

## Product datasheet for **SC214564**

### **PRKACA (NM\_207518) Human 3' UTR Clone**

#### **Product data:**

Product Type:	3' UTR Clones
Product Name:	PRKACA (NM_207518) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	PRKACA
Synonyms:	CAFD1; PKACA; PPNAD4
ACCN:	NM_207518
Insert Size:	1454 bp



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**Insert Sequence:** >SC214564 3'UTR clone of NM\_207518  
The sequence shown below is from the reference sequence of NM\_207518. The complete sequence of this clone may contain minor differences, such as SNPs.  
Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
AAGTGTGGCAAGGAGTTTTCTGAGTTTAGGGGCATGCCTGTGCCCCATGGGTTTTCTTTTTCTTTT
TTCTTTTTTTTGGTCGGGGGGTGGGAGGGTTGGATTGAACAGCCAGAGGGCCCCAGAGTTCCTTGCA
CTAATTTACCCCCACCCACCCCTCCAGGGTTAGGGGAGCAGGAAGCCAGATAATCAGAGGGACAGA
AACACCAGCTGCTCCCCCTCATCCCCTTACCCTCCTGCCCCCTCTCCACTTTTCCCTTCTTTCC
CCACAGCCCCCAGCCCCTCAGCCCTCCAGCCCACTTCTGCCTGTTTTAAACGAGTTTCTCAACTCCA
GTCAGACCAGGTCTTGTGGTGTATCCAGGGACAGGGTATGGAAAGAGGGGCTCACGCTTAACCCAGC
CCCCACCACACCCCATCCACCCAACCACAGGCCCACTTGCTAAGGGCAAATGAACGAAGCGCCAA
CCTTCCTTTCGGAGTAATCCTGCCTGGGAAGGAGAGATTTTTAGTGACATGTTTCAGTGGGTGCTTGT
AGAATTTTTTAAAAAACAACAATTTAAATCTTATTTAAGTTCACCAAGTGCCTCCCTCCCTCCCTTC
CTCTACTCCCACCCCTCCCATGTCCCCCATTCCTCAAATCCATTTTAAAGAGAAGCAGACTGACTTTG
GAAAGGGAGGCGCTGGGGTTTGAACCTCCCCGCTGCTAATCTCCCTGGGCCCTCCCCGGGGAATCCT
CTTGCCAATCTGCGAGGGTCTAGGCCCTTTAGGAAGCCTCCGCTCTCTTTTTCCCAACAGACCTG
TCTTACCCTTGGGCTTTGAAAGCCAGACAAAGCAGCTGCCCTCTCCCTGCCAAAGAGGAGTATCCC
CCAAAAAGACAGAGGGGGAGCCCCAAGCCAAAGTCTTCTCCAGCAGCGTTTCCCCCAACTCCTTA
ATTTTATTCTCCGCTAGATTTTAAAGTCCAGCCTTCCCTCAGCTGAGTGGGAGGGCATCCCTGCAAAA
GGGAACAGAAGAGGCCAAGTCCCCCAAGCCACGCCCCGGGTTCAAGGCTAGAGCTGCTGGGGAGGGG
CTGCCTGTTTTACTCACCCACCACTTCCGCTCCCCATCCTGGGCGCCCTCCTCCAGCTTAGCTGT
CAGCTGTCCATCACCTCTCCCCACTTTCTATTGTGCTTTTTTCTCTCGTAATAGAAAAGTGGGGAG
CCGCTGGGGAGCCACCCATTATCCCCGATTTCCCCCTCTCATAACTTCTCCCATCCCAGGAGGAG
TTCTCAGGCTGGGGTGGGGCCCCGGTGGGTGCGGGGGCGATTCAACCTGTGTGCTGCGAAGGACGAG
ACTTCCTCTTGAACAGTGTGCTGTTGTAACATATTTGAAAATATTACCAATAAAGTTTGTAAAAA
AAAAA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
```

**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_207518.3](#)

**Summary:**

This gene encodes one of the catalytic subunits of protein kinase A, which exists as a tetrameric holoenzyme with two regulatory subunits and two catalytic subunits, in its inactive form. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. Four different regulatory subunits and three catalytic subunits have been identified in humans. cAMP-dependent phosphorylation of proteins by protein kinase A is important to many cellular processes, including differentiation, proliferation, and apoptosis. Constitutive activation of this gene caused either by somatic mutations, or genomic duplications of regions that include this gene, have been associated with hyperplasias and adenomas of the adrenal cortex and are linked to corticotropin-independent Cushing's syndrome. Alternative splicing results in multiple transcript variants encoding different isoforms. Tissue-specific isoforms that differ at the N-terminus have been described, and these isoforms may differ in the post-translational modifications that occur at the N-terminus of some isoforms. [provided by RefSeq, Jan 2015]

**Locus ID:**

5566

**MW:**

52.6