

## Product datasheet for **RR213438**

### Pkn2 (NM\_001105755) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pkn2 (NM\_001105755) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Pkn2  
**Synonyms:** Pak-2; Prkcl2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR213438 representing NM\_001105755  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCGTCCAACCCGACCGGGGGAGATCCTCCTCACGGAGCTGCAGGGAGATTCCCGACCTCTCCAT  
 TTTCTGAGAATGTGAGTGTCTGTTTCAGAAATTAGACTTTTCAGATAACAATAGTGCAACAGAAATTGGATGA  
 CGTCAAGGATCGAATAAAGAGAGAAATAAGGAAAGAAGTCAAAATCAAAGAAGGAGCTGAAAACCTGAGG  
 AAAGTTACAACAGATAAGAAAAATTTGGCTTATGTAGACAACATTTTGAAAAAGTCAAATAAAAAATTAG  
 AAGAATTACATACAAGCTACAAGAATTAATGCACACATTGTTGTATCGGATCCAGAGGACTCTGCAGA  
 TTGTCCGAGGACTCCAGATACTCCAATAGTGACTCTCGTAGTCTACTAGCAACAATAGATTGATGGCC  
 TTACAGAAACAAGTGGATATAGAAGTAAAGTAAAGCAAGGTGCAGAGAACATGATACAGATGACTCAA  
 ATGGCCCTTCAAAGGATCGGAACTCCATGGTACAGCTCAGCAACTGCTCCAGGATAGCAAGACAAAAAT  
 AGAAGTCATCCGAATGCAGATCTTCAGGCCGTCAGACCAATGAGCTGGCTTTTGATAATGCAAAACCT  
 GTGATAAGCCCTCTTGAGCTTCGAATGGAAGAATTAAGACATCATTTTAGGATAGAATTTGCAGTAGCCG  
 AAGGTGCAAAGAATGCATGAAATTAAGTGGCTCAGGAAAAGTAAACAGACAGAAAAGCGCTTTTCAGAAAG  
 CCAAGCAAGATTTAATGAATCAAGTCAGAAAGTTGGACCTTTTAAAAATTTCACTAGAGCAGAGGTTAAAT  
 GAACTCCCAAGAATCACCCCAAAGCAGTGTCGTCATTGAGGAGCTCTCCCTTGTGTCATCGCCAAACCC  
 TGAGTCCACGACAGAGTATGCTGTCCACGACAGAACAGTACAGCACACTGTCCAAGCCAGCAGCACTAAC  
 CGGTACTTTGGAAGTTCGTCTCATGGGGTGCCAAAGATATCCTGGAGAATGTCCCTGGACGGTCAAAGCG  
 ACATCCGTAGCACTGCCTGGATGGAGTCCAAGTAAAACAGATCATCGTTTATGAGCAGAACTAGTAAAA  
 GTAAAAGTGAAGCAGTCGCAACCTCCTGAAAACCGACGACTGTCCAATGATGTTTGTGCTGTTTTGAA  
 GCTAGATAAATACTGTGGTTGGTCAAACATCTGGAAGCCATTTCCAATCAGTCGTGGGACCAGAAGTTT  
 AACTGGAAGTACAGGTCACGTGAAGTGGAAATTTTCAGTTTATTGGCGTGATTGGAGATCTCTGTGTG  
 CTGTAATAATTTCTGAGGTTAGAAGATTTTTAGACAACCGGATGGCATGTGTCTCTATTTGGAACC  
 ACAGGGTACTTTGTTTGCAGAGGTTACTTTTTTAAATCCAGTTATTGAAAGACGACCAAAACTCCAAAGA  
 CAAAAGAAAATTTTTTCAAACAACAAGGCAAAACATTTCTCAGAGCCCTCAAATGAATATTAATATTG



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CCACTTGGGGAAGGCTAGTGAGACGAGCTATCCACAGTAAATCATTCTGGCACGTTTCAGCCCTCAGAC  
 TCCTGTGCCCGCTACAGTGCCAGTGGTGGATGCACGCACTCCTGAACTCGCACCTCCAGCCAGTGATTCT  
 ACAGTAACCAAATGGACTTTGATCTTGAACCTGAAGCTCCTCCAGCCCCACCAGTGCTTCTTCCCTTG  
 GAGAGATAGTACTCTTCTGAATTGAGAGTTTTGGATATACCTGGACAGGGTTCAGAACTGTTTTCGA  
 TATTGAGAATGACAGAAAACATGCGTCCAAAATCCAAATCTGAATATGAGCTTAACATTCCTGACTCA  
 AGTCGAAGCTGTTGGAGTGTGGAGAACTTGAGGACAAGAGATCTCAACAGAGGTTTCAGTTAATCTAC  
 AAGACTTCAGGTGCTGTGCTGTCTTGGGAGAGGACACTTTGAAAGGTGCTGTTGGCAGAATATAACA  
 CACAAATGAAATGTTTGAATAAAAAGCCTTAAAGAAAGGGGACATTGTGGCACGAGATGAAGTAGACAGC  
 TTGATGTGTGAAAAAGAATTTTTGAGACTGTGAACAGTGTCCGCATCCTTTCTAGTGAACCTGTTTG  
 CATGTTTCCAAACCAAAGAGCATGTTTGTCTTGTGATGGAGTACGCTGCTGGTGGGGACCTGATGATGCA  
 CATCCACACTGACGTCTTCTGTAACCCAGAGCTGTATTTTATGCAGCATGTGTAGTTCTTGGATTGCAA  
 TATTTACATGAACACAAAATTGTTTATAGAGACTTGAAGTTGGATAACCTGTTGCTGGATACAGAAGGCT  
 TCGTGAAGATTGCTGACTTTGGTCTTTGCAAAGAAGGAATGGGGTATGGAGATAGGACAAGCACATTTTG  
 TGGTACTCCTGAATTTCTGCCCCAGAAGTATTAACAGAAACGTCGTACACAAGGGCTGTAGATTGGTGG  
 GGCCTTGGCGTACTTATATATGAAATGCTCGTCGGAGAGTCTCCCTTTCCTGGTGTGATGAAGAAGAGG  
 TTTTTGACAGTATTGAAATGACGAAGTAAAGTATCCAAGTTCTTATCTACAGAAGCCATTTCCATAAT  
 GAGAAGGCTGTTGAGGAGGAATCCTGAGCGGCGCTGGGAGCTGGTGAAGAAGATGCCGAGGATGTAAG  
 AAGCACCCGTTTTTCCGGCTAACCGACTGGAGTGCACACTACTGGACAAGAAAGTAAAGCCACCATTGTAC  
 CTACCATTAGAGGACGGGAAGATGTTAGTAACTTTGATGATGAATTTACCTCAGAAGCACCTATTCTGAC  
 TCCCCCTCGAACCAGGATACTCTTGGAGGAGGAGCAGGAGATGTTCCGCGATTTTGACTACGTTGCT  
 GATTGGTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR213438 representing NM\_001105755  
 Red=Cloning site Green=Tags(s)

MASNPDRGEILLTELQGDSRPLPFSENVSAVQKLDSDTIVQKLLDDVKDRIKREIRKELIKEGAENLR  
 KVTTDDKKNLAYVDNLIKSNKLEELHHKLQELNAHIVVSDPEDSADCPRTPTDTPNSDSRSSTSNRLMA  
 LQKQLDIELKVKQGAENMIQMYSNGPSKDRKLHGTAQQLLQDSKTKIEVIRMQILQAVQTNELAFDNAKP  
 VISPLELRMEELRHHFRIFAVAEGAKNVMKLLGSGKVTDRKALSEAQARFNESSQKLDLLKYSLEQRLN  
 ELPKNHPKSSVVEELSLVASPTLSPRQSMSTQNYSTLSKPAALTGTLEVRLMGCQDILENVPGRSKA  
 TSVALPGWSPENRSSFMSRTSKSKSGSSRNLLKTDDLSDNVCAVLKLDNTVVGQTIWKPISNQSWDQKF  
 TLELDRSRELEISVYWRDWRSLCAVKFLRLEDFLDNQRHGMCLYLEPQGTLEAEVTFNPNVIERPKLQR  
 QKKIFSKQGGKFLRAPQMNINIATWGRLVRRAIPTVNHSGETFSPQTPVPATVPVVDARTPELAPPASDS  
 TVTKLDFDLEPEAPPAPPRASSLGEIDDSSELRLVDIPGQGETVFVDIENDRNMRPKSKSEYELNIPDS  
 SRSCWSVGELEDKRSQRFQFNLQDFRCCAVLGRGHFGKVLLEAYKHTNEMFAIKALKKGDIVARDEVDS  
 LMCEKRIFETVNSVRHPFLVNLFACFQTKHEVCFVMEYAAGGDLMMHIHTDVFSEPRAVFYAACVVLGLQ  
 YLHEHKIVYRDLKLDNLLDTEGFVKIADFGLCKEKGMDYDRTSTFCGTPPEFLAPEVL TETSYTRAVDWW  
 GLGVL IYEMLVGESPFPGDDEEEVFDSIVNDEVRYPRFLSTEAI SIMRLLRRNPERRLGAGEKDAEDVK  
 KHPFFRL TDWSALLDKVKPPFVPTIRGREDVSNFDFDEFTSEAPILTPPREPRILLEEEMFRDFDYVA  
 DWC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

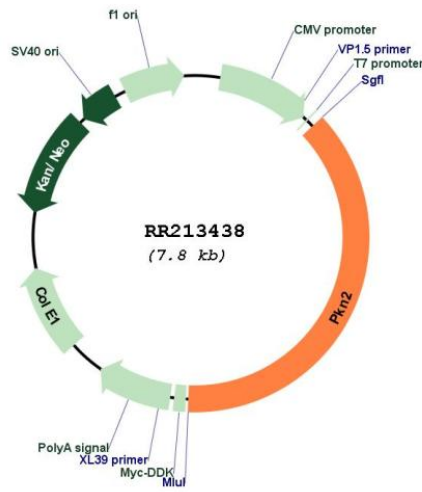
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM\_001105755  
 ORF Size: 2949 bp

<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001105755.2</a> , <a href="#">NP_001099225.2</a>
<b>RefSeq Size:</b>	5592 bp
<b>RefSeq ORF:</b>	2952 bp
<b>Locus ID:</b>	207122
<b>Cytogenetics:</b>	2q44
<b>MW:</b>	111.7 kDa
<b>Gene Summary:</b>	phospholipid-regulated protein kinase, phosphorylates ribosomal protein S6; may play a role in hepatic regulation [RGD, Feb 2006]