

Product datasheet for **RG237325**

PRKACB (NM_001300916) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRKACB (NM_001300916) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PRKACB
Synonyms:	CAFD2; PKA C-beta; PKACB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237325 representing NM_001300916. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCAGCTTATAGAGAACCACCTTGTAAACAGTATACAGGTACAACACAGCTCTTCAGAAATTGGAA
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GCCAAAGAAGACTTTTTGAAAAATGGGAGAATCCAACCTCAGAATAATGCCGGACTTGAAGATTTTGA
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GAGAAAAGAATATTACAGGCAGTGAATTTTCCTTTCTTTGTTTCGACTGGAGTATGCTTTTAAAGGATAAT
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ACAGACTTTGGGTTTGCCAAAAGAGTTAAAGGCAGAACCTGGACATTATGTGGAACCTCCAGAGTATTTG
GCTCCAGAAATAATTCTCAGCAAGGGCTACAATAAGGCAGTGGATTGGTGGGCATTAGGAGTGCTAATC
TATGAAATGGCAGCTGGCTATCCCCATTCTTTGCAGACCAACCAATTCAGATTTATGAAAAGATTGTT
TCTGAAAAGAACTTT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237325
 Blue=ORF Red=Cloning site Green=Tag(s)

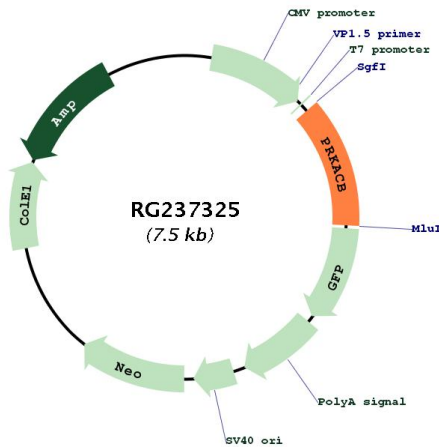
MAAYREPPCNQYTGTTTALQKLEGFASRLFHRHSKGT AHDQKTALENDSLHFSEHTALWDRSMKEFLAK
 AKEDFLKKNWNPQNNAGLEDFERKKT LGTGSFGRVMLVKHKATEQYYAMKILDKQKVVKLKQIEHTLN
 EKRI LQAVNFPFLVRLEYAFKDNSNLYMVM EYVPGGEMF SHLRRIGRFSEPHARFYAAQIVLTFEYLHS
 LDLIYRDLKPENLLIDHQYIQVTDGFAKRVKGRWTWLCGTPEYLAPEIILSKGYNKAVDWWALGVLI
 YEMAAGYPPFFADQPIQIYEKIVSGKNF
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHV SF SYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNATVEHLHPMGDNDLDG SFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001300916

ORF Size:	912 bp
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).
RefSeq:	NM_001300916.2
RefSeq Size:	2023 bp
RefSeq ORF:	915 bp
Locus ID:	5567
UniProt ID:	P22694
Cytogenetics:	1p31.1
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
MW:	35.8 kDa
Gene Summary:	The protein encoded by this gene is a member of the serine/threonine protein kinase family. The encoded protein is a catalytic subunit of cAMP (cyclic AMP)-dependent protein kinase, which mediates signalling through cAMP. cAMP signaling is important to a number of processes, including cell proliferation and differentiation. Multiple alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2014]