPRSIKSETRPPCVPTPGKKEPQGICWESPL
 DGADKTAQPPEPEVNLQRASLQLKLIKIDDFILHKMLGKGSFGKVF LAEFKRTKQFFAIKALKKDVLMD
 DVECTMVEKRVLSLAW EHPFLTHMFC TQTKENLFFVMEYLN GGDLMYHIQSCHKFDLSRATFYAAE IIL
 GLQFLHSKGIVYRDLKLDNILLDRDGHIKIADFGMCKENMLGDAKTNTFCGTPDYIAPEILLGQKYNH SV
 DWWSFGVLLYEMLIGQSPFHGQDEEELFHSIRMDNPFYPRWLERAKDLLVKLFVREPEKRLGVRGDIRQ
 HPLFREINWEELERKEIDPPFRPKVKSPYDCSNFDKEFLSEKPRLSFADRALINSMDQNMFSNFSFINPG
 METLICS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001276721

ORF Size: 2121 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_001276721.1](#), [NP_001263650.1](#)

RefSeq Size: 3370 bp

RefSeq ORF: 2124 bp

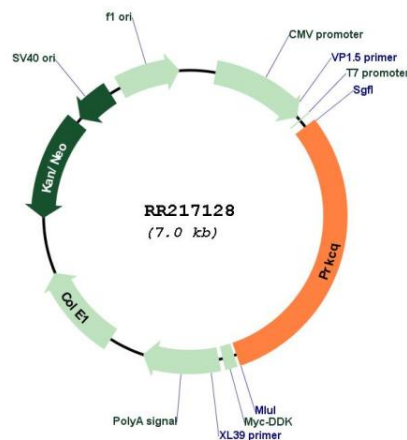
Locus ID: 85420

Cytogenetics: 17q12.3

MW: 81.8 kDa

Gene Summary: mediates the integration of TCR- and CD28-derived signals leading to NFk-B transcription factor activation necessary for efficient IL-2 production and T cell proliferation [RGD, Feb 2006]

Product images:



Circular map for RR217128