

Product datasheet for **SC322379**

PRKACB (NM_207578) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRKACB (NM_207578) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRKACB
Synonyms:	CAFD2; PKA C-beta; PKACB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322379
 GTTCGCTGGAGCCCTTCTCAGACCCGGCCCGGTCTTCGCGCCCGGACTCCTGGCGCCA
 GCGCTAGGCGCACTACCGCTCTGACGGGTGCAGACGCGGGAGTTGTCCCAGACTGTGGA
 GTGGCGGGCACGGCCCCAGCCCCCTTCCCTTCCCTGACCCCTTCTTGCCATCGCCCCAG
 ACATGGGGAACGCGGCGACCCCAAGAAAGGCAGCGAGGTGGAGAGCGTGAAAGAGTTTC
 TAGCCAAAGCCAAAGAAGACTTTTTGAAAAATGGGAGAATCCAACCTCAGAATAATGCCG
 GACTTGAAGATTTTGAAGGAAAAAACCCCTTGGAACAGTTCATTTGGAAGAGTCATGT
 TGGTAAAACACAAAGCCACTGAACAGTATTATGCCATGAAGATCTTAGATAAGCAGAAGG
 TTGTTAAACTGAAGCAAATAGAGCATACTTTGAATGAGAAAAAGAATATTACAGGCAGTGA
 ATTTTCCTTCTGTTTCGACTGGAGTATGCTTTTAAGGATAATTCTAATTTATACATGG
 TTATGGAATATGTCCTGGGGGTGAAATGTTTTACATCTAAGAAGAATTGGAAGTTCA
 GTGAGCCCATGCACGGTCTATGCAGCTCAGATAGTCTAACATTGAGTACCTCCATT
 CACTAGACCTCATCTACAGAGATCTAAACCTGAAAATCTTTAATTGACCATCAAGGCT
 ATATCCAGGTCACAGACTTTGGGTTTGCCAAAAGAGTTAAAGGCAGAACTGGACATTAT
 GTGGAACTCCAGAGTATTTGGCTCCAGAATAATTCTCAGCAAGGGCTACAATAAGCGAG
 TGGATTGGTGGGATTAGGAGTGCTAATCTATGAAATGGCAGCTGGCTATCCCCCATTCT
 TTGCAGACCAACCAATTCAGATTTATGAAAAGATTGTTTCTGGAAAGAACTTTTGATATG
 AACAAAACAAAATTTGAGAAAAATTAACAGACAAGGCAGTGATTTATTTTTGAAGAATT
 TGAGAAGTGTAGACTCTCAAGAGGACTAAAGGTCATATGAAGAATGATGAGAGAACCAAA
 ATACATTAATAATGTTTCAAATCATTTAATTGACAGTAATTATAAAGTTCTTGAATCTT
 TACTATAATTACTTTTATTTACTTTCATATAAGAAATCCAGTTTTCTAACAAAGGATACTG
 TCATAACTAAATTTACATTTATTAAGAAAACTGCTTTAGTTAAAATTAATGTGTCTTCA
 TTTTATGCATTGGCCTCGATTTGCCAATCATTCTCTATTGGTTAAAATTTATATTCAGC
 TGTTTATGAATATATATTCATTTTATATCAAACCTTAAAAATTTGTATCTAATAATCAGC
 ATATATTTCTAAAATCATAACAGTCTAAATCCTGGGCACCTTAGAAGAATGACACCAGAAA
 ACCTTATTATATCACAATATTCTGTTTTCCCTTCATTTATTTAGAAAATGACAGGATA
 TTTGGTGTACTTTTGTTTTTAACTAAAAGTACCAGATTCTCTCCCCATGTGGGATAT
 AAAATTATCCCCATCTCTACTCCCTTTACTCATCTAAAGTAGAAGTCATGAAAGTGGAA
 TTTTTGCCATTAAGGCTCTGTATTATGTGAAGTTAGATTGATTAACCATTTCCCAAT
 AAATCATCTGTTTCAAACTCAAATTCAACTAGAATGTGTCTCTATTACATTGCAAAA
 ATATTATTGTCTCTGTGTTAGTGGCTAAAAGCCAAATTTGGAACTAACTAGTTTTTTAA
 ATTTTTTAAATTTGCAATTATTAATAATCCAATTTGGTCTTATAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_207578

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_207578.1](#), [NP_997461.1](#)

RefSeq Size: 1863 bp

RefSeq ORF: 774 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

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]

Transcript Variant: This variant (3) differs in both the 5' and 3' exon structures, compared to variant 1. The encoded isoform (3) has distinct N- and C-termini and is shorter than isoform 1.