

## Product datasheet for **MR218939**

### **Pck2 (NM\_028994) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pck2 (NM_028994) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pck2
Synonyms:	1810010O14Rik; 9130022B02Rik; PEPCK-M
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR218939 representing NM\_028994  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTCCTTCCTTCCCCGCTTCCTTGTCTCCCGACTGCGCTCGTTCTGTGGCCATCCCAGCGCCA  
 GTCCAGGTGCCATGGCTGCTATGTACCTCCCCGGCTGCGGCTTAGCCGGCACGGGCTAAGGCCCTGGTG  
 CTGGTCACCGTGCCGTAGCATCCAACCCTGCATGTGCTCAGTGGAGATATGAGTCAGCTGCCGGTGGA  
 GTTCGAGACTTTGTGGCGCGCAGTGCAGCATCTGTGCCAACAGAGGGCATCCACATCTGTGATGGGACCG  
 AGGCTGAGAACTGCCATACTGGCCCTGCTGGAAGAACAGGGTCTTATCCGAAACTCCCCAAGTATAA  
 GAACTGCTGGCTGGCCCCACAGACCCCAAGGATGTGGCACGGGTAGAAAGCAAGACGGTGATTGTAAC  
 CCTTCGACGGGACACAGTGCCTCTCTGGCTGGTGGGGCCAGGGGCGAGCTGGCAACTGGATGTCCC  
 CAGATGAGTTCAGAGAGCTGTGGACGAGAGATCCCAGGATGCATGCAGGGCCGATTATGTATGTGCT  
 TCCATTACAGATGGGTCCCGTGGGCTCCCCTCTCCCGATTGGAGTGCAGCTCACTGACTCGGCTTAC  
 GTGGTGGCCAGTATGCGTATTATGACCCGCTGGGGACACCTGTACTTCAGGCCCTGGGAGATGGTGACT  
 TCATCAAGTGTCTGCATTAGTGGGCCAGCCCCTGACTGGACATGGGGATCCTGTGGGCCAGTGGCCGTG  
 CAATCCAGAAAAACCTGATTGGCCACGTGCCAGACCAGCGGGAGATCGTCTCCTTCGGCAGCGGCTAT  
 GGTGGTAACTCCTTGTGGGCAAGAAGTCTTTGCCCTGCGCATCGCCTCTCGCTGGCCAGGGATGAGG  
 GCTGGCTGGCAGAGCACATGCTGATTTTGGGCATACCAACCCTGCAGGGAAAAAGCGCTACGTGGCAGC  
 TGCTTTCCCCAGTGCCTGTGGCAAGACCAATCTGGCCATGATGAGGCCTGCATTGCCGGGCTGAAAAGT  
 GAGTGTGTGGGGATGACATCGCCTGGATGAGGTTTGACAGTGAAGGTCAACTCCGGGCCATCAACCCTG  
 AGAATGGCTTCTTTGGGGTGGCCCTGGTACCTCTGCTGCCACCAATCCCAATGCCATGGCCACAATTCA  
 GAGTAATACTCTTTCACCAACGTGGCTGAGACCAGTGTGGCGGTGTGTACTGGGAAGGCATTGACCAG  
 CCTCTTCCGCTGGTGTACCATAACTCGTGGCTGGGAAAGCCCTGGAAACCTGGTGACAAGGAACCTT  
 GTGCACATCCAACTCGCGCTTTTGTGTCCCGCTCGCCAGTGCCCATCATGGACCCAGCCTGGGAAGC  
 ACCAGAAGGTGTCCCTATTGATGCCATCATCTTTGGAGGCCGCGACCCAAAGGGTACCCTGGTGTAC  
 GAGGCCTTCACTGGCGTCATGGGGTGTGTAGGTAGCGCCATGCGCTCTGAGTCCACTGCCGCTGCGG  
 AGCACAAAGGAAAGACCATTATGCATGATCCCTTTGCCATGCGGCCTTTTTTTGGCTATAACTTTGGACG  
 CTACCTGGAACACTGGTTGAGCATGGAGGACAAAAAGGTGCCCGGCTGCCTCGTATCTTCCATGTCAAT  
 TGTTCCGGAGAGATGAAGCAGGCCGCTTCTGTGGCCAGGCTTTGGAGAGAATGCTCGTGTGCTAGACT  
 GGATCTGCCGAAGATTAGAAGGAGAAGACAGTGCCCAAGAGACTCCCATTGGGCTAGTACCAAGGAAGG  
 AGCCCTGGACCTCAGTGGCCTCAGCGCAGTGGACACCAGTCAAGTGTCTCCATCCCAAGGACTTCTGG  
 GAGCAGGAGGTTCTGATATTCCGGGCTACCTGACAGAGCAAGTCAACCAGGACCTGCCAAGGAGGTGT  
 TGGCTGAGCTCGAGGCCCTGGAAGGACGTGTACAAAAATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR218939 representing NM\_028994  
Red=Cloning site Green=Tags(s)

MLLPSPPSLSPRLRSFLWPSRSASPGAMAAMYLPLGLRLSRHGLRPWCWSPCRSIQTLHVLSGDMSQLPAG  
 VRDFVARSAHLCPQEGIHICDGTAEANTAILALLEEQGLIRKLPKYKNCWLARTDPKDVARVESKTIVIT  
 PSQRDTPVLLAGGARGQLGNWMSPDEFQRAVDERFPGCMQGRIMYVLPFSMGPVGSPLSRIGVQLTDSAY  
 VVASMRI MTRLGTPVLQALGDGDFIKCLH SVGQPLTGHGDPVGVQWPCNPEKTLIGHVPDQREIVSFGSGY  
 GGNSLLGKKCFALRIASRLARDEGWLAEHMLILGITNPAGKKRYVAAAFPSACGKTNLAMMRPALPGWKV  
 ECVGDDIAWMRFDSEQLRAINPENGFVGVAPGTSAAATNPAMATIQSNTLFTNVAETS DGGVYWEGIDQ  
 PLPPGVTITSWLGKPKPGDKEPCAHPNSRFCV PARQCPIMDPAWEAPEGVPIDAIIFGRRRPGKGPLVY  
 EAFNWRHGVFVGSAMRSESTAAAEHKGKTI MHDPFAMRPFYGFYNGRYLEHWSMEGQKGARLPRIFHVN  
 WFRRDEAGRFLWPGFGENARVLDWICRRLEGEDSAQETPIGLVPKEGALDLSGLSAVDTSQLFSIPKDFW  
 EQEVRDIRGYL TEQVNQDLPKEVLAELEALEGRVQKM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_028994

**ORF Size:** 2001 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\\_028994.2](#), [NP\\_083270.1](#)

**RefSeq Size:** 3400 bp

**RefSeq ORF:** 1923 bp

**Locus ID:** 74551

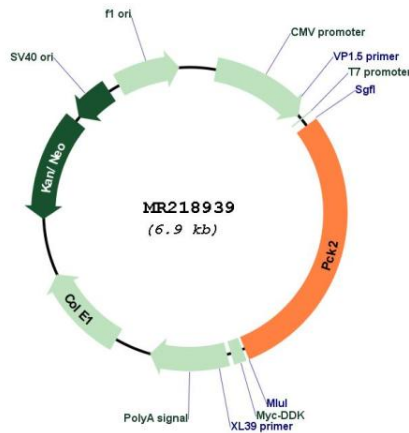
**UniProt ID:** [Q8BH04](#)

**Cytogenetics:** 14 28.19 cM

**MW:** 73.9 kDa

**Gene Summary:** Catalyzes the conversion of oxaloacetate (OAA) to phosphoenolpyruvate (PEP), the rate-limiting step in the metabolic pathway that produces glucose from lactate and other precursors derived from the citric acid cycle.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR218939