

Product datasheet for MR218582L3

Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com

Rockville, MD 20850, US

OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

EU: info-de@origene.com CN: techsupport@origene.cn

Prkacb (NM 001164198) Mouse Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Prkacb (NM_001164198) Mouse Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: Prkacb

Synonyms: CbPKA; Pkacb
Mammalian Cell Puromycin

Selection:

Vector:

pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

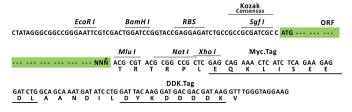
ORF Nucleotide The ORF insert of this clone is exactly the same as(MR218582).

Sequence:

Sgfl-Mlul

Restriction Sites: Cloning Scheme:



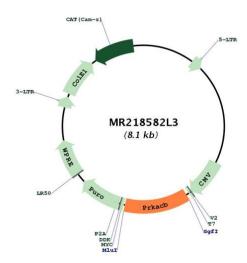


^{*} The last codon before the Stop codon of the ORF.





Plasmid Map:



ACCN: NM_001164198

ORF Size: 1014 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).

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: <u>NM 001164198.1</u>, <u>NP 001157670.1</u>

RefSeq Size: 4337 bp **RefSeq ORF:** 1017 bp



Prkacb (NM_001164198) Mouse Tagged Lenti ORF Clone - MR218582L3

 Locus ID:
 18749

 UniProt ID:
 P68181

 Cytogenetics:
 3 H2

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 (PubMed:9368018). 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 (By similarity).[UniProtKB/Swiss-Prot Function]