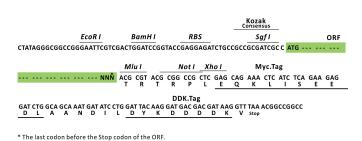


Product datasheet for RC225947L1

PAK1 (NM_001128620) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids Product Name: PAK1 (NM_001128620) Human Tagged Lenti ORF Clone Tag: Myc-DDK Symbol: PAK1 Synonyms: alpha-PAK; IDDMSSD; p65-PAK; PAKalpha Mammalian Cell None Selection: Vector: pLenti-C-Myc-DDK (PS100064) E. coli Selection: Chloramphenicol (34 ug/mL) The ORF insert of this clone is exactly the same as(RC225947). **ORF** Nucleotide Sequence: **Restriction Sites:** Sgfl-Mlul **Cloning Scheme:** Cloning sites used for ORF Shuttling: ORF Sqf I Mlu I --- GCG ATC GC C ATG --- //--- NNN ACG CGT ---



ACCN: NM_001128620 ORF Size: 1659 bp

OriGene Technologies, Inc.

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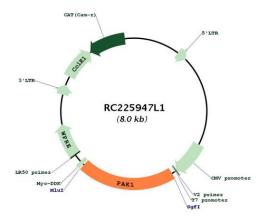
	(1 (NM_001128620) Human Tagged Lenti ORF Clone – RC225947L1
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <u>More info</u>
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 Metho	 Dd: 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 001128620.1</u>
RefSeq ORF:	1662 bp
Locus ID:	5058
UniProt ID:	<u>Q13153</u>
Cytogenetics:	11q13.5-q14.1
Protein Families:	Druggable Genome, Protein Kinase, Stem cell - Pluripotency
Protein Pathways:	Axon guidance, Chemokine signaling pathway, Epithelial cell signaling in Helicobacter pylori infection, ErbB signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, MAPK signaling pathway, Natural killer cell mediated cytotoxicity, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway
MW:	61.5 kDa

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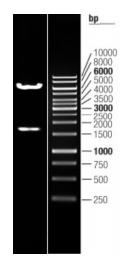
Section 2011 PAK1 (NM_001128620) Human Tagged Lenti ORF Clone – RC225947L1

Gene Summary:This gene encodes a family member of serine/threonine p21-activating kinases, known as PAK
proteins. These proteins are critical effectors that link RhoGTPases to cytoskeleton
reorganization and nuclear signaling, and they serve as targets for the small GTP binding
proteins Cdc42 and Rac. This specific family member regulates cell motility and morphology.
Mutations in this gene have been associated with macrocephaly, seizures, and speech delay.
Overexpression of this gene is also reported in many cancer types, and particularly in breast
cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug
2020]

Product images:



Circular map for RC225947L1



Double digestion of RC225947L1 using Sgfl and Mlul

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