

Product datasheet for **RR202028**

Pak6 (NM_001106498) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pak6 (NM_001106498) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pak6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR202028 representing NM_001106498
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTCCGAAAGAAGAAGAAGAAACGCCCTGAGATATCAGCCCCACAGAAGCTCCAGCACCGTGTTCACA
 CCTCATTTGACCCCAAGGAAGGCAAGTTCGTGGGCCTGCCCCACAATGGCAGAACATCCTGGATACTCT
 GAGGCGGCCCAAGCCTGTGGTGGATCCTTCTCGAATCACACGGGTGCAGTTGCAGCCCATGAAGACGGTA
 GTACGGGGCAGCTCAGTGCCACAGAGGGCTACATCTCCGGGCTGCTCAATGACATTAGAAGTTGTGAG
 CTATCAGTCCAACACTCTGCGTGGACGCAGCCCCACCAGCCGGCGGGGCACAGTCCCTGGGGCTGCT
 AGGAGATGATCAGTGGGCGGCTGACCCGGATATGTACCTCAAAGTCTCAGTCTGAGCGCACTGATCCC
 CATGGCGTCTACCTCAGTGTAAATGGGGGCACACCAGCAGGTACAGGCAAACGCCATGGCCAGAACCAC
 AGAGCCACAGGCCCTGCCAATGGCATGGCTGCCAAGGCACAGTCGCTGGGCCCGCTGAGTTCAGGG
 TGCTCCCAACGCTGCCTGCAGTGGGTGCCTGCCTACAGAGTCCCCACCTGGTACCTCACCCCTATG
 GCCACAGGGAGGCGTGGGGTGAAGGTTACCAAGCATAGCTCGGAAGAGGCTCGACCACAATCTTGCCTGG
 TGGGCTCAGCCATTGGCAGACCAGGTGGAGAAGGCAGCCCCAGCCCTAAGACCCAGGAAAGCAGCCCTCAA
 GCACCGGCTCTTCCGAGCATGTTCTGTCCACTCCCAGCACAGGCTCTGCAAGCAGCAGCAAGCCGGTCT
 CCTCTGCCACAGAACAAGCTCAATTCTGCTTCCGACCACCACAAAAAGATTCTCTTAAACCTGGTAG
 CCAAGGCCAGTCTTGGCCTCAGATCAGCCCACGGGGACCTTCAGTCTCTGACCACCTCAGATACCAG
 CAGTCCCAGAAGTCCCTCCGCACAGCCCCAGCCACTGGTCCACTTCCAGGCCGGTCTTCTCCAGCAGGC
 TCCCCCGCACCCGGCATGCCAGATCAGCACCAGCAATCTATACCTGCCACAGGCCACAGTGGCCA
 AGGGGGCCCTGGGTGGCGAAGACACAGGCATCGTAACACATGAGCAGTTCAAAGCTGCGTCAAGATGGT
 GGTGGACCAGGGTGACCTCGGCTGCTGCTGGACAGCTATGTGAAGATTGGGGAGGCTCCACGGGCATT
 GTGTGTCTGGCCCGGAGAAGCATTAGGTGCGCCAGGTAGCAGTCAAGATGATGGACCTCAGAAAGCAGC
 AACGCAGGGAAGTCTCTTAAATGAGGTGGTATCATGCGTGACTACCAGCACCTCAATGTGGTGGAGAT
 GTACAAGAGTTACCTGGTAGGAGAGGAGCTGTGGGTGCTGATGGAGTTCTGCAGGGCGGGGCCCTCACA
 GACATCATCTCCAAGTCAGACTCAATGAGGAACAGATTGCTACTGTGTGAAGCTGTGCTTACGGCCT
 TGGCTTACCTGCACGCCAGGGTGTATCCACCGAGACATCAAGAGTGATTCCATCCTGCTGACCCTTGA
 TGGCAGGGTGAAGCTCTCAGACTTGGGTCTGTGCTCAGATCAGCAAAGATGTCCCAAGAGAAAGTCT
 CTCGTAGGAAGTCCATACTGGATGGCTCCTGAGGTGATCTCCAGATCCCTGTACGCTACTGAGGTGGATA
 TCTGGTCTCTGGGCATCATGGTATTGAGATGGTGGATGGAGAACCCCTTACTTACGCGACTCCCAGT
 GCAAGCCATGAAGAGGCTCCGGGACAGCCCCCACCAGCTAAAGAACTCTTACAAGGTCTCTCCAGTG
 CTGCGAGACTTCTGGAACGAATGCTGGTACGGGAACCCCAAGAGAGAGCCACAGCCAGGAGCTCCTGG
 ATCACCCCTTCTGCTGCAGACGGGGCTGCCGAGTGTCTGGTGCCTCTGATACAGCTCTACCGCAAGCA
 GACCTCCACCTGC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR202028 representing NM_001106498
Red=Cloning site Green=Tags(s)

MFRKKKKRPEISAPQNFQHRVHTSFDPKKEGKVFGLPPQWQNILDLRRPKPVVDPISRITRVQLQPMKTV
 VRGSSVPTTEGYISGLLNDIQKLSAISSNTLRGRSPTSRRAAQLGGLGDDQWAADPDMYLQSPQSERTDP
 HGVYVLSVSCNGGTPAGHRQTPWPEPQSPQALPNGMAAKAQLGPAEFQASQRCQLGACLQSSPPGTSPPM
 ATGRRGVKVTKHSSEEARPQSCLVGSALGRPGGEGSPSKTQESSLKHRLFRSMFLSTPATGSASSSKPV
 PLPQNKLNSAFRPPQKDSNNLVAKAQLPSDQPTGTF SPLTTSSTSSPQKSLRTAPATGPLPGRSSPAG
 SPRTRHAQISTSNLYLPQDPTVAKGALGGEDTGI VTHEQFKAALRMVVDQDPRLLLLDSYVKIGEGSTGI
 VCLAREKHSRQVAVKMMDLRKQQRRELLFNEVIMRDYQHLNVVEMYKSYLVGEELVWLMEFLQGGALT
 DIISQVRLNEEQIATVCEAVLQALAYLHAQVGIHRDIKSDSILL TLDGRVKLSDFGFCAQISKDVPKRKS
 LVGTPYWMPEVISRSLYATEVDIWSLGIEMVMDGEPYPYSDSPVQAMKRLRDSPPPPLKNSYKVSVP
 LRDFLERMLVREPQERATAQELLDHPFLLQTGLPECLVPLIQLYRKQTSTC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001106498

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_001106498.1](#), [NP_001099968.1](#)

RefSeq Size: 2729 bp

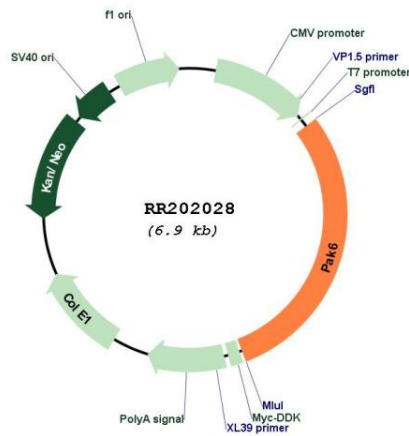
RefSeq ORF: 2046 bp

Locus ID: 296078

Cytogenetics: 3q35

MW: 74.8 kDa

Product images:



Circular map for RR202028