OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RR204102

Prkcb (NM_012713) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prkcb (NM_012713) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prkcb
Synonyms:	Pkcb; Prkcb1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RR204102 representing NM_012713
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGACCCGGCTGCGGGGCCGCCGCCGAGCGAGGGCGAGGAGAGCACGGTGCGCTTCGCCCGCAAAG
GCGCCCTCCGGCAGAAGAACGTGCACGAGGTGAAGAACCACAAATTCACCGCCCGCTTCTTCAAGCAGCC
CACCTTCTGCAGCCACTGCACCGACTTCATTTGGGGCTTAGGTTTGCAGGGATTCCAGAGTCAGGTCTGC
TGCTTTGTTGTACACAAGCGCTGCCATGAATTCGTCACGTTCTCCTGCCCTGGTGCAGACAAGGGCCCGG
CCTCTGATGACCCACGGAGCAAACACAAGTTTAAGATCCACACCTACTCCAGCCCTACCTTCTGTGACCA
CTGTGGATCACTGCTGTATGGGCTCATCCACCAGGGGATGAAATGCGACACCTGTATGATGAATGTCCAC
AAGCGCTGCGTGATGAACGTCCCCAGCCTCTGTGGCACCGACCACACAGAACGCCGTGGCCGCATCTACA
TCCAGGCCCACATCGACAGGGAGGTCCTCATCGTTGTTGTAAGAGATGCTAAAAATCTGGTACCTATGGA
CCCCAACGGCTTGTCAGATCCCTACGTAAAACTGAAACTGATCCCTGATCCCAAAAGTGAGAGCAAGCAG
AAGACCAAGACTATCAAATGCTCCCTCAACCCGGAGTGGAACGAAACCTTCAGATTTCAGCTGAAGGAAT
CAGACAAAGACAGAAGACTGTCCGTAGAGATCTGGGATTGGGACCTGACCAGCAGGAATGACTTCATGGG
ATCTCTGTCGTTTGGGATTTCAGAACTACAGAAAGCCGGAGTGGATGGCTGGTTCAAGTTACTAAGCCAG
GAAGAAGGCGAGTACTTTAATGTGCCGGTGCCGCCGGAAGGAAGCGAGGGCAATGAAGAGCTGCGGCAGA
AGTTTGAGAGAGCCAAGATTGGCCAAGGTACCAAGGCTCCAGAAGAAAAGACAGCGAACACTATATCCAA
ATTTGACAACAATGGCAACAGGGACCGGATGAAACTGACCGATTTTAACTTCCTGATGGTGCTGGGGAAA
GGCAGCTTTGGCAAGGTCATGCTCTCAGAGCGGAAGGGTACAGATGAACTCTATGCCGTGAAGATCCTGA
AGAAAGATGTGGTGATCCAAGATGACGATGTGGAGTGCACAATGGTGGAGAAGAGGGTGCTGGCCCTGCC
TGGGAAGCCCCCATTCCTGACTCAGCTCCATTCCTGCTTCCAGACCATGGACCGCCTCTACTTTGTGATG
GAGTATGTGAACGGGGGCGACCTCATGTACCACATCCAACAAGTTGGCCGTTTCAAGGAGCCCCATGCTG
TATTTTACGCTGCAGAGATTGCCATCGGTCTTTTCTTCTTGCAGAGCAAGGGCATCATTTACCGTGACCT
GAAACTTGACAACGTGATGCTGGATTCCGAGGGGCACATCAAAATCGCTGACTTTGGCATGTGTAAAGAG
AATATCTGGGATGGGGTGACAACCAAGACATTCTGTGGCACTCCAGACTACATTGCCCCAGAGATCATTG
CTTATCAGCCCTACGGGAAGTCTGTGGACTGGTGGGCGTTTGGAGTCCTGCTGTATGAAATGTTGGCTGG
CCAGGCACCTTTTGAAGGGGAGGATGAGGATGAACTCTTCCAGTCAATCATGGAGCACAACGTGGCGTAT
CCCAAGTCCATGTCTAAGGAAGCTGTGGCAATCTGCAAAGGGCTAATGACCAAACACCCAGGCAAGCGCC
TGGGTTGTGGGCCTGAAGGGGAACGAGACATTAAGGAGCATGCATTTTTCCGGTATATCGACTGGGAGAA
ACTCGAACGCAAGGAGATTCAGCCACCTTATAAACCAAAAGCTTGTGGGCGAAACGCTGAAAACTTCGAC
CGGTTTTTCACCCGCCATCCACCAGTCCTAACACCTCCTGACCAGGAAGTCATCAGGAATATTGACCAAT
CAGAATTCGAAGGATTTTCCTTTGTTAACTCTGAATTTTTAAAACCCGAAGTCAAGAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

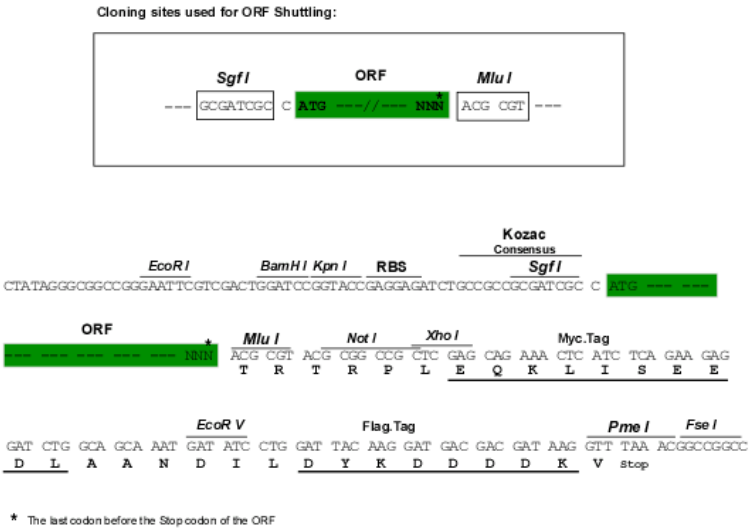
>RR204102 representing NM_012713
Red=Cloning site Green=Tags(s)

MADPAAGPPPSEGEESTVRFARKGALRQKNVHEVKNHKFTARFFKQPTFCSHCTDFIWGLGLQGFQSQVC
CFVVHKRCHEFVTFSCPGADKGPASDDPRSKHKFKIHTYSSPTFCDHCGSLLYGLIHQGMKCDTCMMNVH
KRCVMNVPSLCGTDHTERRGRIYIQAHIDREVLIVVVRDAKNLVPMDPNGLSDPYVKLKLIPDPKSESKQ
KTKTIKCSLNPEWNETFRFQLKESDKDRRLSVEIWDWDLTSRNDFMGSLSFGISELQKAGVDGWFKLLSQ
EEGEYFNVPVPPEGSEGNEELRQKFERAKIGQGTKAPEEKTANTISKFDNNGNRDRMKLTDFNFLMVLGK
GSFGKVMLSERKGTDELYAVKILKKDVVIQDDDVECTMVEKRVLALPGKPPFLTQLHSCFQTMDRLYFVM
EYVNGGDLMYHIQQVGRFKEPHAVFYAAEIAIGLFFLQSKGIIYRDLKLDNVMLDSEGHIKIADFGMCKE
NIWDGVTTKTFCGTPDYIAPEIIAYQPYGKSVDWWAFGVLLYEMLAGQAPFEGEDEDELFQSIMEHNVAY
PKSMSKEAVAICKGLMTKHPGKRLGCGPEGERDIKEHAFFRYIDWEKLERKEIQPPYKPKACGRNAENFD
RFFTRHPPVLTPPDQEVIRNIDQSEFEGFSFVNSEFLKPEVKS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012713

ORF Size: 2019 bp

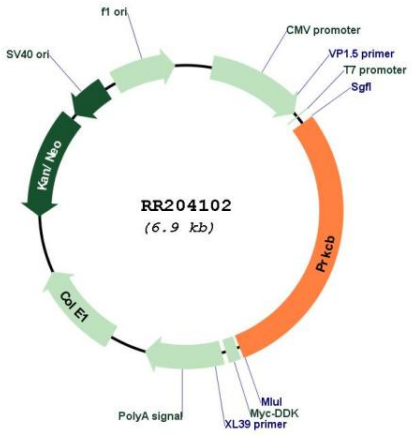
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_012713.4
RefSeq Size:	3006 bp
RefSeq ORF:	2022 bp
Locus ID:	25023
Cytogenetics:	1q36
MW:	76.8 kDa
Gene Summary:	plays a role in hexosamine biosynthesis pathway induced transcriptional regulation [RGD, Feb 2006]

Product images:



Circular map for RR204102