

## Product datasheet for **RC225963L4V**

### PAK3 (NM\_001128172) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | PAK3 (NM_001128172) Human Tagged ORF Clone Lentiviral Particle   |
| Symbol:                   | PAK3   |
| Synonyms:                 | ARA; beta-PAK; bPAK; MRX30; MRX47; OPHN3; PAK-3; PAK3beta  |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)  |
| Tag:                      | mGFP   |
| ACCN:                     | NM_001128172   |
| ORF Size:                 | 1695 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC225963).   |
| 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_001128172.1</a>   |
| RefSeq ORF:               | 1698 bp  |
| Locus ID:                 | 5063   |
| UniProt ID:               | <a href="#">O75914</a>   |
| 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   |



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**MW:** 62.7 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]