

Product datasheet for RC206847L4

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com

OriGene Technologies, Inc.

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

PAK4 (NM_001014831) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: PAK4 (NM_001014831) Human Tagged Lenti ORF Clone

Tag: mGFP Symbol: PAK4

Mammalian Cell Puromycin

Selection:

Vector:

pLenti-C-mGFP-P2A-Puro (PS100093)

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

ORF Nucleotide The ORF insert of

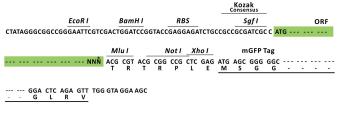
Sequence:

The ORF insert of this clone is exactly the same as(RC206847).

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_001014831

ORF Size: 1773 bp





PAK4 (NM_001014831) Human Tagged Lenti ORF Clone - RC206847L4

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.

NM 001014831.2 RefSeq:

RefSeq Size: 3064 bp RefSeq ORF: 1776 bp Locus ID: 10298 UniProt ID: <u>096013</u>

Cytogenetics:

19q13.2 **Protein Families:** Druggable Genome, Protein Kinase

Protein Pathways: Axon guidance, ErbB signaling pathway, Focal adhesion, Regulation of actin cytoskeleton,

Renal cell carcinoma, T cell receptor signaling pathway

MW: 64.1 kDa

PAK proteins, a family of serine/threonine p21-activating kinases, include PAK1, PAK2, PAK3 **Gene Summary:**

and PAK4. PAK proteins are critical effectors that link Rho GTPases to cytoskeleton

reorganization and nuclear signaling. They serve as targets for the small GTP binding proteins

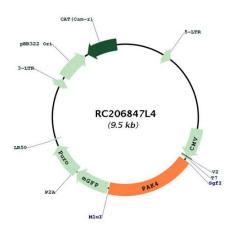
Cdc42 and Rac and have been implicated in a wide range of biological activities. PAK4

interacts specifically with the GTP-bound form of Cdc42Hs and weakly activates the INK family

of MAP kinases. PAK4 is a mediator of filopodia formation and may play a role in the reorganization of the actin cytoskeleton. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]



Product images:



Circular map for RC206847L4