

## Product datasheet for **MC200197**

### Prkaca (NM\_008854) Mouse Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | Prkaca (NM_008854) Mouse Untagged Clone |
| Tag:                      | Tag Free                                |
| Symbol:                   | Prkaca                                  |
| Synonyms:                 | C; P; Pk; Pkaca; PKCD                   |
| Mammalian Cell Selection: | Neomycin                                |
| Vector:                   | PCMV6-Kan/Neo (PCMV6KN)                 |
| E. coli Selection:        | Kanamycin (25 ug/mL)                    |



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**Fully Sequenced ORF:** >BC003238 sequence for NM\_008854  
 CTTGGGCTGAGGCTCCCCGCGGGCGGCGCAGAGAGACGCGGAAGCAGGGGCTGGGCGGGGTCGTGG  
 CGCCGACGCCAGCGCAGCCAGCCCCAGGGGCGCCGCCTCCGCTGCCAGCGCGCTCCGGGGCCGCGGC  
 CACCTTAGCACCCGCGCGTCCGAGCTCCGGGACTGGCCCCGGCCGCGACGCCGCCGCGATGGGCAACGC  
 CGCCGCCCAAGAAGGGCAGCGAGCAGGAGAGCGTAAAAGAGTTCCTAGCCAAAGCAAGGAAGATTTCT  
 TGAAAAAATGGGAGACCCCTTCTCAGAATACAGCCAGTTGGATCAGTTTGATAGAATCAAGACCCTTG  
 GCACCGGCTCCTTTGGGCGAGTGATGCTGGTGAAGCACAAGGAGAGTGGGAACCACTACGCCATGAAGT  
 CTTAGACAAGCAGAAGGTGGTGAAGCTAAAGCAGATCGAGCACACTCTGAATGAGAAGCGCATCCTGCAG  
 GCCGTCAACTTCCGTTCTGGTCAAATTTGAATTTCTCCTTCAAGGACAACCTCAAACCTGTACATGGTCA  
 TGGAGTATGTAGCTGGTGGCGAGATGTTCTCCACCTACGGCGGATTGGAAGTTTCCAGCGAGCCCCATGC  
 CCGTTTCTACGGCGCGCAGATCGTCTGACCTTTGAGTATCTGCACTCCCTGGACCTCATCTACCGGAC  
 CTGAAGCCCGAGAATCTTCTCATCGACCAGCAGGGCTATATTCAGGTGACAGACTTCGGTTTTGCCAAGC  
 GTGTGAAAGGCCGTAATTTGACCTTGTGTGGGACCCCTGAGTACTGGCCCCGAGATTATCCTGAGCAA  
 AGGCTACAACAAGGCTGTGGACTGGTGGGCTCTCGGAGTCTCATCTACGAGATGGCTGCTGTTACCCA  
 CCCTTCTCGCTGACCAGCTATCCAGATCTATGAGAAAATCGTCTCTGGGAAGGTGCGGTTCCCATCCC  
 ACTTCAGCTCTGACTTGAAGACCTGCTGCGGAACCTTCTGCAGTGGATCTACCAAGCGCTTTGGGAA  
 CCTCAAGAACGGGTCATGACATCAAGAACCACAAGTGGTTTGGCACGACTGACTGGATTGCCATCTAT  
 CAGAGAAAGGTGGAAGCTCCCTTCATACCAAAGTTTAAAGGCCCTGGGGACACGAGTAACCTTTGACGACT  
 ATGAGGAGGAAGAGATCCGGGCTCCATCAATGAGAAGTGGCAAGGAGTTTACTGAGTTTTAGGGGTG  
 TGCTTGTGCCCTTGGGTTCTCTTTCAATTTTTCTTTTTCTTTCTATTTTTTTTCCGGTTGGGGTGGGA  
 GGGTTGGATCGAACAGCCAGAGGGCCCTAGAGTCCATGCATCTAATTTAACATCCAACACACCCCA  
 GGGTTAAGGAGAGCAGGAAAGCGCTCCAGATACTGGGGAAGGGCAACATCAGCTGCTCCCTCTCCCT  
 TCTTCTCACCTTCCCTGCCTGTTTTCAATGAATTTCTTAGCTCCAGCCATACCAATCTTGTGGTGT  
 ATCCAGGGCAGGTACGGAAAGAGGGCCCAAATTCAGCTCCTTCCCGACCTAGCACTGGATACTAA  
 GGATGAACGAACAGTAACGCCAACCTTCCCTTCCATGCAGCCCTACCTGGAAGGAGATTTTATGACCT  
 GTACAGAGGGCTGCTTGGCAGTGGGTTTTTTTTTTTTTTTCAATTAATTAAGTTCCACCAGTGCTCC  
 CACCCTCAAACCTGTCACCCTCCCCAACACCTCCTCACTCCCTAAATCCATTCTGATGAGACCCGG  
 GTAGCCAACTGACCCTGTCAAGGAAGGAACTGGGCTTGGAAATCTCGCCCTGAGCTGCTAGCTCCCGCC  
 CCCCTTCCAGTGGTCTCATGCCAATTGCTGTGCATCAGCCCCCTAAGAAGCCTCCCCATCCTGGG  
 CGCCTCGTTCTAGCTTAGCTGTGAGTGTCCATCACCTTTGCCGTGCGTCCCCACTACTGCAACCCC  
 AAGTCTGATTGTGCTTTTTCTCTCAATAGAAAGGTGGGGAGCTGCTGGGAAATACCCATTTATCCCT  
 GTTTTATCCCTCTCGTAACTTCTCCAAAAAGGAGGAGCTCTCAGGCCTGGGTGGGGGCCCGGGTGGGA  
 CGAGGGGTGCTTCAACCTGTGTGCTTCAAGGATGAGACTTCTCTTGAACAGTGTGCTGTTGTAACA  
 TATTTGAAAACCTATTACCAATAAAGTTTTGTTTTAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_008854

**Insert Size:** 1056 bp

**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).

**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:** [BC003238](#), [AAH03238](#)

**RefSeq Size:** 2292 bp

**RefSeq ORF:** 1056 bp

**Locus ID:** 18747

**UniProt ID:** [P05132](#)

**Cytogenetics:** 8 C2

**Gene Summary:** This gene encodes a member of the serine/threonine protein kinase family. The holoenzyme, protein kinase A (also known as cyclic-AMP dependent protein kinase), mediates cellular response to changes in cyclic-AMP levels. This gene encodes the alpha catalytic subunit of protein kinase A. Protein kinase A-mediated signaling is transduced via phosphorylation of target proteins, and is important for many cellular functions, including mammalian sperm maturation and motility. Alternative splicing results in multiple transcript variants. A pseudogene of this gene has been defined on the X chromosome. [provided by RefSeq, Apr 2013]

Transcript Variant: This variant (1, also known as Calpha1) represents the longer transcript and encodes the longer isoform (1).