

## Product datasheet for RN213438

### Pkn2 (NM\_001105755) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pkn2 (NM_001105755) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Pkn2
Synonyms:	Pak-2; Prkcl2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN213438 representing NM_001105755 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGTCCAACCCCGACCGGGGGGAGATCCTCCTCACGGAGCTGCAGGGAGATCCCGACCTCTCCAT  
TTTCTGAGAATGTGAGTGTCTGTTAGAAATAGACTTTTCAGATACAATAGTGCAACAGAAATGGATGA  
CGTCAAGGATCGAATAAGAGAGAAAATAAGGAAAGAACTGAAAATCAAAGAAGGAGCTGAAAACCTGAGG  
AAAGTTACAACAGATAAGAAAAATTTGGCTTATGTAGACAACATTTTGAAAAAGTCAAATAAAAAATTAG  
AAGAATTACATACAAGCTACAAGAATTAATGCACACATTGTTGTATCGGATCCAGAGGACTCTGCAGA  
TTGTCCGAGGACTCCAGATACTCCAATAGTGACTCTCGTAGTTCTACTAGCAACAATAGATTGATGGCC  
TTACAGAAAACACTGGATATAGAACTTAAAGTAAAGCAAGGTGCAGAGAACATGATACAGATGTACTCAA  
ATGGCCCTTCAAAGGATCGGAACTCCATGGTACAGCTCAGCAACTGCTCCAGGATAGCAAGACAAAAAT  
AGAAGTCATCCGAATGCAGATTCTTCAGGCCGTCCAGACCAATGAGCTGGCTTTTGATAATGCAAAACCT  
GTGATAAGCCCTCTTGAGCTTCAATGGAAGAATTAAGACATCATTTTAGGATAGAATTTGCAGTAGCCG  
AAGGTGCAAAGAATGTCATGAAATTAAGTGGCTCAGGAAAAGTAAACAGACAGAAAAGCGCTTTGAGAAGC  
CCAAGCAAGATTTAATGAATCAAGTCAAGTGGACCTTTTAAAATATCACTAGAGCAGAGGTTAAAT  
GAACTCCCAAGAATCACCCAAAAGCAGTGTGTCATTGAGGAGCTCTCCCTGTTGATCGCCAACCC  
TGAGTCCACGACAGAGTATGCTGTCCACGACAACAGTACAGCACACTGTCCAAGCCAGCAGCACTAAC  
CGTACTTTGGAAGTTCGTCTCATGGGGTGCCAAGATATCCTGGAGAATGTCCTGGACGGTCAAAAAGCG  
ACATCCGTAGCACTGCCTGGATGGAGTCCAAGTAAAACAGATCATCGTTTATGAGCAGAACTAGTAAAA  
GTAAAAGTGAAGCAGTCGCAACCTCCTGAAAACCGACGACTTGTCCAATGATGTTTGTGCTGTTTTGAA  
GCTAGATAATACTGTGGTTGGTCAAATCTGGAAGCCATTTCCAATCAGTCGTGGGACCAGAAGTTT  
ACACTGGAAGTACAGGTCACGTGAACTGAAATTTTCAATCAGTCGTGGGACCAGAAGTTT  
CTGTAATAATTTCTGAGGTTAGAAGATTTTGTAGACAACCGGCGATGGCATGTGTCTCTATTTGGAACC  
ACAGGGTACTTTGTTGAGAGGTTACTTTTTTAAATCCAGTTATTGAAAGACGACCAAACTCCAAGA



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CAAAGAAAATTTTTCAAACAACAAGGCAAAACATTTCTCAGAGCCCCTCAAATGAATATTAATATTG
CCACTTGGGGAAGGCTAGTGAGACGAGCTATCCACAGTAAATCATTCTGGCACGTTCCAGCCCTCAGAC
TCCTGTGCCCGCTACAGTGCCAGTGGTGGATGCACGCACTCCTGAACTCGCACCTCCAGCCAGTGATTCT
ACAGTAACCAAATGGACTTTGATCTTGAACCTGAAGCTCCTCCAGCCCCACCACGTGCTTCTCCCTTG
GAGAGATAGATGACTCTTCTGAATTGAGAGTTTGGATACCTGGACAGGGTTCAGAACTGTTTTCGA
TATTGAGAATGACAGAAAACATGCGTCCAAAATCCAAATCTGAATATGAGCTTAACATTCCTGACTCA
AGTCGAAGCTGTTGGAGTGTGGAGAACTTGAGGACAAGAGATCTCAACAGAGGTTTCAGTTAATCTAC
AAGACTTCAGGTGCTGTCTGTCTTGGGAGAGGACACTTGGAAAGGTGCTGTTGGCAGAATATAACA
CACAAATGAAATGTTTGAATAAAAGCCTTAAAGAAAGGGGACATTGTGGCACGAGATGAAGTAGACAGC
TTGATGTGTGAAAAAGAATTTTTGAGACTGTGAACAGTGTCCGGCATCCTTTCCCTAGTGAACCTGTTTG
CATGTTTCCAAACCAAAGAGCATGTTTGTCTTGTGATGGAGTACGCTGCTGGTGGGACCTGATGATGCA
CATCCACACTGACGTCTTCTCTGAACCCAGAGCTGATTTTATGCAGCATGTGTAGTTCTTGATTGCAA
TATTTACATGAACACAAAATTGTTTATAGAGACTTGAAGTTGGATAACCTGTTGCTGGATACAGAAGGCT
TCGTGAAGATTGCTGACTTTGGTCTTTGCAAAGAAGGAATGGGGTATGGAGATAGGACAAGCACATTTTG
TGGTACTCCTGAATTTTGGCCCAAGAAGTATTAACAGAAACGTGTACACAAGGGCTGTAGATTGGTGG
GGCCTTGGCGTACTTATATATGAAATGCTGCTCGGAGAGTCTCCCTTTCCCTGGTATGATGAAGAAGAGG
TTTTTGACAGTATTGTAATGACGAAGTAAGGTATCCAAGTTCTTATCTACAGAAGCCATTTCCATAAT
GAGAAGGCTGTTGAGGAGGAATCCTGAGCGGCCCTGGGAGCTGGTGAGAAAGATGCCGAGGATGTAAGG
AAGCACCCGTTTTTCCGGCTAACCGACTGGAGTGCACACTACTGGACAAGAAAGTAAAGCCACCATTGTAC
CTACCATTAGAGGACGGGAAGATGTTAGTAACTTTGATGATGAATTTACCTCAGAAGCACCTATTCTGAC
TCCCCCTCGAGAACCGAGGATACTCTTGGAGGAGGAGCAGGAGATGTTCCGCGATTTTGACTACGTTGCT
GATTGGTGTAA

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**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-MluI

**ACCN:**

NM\_001105755

**Insert Size:**

2952 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001105755.2](#), [NP\\_001099225.2](#)

**RefSeq Size:**

5592 bp

**RefSeq ORF:**

2952 bp

Locus ID: 207122

Cytogenetics: 2q44

Gene Summary: phospholipid-regulated protein kinase, phosphorylates ribosomal protein S6; may play a role in hepatic regulation [RGD, Feb 2006]