

Product datasheet for **SC327497**

PRKAR1B (NM_001164762) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRKAR1B (NM_001164762) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRKAR1B
Synonyms:	PRKAR1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001164762, the custom clone sequence may differ by one or more nucleotides

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ATGGCCTCCCCGCCCGCTGCCCTCGGAGGAGGACGAGAGCCTGAAGGGCTGTGAGCTG
TACGTGCAGCTGCACGGGATCCAGCAGGTCTCAAAGACTGTATCGTCCACCTCTGCATC
TCCAAGCCCGAACGCCCATGAAGTTCCTCCGGGAGCACTTCGAGAAGCTGGAGAAGGAA
GAAAACAGGCAGATTTTGGCGCGCAAAAGTCAAACCTCACAGTCGGACTCCCATGATGAG
GAGGTGTCGCCCACCCCGAACCCCTGTGGTGAAGGCCCGCCGCGGAGGAGGCGTG
AGTGCCGAGGTGTACACCGAGGAGGACGCCGTGCTACGTGAGGAAGGTGATCCCAAG
GACTACAAAACCATGACTGCGCTGGCCAAGGCCATCTCCAAGAAGCTGCTTTCGCTCAC
CTGGATGACAACGAGAGGAGTGACATATTCGATGCCATGTTCCCTGTCACTCACATCGCT
GGGGAGACTGTTATACAGCAAGGGAATGAAGGAGACAACCTCTATGTCGTTGATCAAGGG
GAAGTGGATGTGTACGTGAACGGAGAGTGGGTGACCAACATCAGCGAGGGAGGCAGCTTC
GGGGAGCTGGCGCTCATCTACGGCACCCCGAGGGCTGCGACCGTAAAAGCCAAGACGGAC
CTCAAGCTCTGGGGGATCGACCGGGACAGCTACCGGCGCATCCTTATGGGCAGCACGCTG
AGGAAACGCAAGATGTACGAGGAGTTCTCAGCAAGGTCTCCATCCTAGAGTCCCTGGAG
AAGTGGGAGCGTCTGACCGTGGCGGATGCGCTGGAGCCCGTCCAGTTTGAAGATGGAGAG
AAAATTGTGGTCCAGGGAGAGCCTGGGGACGACTTTTACATCATCACGGAGGGCACCCGG
TCCGTGCTGCAGCGCCGGTCCCCAATGAGGAGTACGTGGAGGTGGGGCGCCTGGGACCC
TCTGACTACTTCGGGGAGATTGCACTGCTGCTGAACCGGCCCGGGCGGCCACTGTGCTG
GCCCGGGGCCCTCAAGTGTGTGAAGCTGGACCGGCCCGCTTCGAGCGTGTGCTGGGG
CCCTGCTCTGAGATCCTCAAGAGAACATTACGCGTTACAACAGCTTCATCTCCCTCACC
GTC

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Restriction Sites:	Please inquire
ACCN:	NM_001164762



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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:	<ol style="list-style-type: none">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:	<u>NM_001164762.1</u> , <u>NP_001158234.1</u>
RefSeq Size:	2494 bp
RefSeq ORF:	1146 bp
Locus ID:	5575
UniProt ID:	<u>P31321</u>
Cytogenetics:	7p22.3
Protein Families:	Druggable Genome
Protein Pathways:	Apoptosis, Insulin signaling pathway
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (6) 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.</p>