

## Product datasheet for RC219853

### PRKACB (NM\_182948) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PRKACB (NM_182948) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PRKACB
Synonyms:	CAFD2; PKA C-beta; PKACB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219853 representing NM_182948 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGCTTATAGAGAACCACCTTGTAAACAGTATACAGGTACAACCTACAGCTCTTCAGAAATTGGAAG  
GTTTTGCTAGCCGGTTATTTTCATAGACACTCTAAAGGTAAGTGCACATGATCAGAAAACAGCTCTGGAAA  
TGACAGCCTTCATTTCTCTGAACATACTGCCTTATGGGACAGATCAATGAAAGAGTTTCTAGCCAAAGCC  
AAAGAAGACTTTTTGAAAAAATGGGAGAATCCAACCTCAGAATAATGCCGGACTTGAAGATTTTGAAGGA  
AAAAAACCTTGAACAGGTTTCATTTGGAAGAGTCATGTTGGTAAAACACAAAGCCACTGAACAGTATTA  
TGCCATGAAGATCTTAGATAAGCAGAAGTTGTTAAACTGAAGCAAATAGAGCATACTTTGAATGAGAAA  
AGAATATTACAGGCAGTGAATTTTCTTTCTTGTTCGACTGGAGTATGCTTTTAAGGATAATTCTAATT  
TATACATGGTTATGGAATATGTCCTCGGGGTGAAATGTTTTACATCTAAGAAGAAATTGGAAGGTTTCAG  
TGAGCCCCATGCACGGTCTATGCAGCTCAGATAGTGCTAACATTCGAGTACCTCCATTCCTAGACCTC  
ATCTACAGAGATCTAAACCTGAAAATCTTAAATGACCATCAAGGCTATATCCAGGTCACAGACTTTG  
GGTTTGCCAAAAGAGTTAAAGGCAGAAGTGGACATTATGTGGAAGTCCAGAGTATTTGGCTCCAGAAAT  
AATTCTCAGCAAGGGCTACAATAAGGCAGTGGATTGGTGGCATTAGGAGTGCTAATCTATGAAATGGCA  
GCTGGCTATCCCCATTCTTTGCAGACCAACCAATTCAGATTTATGAAAAGATTGTTTCTGAAAAGTCC  
GATTCATCCACTCCACTTCAGTTCAGATCTCAAGGACCTTCTACGGAACCTGCTGCAGGTGGATTTGACCAA  
GAGATTTGAAAATCTAAAGAATGGTGTCTAGTGATATAAAAACCTCAAAAGTGGTTTGCCACGACAGATTGG  
ATTGCTATTTACCAGAGGAAGGTTGAAGCTCCATTACACCAAAGTTTAGAGGCTCTGGAGATACCAGCA  
ACTTTGATGACTATGAAGAAGAAGATATCCGTGTCTCTATAACAGAAAAATGTGCAAAAAGAAATTTGGTGA  
ATTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA





**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\\_182948.4](#)

**RefSeq Size:** 4499 bp

**RefSeq ORF:** 1197 bp

**Locus ID:** 5567

**UniProt ID:** [P22694](#)

**Cytogenetics:** 1p31.1

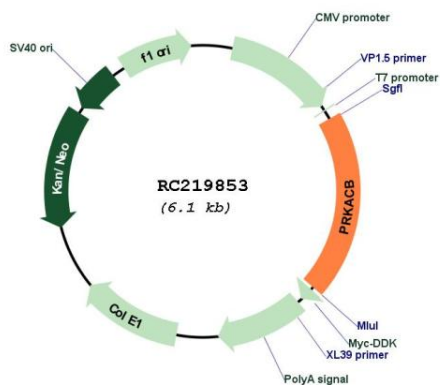
**Protein Families:** Druggable Genome, Protein Kinase

**Protein Pathways:** Apoptosis, Calcium signaling pathway, Chemokine signaling pathway, Dilated cardiomyopathy, Gap junction, GnRH signaling pathway, Hedgehog signaling pathway, Insulin signaling pathway, Long-term potentiation, MAPK signaling pathway, Melanogenesis, Olfactory transduction, Oocyte meiosis, Prion diseases, Progesterone-mediated oocyte maturation, Taste transduction, Vascular smooth muscle contraction, Vibrio cholerae infection, Wnt signaling pathway

**MW:** 46.1 kDa

**Gene Summary:** The protein encoded by this gene is a member of the serine/threonine protein kinase family. The encoded protein is a catalytic subunit of cAMP (cyclic AMP)-dependent protein kinase, which mediates signalling through cAMP. cAMP signaling is important to a number of processes, including cell proliferation and differentiation. Multiple alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2014]

Product images:



Circular map for RC219853