OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR229369

Prkaca (NM_001277898) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prkaca (NM_001277898) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prkaca
Synonyms:	C; P; Pk; Pkaca; PKCD
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229369 representing NM_001277898 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCTTCCAGCTCCAACGATGTGAAAGAGTTCCTAGCCAAAGCCAAGGAAGATTTCCTGAAAAAATGGG AGACCCCTTCTCAGAATACAGCCCAGTTGGATCAGTTTGATAGAATCAAGACCCTTGGCACCGGCTCCTT TGGGCGAGTGATGCTGGTGAAGCACAAGGAGAGTGGGAACCACTACGCCATGAAGATCTTAGACAAGCAG AAGGTGGTGAAGCTAAAGCAGATCGAGCACACTCTGAATGAGAAGCGCATCCTGCAGGCCGTCAACTTCC CGTTCCTGGTCAAACTTGAATTCTCCTTCAAGGACAACTCAAACCTGTACATGGTCATGGAGTATGTAGC TGGTGGCGAGATGTTCTCCCACCTACGGCGGATTGGAAGGTTCAGCGAGCCCCATGCCCGTTTCTACGCG GCGCAGATCGTCCTGACCTTTGAGTATCTGCACTCCCTGGACCTCATCTACCGGGACCTGAAGCCCGAGA ATCTTCTCATCGACCAGCAGGGCTATATTCAGGTGACAGACTTCGGTTTTGCCAAGCGTGTGAAAGGCCG TACTTGGACCTTGTGTGGGACCCCTGAGTACTTGGCCCCCGAGATTATCCTGAGCAAAGGCTACAACAAG GCTGTGGACTGGTGGGCTCTCGGAGTCCTCATCTACGAGATGGCTGCTGGTTACCCACCCTTCTTCGCTG ACCAGCCTATCCAGATCTATGAGAAAATCGTCTCTGGGAAGGTGCGGTTCCCATCCCACTTCAGCTCTGA CTTGAAGGACCTGCTGCGGAACCTTCTGCAGGTGGATCTCACCAAGCGCTTTGGGAACCTCAAGAACGGG GTCAATGACATCAAGAACCACAAGTGGTTTGCCACGACTGACTGGATTGCCATCTATCAGAGAAAGGTGG AAGCTCCCTTCATACCAAAGTTTAAAGGCCCTGGGGACACGAGTAACTTTGACGACTATGAGGAGGAAGA GATCCGGGTCTCCATCAATGAGAAGTGTGGCAAGGAGTTTACTGAGTTT ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

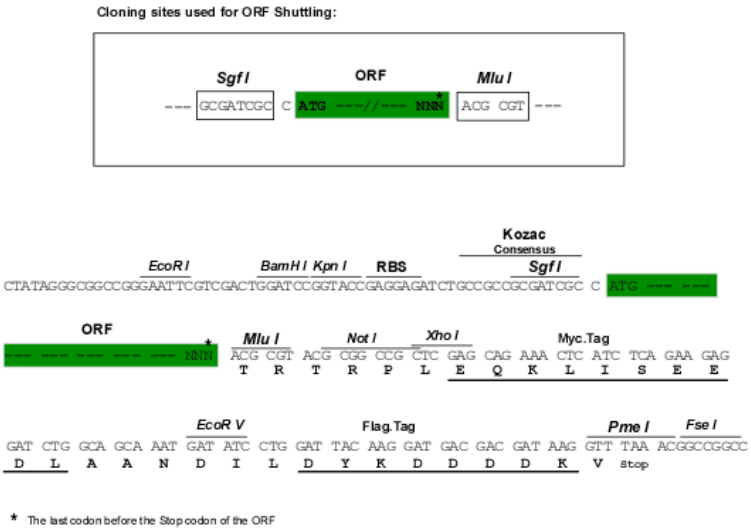
>MR229369 representing NM_001277898
Red=Cloning site Green=Tags(s)

MASSSNDVKEFLAKAKEDFLKKWETPSQNTAQLDQFDRIKTLGTGSFGRVMLVKHKESGNHYAMKILDKQ
KVVKLKQIEHTLNEKRILQAVNFPFLVKLEFSFKDNSNLYMVMEYVAGGEMFSHLRRIGRFSEPHARFYA
AQIVLTFEYLHSLDLIYRDLKPENLLIDQQGYIQVTDFGFAKRVKGRTWTLCGTPEYLAPEIILSKGYNK
AVDWWALGVLIYEMAAGYPPFFADQPIQIYEKIVSGKVRFPSHFSSDLKDLLRNLLQVDLTKRFGNLKNG
VNDIKNHKWFATTDWIAIYQRKVEAPFIPKFKGPGDTSNFDDYEEEEIRVSINEKCGKEFTEF

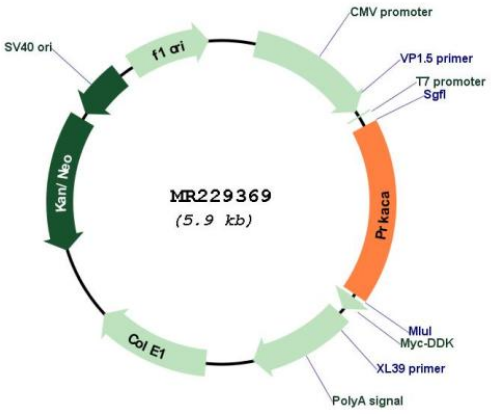
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001277898

ORF Size: 1029 bp

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OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001277898.1, NP_001264827.1
RefSeq Size:	2257 bp
RefSeq ORF:	1032 bp
Locus ID:	18747
UniProt ID:	P05132
Cytogenetics:	8 C2
MW:	40.3 kDa
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]

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