

## Product datasheet for **RR203432L3V**

### **Pak7 (NM\_001107781) Rat Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	Pak7 (NM_001107781) Rat Tagged ORF Clone Lentiviral Particle
Symbol:	Pak7
Synonyms:	PAK-5; PAK-7; Pak5
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_001107781
ORF Size:	2154 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RR203432).
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_001107781.1</a> , <a href="#">NP_001101251.1</a>
RefSeq Size:	4040 bp
RefSeq ORF:	2157 bp
Locus ID:	311450
UniProt ID:	<a href="#">D4A280</a>
Cytogenetics:	3q36



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**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]