

## Product datasheet for **SC324355**

### PRKAR1B (NM\_002735) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PRKAR1B (NM_002735) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRKAR1B
Synonyms:	PRKAR1
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 NM\_002735.1  
 GACCCGCTCGCTCGCTCGCCAGCCGTCCCCGCGCCCCGCGTCCCCGCGCCAGCCGCTCC  
 TGGCCTCGGGCGCCGCGCATCCAGGAAGGAAGCAGCCACCTCGCCATGGCCTCCCCGCC  
 CGCCTGCCCTCGGAGGAGGACGAGAGCCTGAAGGGCTGTGAGCTGTACGTGCAGCTGCA  
 CGGGATCCAGCAGGTCTCAAAGACTGTATCGTCCACCTCTGCATCTCCAAGCCGAACG  
 CCCCATGAAGTTCTCCGGGAGCACTTCGAGAAGCTGGAGAAGGAAGAAAACAGGCAGAT  
 TTTGGCGCGCAAAAAGTCAAACCTCACAGTCCGACTCCCATGATGAGGAGGTGTCGCCAC  
 CCCCCGAACCCTGTGGTGAAGGCCCGCCGCGGAGGAGGCGTGAGTGCCGAGGTGTA  
 CACCGAGGAGGACGCGTGTCTACGTACGGAAGGTGATTCCCAAGGACTACAAAACCAT  
 GACTGCGCTGGCCAAGGCCATCTCCAAGAAGTGTCTTTCGCTCACCTGGATGACAACGA  
 GAGGAGTGACATATTCGATGCCATGTTCCCTGTCACTCACATCGCTGGGAGACTGTTAT  
 ACAGCAAGGGAATGAAGGAGACAACCTTCTATGTCGTTGATCAAGGGGAAGTGGATGTGA  
 CGTGAACGGAGAGTGGGTGACCAACATCAGCGAGGGAGGCAGCTTCGGGAGCTGGCGCT  
 CATCTACGGCACCCAGGGCTGCGACCGTAAAGCCAAGACGGACCTCAAGCTCTGGGG  
 GATCGACCGGACAGCTACCGGCGCATCCTTATGGGCAGCACGCTGAGGAAACGCAAGAT  
 GTACGAGGAGTTCTCAGCAAGGTCTCCATCCTAGAGTCCCTGGAGAAGTGGGAGCGTCT  
 GACCGTGGCGGATGCGCTGGAGCCCGTCCAGTTTGAAGATGGAGAGAAAATTGTGGTCCA  
 GGGAGAGCCTGGGGACGACTTTTACATCATCACGGAGGGCACCGCTCCGTGCTGCAGCG  
 CCGGTCCCCAATGAGGAGTACGTGGAGGTGGGGCGCCTGGGACCTCTGACTACTTCGG  
 GGAGATTGCACTGCTGCTGAACCGGCCCGGGCGCCACTGTGCTGGCCCGGGGGCCCT  
 CAAGTGTGTGAAGCTGGACCGGCCCGCTTCGAGCGTGTGCTGGGGCCCTGCTCTGAGAT  
 CCTCAAGAGGAACATTCAGCGTTACAACAGCTTCATCTCCCTCACCGTCTGAGCACAGCT  
 CCCGCCCTGCAGCCCCAGCTCCCCAGTGTGGTGGCCGTGCCCTGCTGCTGTGTCGGGG  
 GCCCGGAGCCGCTGTGTGAGGTGTGGGCGGGTGGGGCTGGGTCCCGGCAGCGTGAGGA  
 CTGCCCTTCCCGGACTCACTTTTGAATAAATGATCACCTTGTGATTTCCAATCA  
 AAGGACAAGCGGACAAAATGCATCCCAAGATCAAGGAAGGGACAGGCCAGCTTCTCCCC  
 ACACGCTCCCCGGCTGCCTCTGTGGGCTTCTCCTGGGGGGCCACCCACCCCTGCCAG  
 TCTCCTGGAGATGCTTGAGGATCGGTCTCCCCAGAACCAGGCCAGGACGTTGCCCTGG  
 GGCCTGGTGACCCTGTGAGGTGAGTCCCCAGATTGAGGTCTGAGTGTGGGCAAGTGTG  
 TCAAAAAGGGGCTCCCCCAGGGGAGATGAGGCTGAGAGCAGGGAGTTGAGGCCGAAGAA  
 GTCAAGGCCCTCCCGCAAATGTGTACCCTGCCGCGCCACTGCACCCCGCCGACCCC  
 CACCTCCCCGGGGCCCTGCTGCGGATGCCGGAGTGGGAGAGTCTCTGAGCTGTGAGAT  
 TGATCTTGCCCTAATTGGAGAGGAAGCCGGGCGCAAGACACACGGGGCTCCTGCCTTG  
 GGAGCCAGGGCC

**Restriction Sites:** Please inquire

**ACCN:** NM\_002735

**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\\_002735.1](#), [NP\\_002726.1](#)

**RefSeq Size:** 1932 bp

**RefSeq ORF:** 1146 bp

**Locus ID:** 5575

**UniProt ID:** [P31321](#)

**Cytogenetics:** 7p22.3

**Protein Families:** Druggable Genome

**Protein Pathways:** Apoptosis, Insulin signaling pathway

**Gene Summary:** The protein encoded by this gene is a regulatory subunit of cyclic AMP-dependent protein kinase A (PKA), which is involved in the signaling pathway of the second messenger cAMP. Two regulatory and two catalytic subunits form the PKA holoenzyme, disbands after cAMP binding. The holoenzyme is involved in many cellular events, including ion transport, metabolism, and transcription. Several transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Aug 2015]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. All of the variants encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.