

Product datasheet for **RR208402**

Pak3 (NM_019210) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pak3 (NM_019210) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pak3
Synonyms:	beta-PAK
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR208402 representing NM_019210
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCTGACAGCTTGATAACGAAGAAAACTCCAGCTCCCCACTGAGGATGAACAGTAAACACCGAG
 ATTCTTCAGCACTCAACACAGCTCCAAACCACTGCCCATGGCCCCGGAAGAGAAGAATAAGAAAGCCAG
 GCTTCGCTCTATCTCCAGGAGGAGGGGATAAAACCAATAAGAAGAAAGAGAAAGAACGCCAGAGATC
 TCTCTTCTTCAGACTTTGAGCATAAGTTCATGTGGGTTTTGATGCAGTCACCGGGGAATTCAGTGGAA
 TTCCTGAACAATGGGCTCGACTGCTCAAACCTCCAACATTACAAAAGTGAACAGAAGAAGAACCCACA
 GGCTGTTCTGGATGTTCTCAAGTTTACGACTCCAAAGAAACAGTCAACAACAGAAATACATGAGCTTT
 ACATCAGGAGATAAAAGTCCCATGGATATATAGCAGCACATCAGTCGAATACAAAACAGCTTCAGAAC
 CTCCTTTGGCTCCTCTGTATCTGAAGAAGAGGATGAAGAAGAGGAAGAGGAAGAAGATGATAATGAGCC
 CCCGCCTGTCATTGCACCAAGACCAGAGCATACAAAATCAATCTATACTGTTCTGTGGTTGAGTCAATT
 GCTTCACCAGCAGCACCAATAAAGAAGCCACCCACCTTCTGCTGAGAAATGCCAATTCAGTACTTTGT
 ACAGGAATACAGATCGGCAAAGAAAAAATCCAAGATGACAGATGAGGAGATCCTAGAGAAGCTAAGAAG
 CATTGTGAGTGTGGGGACCCAAAGAAGAAATATAACAAGATTTGAAAAATTTGGCCAAGGGGCATCAGGA
 ACTGTTTACACAGCACTAGACATTGCGACAGGACAAGAGGTGGCTATAAAGCAAATGAACCTTCAACAGC
 AGCCAAAAAGGAATTAATTAATGAATTTCTTGTATGAGGGAAAAAAGAACCCTAATTTGTCAA
 TTTATTTAGATAGTACTTAGTGGGTGATGAAGTGGGTAGTCAATGGAATACTTGGCTGGTGGCTTTTG
 ACTGACGTGGTCACAGAACTGTATGGATGAAGGACAGATAGCAGCCGCTGTAGAGAGTGCCTCCAAG
 CTTTGGATTTCTGCACTCAAACCAAGTATCCACAGAGATATAAAGAGTGAACAATTTCTCCTCGGGAT
 GGATGGTTCTGTTAAACTGACTGATTTTGGATTCTGTGCCAAATCACTCCTGAGCAAAGTAAACGAAGC
 ACTATGGTGGAACTCCCTATTGGATGGCACCTGAGGTGGTAACTCGAAAAGCTTATGGCCCGAAAGTTG
 ATATCTGGTCTCTGGGAATCATGGCCATTGAAATGGTGGAAAGTGAACCCCTTACCTTAATGAAAAATCC
 ACTCAGGGCCTTATCTGATAGCCACTAATGAAACCCAGAGCTCCAGAATCCCAGAGACTGTCAGCT
 GTATTCGCTGACTTCTTAAATCGCTGTCTTGGATGGATGTGGATAGACGAGGGTCTGCCAAGGAGCTTT
 TGCAGCATCCATTTTAAATAGCCAAGCCCTGTCCAGCCTCACTCCTGATTCTTGTGCAAAGGA
 AGCCATTAAGAACAGTAGCCGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208402 representing NM_019210
 Red=Cloning site Green=Tags(s)

MSDSLDNEEKPPAPPLRMNSNDRDSSALNHSSKPLPMAPEEKNKKARLRSIFPGGGDKTNKKKEKERPEI
 SLPSDFEHTIHVGFDAVTGEFTGIPEQWARLLQTSNITKLEQKKNPQAVLDVLFYDSKETVNNQKYMFS
 TSGDKSAHGYIAAHQSNTKTASEPPLAPPVSEEEDEEEEEEDDNEPPPVIAPRPEHTKSIYTRSVVESI
 ASPAAPNKEATPPSAENANSSTLYRNTDRQRKSKMTDEEILEKLRISIVSGDPKKKYTRFEKIGQGASG
 TVYTALDIATGQVEAIKQMNLLQQPKKELIINEILVMRENKNPNIVNYLDSYLVGDELWVMEYLAGGSL
 TDVVTETCMDEGQIAAVCRECLQALDFLHNSQVIHRDIKSDNILLGMDGSVKLTDFGFCAQITPEQSKRS
 TMVGTPYMAPEVVTRKAYGPKVDIWSLGIMAIEMVEGEPYLNENPLRALYLIATNGTPELQNERLSA
 VFRDFLNRCLMDVDRRGSAKELLQHPFLKLAKPLSSLTPLILAAKEAIKNSSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

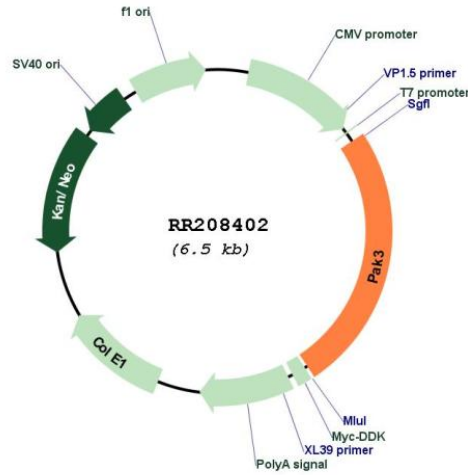
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_019210
ORF Size:	1632 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:	<ol style="list-style-type: none">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_019210.1 , NP_062083.1
RefSeq Size:	2157 bp
RefSeq ORF:	1635 bp
Locus ID:	29433
UniProt ID:	Q62829
Cytogenetics:	Xq33
MW:	60.7 kDa
Gene Summary:	displays GTP-p21 mediated protein kinase activity [RGD, Feb 2006]