

Product datasheet for RC225956L3

OriGene Technologies, Inc.

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PAK3 (NM_001128173) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: PAK3 (NM_001128173) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: PAK3

Synonyms: ARA; beta-PAK; bPAK; MRX30; MRX47; OPHN3; PAK-3; PAK3beta

Mammalian Cell

Selection:

Puromycin

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

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

ORF Nucleotide

The ORF insert of this clone is exactly the same as(RC225956).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



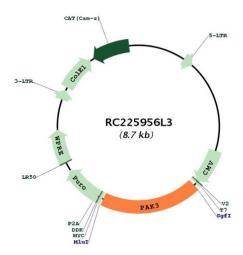


 $[\]ensuremath{^*}$ The last codon before the Stop codon of the ORF.





Plasmid Map:



ACCN: NM_001128173

ORF Size: 1677 bp

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: NM 001128173.1

RefSeq ORF: 1680 bp

Locus ID: 5063



PAK3 (NM_001128173) Human Tagged Lenti ORF Clone - RC225956L3

UniProt ID: <u>O75914</u>

Cytogenetics: Xq23

Protein Families: Druggable Genome, Protein Kinase, Stem cell - Pluripotency

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

Renal cell carcinoma, T cell receptor signaling pathway

MW: 62.1 kDa

Gene Summary: The protein encoded by this gene is a serine-threonine kinase and forms an activated

complex with GTP-bound RAS-like (P21), CDC2 and RAC1. This protein may be necessary for dendritic development and for the rapid cytoskeletal reorganization in dendritic spines associated with synaptic plasticity. Defects in this gene are the cause of a non-syndromic form of X-linked intellectual disability. Alternatively spliced transcript variants encoding different

isoforms have been identified. [provided by RefSeq, Jul 2017]