

Product datasheet for **MC206641**

Pck1 (BC037629) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pck1 (BC037629) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pck1
Synonyms:	A1265463; Pck-1; PEPCK
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC037629
 CCACGCGTCCGCTGGGAACACACCCTCGGTCAACAGGGGAAATCCGGCAAGGCGCTCAGCGATCTCTGAT
 CCAGACCTTCCAAAAGGAAGAAAGGTGGCACCAGAGTTCTGCCTCTCTCCACACATTGCAATTATGCC
 TCCTCAGCTGCATAACGGTCTGGACTTCTCTGCCAAGGTATCCAGGGCAGCCTCGACAGCTGCCCCAG
 GCAGTGAGGAAGTTCGTGGAAGGCAATGCTCAGCTGTGCCAGCCGAGTATATCCACATCTGCGATGGCT
 CCGAGGAGGAGTACGGGACAGTTGCTGACCCACATGCAGGAGGAGGGTGTATCCGCAAGCTGAAGAAATA
 TGACAACGTGTTGGCTGGCTCTCACTGACCCTCGAGATGTGGCCAGGATCGAAAGCAAGACAGTCATCATC
 ACCCAAGAGCAGAGAGACACAGTCCCCATCCCCAAAAGTGGCCTCAGCCAGCTGGGCCGCTGGATGTCGG
 AAGAGGACTTTGAGAAAGCATTCAACGCCAGGTTCCAGGGTGCATGAAAGGCCGACCATTGATGTCAT
 CCCATTACAGATGGGGCCACTGGGCTCGCCGCTGGCCAAGATTGGTATTGAACTGACAGACTCGCCCTAT
 GTGGTGGCCAGCATGCGGATCATGACTCGGATGGGCATATCTGTGCTGGAGGCCCTGGGAGATGGGGAGT
 TCATCAAGTGCCTGCACTCTGTGGGTGCCCTCTCCCCTAAAAAAGCCTTTGGTCAACAACCTGGGCCTG
 CAACCCTGAGCTGACCCTGATCGCCACCTCCCGACCGCAGAGAGATCATCTCCTTTGGAAGCGGATAT
 GGTGGGAACCTACTACTCGGAAGAAATGCTTTGCGTTGCGGATCGCCAGCCGTCTGGCTAAGGAGGAAG
 GGTGGCTGGCGGAGCATATGCTGATCCTGGGCATAACTAACCCCGAAGGCAAGAAGAAATACCTGGCCGC
 AGCCTTCCCTAGTGCCTGTGGGAAGACCAACTGGCCATGATGAACCCAGCCTGCCCGGTGGAAGGTC
 GAATGTGTGGCGGATGACATCGCCTGGATGAAGTTTGTGCCAAGGCAACTTAAGGGCTATCAACCCAG
 AAAACGGGTTTTTTGGAGTTGCTCCTGGCACCTCAGTGAAGACAAATCCAAATGCCATTAACCCATCCA
 GAAAAACACCATCTTACCAACGTGGCTGAGACTAGCGATGGGGGTGTTACTGGGAAGGCATCGATGAG
 CCGCTGGCCCCGGGAGTCAACATCACCTCCTGGAAGAACAAGGAGTGGAGACCGCAGGACGCGGAACCAT
 GTGCCATCCCAACTCGAGATTCTGCACCCCTGCCAGCCAGTCCCCATTATTGACCCTGCCTGGGAATC
 TCCAGAAGGAGTACCCATTGAGGGTATCATCTTTGGTGGCCGTAGACCTGAAGGTGTCCCCTTGTCTAT
 GAAGCCCTCAGCTGGCAGCATGGGGTGTGTTAGGAGCAGCCATGAGATCTGAGGCCACAGCTGCTGCAG
 AACACAAGGGCAAGATCATCATGCACGACCCCTTTGCCATGCGACCCCTTTCGGCTACAACCTCGGCAA
 ATACCTGGCCCACTGGCTGAGCATGGCCACCCGCCAGCAGCAGCAAGTTGCCCAAGATCTTCCATGTCAAC
 TGGTTCGGGAAGGACAAAGATGGCAAGTTCTCTGGCCAGGCTTTGGCGAGAACTCCCGGTGCTGGAGT
 GGATGTTCCGGCGGATTGAAGGGGAAGACAGCGCCAAGCTCACGCCCATCGGCTACATCCCTAAGGAAAA
 CGCCTTGAACCTGAAAGGCTGGGGGGCGTCAACGTGGAGGAGCTGTTGGGATCTTAAGGAGTTCTGG
 GAGAAGGAGTGGAGGAGATCGACAGGTATCTGGAGGACCAGGTCAACACCGACCTCCCTACGAAATTG
 AGAGGGAGCTCCGAGCCCTGAAACAGAGAATCAGCCAGATGTAATCCCAATGGGGGCGTCTCGAGAGTC
 ACCCTTCCCCTCACAGCATGCGCTGAGATCTAGGAGAAAGCCAGCCTGCTCCAGCTTTGAGATAGCGG
 CACAATGCTGAGTAGATCAGAAAAGCACCTTTAATAGTCAGTTGAGTAGCACAGAGAACAGGCTAGGGG
 CAAATAAGATTGGGAGGGGAAATCACCCGATAGTCTCTGAAGTTTGCATTTGACACCAATGGGGTTTTG
 GTTCCACTTCAAGGTCACTCAGGAATCCAGTTCTTACGTTAGCTGTAGCAGTTAGCTAAAAATGCATAGA
 AAACATACTTGAGCTGTATATGTGTGTGAACGTGTCTCTGTGTGAGCATGTGTGTGTGTGTGTGTGTG
 TGTGTGTGTGTGTGTACATGCCTGTCTGTCCATTGTCCACAGTATATTTAAACCTTTGGGGAAAAA
 TCTTGGGCAAATTTGTAGCTGTAAGTAGAGAGTATGTTGCTTTGTTGCTAGTATGTATGTTTAAATTTAT
 TTTTATACACCGCCCTTCTTACCTTTCTTTACATAATTGAAATTGGTATCCGGACCACTCTTGGGAAA
 AAAATTACAAAATAAACTTTTATAGAAAAAGTAAAAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** EcoRI-NotI
- ACCN:** BC037629
- Insert Size:** 1869 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: [BC037629](#), [AAH37629](#)

RefSeq Size: 2645 bp

RefSeq ORF: 1869 bp

Locus ID: 18534

Cytogenetics: 2 95.79 cM

Gene Summary: Regulates cataplerosis and anaplerosis, the processes that control the levels of metabolic intermediates in the citric acid cycle. At low glucose levels, it catalyzes the cataplerotic 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. At high glucose levels, it catalyzes the anaplerotic conversion of phosphoenolpyruvate to oxaloacetate.[UniProtKB/Swiss-Prot Function]