

Product datasheet for **RR212628**

Prkca (NM_001105713) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prkca (NM_001105713) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prkca
Synonyms:	Pkca
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RR212628 representing NM_001105713
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTGACGTTTACCCGGCCAACGACTCCACGGCGTCTCAGGACGTGGCCAACCGTTTCGCCCGCAAAG
GGGCGCTGAGGCAGAAGAACGTGCATGAGGTGAAAGACCACAAATTCATCGCCCGCTTCTCAAGCAACC
CACCTTCTGCAGCCACTGCACCGACTTCATCTGGGGTTTGAAAAACAAGGCTTCCAGTGCCAAGTTTGC
TGTTTTGTGGTTCACAAGAGGTGCCATGAGTTTGTACTTTCTCTTGCCGGGTGCGGATAAGGGACCTG
ACACTGATGACCCAGAAGCAAGCACAAGTTCAAATCCACACCTATGGAAGCCCTACCTTCTGTGATCA
CTGTGGGTCCCTGCTCTACGGACTTATCCACCAAGGGATGAAATGCGACACCTGCGACATGAATGTTTAC
AAGCAGTGCATCAATGTCCCAGCCTCTGCGGAATGGATCACACAGAGAAGAGGGGGCGGATTTACC
TGAAGGCAGAGGTCACAGATGAAAAGCTGCACGTACCGTACGAGATGCAAAAAATCTAATCCCTATGGA
TCCAAATGGGCTTTCGGATCCTTACGTGAAGCTGAACTTATTCTGACCCCAAGATGAGAGCAAACAG
AAAACCAAAACCTCCGATCCACTGAACCTCAGTGAATGAGTCCTTACGTTCAAATTAACCTT
CAGACAAAGACCGGCGACTGTCCGTAGAAATCTGGGACTGGGATCGGACGACACGGAATGACTTCATGGG
CTCCCTTCTCCTCGCGTCTCAGAGCTGATGAAGATGCCAGCCAGTGGATGGTACAAGTTGCTCAACCA
GAGGAGGGTGAATACTACAATGTGCCATTCCAGAAGGAGATGAAGAAGGCAACGTGGAACCTCAGGCAGA
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TGGTATCCAGGATGACGACGTGGAGTGCACCATGGTGGAGAAGCGGGTCTGGCCCTGCTCGACAAGCC
CCGTTTCTGACACAGCTGCACTCCTGCTTCCAGACAGTGGACCGGCTGTACTTCGTATGGAATACGTC
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TTTAGGAGGATCGACTGGGAGAAGTTGGAGAACAGGGAGATCCAACCGCCATTCAAGCCAAAGTGTGCG
GCAAAGGAGCAGAAAACCTTTCACAAGTTCTTACACGAGGGCAGCCTGTCTTAACACCACAGATCAGCT
GGTCATCGCTAACATAGACCAGTCTGATTTGAAGGGTCTCGTATGTCAACCCCGATTTGTGCACCCA
ATCTTGCAAAGTGCAGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR212628 representing NM_001105713
 Red=Cloning site Green=Tags(s)

MADVYPANDSTASQDVANRFARKGALRQKNVHEVKDHKFIARFFKQPTFCSHCTDFIWGFQKQGFQCQVC
 CFVVKRCHEFVTFSCPGADKGPDTDDPRSKHKFKIHTYGSPTFCDHCGSLLYGLIHQGMKCDTCDMNVH
 KQCVINVPSLTCMDHTEKRGRIYLKAEVTDEKLHVTVRDAKNLIPMDPNGLSDPYVKLKLIPDPKNEKQ
 KTKTIRSTLNPQWNESTFKLKPSPDKDRRLSVEIWDWDRTRNDFMGSLSFGVSELMKMPASGWYKLLNQ
 EGEYYNVPIPEGDEEGNVELRQKFEKAKLGPAGNKVISPSSEDRKQPSNNLDRVKLTDFNFMVLGKGSF
 GKVMLADRKGTEELYAIKILKKDVVIQDDVECTMVEKRVLALLDKPPFLTQLHSCFQTVDRLYFVMEYV
 NGGDLMYHIQQVQKFKEPQAVFYAAEISIGLFFLHKRGIYRDLKLDNVMLDSEGHKIIDFGMCKEHMM
 DGVVTRTFCTGPDYIAPEIIAYQPYGKSVDDWYAGVLLYEMLAGQLMTKHPAKRLGCGPEGERDVREHAF
 FRRIDWEKLENREIQPPFKPKVCGKGAENFDKFFTRGQPVLTPPDQLVIANIDQSDFEFESYVNPQFVHP
 ILQSAV

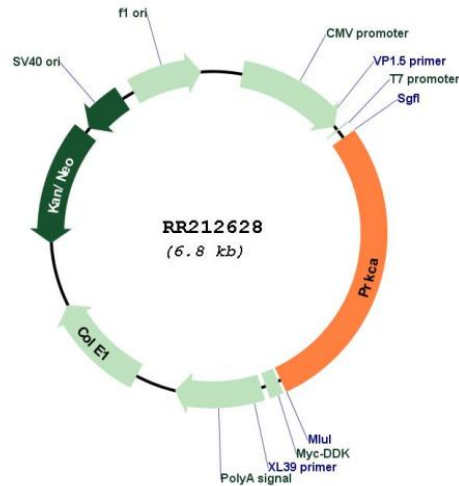
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001105713

ORF Size: 1908 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_001105713.1](#), [NP_001099183.1](#)

RefSeq Size: 3702 bp
RefSeq ORF: 1911 bp
Locus ID: 24680
Cytogenetics: 10q32.1
MW: 72.8 kDa
Gene Summary: displays Ca²⁺ dependent protein kinase activity [RGD, Feb 2006]