

Product datasheet for **RN202791**

Pck1 (NM_198780) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pck1 (NM_198780) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Pck1
Synonyms:	GTP; PCK; Pepck; PEPCK-C; RATPEPCK
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN202791 representing NM_198780
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCTCCTCAGCTGCATAATGGTCTGGACTTCTCTGCCAAGGTATCCAGGGCAGCCTCGACAGCCTGC
 CCCAGGAAGTGAGGAAGTTTGTGGAAGGCAATGCCAGCTGTGCCAGCCAGAGTATATTCACATCTGCGA
 CCGCTCCGAGGAGGAGTACGGGGCGCTGCTGGCCACATGCAGGAGGAGGGTGTATCCGCAAGCTGAAG
 AAATATGACAACCTGTTGGCTGGCTCTCACTGACCCAGGGATGTGGCCAGGATCGAAAGCAAGACGGTCA
 TCATTACCAAGAGCAGAGAGACACCGTGCCCATCCCCAAAAGTGGGCAGAGCCAGCTGGGCCGCTGGAT
 GTCAGAAGAGGACTTCGAGAAAGCATTCAACGCCAGGTTCCCGGGGTGCATGAAAGGCCGACCATGTAT
 GTCATCCCATTGAGTGGGGCCGCTGGGCTCACCTCTGGCCAAGATTGGTATTGAGCTGACAGACTCGC
 CCTATGTGGTGGCCAGCATGCGGATCATGACACGGATGGGGACCTCTGTGCTGGAGGCCCTGGGCGATGG
 GGAGTTTATCAAGTGCCTCCACTCGTGGGGTGCCTCTCCCCTTAAAAAAGCCTTTGGTCAACAACCTGG
 GCCTGCAACCCCGAGCTGACCCTGATTGCTCACCTCCCGACCGCAGAGAGATCATCTCCTTCGGAAGCG
 GATACGGTGGAACTCACTGCTTGGGAAGAAATGCTTTGCGTGCAGGATCGCCAGCAGGCTGGCTAAGGA
 GGAAGGGTGGCTGGCGGAGCACATGCTGATCCTGGGCATAACTAACCCCGAAGGCAAGAAGAAATACCTG
 GCAGCAGCCTTCCCCAGTGCCTGTGGGAAAACCAACCTGGCCATGATGAACCCACCCCTCCCCGGGTGGA
 AAGTTGAATGTGTGGGTGATGACATTGCCTGGATGAAGTTTGTGCCAAGGCAACTTAAGGGCCATCAA
 CCCAGAAAACGGTTTTTTTGGAGTTGCTCCGGCACCTCAGTGAAGACAAATCCGAACGCCATTAAGACC
 ATCCAGAAAACACCATCTTACCAACGTGGCTGAGACAAGTGAAGGGGTGTTTACTGGGAAGGCATCG
 ATGAGCCCTGGCCCCAGGAGTACCATCACTTCCCTGGAAGAACAAGAGTGGAGACCACAGGATGAGGA
 ACCGTGCCGCCATCCCAACTCGCGATTCTGCACCCCTGCCAGCCAATGTCCCATTATTGACCCCGCCTGG
 GAATCTCCTGAAGGAGTGCCCATCGAAGGCATCATTTTTTGGTGGCCGTAGACCTGCAGGTGTCCCCCTTG
 TCTACGAAGCTCTCAGCTGGCAGCATGGGGTGTGTGATGAGCTGCCATGAGATCAGAGGCCACCGCTGC
 TGCAGAGCATAAGGGCAAGGTATCATGCACGACCCCTTCGCTATGCGGCCCTTCTTTGGCTACAACCTC
 GGCAAGTACCTGGCGCACTGGCTGAGCATGGCCACCGCCAGCAGCCAAGTTGCCCAAGATCTTCCACG
 TCAACTGGTTCGGAAAGACAAAACGGCAAGTCTCTGGCCCGGATTTGGTGAAGTCCCGCGTGTCT
 GGAGTGGATGTTGCGACGCATCGAAGGGGAAGACAGCGCCAAGCTCACTCCATTGGCTACGTCCTAAG
 GAAGACGCCCTGAACTTGAAGGCTGGGGGACGTCAACGTGGAGGAGCTTTCGGAATCTCTAAGGAAT
 TCTGGGAGAAGGAGTGGAGGAGATCGACAAGTATCTGGAGGACCAGGTCAACGCCGACCTCCCTTACGA
 AATAGAGAGGGAGCTCCGAGCCCTGAAACAGAGAATCAGCCAGATG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_198780

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: [NM_198780.3](#), [NP_942075.1](#)

RefSeq Size: 2644 bp

RefSeq ORF: 1869 bp

Locus ID: 362282

UniProt ID: [P07379](#)

Cytogenetics: 3q42

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]