

Product datasheet for SC118449

PRKACG (NM_002732) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRKACG (NM_002732) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRKACG
Synonyms:	BDPLT19; KAPG; PKACg
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_002732 edited
 ATGGGCAACGCCCCGCAAGAAGGACACCGAGCAGGAGGAGCGTGAACGAGTTCCTA
 GCCAAAGCCAGAGGAGATTTCTCTACAGATGGGGAAACCCCGCTCAAAACACCGCCAGC
 TCGGATCAGTTCGAACGGCTCAGGACGCTGGGCATGGGCTCCTTCGGGCGGGTGATGCTG
 GTGAGGCACCAGGAGACCGGCGGCCACTACGCCATGAAGATCCTCAACAAGCAGAAGGTG
 GTGAAGATGAAGCAGGTCGAGCACATACTGAACGAGAAGCGCATCCTGCAGGCGATCGAC
 TTTCCGTTCTCGTCAAGCTCCAGTTCTCCTTTAAGGACAACCTACCTGTACCTGGTG
 ATGGAGTACGTGCCGGTGGGAGATGTTCTCCCGCTACAGCGCGTCGGAAGGTTTAGC
 GAGCCCCATGCCTGTTTCTATGCCGCCAGGTCGTCTGGCCGTCAGTACCTACACTCG
 CTCGACCTCATCCACCGGACCTGAAGCCCGAGAATCTCCTCATCGACCAGCAGGGCTAC
 CTGCAGGTGACGACTTCGGTTTCGCCAAGCGCGTGAAGGGCCGCACTTGGACCTTGTC
 GGGACCCAGAGTACCTGGCCCCGAGATCATCCTGAGCAAAGGCTACAACAAGGCCGTG
 GACTGGTGGGCCCTAGGGGTGCTCATCTATGAGATGGCCGTGGGTTCCACCCCTTCTAC
 GCCGACCAGCCCATCCAGATCTACGAGAAGATCGTCTCTGGGAGGGTGGCGTTTCCCTCC
 AAACTCAGCTCTGACCTCAAGCATCTGCTGCGGAGCCTGCTGCAGGTGGACCTACCAAG
 CGCTTCGAAACCTCAGGAACGGGTTGGCGACATCAAGAACCACAAGTGGTTCGCCACA
 ACCAGCTGGATCGCCATCTATGAGAAGAAGGTGGAAGCTCCCTTCATCCCGAAGTACACA
 GGCCCTGGGGATGCCAGTAACTTTGACGACTACGAGGAGGAAGAGCTCCGGATCTCCATC
 AATGAGAAGTGTGCCAAGGAGTTTTCTGAGTTTTAG



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002732 unedited
 GACATTGGTTTGTAACTCCACTCCTATAGGCGGCCGACGACTTCGCACGAGCCCCTGCCGC
 CGCCACCGCCATGGGCAACGCCCCGCCAAGAAGGACACCGAGCAGGAGGAGAGCGTGAA
 CGAGTTCTTAGCCAAAGCCAGAGGAGATTTCTCTACAGATGGGGAAACCCCGCTCAAAA
 CACCGCCAGCTCGGATCAGTTCGAACGGCTCAGGACGCTGGGCATGGGCTCCTTCGGGCG
 GGTGATGCTGGTGAAGTGAAGCAGGTCGAGCACATACTGAACGAGAAGCGCATCCTCAACAA
 GCAGAAGGTGGTGAAGTGAAGCAGGTCGAGCACATACTGAACGAGAAGCGCATCCTGCA
 GCGCATCGACTTCCGTTCTCGTCAAGCTCCAGTTCTCCTTTAAGGACAACCTCCTACCT
 GTACCTGGTGATGGAGTACGTGCGGGTGGGGAGATGTTCTCCCGCTACAGCGCGTCGG
 AAGTTTTAGCGAGCCCCATGCCTGTTTCTATGCCGCCAGGTCGTCTGGCCGTCCAGTA
 CCTACTCGCTCGACCTCATCCACCGCAGCTGAAGCCCAGAAATCTCCTCATCGACCA
 GCAGGGCTACCTGCAGGTGACGGACTTCGGTTTCGCCAAGCGCGTGAAGGGCCGCACTTG
 GACCTTGTGCGGGACCCAGAGTACCTGGCCCCGAGATCATCTGAGCAAAGGCTACAA
 CAAGGCCGTGGACTGGTGGGCCCTAGGGGTGCTCATCTATGAGATGGCCGTGGGTTCCC
 ACCCTTCTACGCCGACCAGCCATCCAGATCTACGAGAAGATCGTCTCTGGGAGGGTGGC
 GTTCCCTNCAACTCAGCTCTGACCTCAGCATCTGCTGCGGAGCCTGCTGCAGGTGACCT
 CACCAGCGCTTCGGAACTCAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002732 unedited
 TGTGTAACGCGGCCCGCTTTTCTAAAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTAAATTT
 TATTCTAGCAAACAGCCCATGAACATGGCACTAAACCTCTCTCCTCCCAGGCAGGATTA
 CGCCAAAGGGTAGGTGTGCTTTTTCATTTCCTCTCTTAATAAGTGGTGCCTGTTACGG
 CTGGAGTTAAGTTTGAGCCCTTTCCACACCGTGTCCCTTGATACAACAGCAAGACCT
 GGCTGAATAGAGCTGAGAACTCGTTTAAAACACGCAGAAGGGGGCTGGGGCAAGGGGG
 ACCCTGTGGGAGGAGAAAAGAGAGAAGCACAGAGGACCACGAACGCCTGGGGGGGGCGA
 GGGAGCACCTGGCGCTTCTGCTCCTCAAATATCTGGGCTTCTGCTCCCCAACCTGG
 AGGGTGGGGTGAAGATGAAATTACATAAAGAACTCTGGGGCCCTCTGGCTGTCCAATG
 CAACCTTCCATCCCCAAACCACAAAACACAACGAAAGAAAACCCACAGGGGCACA
 AGCTCACCCCTAAAACGACAAAACACTTGGCCCACTTCTTATTGATGGACATCCGGAG
 CTCTTACTCTCATCCCCCAAAGTTACTGGAGTACTCCAGGCCTGTGGTCTTCCGGAT
 GAAAGGAGTCCCCCCTCTCCTCATATATGGCGACCCAACTGCATGGGCCACACAAT
 TGTGGCCCTCTCATGACCTCACCCACCTTTTTGTAGTTCCCCCCCCATTGAGGAGGCC
 ACCCGTATAGAGTTTCTCCCCCACCCTTGTGACATCACCTGGCCCCGAGGGCAACC
 CAACTCTTTTCTCAACCCCTACCCTAAACCCCAACGGACCGGAATGTATAAAGGCG
 GTAACCTCCTTTCTCCCCCTCAGCCCTTTGGTTCCCCTTACCCCTCCGCGAATC
 TTTACTGTACACCCCGGCCAACACTTCGGCAAG

Restriction Sites:

Please inquire

ACCN:

NM_002732

Insert Size:

2100 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:	<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:	NM_002732.2 , NP_002723.2
RefSeq Size:	1560 bp
RefSeq ORF:	1056 bp
Locus ID:	5568
UniProt ID:	P22612
Cytogenetics:	9q21.11
Domains:	pkinese, S_TK_X, TyrKc, S_TKc
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:	Cyclic AMP-dependent protein kinase (PKA) consists of two catalytic subunits and a regulatory subunit dimer. This gene encodes the gamma form of its catalytic subunit. The gene is intronless and is thought to be a retrotransposon derived from the gene for the alpha form of the PKA catalytic subunit. [provided by RefSeq, Jul 2008]