

## Product datasheet for **RR215333L4V**

### Prkacb (NM\_001077645) Rat Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Prkacb (NM_001077645) Rat Tagged ORF Clone Lentiviral Particle
Symbol:	Prkacb
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001077645
ORF Size:	1053 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RR215333).
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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_001077645.1</a> , <a href="#">NP_001071113.1</a>
RefSeq Size:	1122 bp
RefSeq ORF:	1056 bp
Locus ID:	293508
UniProt ID:	<a href="#">P68182</a>
Cytogenetics:	2q44



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**Gene Summary:**

Mediates cAMP-dependent signaling triggered by receptor binding to GPCRs. PKA activation regulates diverse cellular processes such as cell proliferation, the cell cycle, differentiation and regulation of microtubule dynamics, chromatin condensation and decondensation, nuclear envelope disassembly and reassembly, as well as regulation of intracellular transport mechanisms and ion flux. Regulates the abundance of compartmentalized pools of its regulatory subunits through phosphorylation of PJA2 which binds and ubiquitinates these subunits, leading to their subsequent proteolysis. Phosphorylates GPKOW which regulates its ability to bind RNA.[UniProtKB/Swiss-Prot Function]