

Product datasheet for **RC226088**

PAK6 (NM_001128628) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAK6 (NM_001128628) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PAK6
Synonyms:	PAK-5; PAK-6; PAK5; PAK6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC226088 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTCCGCAAGAAAAGAAGAAACGCCCTGAGATCTCAGCGCCACAGAACTTCCAGCACCGTGTCCACA
 CCTCCTTCGACCCCAAAGAAGGCAAGTTTGTGGGCCTCCCCACAATGGCAGAACATCCTGGACACT
 GCGGCGCCCAAGCCCGTGGTGGACCTTCGCGAATCACACGGGTGCAGCTCCAGCCATGAAGACAGTG
 GTGCGGGGCAGCGCATGCCTGTGGATGGCTACATCTCGGGGCTGCTCAACGACATCCAGAAGTTGTGAG
 TCATCAGTCCAACACCTGCGTGGCCGACGCCACCAGCCGGCGGGGCACAGTCCCTGGGGCTGCT
 GGGGGATGAGACTGGGCCACCGACCCAGACATGTACCTCCAGAGCCCCAGTCTGAGCGCACTGACCCC
 CACGGCTCTACCTCAGTGAACGGGGCACACCAGCAGGCCACAAGCAGATGCCGTGGCCGAGCCAC
 AGAGCCACGGGTCTGCCAATGGGCTGGCTGCAAAGGCACAGTCCCTGGGCCCGCCGAGTTTCAGGG
 TGCTCGCAGCGTGTCTGCAGTGGGTGCTGCCTGCAGAGTCCCCACCAGGAGCTCGCCCCCAGC
 GGCACCAATAGGCATGGAATGAAGGCTGCCAAGCATGGCTCTGAGGAGGCCCGGCCACAGTCTGCCTGG
 TGGGCTCAGCCACAGGCAGGCCAGGTGGGGAAGGCAGCCCTAGCCCTAAGACCCGGGAGAGCAGCCTGAA
 GCGCAGGCTATTCGAAGCATGTTCTGTCCACTGCTGCCACAGCCCCTCCAAGCAGCAGCAAGCCAGGC
 CCTCCACCACAGAGCAAGCCCAACTCCTCTTCCGACCGCCGAGAAAGACAACCCCAAGCCTGGTGG
 CCAAGGCCAGTCTTGCCTCGGACCAGCCGGTGGGGACCTTCAGCCCTCTGACCACTTCGGATACCAG
 CAGCCCCCAGAAGTCCCTCCGCACAGCCCCGGCCACAGGCCAGCTTCCAGGCCGTTTCCCCAGCGGGA
 TCCCCCGCACCTGGCAGCCCAGATCAGCACCAGCAACCTGTACCTGCCCCAGGACCCACGGTTGCCA
 AGGGTCCCTGGTGGTGGGACACAGGTGTTGTGACACATGAGCAGTTCAAGGCTGCGCTCAGGATGGT
 GGTGGACCAGGGTGACCCCGGCTGCTGTGGACAGTACGTGAAGATTGGCGAGGGCTCCACCGGCATC
 GTCTGTTGGCCCGGAGAAGCACTCGGGCCGCCAGGTGGCCGTCAAGATGATGGACCTCAGGAAGCAGC
 AGCGCAGGGAGCTGCTCTCAACGAGGTGGTATCATGCGGGACTACCAGCACTTCAACGTGGTGGAGAT
 GTACAAGAGCTACCTGGTGGCGAGGAGCTGTGGGTGCTCATGGAGTTCTGCAGGGAGGAGCCCTCACA
 GACATCGTCTCCAAGTCAGGCTGAATGAGGAGCAGATTGCCACTGTGTGTGAGGCTGTGCTGCAGGCC
 TGGCTACCTGCATGCTCAGGTGTCATCCACCGGACATCAAGAGTGACTCCATCCTGCTGACCCTCGA
 TGGCAGGGTGAAGCTCTCGGACTTCGGATTCTGTGCTCAGATCAGCAAAGACGTCCCTAAGAGGAAGTCC
 CTGGTGGGAACCCCTACTGGATGGCTCCTGAAGTGATCTCCAGGTCTTTGTATGCCACTGAGGTGGATA
 TCTGGTCTCTGGGCATCATGGTATTGAGATGGTATGAGGGAGCCACCGTACTTCAAGTACTCCCCAGT
 GCAAGCCATGAAGAGGCTCCGGGACAGCCCCCACCAGCTGAAAACTCTCACAAGGTCTCCCCAGTG
 CTGCGAGACTTCTGGAGCGGATGCTGGTGCGGGACCCCAAGAGAGAGCCACAGCCAGGAGCTCCTAG
 ACCACCCCTTCTGTGCAGACAGGGCTACCTGAGTGCCTGGTGGCCCTGATCCAGCTCTACCGAAAGCA
 GACCTCCACCTGC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226088 protein sequence
Red=Cloning site Green=Tags(s)

MFRKKKKRPEISAPQNFQHRVHTSFDPKEGKFVGLPPQWQNI~~LDL~~RRPKPVVDPSRITRVQLQPMKTV
 VRGSAMPVDGYISGLLNDIQKLSVISSN~~TLRGRSPT~~SRRAQSLGLLGDEHWATDPMYLQSPQSERTDP
 HGLYLSCNGGTPAGHKQMPWPEPQSPRVL~~PNGLA~~AKAQLGPAEFQASQRCLQLGACLQSSPPGASPT
 GTNRHGMKA~~AHKGSEE~~EARPQ~~SCLVGSAT~~GRPGGEGSPSPK~~TRESSL~~KRRLFRSMFLSTAATAPPSSSKPG
 PPPQSKPNSSFRPPQKDNPPSLVAKAQLSPSDQPVGTF~~SPL~~TSDTSSPQKSLRTAPATGQLPGRSSPAG
 SPRTWHAQISTSNLYLPQDPTVAKGALAGEDTGVVTHEQFKAALRMVVDQGPRL~~LLDSYV~~KIGEGSTGI
 VCLAREKHSGRQVAVK~~MDLRKQ~~RRELLFNEVIMRDYQHFNVEMYKSYLVGEELWVLMFLQGGALT
 DIVSQVRLNEEQIATVCEAVLQALAYLHAQGV~~IHRDIK~~SDSILLTLDGRVKLSDFGCAQISKDVPKRKS
 LVGTPYWMPEVISRSLYATEVDIWSL~~GIMVIEMVD~~GEPYPYSDSPVQAMKRLRDSPPP~~KLKNSH~~KVSPV
 LRDFLERMLVRDPQERATAQELLDHPFLLQTGLPECLVPLIQLYR~~Q~~TSTC

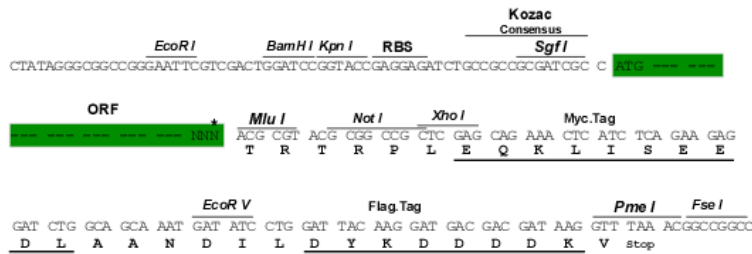
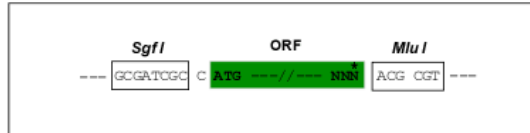
TRTRPLEQKLISEEDLANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6140_e03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001128628

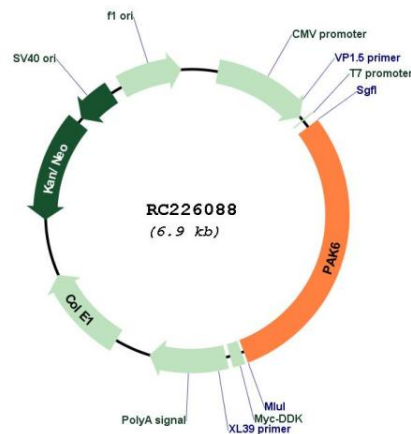
ORF Size: 2043 bp

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](#)

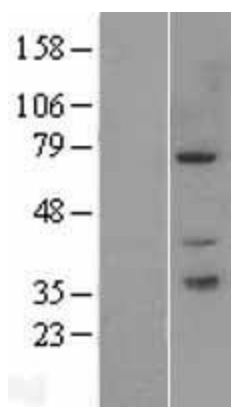
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

- 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_001128628.2](#), [NP_001122100.1](#)
- RefSeq Size:** 3891 bp
- RefSeq ORF:** 2046 bp
- Locus ID:** 106821730
- UniProt ID:** [Q9NQJ5](#)
- Cytogenetics:** 15q15.1
- MW:** 74.9 kDa
- Gene Summary:** This gene represents readthrough transcription between the genes BUB1B (mitotic checkpoint serine/threonine-protein kinase BUB1 beta) and PAK6 (serine/threonine-protein kinase PAK 6). The protein encoded by the readthrough transcripts is the same as the product of the downstream gene (PAK6). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]

Product images:



Circular map for RC226088



Western blot validation of overexpression lysate (Cat# [LY426985]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226088 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).