

## Product datasheet for SC123660

### PKC alpha (PRKCA) (BC011942) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PKC alpha (PRKCA) (BC011942) Human Untagged Clone
Tag:	Tag Free
Symbol:	PKC alpha
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC011942 edited GGCACGAGGAGTTTTGTTACCCAGGCTGGATTTTCGGTGGTGGGATCTTGGCTCACTGCAA AGAAATGAACAAAATTCAGGCAACGTAGTGAGACTCTGTCTCCTGCGGTTGATACCTGT TCTACCTCCCATGGCTACTCTTGCTCCCTCCCATTTGCAGGGGCTGTTAGGACTCCACT GAACAGTTCAGTGCCTTTTTATTGAGTGCCTATGAGATGCCAGGCCCTGTCTGGGTATT GTGGGCACTGTGGAGCGAGATGTCTTTGACCCTAAAGAGCTTTTATTCCAGTTCAGGGAG AGAGACTAGGCGAGACATGAAATATACAGGGTCACAGGAGTCTCAGTGGACTGGGTCAG GAGAATTGCTTGAACCTGGGAGGTGGAGTTGCGGTGAGCCGAGATTGCACCACTGCACT CCAGCCTGGGCAACAAGAGCGAACTCCATCTCAAAAAACAACAACAACAACAATAA AAAAAAAAAAAAAAAA
5' Read Nucleotide Sequence:	>OriGene 5' read for BC011942 unedited GTCAAAATTTGTAACGACTCACTATAGGCGGCCGGAATTCGCACGAGGAGTTTTGTTA CCCAGGCTGGATTTTCGGTGGTGGGATCTTGGCTCACTGCAAAGAAATGAACAAAATTC GGCAACGTAGTGAGACTCTGTCTCCTGCGGTTGATACCTGTTCTACCTCCCATGGCTACT CTTGCTCCCTCCCATTTGCAGGGGCTGTTAGGACTCCACTGAACAGTTCAGTGCCTTTT TATTGAGTGCCTATGAGATGCCAGGCCCTGTCTGGGTATTGTGGCACTGTGGAGCGAG ATGTCTTTGACCCTAAAGAGCTTTTATTCCAGTTCAGGGAGAGACTAGGCGAGACATG AAATATACAGGGTCACAGGAGTCTCAGTGGACTGGGTCAGGAGAATTGCTTGAACCTGG GAGGTGGAGGTTGCGGTGAGCCGAGATTGCACCACTGCACTCCAGCCTGTGCAACAAGAG CGAAACTCCATCTCANANAAAACAACAACAACAACAATAAAAAAAAAAAAAAAAAACTC GAGTTTTTTTTTTTTTTTTTTTTTAAATTTTTTAAACACCTGCTTTTCGATTGGCTGA AATCTGTGTTACGAGTAGCACAGTCTACTTTGCCGATATAGATTATAGAAGTTAGCTC TTGCGTTTTACTAGGATCAAACACTTTCCTTCTTAACAAGTTTTTAATACCTCCCTG CCTCTGGGATGTGAATGCAAGGCACCAACCTCGGCCAAGGCTAAAACCACTTCCG GGCTGGTCCCATTTTCGGGGGCCAGGGCACCCCTCCCTCGCAAGGGCAACTCCCCA ACGGGTCCGGGCCGTTCCCCCGTTACCTGGAGCGGGCTGGGATACTAACCCCAATC TTGGATTTGCGGGCAACCGCCCT



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<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	BC011942
<b>Insert Size:</b>	496 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC011942.1</a> , <a href="#">AAH11942.1</a>
<b>RefSeq Size:</b>	496 bp
<b>Locus ID:</b>	5578
<b>Cytogenetics:</b>	17q24.2
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase
<b>Protein Pathways:</b>	Calcium signaling pathway, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Gap junction, Glioma, GnRH signaling pathway, Leukocyte transendothelial migration, Long-term depression, Long-term potentiation, MAPK signaling pathway, Melanogenesis, Natural killer cell mediated cytotoxicity, Non-small cell lung cancer, Pathogenic Escherichia coli infection, Pathways in cancer, Phosphatidylinositol signaling system, Tight junction, Vascular smooth muscle contraction, VEGF signaling pathway, Vibrio cholerae infection, Wnt signaling pathway
<b>Gene Summary:</b>	Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and the second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC family members also serve as major receptors for phorbol esters, a class of tumor promoters. Each member of the PKC family has a specific expression profile and is believed to play a distinct role in cells. The protein encoded by this gene is one of the PKC family members. This kinase has been reported to play roles in many different cellular processes, such as cell adhesion, cell transformation, cell cycle checkpoint, and cell volume control. Knockout studies in mice suggest that this kinase may be a fundamental regulator of cardiac contractility and Ca(2+) handling in myocytes. [provided by RefSeq, Jul 2008]