

Product datasheet for RR203432L3

Pak7 (NM_001107781) Rat Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Pak7 (NM_001107781) Rat Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Pak7

Synonyms: PAK-5; PAK-7; Pak5

Mammalian Cell Puromycin

Selection:

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

Sgfl-Mlul

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

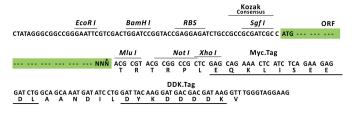
ORF Nucleotide The ORF insert of this clone is exactly the same as(RR203432).

Sequence:

1-----

Restriction Sites: Cloning Scheme:





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

ACCN: NM_001107781

ORF Size: 2154 bp



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

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

Pak7 (NM_001107781) Rat Tagged Lenti ORF Clone - RR203432L3

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 001107781.1</u>, <u>NP 001101251.1</u>

 RefSeq Size:
 4040 bp

 RefSeq ORF:
 2157 bp

 Locus ID:
 311450

 UniProt ID:
 D4A280

 Cytogenetics:
 3q36

Gene Summary: Serine/threonine protein kinase that plays a role in a variety of different signaling pathways

including cytoskeleton regulation, cell migration, proliferation or cell survival. Activation by various effectors including growth factor receptors or active CDC42 and RAC1 results in a conformational change and a subsequent autophosphorylation on several serine and/or threonine residues. Phosphorylates the proto-oncogene RAF and stimulates its kinase activity.

Promotes cell survival by phosphorylating the BCL2 antagonist of cell death BAD.

Phosphorylates CTNND1, probably to regulate cytoskeletal organization and cell morphology. Keeps microtubules stable through MARK2 inhibition and destabilizes the F-actin network

leading to the disappearance of stress fibers and focal adhesions (By similarity).

[UniProtKB/Swiss-Prot Function]