

# Product datasheet for RC202302L4

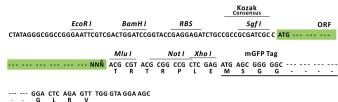
# PAK4 (NM\_005884) Human Tagged Lenti ORF Clone

# **Product data:**

### OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	PAK4 (NM_005884) Human Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	PAK4
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC202302).
<b>Restriction Sites:</b>	Sgfl-Mlul
Cloning Scheme:	Cloning sites used for ORF Shuttling: Sgf I ORF Miu I GCG ATC GC ATG// NNŇ ACG CGT



\* The last codon before the Stop codon of the ORF.

ACCN: ORF Size: NM\_005884 1773 bp



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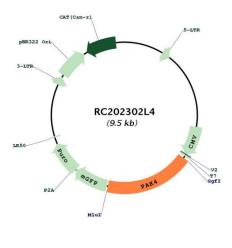
PAK4 (NM_005884) Human Tagged Lenti ORF Clone – RC202302L4	
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability 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	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	<u>NM 005884.3</u>
RefSeq Size:	2838 bp
RefSeq ORF:	1776 bp
Locus ID:	10298
UniProt ID:	<u>O96013</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

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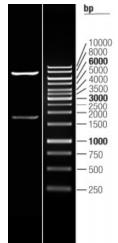
## Section 2012 PAK4 (NM\_005884) Human Tagged Lenti ORF Clone – RC202302L4

# Gene Summary:PAK proteins, a family of serine/threonine p21-activating kinases, include PAK1, PAK2, PAK3<br/>and PAK4. PAK proteins are critical effectors that link Rho GTPases to cytoskeleton<br/>reorganization and nuclear signaling. They serve as targets for the small GTP binding proteins<br/>Cdc42 and Rac and have been implicated in a wide range of biological activities. PAK4<br/>interacts specifically with the GTP-bound form of Cdc42Hs and weakly activates the JNK family<br/>of MAP kinases. PAK4 is a mediator of filopodia formation and may play a role in the<br/>reorganization of the actin cytoskeleton. Multiple alternatively spliced transcript variants<br/>encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

# **Product images:**



Circular map for RC202302L4



Double digestion of RC202302L4 using Sgfl and Mlul

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